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May 15, 2020

Omer Shalev
Remedial Project Manager
United States Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105

Subject: Quarterly Performance Evaluation Report, First Quarter 2020
Full Scale On-Site Soil Remedy
Omega Chemical Superfund Site, Operable Unit 1, Whittier, California

Dear Mr. Shalev:

Enclosed for your review is the first quarter 2020 Performance Evaluation Report for the Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site, Operable Unit 1, Whittier, California.

Should you have any questions, regarding the above, please contact me.

Sincerely,

Omega Chemical Site PRP Organized Group

Edward Modiano
Project Coordinator

Jaime Dinello, PE
Project Manager

cc: Don Indermill, DTSC

de maximis, inc.

MAY 15, 2020

FULL SCALE ON-SITE SOIL REMEDY PERFORMANCE EVALUATION REPORT FIRST QUARTER 2020 OMEGA CHEMICAL SUPERFUND SITE, OU-1

Prepared for:

Omega Chemical Site
PRP Organized Group
(OPOG)

Prepared by:

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FULL-SCALE ON-SITE SOIL REMEDY
OMEGA CHEMICAL SUPERFUND SITE, OU-1

Quarterly Performance Evaluation Report
First Quarter 2020

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FULL-SCALE ON-SITE SOIL REMEDY

OMEGA CHEMICAL SUPERFUND SITE, OU-1

Quarterly Performance Evaluation Report

First Quarter 2020

1. INTRODUCTION

This Quarterly Performance Evaluation Report (QPER) has been prepared on behalf of the Omega Chemical Site Potentially Responsible Parties Organized Group (OPOG) to comply with the October 6, 2010 Consent Decree No. 10-05051 (CD) between United States Environmental Protection Agency (USEPA) and OPOG (USEPA, 2010). The CD requires OPOG to design, construct, and operate a full-scale soil vapor extraction (SVE) and treatment system and perform associated monitoring to address vadose zone soil within Operable Unit 1 (OU-1). The CD Statement of Work satisfies the requirements of the 2008 OU-1 Record of Decision (ROD) (USEPA, 2008). Figure 1 shows the general location of OU-1, as well as the occupancy status of buildings within the operable unit. The locations of the OU-1 SVE system components, including the associated Vapor Extraction Wells (VEWs), the Dual Phase Extraction (DPE) wells, the treatment plant, and the associated Vapor Monitoring Probes (VMPs), are presented in Figure 2.

Remedial Action Objective (RAO) compliance monitoring includes the collection of soil gas and indoor air data within the OU-1 boundary. Current monitoring requirements are as follows:

- OU-1 SVE system operational data are collected to determine whether treated vapor emissions are substantively compliant with South Coast Air Quality Management District (SCAQMD) requirements as well as to conform to the requirements of the Draft OU-1 SVE Operations, Maintenance, and Monitoring (OM&M) Manual (CDM Smith, 2018a). OPOG responded to USEPA's comments on the Draft OM&M Manual and Sampling and Analysis Plan on June 18, 2019. Following a response from USEPA, OPOG will revise and resubmit the Draft OM&M Manual. These data are included in Section 2.

- Shallow soil gas data are collected semi-annually during the first and third quarters from specified VMPs in the shallow vadose zone (0 – 30 feet below ground surface [bgs]) to show that concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) are declining in the vadose zone, making progress toward achieving the specified soil gas cleanup levels that are protective of indoor air (RAO #1) and will also ultimately result in achieving soil cleanup levels (RAO #2). These data are collected from VMPs and assessed in accordance with the USEPA-approved soil gas sampling memo (CDM Smith, 2018b). The USEPA-approved soil gas sampling memo specifies all required compliance monitoring for the OU-1 SVE system until the approval of the OM&M Manual. These data are included in Section 3.

- Deep soil gas data are collected semi-annually during the first and third quarters from specified VMPs in the deep vadose zone (40 – 70 feet bgs) to show that deep soil gas concentrations are declining over time (RAO #3). These data are also collected and assessed in accordance with the USEPA-approved soil gas sampling memo (CDM Smith, 2018b). These data are included in Section 3.

- Indoor air data are collected from within occupied OU-1 buildings to show that concentrations of PCE and TCE in indoor air are below acceptable risk levels (RAO #1). Indoor air compliance monitoring for 2020 is based on the 2020 Indoor Air Quality Sampling Plan (de maximis, 2020), which prescribes the sampling locations and structures to be sampled during the 2020 Annual (January) and Semi-Annual (July) monitoring events. These data are included in Section 4.

- Soil concentration data in the shallow vadose zone (0 – 30 feet bgs) will be collected in the future after mutual agreement between USEPA and OPOG. This will occur after shallow soil gas concentrations remain below ROD cleanup levels subsequent to USEPA-approved rebound testing.

2. OU-1 SVE SYSTEM OPERATIONS THIS QUARTER

The OU-1 SVE System functioned this quarter with minimal issues or downtime. Alarm testing occurred on January 24, 2020, with all switches and alarms found to be functioning as designed. Though functioning as intended (i.e. shutting off the OU-1 system), the Sensaphone was not sending text message alerts following one particular alarm. The Sensaphone was

repaired (there was an electrical short in the battery compartment) and re-installed on February 18, 2020. While the Sensaphone was offline, alarm testing was conducted generally weekly to mitigate the risk of a malfunctioning switch from not triggering the proper response (such as a system shutdown).

On March 27, 2020, a metal on metal contact noise was observed at the OU-1 SVE blower while routine maintenance was being performed. Though OPOG does not believe this is of immediate concern, OPOG is currently evaluating the blower capacity to determine if a repair or replacement is needed.

Approximately 6.1 pounds of VOC mass were removed from soil gas this quarter, compared to 11.7 pounds removed in the previous quarter. Figure 3 shows the cumulative mass removed since 2010.

VACUUM BLOWER

As shown in Attachment A, Table A-1, the OU-1 SVE system functioned this quarter with an up time of approximately 99%.

VAPOR EXTRACTION WELLS (VEWs) AND DUAL PHASE EXTRACTION (DPE) WELLS

All OU-1 SVE system VEWs and DPE wells were mechanically functional during this quarter. VEW and DPE well operational data, including flow rate, total volatile organic compound (VOC) concentrations, as measured by photoionization detector (PID) readings and laboratory analyses (if analytical samples were collected), vacuum, temperature, relative humidity, and estimated mass removed per well during the quarter are presented in Attachment B, Table B-1. No VEW influent manifold valve adjustments are recommended this quarter.

VAPOR MONTORING PROBES

The extraction wells provided enough vacuum influence to continue to remove mass and mitigate vapor migration. Per the EPA-approved soil gas memo, vacuum/pressure monitoring at specified VMPs shall be conducted quarterly, and analytical monitoring shall be conducted semi-annually (typically first and third quarters) except for select VMPs which are monitored for both vacuum and analytical concentrations annually. A summary of the VMP vacuum monitoring

collected this quarter are included in Attachment C (Tables C-1/Figure C-1 and Table C-2/Figure C-2 for shallow and deep VMPs respectively). Concentrations of PCE and TCE measured during this quarter are presented on Figures 4 and 5, respectively. As shown in Attachment C, re-sampling events occurred on February 28, and March 2 and 4 due to elevated detections in the sample results of 1,1-difluoroethane (1,1-DFA) which was used as a leak detection gas during the first quarter. Based on results of recent leak tests, OPOG has determined that VMP-27-30 may have a leak that could require repair or replacement of the VMP. OPOG will evaluate options for this VMP.

Note that OPOGs Project Engineer and O&M Contractor are working collaboratively to modify VMP sampling procedures to improve leak testing results. Any modifications will be documented in the VMP sampling Standard Operating Procedure, which will be included in the Revised OM&M Manual.

Attachment D serves as a placeholder for monitoring data collected from other VMPs not included in the EPA-approved soil gas memo (note that no VMPs of this type were sampled this quarter).

TREATED VAPOR DISCHARGE

The OU-1 SVE system operated in accordance with treated vapor discharge limits and VGAC operational requirements. The VGAC changeout criteria were not triggered during this quarter (Attachment A). The criteria are currently based on the existing Health Risk Assessment (HRA, CDM Smith, 2015), which is currently being reviewed by USEPA as part of the revised OU-1 SVE OM&M Manual. The most recent carbon changeout of the lead and lag vessels was completed on March 15, 2019.

Table 1 shows the VOC concentrations in the VGAC influent, midpoint, and effluent samples and effluent discharge limits. Figure 6 shows VGAC influent concentrations for PCE and TCE since 2010. Attachment A, Table A-1 shows the flow rate, temperature, and total VOC concentrations, as measured using a PID. Figure A-1 shows selected parameters over time.

Operational field forms (for all monitoring discussed in this section) are provided in Attachment E. Analytical laboratory reports are provided in Attachment F. A summary of the results of the data quality assessment and data validation reports are provided in Attachment G.

3. SOIL GAS COMPLIANCE MONITORING

As shown on Figure 4, analytical results from shallow soil gas samples collected this quarter show that PCE cleanup levels were achieved at all VMPs sampled except for VMP-11. TCE cleanup levels were achieved at all shallow VMPs sampled (Figure 5). Historical PCE and TCE concentrations in vapor from VMPs sampled this quarter are presented in time series charts in Attachment C, Figures C-3 through C-25. As shown on Figures C-19 through C-25, there are declining trends in almost all deep soil gas VOC concentrations. These and all other data will continue to be assessed to determine if optimization should be conducted for a specific location.

4. INDOOR AIR COMPLIANCE MONITORING

The occupancy status and current monitoring schedule for each building is summarized in Table 2. Indoor air sampling is generally only conducted in buildings that are occupied. Occupancy status is verified each quarter.

As discussed above, indoor air compliance monitoring is conducted during the Annual (January) and Semi-Annual (July) monitoring events. Indoor air data collected from occupied OU-1 specified buildings during the Annual monitoring event show that concentrations of PCE and TCE in indoor air are below USEPA Regional Screening Levels (RSLs). IAQ results for PCE and TCE are presented on Figure 7 and a summary of results are included in Attachment H.

5. SUBMITTALS DURING THE QUARTER

The following submittals were made this quarter as part of the OU-1 Full Scale On-site Soil Remedy:

- Full Scale On-site Soil Remedy QPER, Fourth Quarter 2020 (February 10, 2020)

6. PLANNED ACTIVITIES

Planned operational and monitoring activities scheduled for the next quarter include the following:

- Monthly vacuum, flow, temperature and PID monitoring at VEWs and DPE wells
- Quarterly vacuum monitoring at VMPs

- Review of VEW, DPE well, and VMP data to assess the need for optimizing performance
- Monthly assessment of VGAC effectiveness and need for VGAC changeout
- Quarterly performance reporting

7. PROBLEMS OR ISSUES OF CONCERN

None.

8. REFERENCES

CDM. (2007). *Final Human Health Risk Assessment for On-Site Soils*

CDM Smith. (2015). *Memorandum: Treatment of Effluent from Groundwater Treatment System and Soil Vapor Extraction, Omega Chemical Superfund Site, Whittier, California 90602, February 26*

CDM Smith. (2018a). *DRAFT – Operable Unit 1 Soil Vapor Extraction System Operations, Maintenance, and Monitoring Manual, December 21.*

CDM Smith. (2018b). *Revised 2018 Operable Unit 1 (OU-1) On-site Soil Remedy Soil Gas Monitoring, August 27*

de maximis, inc. (2020). *2020 Indoor Air Quality Sampling Plan, Omega Chemical Superfund Site.* November 26

USEPA. (2008). *Record of Decision for OU-1 Soils.*

USEPA. (2010). *Consent Decree Docket No. 10-05051, October 6*

TABLES

Table 1
Vapor Phase GAC Analytical Data Demonstrating Substantive Compliance With SCAQMD Regulations
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

SCAQMD Chemical-Specific Effluent Limit[1]			2,208	198	84	15	14	48	1,082	65
Sample Location	**Sample Date**	**Units**	**PCE**	**TCE**	**VC**	**11DCA**	**12DCA**	**CF**	**MeC**	**BEN**
OU-1 SVE GAC INFLUENT	1/6/2020	ppbv	72	4.4	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U
OU-1 SVE GAC MIDPOINT	1/6/2020	ppbv	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U
OU-1 SVE GAC EFFLUENT[2]	1/6/2020	ppbv	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**12 U**	**1.2 U**
OU-1 SVE GAC INFLUENT	2/7/2020	ppbv	63	5	1.2 U	1.2 U	1.2 U	1.2 U	12 U	6.5
OU-1 SVE GAC MIDPOINT	2/7/2020	ppbv	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U
OU-1 SVE GAC EFFLUENT[2]	2/7/2020	ppbv	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**12 U**	**1.2 U**
OU-1 SVE GAC INFLUENT	3/13/2020	ppbv	56	4.8	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U
OU-1 SVE GAC MIDPOINT	3/13/2020	ppbv	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U
OU-1 SVE GAC EFFLUENT[2]	3/13/2020	ppbv	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**12 U**	**1.2 U**
Compliance with Effluent Limits?			**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**

Notes:

1. SCAQMD effluent limits are derived from the Health Risk Assessment (CDM Smith, 2015).

2. Bold text indicates vapor effluent results from the VGAC effluent required to meet SCAQMD HRA chemical specific limits shown in the table.

OU-1 SVE GAC Influent = VOC-laden vapor sample collected at the influent to the lead VGAC vessel.

OU-1 SVE GAC Midpoint = Partially treated vapor sample collected between the lead and lag VGAC vessels.

OU-1 SVE GAC Effluent = Fully treated vapor sample collected at the effluent from the lag (polishing) VGAC vessel.

U - Not detected above reporting limit listed

PCE - Tetrachloroethene
TCE - Trichloroethene
VC - Vinyl Chloride
11DCA - 1,1-Dichloroethane
12DCA - 1,2-Dichloroethane
CF - Chloroform
MeC - Methylene Chloride
BEN - Benzene

Table 2
Status of Indoor Air Sampling at Buildings Wholly or Partially within the OU-1 Phase 1a Boundary
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Building	Location Designation	Building Occupancy	Vacancy Status Verification	Current Monitoring Status	Date Last Sampled	Next Planned Sampling Date	Sampling Rationale
Sunland Enterprises (Former Omega Administration)	Within OU-1 Boundary	Occupied	Verified in person 1/17/2020	Annual	1/17/2020	January 2021	- Sampled as part of Remedial Investigation - Building unoccupied between 2005 and 2018. The building is currently leased to Sunland Enterprises, Division of E&A Car Wash Systems - EPA has not requested indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2011 - Building was incorporated into the annual monitoring program proposed in the 2020 Indoor Air Quality Sampling Plan (submitted to EPA on November 26, 2019)
Bishop	Partly within OU-1 Boundary	Occupied	Verified in person 1/16/2020	Semi-Annual	1/16/2020	July 2020	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from quarterly to semi-annual (approved by EPA in letter to OPOG on November 28, 2018).
Madsen Roofing	Within OU-1 Boundary	Partially Occupied	Verified in person 1/17/2020	Annual	1/17/2020	January 2021	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from semi-annual to annual (approved by EPA in letter to OPOG on November 28, 2018).
Star City Auto Body	Within OU-1 Boundary	Occupied	Verified in person 1/16/2020	Annual	1/16/2020	January 2021	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from semi-annual to annual (approved by EPA in letter to OPOG on November 28, 2018).
Terra Pave	Within OU-1 Boundary	Partially Occupied	Verified in person 1/16/2020	Semi-Annual	1/16/2020	July 2020	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from quarterly to semi-annual (approved by EPA in letter to OPOG on November 28, 2018).

FIGURES

OU-1 Boundary
Building Currently Commercially/Industrially Occupied
Building Currently Vacant
Former Omega Chemical Property Boundary

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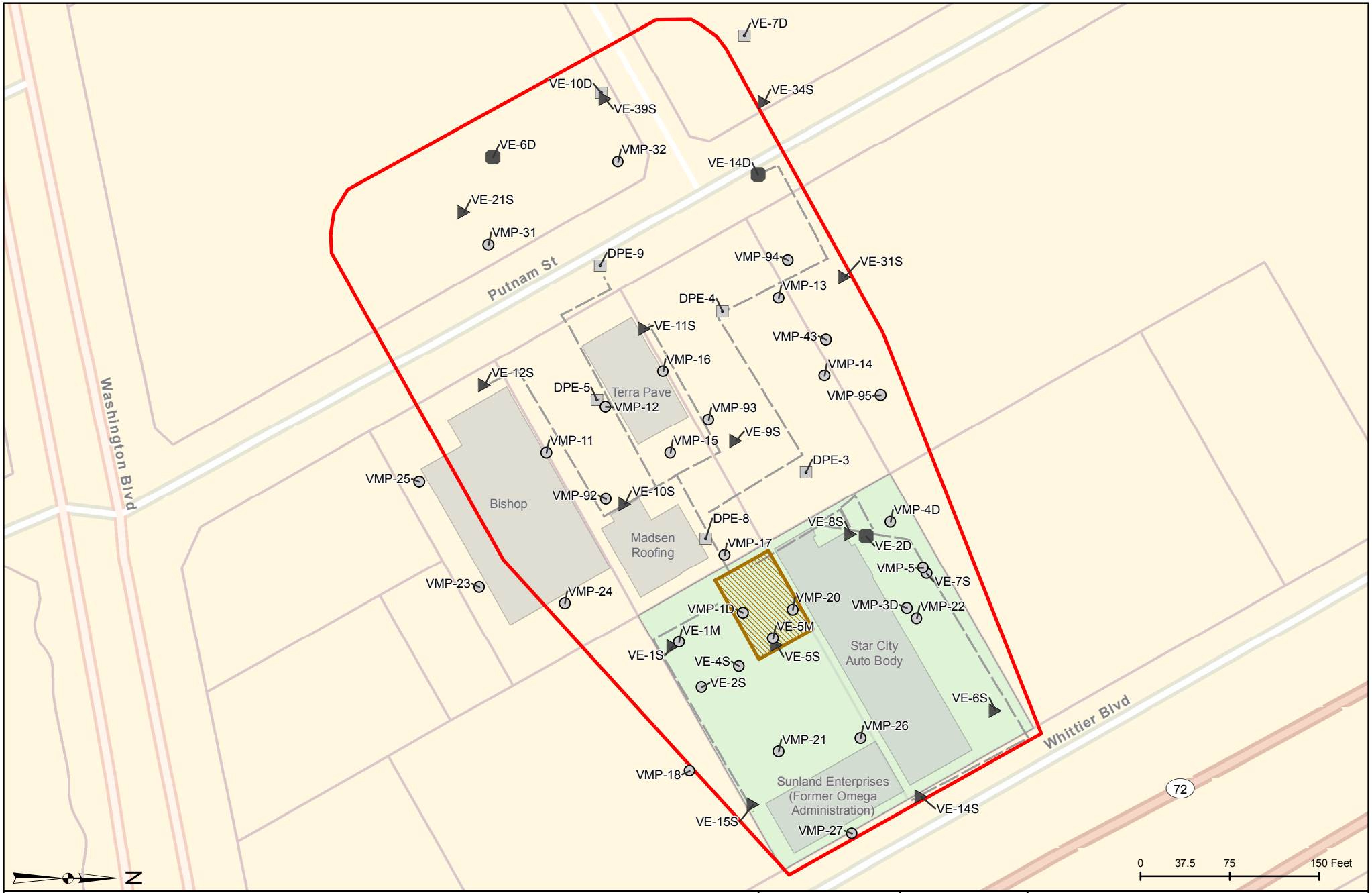
Reviewed By: MH
Drawn By: LEM
Date: 1/22/2019

Figure 1
OU-1 Location Map
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
12504/12512 East Whittier Boulevard
Whittier, California



- Shallow Vapor Extraction Well (<30ft bgs)
- Deep Vapor Extraction Well (>30ft bgs)
- Dual Phase Extraction Well
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Vapor Monitoring Probe
- OU-1 SVE Treatment Plant
- OU-1 Boundary
- Former Omega Chemical Property Boundary
- Conveyance Piping

Not all conveyance piping shown. Locations are approximate.

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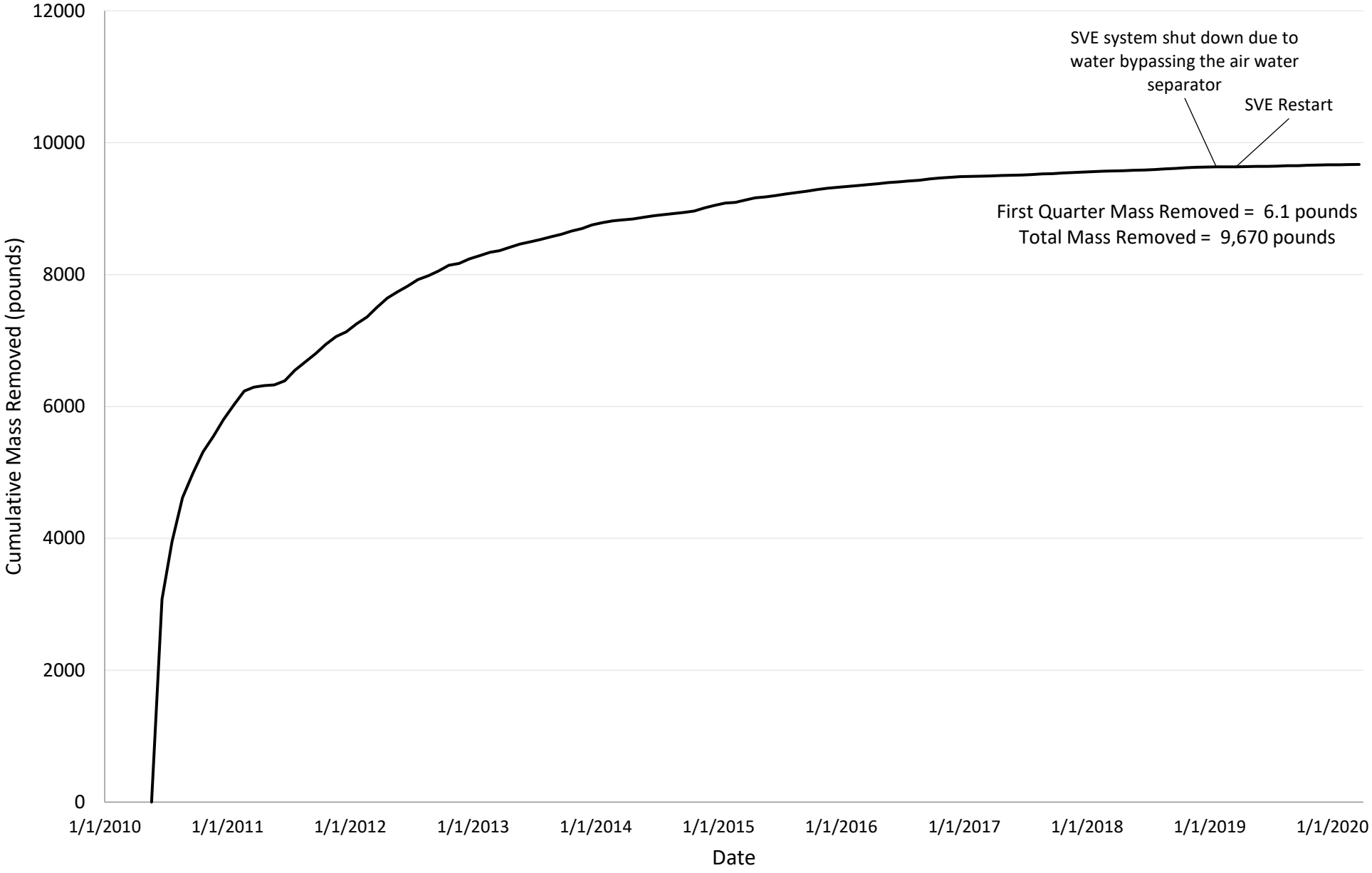
Reviewed By: LM
Drawn By: KM
Date: 2/12/2019

Figure 2
OU-1 SVE System Location Map
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site

Figure 3
OU-1 SVE System Cumulative Mass Removed
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020



Shallow Vapor Monitoring Probe Analytical Data and Cleanup Level

Location	Sample Type	Sample Date	PCE
		Cleanup Level	470
VMP-11-30	ORIG	1/14/2020	630 J
VMP-12-30	ORIG	1/14/2020	47 J
VMP-15-30	ORIG	1/14/2020	51 J,N
VMP-15-30	DUP	1/14/2020	49 J,N
VMP-16-30	ORIG	3/9/2020	7.8 U
VMP-17-30	ORIG	1/14/2020	16 J,N
VMP-18-30	ORIG	1/14/2020	47 J
VMP-18-30	DUP	1/14/2020	38 J
VMP-20-30	ORIG	3/4/2020	10 J,N
VMP-21-30	ORIG	2/28/2020	61 J,N
VMP-22-30	ORIG	3/2/2020	21 J,N
VMP-24-30	ORIG	1/13/2020	250 J
VMP-26-30	ORIG	3/4/2020	7.8 UJ
VMP-27-30	ORIG	3/2/2020	7.9 UJ
VMP-27-30	DUP	3/2/2020	8.2 UJ
VMP-31-24	ORIG	3/2/2020	8.3 U
VMP-32-24	ORIG	3/2/2020	23
VMP-43-24	ORIG	1/13/2020	7.9 UJ
VMP-94-24	ORIG	1/13/2020	7.9 UJ

All concentrations in units of ug/m3
U = Not detected above reporting limit listed
UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
J = results are qualified as estimated.
J,N = quantitatively estimated and presumptively present.
Shallow = between 0 and 30 feet below ground surface
ORIG = original sample
DUP = field duplicate
The last two digits of each Location indicate the depth of the sample in feet
PCE = Tetrachloroethene

- Data unusable, VMP to be resampled
- < 470 ug/m3 at all sampled depths; achieves cleanup level for PCE
- > 470 ug/m3 at any sampled depth; does not achieve cleanup level for PCE
- Building Currently Commercially/ Industrially Occupied
- OU-1 Boundary
- Former Omega Property

1. Shallow Vapor Monitoring Probes are installed between 0 and 30 feet below land surface.

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Reviewed By: LM
Drawn By: KM
Date: 4/29/2020

Figure 4
PCE Concentrations in Shallow Soil Gas[1] Demonstrating Compliance with Cleanup Level
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2020

Shallow Vapor Monitoring Probe Analytical Data and Cleanup Level

Location	Sample Type	Sample Date	TCE
		Cleanup Level	1300
VMP-11-30	ORIG	1/14/2020	24
VMP-12-30	ORIG	1/14/2020	5.8 U
VMP-15-30	ORIG	1/14/2020	6.3 UJ
VMP-15-30	DUP	1/14/2020	6.6 UJ
VMP-16-30	ORIG	3/9/2020	6.2 U
VMP-17-30	ORIG	1/14/2020	6.3 UJ
VMP-18-30	ORIG	1/14/2020	8.9
VMP-18-30	DUP	1/14/2020	7.4
VMP-20-30	ORIG	3/4/2020	6.4 UJ
VMP-21-30	ORIG	2/28/2020	11 J,N
VMP-22-30	ORIG	3/2/2020	6.4 UJ
VMP-24-30	ORIG	1/13/2020	6.2 U
VMP-26-30	ORIG	3/4/2020	6.2 UJ
VMP-27-30	ORIG	3/2/2020	6.3 UJ
VMP-27-30	DUP	3/2/2020	6.5 UJ
VMP-31-24	ORIG	3/2/2020	6.6 U
VMP-32-24	ORIG	3/2/2020	6.3 U
VMP-43-24	ORIG	1/13/2020	6.3 U
VMP-94-24	ORIG	1/13/2020	6.3 U

All concentrations in units of ug/m3
U = chemical not detected. Lab detection limit for chemical is listed.
UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
J,N = quantitatively estimated and presumptively present.
Shallow = between 0 and 30 feet below ground surface
The last two digits of each Location indicate the depth of the sample in feet
ORIG = original sample
DUP = field duplicate
TCE = Trichloroethene

- Data unusable, VMP to be resampled
- < 1300 ug/m3 at all sampled depths; achieves cleanup level for TCE
- > 1300 ug/m3 at any sampled depth; does not achieve cleanup level for TCE
- Building Currently Commercially/ Industrially Occupied
- OU-1 Boundary
- Former Omega Property

1. Shallow Vapor Monitoring Probes are installed between 0 and 30 feet below land surface.

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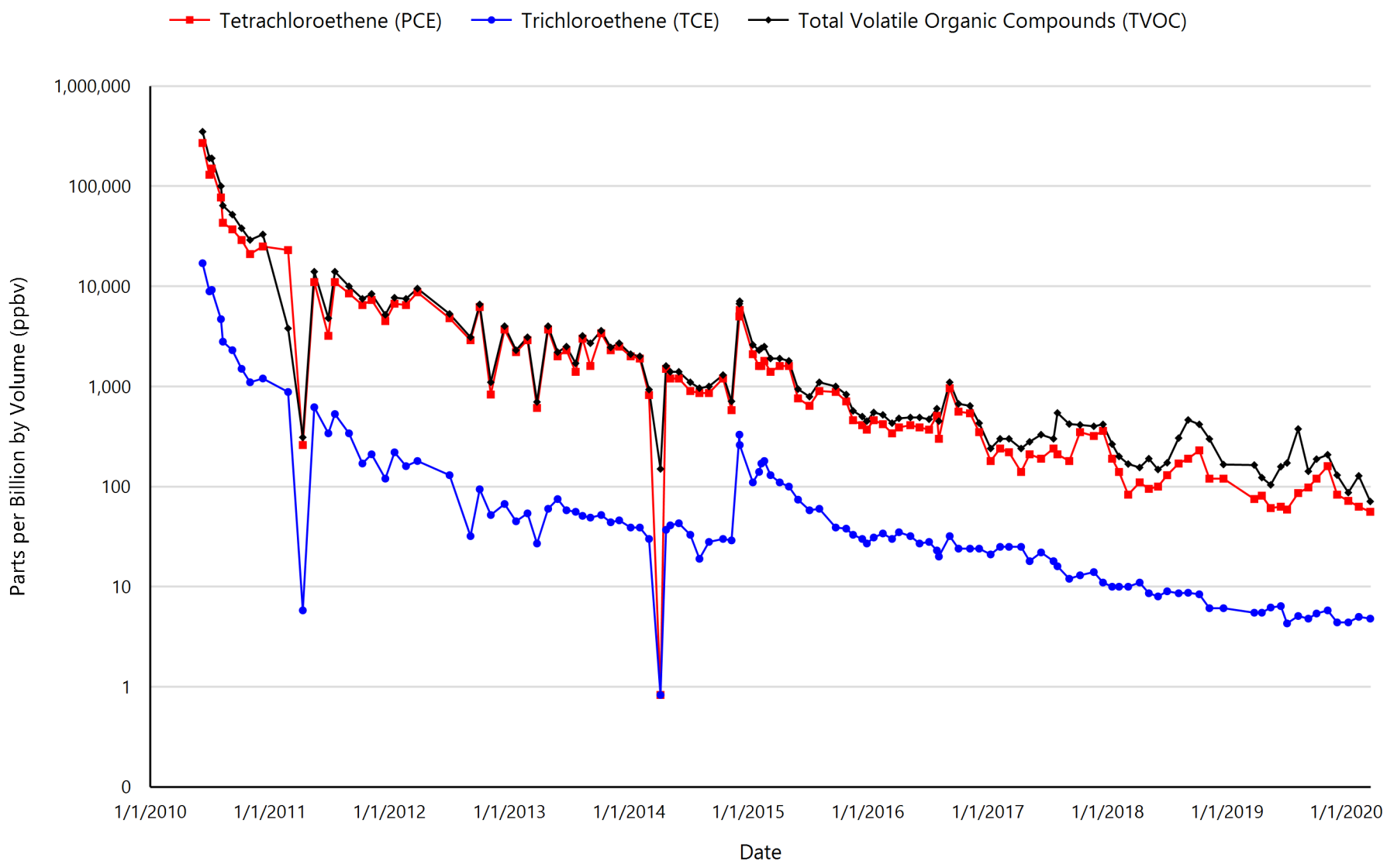
de maximis, inc.

Reviewed By: LM
Drawn By: KM
Date: 4/29/2020

Figure 5
TCE Concentrations in Shallow Soil Gas[1] Demonstrating Compliance with Cleanup Level
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2020

Figure 6
Vapor Phase GAC Influent Concentrations
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020



Indoor Air Sampling Results

Sample ID	Sample Type	Date	PCE	TCE
RSLs (Industrial/Residential)			47/11[1]	3/0.48[1]
B1	ORIG	1/16/2020	0.37	0.18 U
B1	DUP	1/16/2020	0.23 U	0.18 U
B2	ORIG	1/16/2020	0.30	0.17 U
B3	ORIG	1/16/2020	0.21 U	0.17 U
MR1	ORIG	1/17/2020	0.28	0.18 U
SC1	ORIG	1/16/2020	0.22 U	0.18 U
SC2	ORIG	1/16/2020	0.22 U	0.17 U
SC2	DUP	1/16/2020	0.21 U	0.17 U
SC3	ORIG	1/16/2020	0.22 U	0.18 U
SUN1	ORIG	1/17/2020	0.47	0.17 U
SUN2	ORIG	1/17/2020	0.23 U	0.18 U
TP1	ORIG	1/16/2020	0.53	0.17 U
TP1	SPLIT	1/16/2020	0.48	0.054 U
TP3	ORIG	1/16/2020	4.8[2]	0.84 U

1. http://www.epa.gov/region9/superfund/prg/
2. Chemical containers and odors observed at the time of sampling.

RSL = Regional Screening Level
PCE = Tetrachloroethene
TCE = Trichloroethene
U = chemical not detected. Lab detection limit for chemical is listed.
ORIG = original sample
DUP = field duplicate
SPLIT = split sample

Indoor Air Sample that achieves USEPA Industrial RSLs
OU-1 Boundary
Former Omega Chemical Property Boundary
Building Currently Commercially/Industrially Occupied; Sampled This Quarter
Building Currently Commercially/Industrially Occupied; Not Sampled This Quarter

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de maximis, inc.

Reviewed By: LM
Drawn By: KM
Date: 4/24/2020

Figure 7
Indoor Air Concentrations
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2020

ATTACHMENT A

OU-1 SVE System Operational Data

Attachment A, Table A-1
OU-1 SVE System Operational Data Demonstrating Substantive Compliance With SCAQMD Operational Limits
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Date	Interval Run Time (hr)	Up Time[5] (%)	Influent Vapor Relative Humidity (%)	Influent Vapor Flow Rate (SCFM)	VGAC Influent Vapor Temperature (°F)	VGAC Effluent Vapor Temperature (°F)	VGAC Influent PID Measurement (ppmv)	VGAC Midpoint PID Measurement (ppmv)	VGAC Effluent PID Measurement (ppmv)	Lead VGAC Efficiency[1] (%)	Overall VGAC Efficiency[2] (%)	Mass Removed (lbs, monthly total)
SCAQMD Limit[4]				**1280**	**145**				**15**			
HRA Changeout Criteria								**50[3]**		**90[3]**		
1/6/2020	167		65.9	1163	101.1	86.3	4.1	1.2	0.5	72	88	2.2
1/13/2020	171	100	53.3	1121	99.2	87.9	3.2	0.0	0.0	99	100	
1/21/2020	191	99	69.3	1104	102.4	81.2	4.7	0.3	0.3	94	93	
1/27/2020	143	99	55.6	1116	104.2	89.0	3.4	0.2	0.1	94	97	
2/7/2020	261	99	65.1	1125	100.3	77.6	5.0	0.0	0.0	100	100	1.9
2/10/2020	74	100	43.9	1113	104.1	88.8	6.0	0.0	0.0	100	100	
2/18/2020	189	99	77.5	1129	102.8	81.1	8.9	1.7	1.0	81	88	
2/28/2020	246	100	21.9	1083	104.3	100.9	12.5	4.6	6.5	63	48	
3/6/2020	160	95	75.5	1136	100.9	79.2	3.3	0.0	0.0	100	100	2.0
3/13/2020	169	100	68.9	1080	91.1	75.1	0.0	0.0	0.0	100	100	
3/20/2020	168	100	67.0	1122	100.2	77.9	0.0	0.0	0.0	100	100	
3/27/2020	166	99	55.0	1138	100.0	77.8	0.0	0.0	0.0	100	100	
1st Qtr 2020 Average		**99**	**59.9**	**1119**	**100.9**	**83.6**	**4.3**	**0.7**	**0.7**	**84**	**84**	**2.0**
											Total Mass Removed 1st Qtr 2020	**6.1**
Compliance with SCAQMD Limits?				**YES**	**YES**				**YES**			
Carbon Changeout Required This Qtr?								**NO**		**NO**		

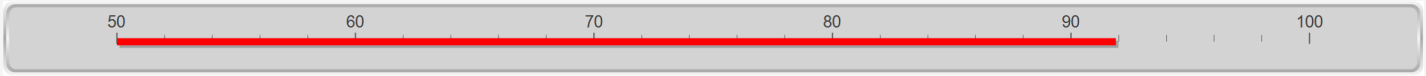
Notes:

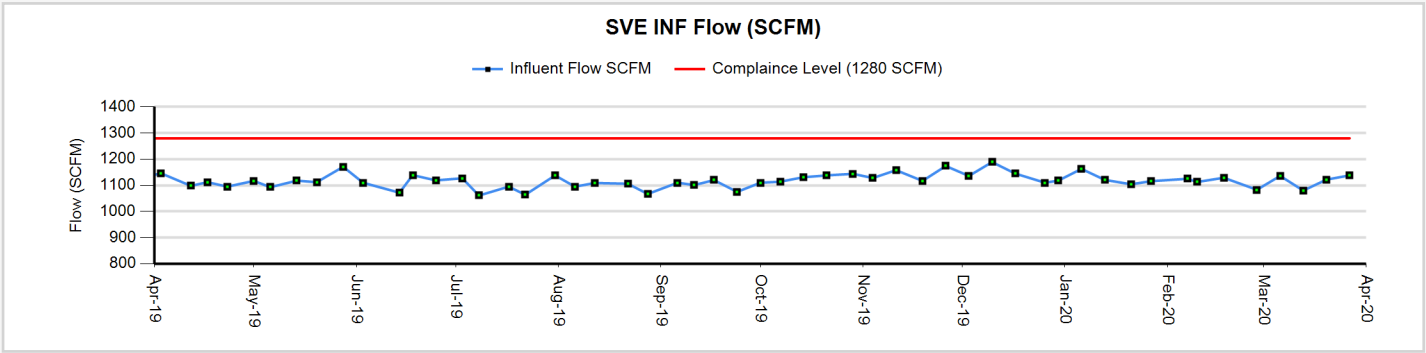
°F = degrees Fahrenheit
PID = photoionization detector
SCFM = Standard Cubic Feet per Minute
Qtr = quarter
SCAQMD = South Coast Air Quality Management District
VGAC = vapor phase granular activated carbon
ppmv = parts per million by volume as hexane
Hr = Hour
lbs = pounds

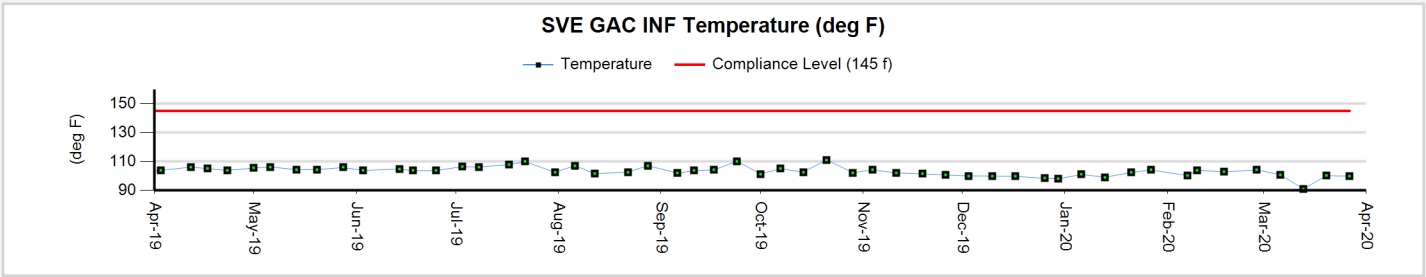
1. Lead VGAC efficiency is calculated by the PID readings between the influent and midpoint.
2. Overall VGAC efficiency is calculated by the PID readings between the influent and effluent.
3. Carbon changeouts are required when the efficiency across the lead VGAC vessel drops below 90% AND the midpoint concentration exceeds 50 ppmv as hexane, by PID during the same sampling event.
4. Limits are derived from the Health Risk Assessment (CDM Smith, 2015a).
5. Up Time is calculated as the percentage of time the system is operating between the date listed and the previous measurement date.

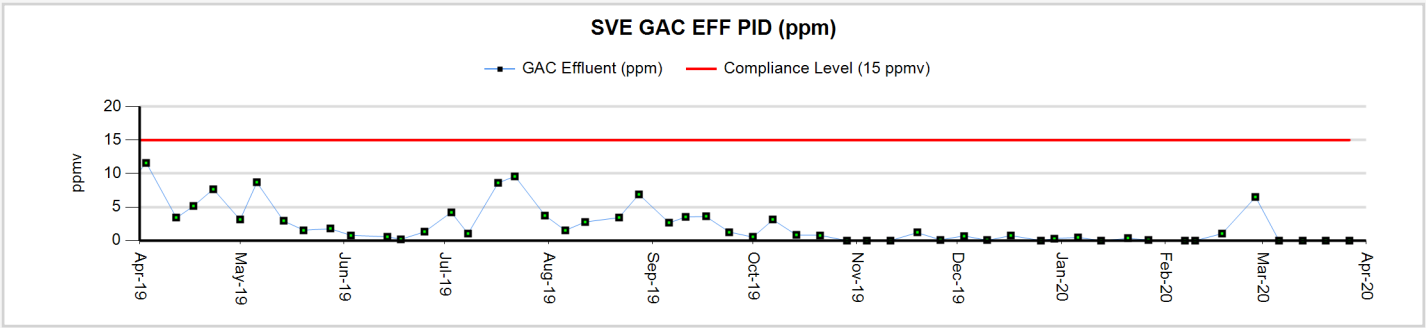
Attachment A, Figure A-1
OU-1 SVE System Operational Data (Rolling One Year)

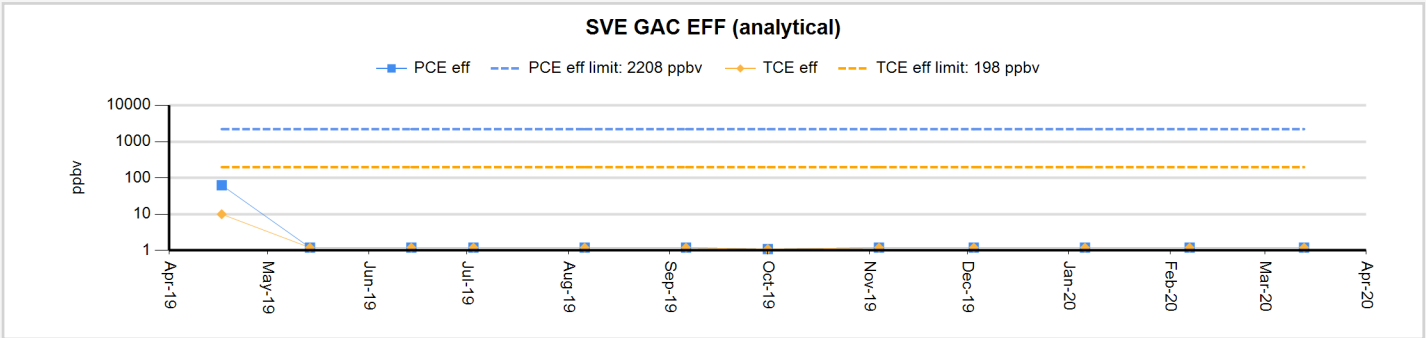
% Efficiency (PID) Across GAC Primary

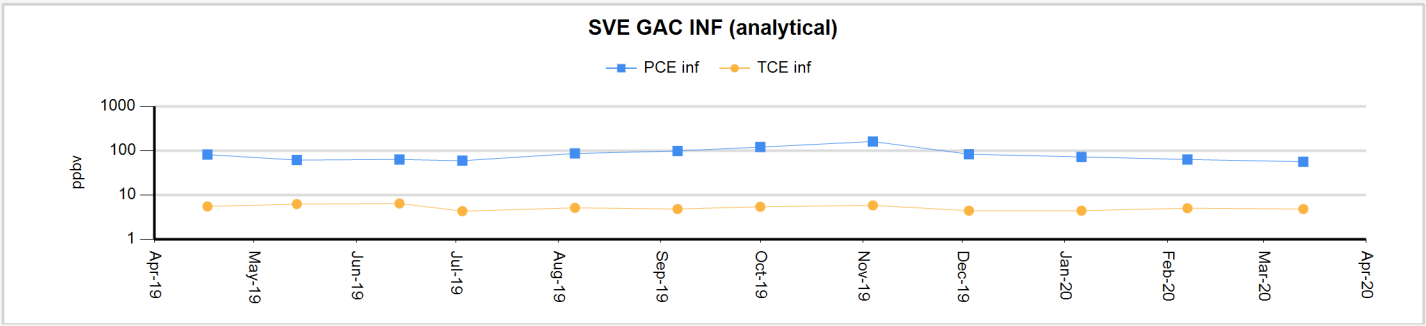












Kyle King

From: Reed, Alesandra F. <reedaf@cdmsmith.com>
Sent: Tuesday, April 21, 2020 2:21 PM
To: lmillan@ddmsinc.com; Kyle King
Cc: Bamer, Jeffrey
Subject: OU-1 SVE GAC Evaluation January 2020
Attachments: Omega OU-1 SVE GAC Changeout Assessment_January 2020.xlsx

**** WARNING EXTERNAL SENDER ****

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of January 2020, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of January, the OU-1 SVE system met the conditions presented in the HRA and was therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

OU-1 SVE GAC Assessment – Based on Samples Collected January 6, 2020					
	Concentration (ppbv)				
Parameter	**Influent**	**Midpoint**	**Effluent**	**HRA Effluent Limit**	**Below 2015 HRA Limit?**
1,1,1-Trichloroethane (TCA)	2.4	ND	ND	34	Yes
1,1-Dichloroethane	ND	ND	ND	15	Yes
1,1-Dichloroethene	2.1	2.7	2.5	1,243	Yes
1,2-Dichloroethane	ND	ND	ND	14	Yes
Benzene	ND	ND	ND	65	Yes
Carbon disulfide	ND	ND	ND	1,007	Yes
Chloroform	ND	ND	ND	48	Yes
Freon 11	1.3	1.4	1.3	1,801	Yes
Freon 113	4.4	2.1	ND	9,799	Yes
Freon 12	ND	ND	ND	775	Yes
Isopropyl Alcohol (Isopropanol)	ND	ND	ND	60	Yes
Methyl ethyl ketone	ND	15	17	75	Yes
Methylene chloride	ND	ND	ND	1,082	Yes

o-Xylene	ND	ND	ND	21	Yes
Tetrachloroethene (PCE)	72	ND	ND	2,208	Yes
TNMOC ref. to Heptane (MW=100)	380	120	84	17,405	Yes
Toluene	ND	ND	ND	47	Yes
Trichloroethene (TCE)	4.4	ND	ND	198	Yes
Vinyl chloride	ND	ND	ND	84	Yes

Please let us know if you have any questions or wish to discuss these data further.

Thanks!
Alesandra

Alesandra Reed, PE
Environmental Engineer
CDM Smith
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Kyle King

From: Reed, Alesandra F. <reedaf@cdmsmith.com>
Sent: Tuesday, April 21, 2020 2:21 PM
To: lmillan@ddmsinc.com; Kyle King
Cc: Bamer, Jeffrey
Subject: OU-1 SVE GAC Evaluation February 2020
Attachments: Omega OU-1 SVE GAC Changeout Assessment_February 2020.xlsx

**** WARNING EXTERNAL SENDER ****

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of February 2020, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of February, the OU-1 SVE system met the conditions presented in the HRA and was therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

OU-1 SVE GAC Assessment – Based on Samples Collected February 7, 2020					
	Concentration (ppbv)				
Parameter	**Influent**	**Midpoint**	**Effluent**	**HRA Effluent Limit**	**Below 2015 HRA Limit?**
1,1,1-Trichloroethane (TCA)	2.6	ND	ND	34	Yes
1,1-Dichloroethane	ND	ND	ND	15	Yes
1,1-Dichloroethene	2.4	2.4	2.3	1,243	Yes
1,2-Dichloroethane	ND	ND	ND	14	Yes
Benzene	6.5	ND	ND	65	Yes
Carbon disulfide	ND	ND	ND	1,007	Yes
Chloroform	ND	ND	ND	48	Yes
Freon 11	1.9	1.9	1.6	1,801	Yes
Freon 113	5.8	2.6	ND	9,799	Yes
Freon 12	ND	ND	ND	775	Yes
Isopropyl Alcohol (Isopropanol)	ND	ND	ND	60	Yes
Methyl ethyl ketone	ND	ND	6	75	Yes
Methylene chloride	ND	ND	ND	1,082	Yes

o-Xylene	9.6	ND	ND	21	Yes
Tetrachloroethene (PCE)	63	ND	ND	2,208	Yes
TNMOC ref. to Heptane (MW=100)	550	42	52	17,405	Yes
Toluene	31	ND	ND	47	Yes
Trichloroethene (TCE)	5	ND	ND	198	Yes
Vinyl chloride	ND	ND	ND	84	Yes

Please let us know if you have any questions or wish to discuss these data further.

Thanks!
Alesandra

Alesandra Reed, PE
Environmental Engineer
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Kyle King

From: Day, Maria L. <dayml@cdmsmith.com>
Sent: Tuesday, April 21, 2020 1:51 PM
To: Kyle King; lmillan@ddmsinc.com
Cc: Reed, Alesandra F.; Bamer, Jeffrey
Subject: OU-1 March GAC Assessment
Attachments: Revised Omega OU-1 SVE GAC Changeout Assessment_March 2020.xlsx

**** WARNING EXTERNAL SENDER ****

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of March 2020, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of March, the OU-1 SVE system did not meet the conditions presented in the HRA and is therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

OU-1 SVE GAC Assessment – Based on Samples Collected March 13, 2020					
	Concentration (ppbv)				
Parameter	**Influent**	**Midpoint**	**Effluent**	**HRA Effluent Limit**	**Below 2015 HRA Limit?**
1,1,1-Trichloroethane (TCA)	1.8	ND	ND	34	Yes
1,1-Dichloroethane	ND	ND	ND	15	Yes
1,1-Dichloroethene	1.9	2.3	2.1	1,243	Yes
1,2-Dichloroethane	ND	ND	ND	14	Yes
Benzene	ND	ND	ND	65	Yes
Carbon disulfide	ND	8.9	ND	1,007	Yes
Chloroform	ND	ND	ND	48	Yes
Freon 11	1.7	1.6	1.7	1,801	Yes
Freon 113	4.5	3.3	1.7	9,799	Yes
Freon 12	ND	ND	ND	775	Yes
Isopropyl Alcohol (Isopropanol)	ND	ND	ND	60	Yes
Methyl ethyl ketone	ND	ND	ND	75	Yes
Methylene chloride	ND	ND	ND	1,082	Yes

o-Xylene	ND	ND	ND	21	Yes
Tetrachloroethene (PCE)	56	ND	ND	2,208	Yes
TNMOC ref. to Heptane (MW=100)	340	ND	ND	17,405	Yes
Toluene	ND	ND	ND	47	Yes
Trichloroethene (TCE)	4.8	ND	ND	198	Yes
Vinyl chloride	ND	ND	ND	84	Yes

We have attached the original spreadsheet. If you have any questions or would like to discuss the data please feel free to reach out. Have a great day.

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dayml@cdmsmith.com

ATTACHMENT B

Summary of VEW and DPE Concentrations and Operational Data

Attachment B, Table B-1
VEW / DPE Quarterly Operational Summary and Calculated Mass Removed
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Location	Measurement Date	Shallow / Deep	Flow (SCFM)	PID (ppmv)	Analytical Total VOCs[2] (ug/m3)	Temperature (deg. F)	Vacuum (in H_2O, gauge)	Relative Humidity (%)	Calculated Mass Removed[1] (lbs)
VE-1S	1/6/2020	SHALLOW	49.0	0.0	--	78.9	-20.0	28.9	--
	2/7/2020	SHALLOW	25.0	0.5		63.7	-20.0	61.5	
	3/13/2020	SHALLOW	39.0	0.6		66.9	-20.0	78.6	
VE-5S	1/6/2020	SHALLOW	--	0.0	--	82.3	-68.0	24.7	--
	2/7/2020	SHALLOW	--	1.0		74.8	-70.0	42.3	
	3/13/2020	SHALLOW	41.0	1.9		68.1	-50.0	71.0	
VE-6S	1/6/2020	SHALLOW	74.0	0.0	--	82.4	-28.0	23.6	--
	2/7/2020	SHALLOW	74.0	1.4		77.1	-28.0	39.7	
	3/13/2020	SHALLOW	71.0	1.5		68.1	-30.0	68.0	
VE-8S	1/6/2020	SHALLOW	190.0	0.1	--	82.3	-46.0	18.8	--
	2/7/2020	SHALLOW	151.0	1.9		75.4	-47.0	38.5	
	3/13/2020	SHALLOW	162.0	3.9		68.4	-45.0	69.3	
VE-9S	1/6/2020	SHALLOW	26.0	0.0	--	77.8	-46.0	27.2	--
	2/7/2020	SHALLOW	18.0	1.8		66.1	-49.0	52.8	
	3/13/2020	SHALLOW	15.0	2.3		66.0	-46.0	74.4	
VE-10S	1/6/2020	SHALLOW	47.0	0.0	--	82.7	-44.0	25.8	--
	2/7/2020	SHALLOW	30.0	1.1		64.9	-44.0	51.7	
	3/13/2020	SHALLOW	--	1.4		67.7	-42.0	73.1	
VE-11S	1/6/2020	SHALLOW	171.0	0.0	--	82.6	-36.0	22.4	--
	2/7/2020	SHALLOW	59.0	1.2		73.0	-35.0	43.0	
	3/13/2020	SHALLOW	53.0	0.6		68.2	-36.0	68.3	
VE-12S	1/6/2020	SHALLOW	--	0.0	--	81.4	-40.0	27.3	--
	2/7/2020	SHALLOW	53.0	0.8		65.5	-40.0	53.5	
	3/13/2020	SHALLOW	--	0.5		67.2	-40.0	74.5	
VE-14S	1/6/2020	SHALLOW	45.0	0.0	--	81.5	-20.0	24.3	--
	2/7/2020	SHALLOW	--	1.2		77.2	-20.0	37.3	
	3/6/2020	SHALLOW	--	0.1		61.8	-15.0	77.1	
	3/13/2020	SHALLOW	63.0	1.2		68.1	-20.0	67.5	
VE-15S	1/6/2020	SHALLOW	50.0	0.2	--	77.6	-36.0	25.6	--
	2/7/2020	SHALLOW	72.0	1.1		65.8	-38.0	56.8	
	3/6/2020	SHALLOW	68.0	0.2		59.7	-33.0	77.6	
	3/13/2020	SHALLOW	47.0	1.6		66.4	-34.0	73.8	

Attachment B, Table B-1
VEW / DPE Quarterly Operational Summary and Calculated Mass Removed
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Location	Measurement Date	Shallow / Deep	Flow (SCFM)	PID (ppmv)	Analytical Total VOCs[2] (ug/m3)	Temperature (deg. F)	Vacuum (in H_2O, gauge)	Relative Humidity (%)	Calculated Mass Removed[1] (lbs)
DPE-3	1/6/2020	DEEP	--	0.6	--	76.1	-42.0	31.1	--
	2/7/2020	DEEP	161.0	0.6		63.4	-44.0	56.6	
	3/13/2020	DEEP	--	9.3		64.3	-40.0	76.3	
DPE-4	1/6/2020	DEEP	82.0	0.0	--	75.3	-28.0	31.2	--
	2/7/2020	DEEP	--	1.2		62.1	-26.0	53.3	
	3/13/2020	DEEP	91.0	2.5		63.7	-24.0	85.2	
DPE-5	1/6/2020	DEEP	104.0	0.0	--	72.1	-46.0	31.8	--
	2/7/2020	DEEP	115.0	1.2		60.2	-50.0	52.6	
	3/13/2020	DEEP	97.0	1.2		62.6	-44.0	81.7	
DPE-8	1/6/2020	DEEP	85.0	0.0	--	66.3	-30.0	50.5	--
	2/7/2020	DEEP	82.0	2.7		54.0	-36.0	69.9	
	3/13/2020	DEEP	77.0	4.3		61.0	-30.0	83.5	
DPE-9	1/6/2020	DEEP	85.0	0.0	--	70.4	-32.0	34.1	--
	2/7/2020	DEEP	--	1.6		58.8	-34.0	63.3	
	3/13/2020	DEEP	71.0	4.1		61.9	-30.0	87.6	
VE-2D	1/6/2020	DEEP	24.0	6.9	--	81.2	-34.0	25.0	--
	2/7/2020	DEEP	37.0	7.2		76.9	-32.7	40.4	
	3/13/2020	DEEP	27.0	357.7		68.2	-34.0	70.0	
VE-14D	1/6/2020	DEEP	77.0	0.0	--	73.0	-30.0	32.5	--
	2/7/2020	DEEP	80.0	1.4		60.4	-28.0	56.0	
	3/13/2020	DEEP	80.0	2.8		63.0	-30.0	87.4	

Notes:

DPE = dual phase extraction
ppmv = parts per million by volume
VOC = volatile organic compound
F = Fahrenheit
SCFM = standard cubic feet per minute
Shallow = between 0 and 30 feet below ground surface
lbs = pounds
ug/m3 = micrgrams per liter
Deep = between approximately 30 and 100 feet below ground surface
PID = photoionization detector
VE = vapor extraction
-- = Not measured

in H_2O, gauge = inches of water pressure, relative to atmospheric pressure; a negative gauge pressure is considered vaccum

1. Calculations are based on a subset of total VOC data from laboratory analyses of vapor samples, when collected, and measured flow rates from individual VEWs and the total system influent. Mass calculations are rounded to nearest 0.1 pound. If less than 0.05 pounds were calculated for the period, this will show as 0.0 pounds. VOCs that are not detected above the RLs are not included in the mass calculation. VEWs are not required to be sampled each quarter. If VEWs are sampled, it is based on operational considerations and to assist in mass calculations. All VEWs are sampled once per year.

2. A subset of VOC data used in mass removed calculations. TVOC concentrations are calculated using the detected concentrations from the following compounds: Tetrachloroethene (PCE), Trichloroethene (TCE), 1,1-Dichloroethene, Vinyl chloride, 1,1,1-Trichloroethane (TCA), 1,1-Dichloroethane, 1,2-Dichloroethane, Chloroform, Methylene chloride, Freon 11, Freon 12, Freon 113, Benzene, Toluene, o-Xylene, Carbon disulfide, Methyl ethyl ketone, Isopropyl Alcohol (Isopropanol), which account for approximately 98% of compounds in the data stream. No samples collected this quarter.

3. Only VE and DPE wells connected to the OU-1 SVE System are presented.

ATTACHMENT C

Summary of Vapor Monitoring Probe Concentrations and Vacuum

Attachment C, Table C-1
Shallow Vapor Monitoring Probe Summary of Quarterly Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Location	Sample Type	Sample Date	PCE	TCE	VC	11DCA	12DCA	CF	MeC	BEN
		Cleanup Levels	**470**	**1300**						
VMP-11-30	ORIG	1/14/2020	630 J	24	2.9 U	4.6 U	4.6 U	5.6 U	40 U	3.6 U
VMP-12-30	ORIG	1/14/2020	47 J	5.8 U	2.8 U	4.4 U	4.4 U	5.3 U	38 U	3.4 U
VMP-15-30	ORIG	1/14/2020	51 J,N	6.3 UJ	3 UJ	4.7 UJ	4.7 UJ	5.7 UJ	40 UJ	3.7 UJ
VMP-15-30	DUP	1/14/2020	49 J,N	6.6 UJ	3.2 UJ	5 UJ	5 UJ	6 UJ	43 UJ	3.9 UJ
VMP-16-30	ORIG	3/9/2020	7.8 U	6.2 U	2.9 U	4.6 U	4.6 U	5.6 U	40 U	3.6 U
VMP-17-30	ORIG	1/14/2020	16 J,N	6.3 UJ	3 UJ	4.7 UJ	4.7 UJ	5.7 UJ	40 UJ	3.7 UJ
VMP-18-30	ORIG	1/14/2020	47 J	8.9	2.8 U	4.4 U	4.4 U	5.4 U	38 U	3.5 U
VMP-18-30	DUP	1/14/2020	38 J	7.4	2.8 U	4.4 U	4.4 U	5.4 U	38 U	3.5 U
VMP-20-30	ORIG	3/4/2020	10 J,N	6.4 UJ	3 UJ	4.8 UJ	4.8 UJ	5.8 UJ	41 UJ	3.8 UJ
VMP-21-30	ORIG	2/28/2020	61 J,N	11 J,N	2.8 UJ	4.4 UJ	4.4 UJ	5.3 UJ	38 UJ	3.4 UJ
VMP-22-30	ORIG	3/2/2020	21 J,N	6.4 UJ	3.1 UJ	4.8 UJ	4.8 UJ	5.8 UJ	42 UJ	3.8 UJ
VMP-24-30	ORIG	1/13/2020	250 J	6.2 U	2.9 U	4.6 U	4.6 U	5.6 U	40 U	3.6 U
VMP-26-30	ORIG	3/4/2020	7.8 UJ	6.2 UJ	2.9 UJ	4.6 UJ	4.6 UJ	5.6 UJ	40 UJ	3.6 UJ
VMP-27-30	ORIG	3/2/2020	7.9 UJ	6.3 UJ	3 UJ	4.7 UJ	4.7 UJ	5.7 UJ	41 UJ	3.7 UJ
VMP-27-30	DUP	3/2/2020	8.2 UJ	6.5 UJ	3.1 UJ	4.9 UJ	4.9 UJ	5.9 UJ	42 UJ	3.8 UJ
VMP-31-24	ORIG	3/2/2020	8.3 U	6.6 U	3.1 U	4.9 U	4.9 U	6 U	42 U	3.9 U
VMP-32-24	ORIG	3/2/2020	23	6.3 U	3 U	4.7 U	4.7 U	5.7 U	41 U	3.7 U
VMP-43-24	ORIG	1/13/2020	7.9 UJ	6.3 U	3 U	4.7 U	4.7 U	5.7 U	40 U	3.7 U
VMP-94-24	ORIG	1/13/2020	7.9 UJ	6.3 U	3 U	4.7 U	4.7 U	5.7 U	40 U	3.7 U

Notes:

All concentrations in units of ug/m3

U = Not detected above reporting limit listed

UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

J = results are qualified as estimated.

J,N = quantitatively estimated and presumptively present.

Shallow = between 0 and 30 feet below ground surface

The last two digits of each location indicate the depth of the sample in feet

Cleanup Level exceedances highlighted in yellow

PCE = Tetrachloroethene

TCE - Trichloroethene

VC - Vinyl Chloride

11DCA - 1,1-Dichloroethane

12DCA - 1,2-Dichloroethane

CF - Chloroform

MeC - Methylene Chloride

BEN - Benzene

ORIG = original sample

DUP = field duplicate

Attachment C, Table C-2
Deep Vapor Monitoring Probe Summary of Quarterly Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Location	Sample Type	Sample Date	PCE	TCE	VC	11DCA	12DCA	CF	MeC	BEN
VMP-5-45	ORIG	1/14/2020	3000 J,N	410 J,N	32 UJ	50 UJ	50 UJ	60 UJ	170 UJ	41 J,N
VMP-31-70	ORIG	1/13/2020	17000 J	70 U	33 U	53 U	53 U	64 U	450 U	42 U
VMP-32-60	ORIG	1/13/2020	600 J	5.8 U	2.8 U	4.4 U	4.4 U	5.3 U	38 U	3.4 U
VMP-92-70	ORIG	2/28/2020	3900	160	4.2 UJ	6.6 UJ	6.6 UJ	14 J,N	57 UJ	5.2 UJ
VMP-93-60	ORIG	1/14/2020	3000 J	36 J,N	5.8 UJ	9.2 UJ	9.2 UJ	15 J,N	79 UJ	7.3 UJ
VMP-94-60	ORIG	2/28/2020	29	6.4 U	3.1 U	4.8 U	4.8 U	5.8 U	42 U	3.8 U
VMP-95-60	ORIG	2/28/2020	200	20 J,N	3.1 UJ	4.8 UJ	4.8 UJ	5.8 UJ	42 UJ	3.8 UJ

Notes:

All concentrations in units of ug/m3

U = Not detected above reporting limit listed

UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

J = results are qualified as estimated

J,N = quantitatively estimated and presumptively present.

Deep = greater than 30 feet below ground surface

The last two digits of each location indicate the depth of the sample in feet

ORIG = original sample

DUP = field duplicate

PCE = Tetrachloroethene

TCE - Trichloroethene

VC - Vinyl Chloride

11DCA - 1,1-Dichloroethane

12DCA - 1,2-Dichloroethane

CF - Chloroform

MeC - Methylene Chloride

BEN - Benzene

Attachment C, Table C-3
Shallow Vapor Monitoring Probe Vacuum Summary
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Location	Monitoring Point Depth (feet bgs)	Vapor Extraction Well ROI[1]	Measurement Date	Vacuum[2,3] (in H_2O, gauge)
VE-1M	36[4]	VE-1S, VE-5S	1/13/2020	-0.68
VE-2S	22	VE-1S, VE-5S	1/13/2020	-0.17
VE-4S	22	VE-1S, VE-5S	1/13/2020	-0.34
VE-5M	36[4]	VE-5S	1/13/2020	-0.90
VE-7S	30	VE-8S	1/14/2020	-0.38
VMP-11	30	VE-10S, VE-12S	1/14/2020	-0.64
VMP-12	30	VE-10S, VE-11S	1/14/2020	-1.14
VMP-13	30	VE-31S	1/14/2020	-0.62
VMP-14	30		1/14/2020	-0.01
VMP-15	30	VE-10S, VE-9S	1/14/2020	-0.85
VMP-16	30	VE-11S	1/14/2020	-1.09
VMP-17	30		1/14/2020	-1.57
VMP-18	30	VE-15S	1/14/2020	-0.03
VMP-20	30	VE-5S, VE-8S	1/13/2020	-0.54
VMP-21	30	VE-15S	1/13/2020	-0.08
VMP-22	30		1/14/2020	-0.27
VMP-23	30		1/13/2020	-0.05
VMP-24	30		1/13/2020	-0.10
VMP-25	30		1/13/2020	0.00
VMP-26	30	VE-14S	1/13/2020	-0.04
VMP-27	30	VE-14S	1/13/2020	0.00
VMP-31	6	VE-21S	1/13/2020	-0.03
	12	VE-21S	1/13/2020	-0.05
	24	VE-21S	1/13/2020	-0.08
VMP-32	6	VE-39S	1/13/2020	-0.04
	12	VE-39S	1/13/2020	-0.05
	24	VE-39S	1/13/2020	-0.07
VMP-43	6	VE-31S	1/13/2020	-3.27
	12	VE-31S	1/13/2020	-0.64
	24	VE-31S	1/13/2020	-0.69
VMP-94	6	VE-31S	1/13/2020	-0.29
	12	VE-31S	1/13/2020	-0.33
	24	VE-31S	1/13/2020	-0.47

Notes:

bgs = below ground surface

1. ROI = Estimated design radius of influence by the vapor extraction well (VEW) listed. If no VEW is listed, then the VMP is not within the design ROI of a VEW.

2. in H2O, gauge = inches of water pressure relative to atmospheric pressure. A negative gauge pressure is considered vacuum.

3. Yellow highlighted cells indicate a VMP within the design ROI of a VEW that did not meet the target vacuum of -0.1 in H2O at the time the monitoring was conducted.

4.These wells are considered part of shallow vapor monitoring as their well screen intervals are 26 - 36 feet below ground surface.

Attachment C, Table C-4
Deep Vapor Monitoring Probe Vacuum Summary
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Location	Monitoring Point Depth (feet bgs)	Vapor Extraction Well ROI[1]	Measurement Date	Vacuum[2,3] (in H_2O, gauge)
VMP-1D	70	DPE-8	1/13/2020	-0.89
VMP-3D	70	VE-2D	1/14/2020	-0.54
VMP-4D	70	DPE-3, VE-2D	1/14/2020	-2.30
VMP-5	45	VE-2D	1/14/2020	-0.32
VMP-31	40	VE-6D	1/13/2020	0.00
	55	VE-6D	1/13/2020	-0.23
	60	VE-6D	1/13/2020	-0.01
	70	VE-6D	1/13/2020	-1.37
VMP-32	40	VE-10D	1/13/2020	-0.29
	55	VE-10D	1/13/2020	-0.32
	60	VE-10D	1/13/2020	-0.09
	70	VE-10D	1/13/2020	-0.10
VMP-92	50	DPE-5	1/14/2020	-0.27
	60	DPE-5	1/14/2020	-0.94
	70	DPE-5	1/14/2020	-0.25
VMP-93	50		1/14/2020	-1.41
	60		1/14/2020	-0.01
	70		1/14/2020	-1.57
VMP-94	40	DPE-4, VE-14D	1/13/2020	-0.52
	50	DPE-4, VE-14D	1/13/2020	-0.69
	60	DPE-4, VE-14D	1/13/2020	-1.04
	70	DPE-4, VE-14D	1/13/2020	-0.01
VMP-95	50		1/13/2020	-4.77
	60		1/13/2020	-11.06
	70		1/13/2020	-1.93

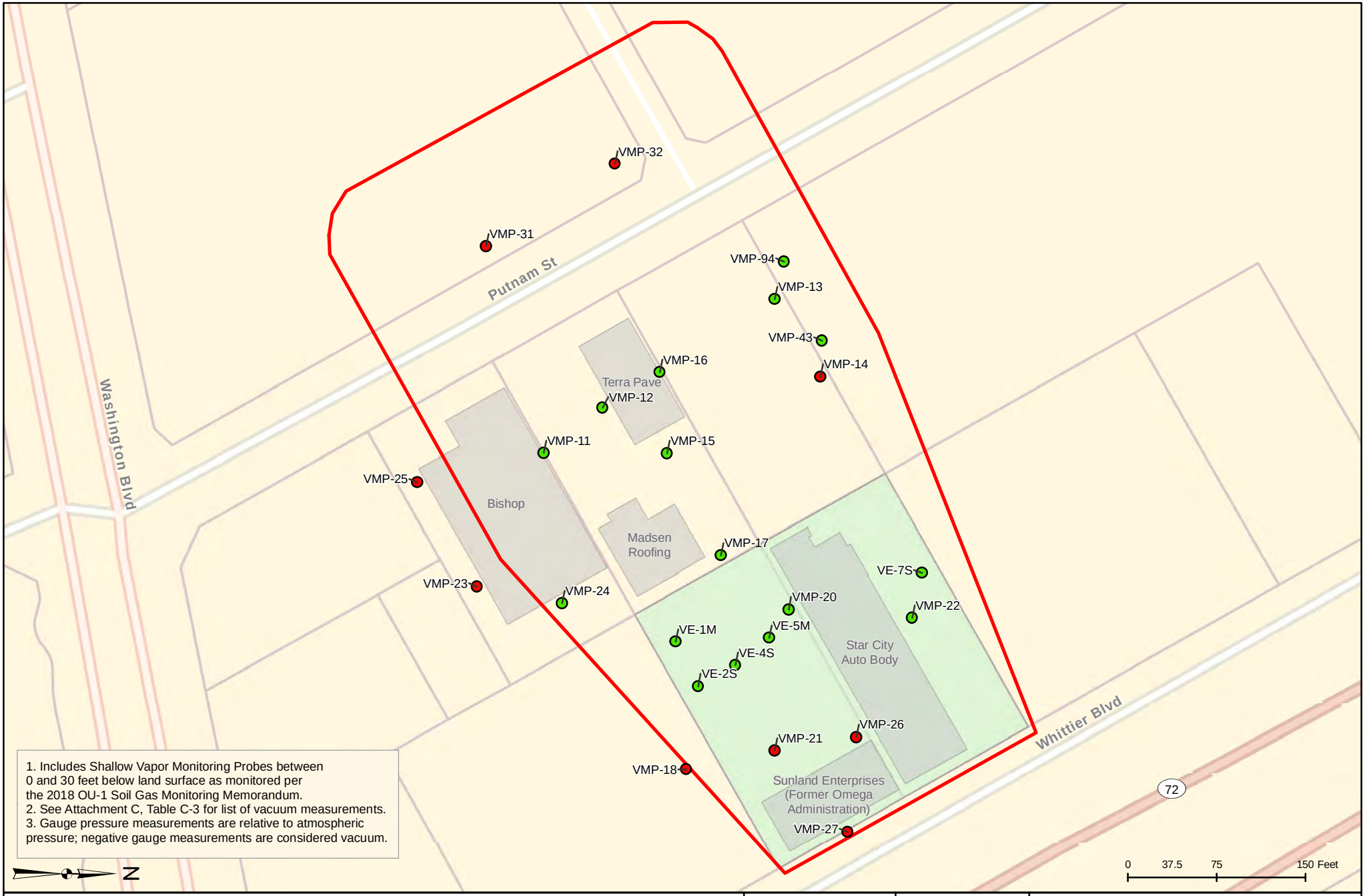
Notes:

bgs = below ground surface

1. ROI = Estimated design radius of influence by the vapor extraction well (VEW) listed. If no VEW is listed, then the VMP is not within the design ROI of a VEW.

2. in H2O, gauge = inches of water pressure relative to atmospheric pressure. A negative gauge pressure is considered vacuum.

3. Yellow highlighted cells indicate a VMP within the design ROI of a VEW that did not meet the target vacuum of -0.1 in H2O at the time the monitoring was conducted.



1. Includes Shallow Vapor Monitoring Probes between 0 and 30 feet below land surface as monitored per the 2018 OU-1 Soil Gas Monitoring Memorandum.
2. See Attachment C, Table C-3 for list of vacuum measurements.
3. Gauge pressure measurements are relative to atmospheric pressure; negative gauge measurements are considered vacuum.

Vacuum

- < -0.1 in H2O (gauge) at all depths
- > -0.1 in H2O (gauge) at some depths
- > -0.1 in H2O (gauge) at all depths
- no vacuum data available

- OU-1 Boundary
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Former Omega Chemical Property Boundary

ddms
de maximis, inc.

Reviewed By: LM
Drawn By: KM
Date: 4/21/2020

Attachment C, Figure C-1
Vacuum Influence at
Shallow Vapor Monitoring Probes
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2020

1. Includes Deep Vapor Monitoring Probes greater than 30 feet below land surface as monitored per the 2018 OU-1 Soil Gas Monitoring Memorandum.
2. See Attachment C, Table C-4 for list of vacuum measurements.

Vacuum

- achieves target vacuum at all depths
- achieves target vacuum at some depths
- does not achieve target vacuum
- no vacuum data available

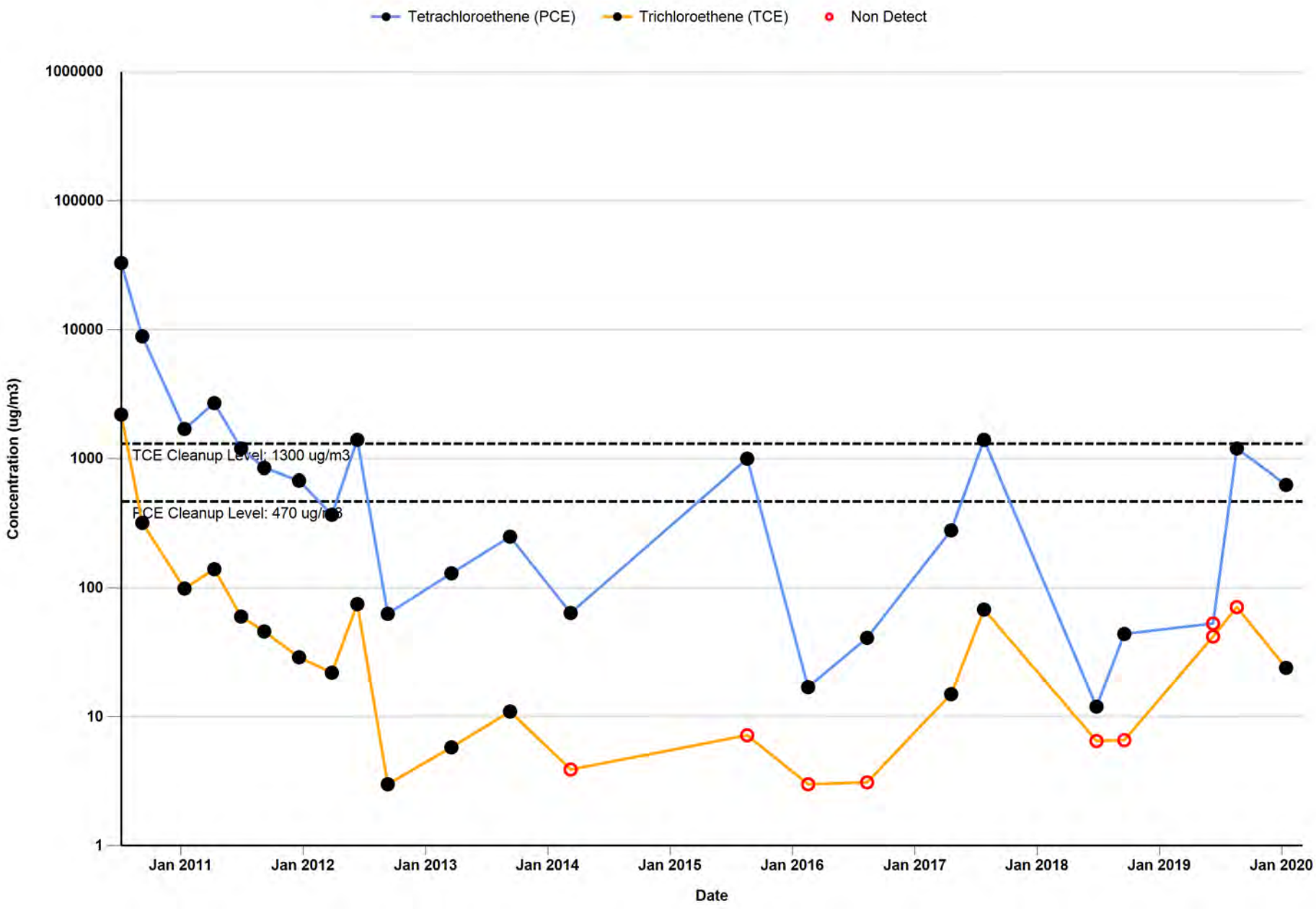
- OU-1 Boundary
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Former Omega Chemical Property Boundary

ddms
de maximis, inc.

Reviewed By: LM
Drawn By: KM
Date: 4/21/2020

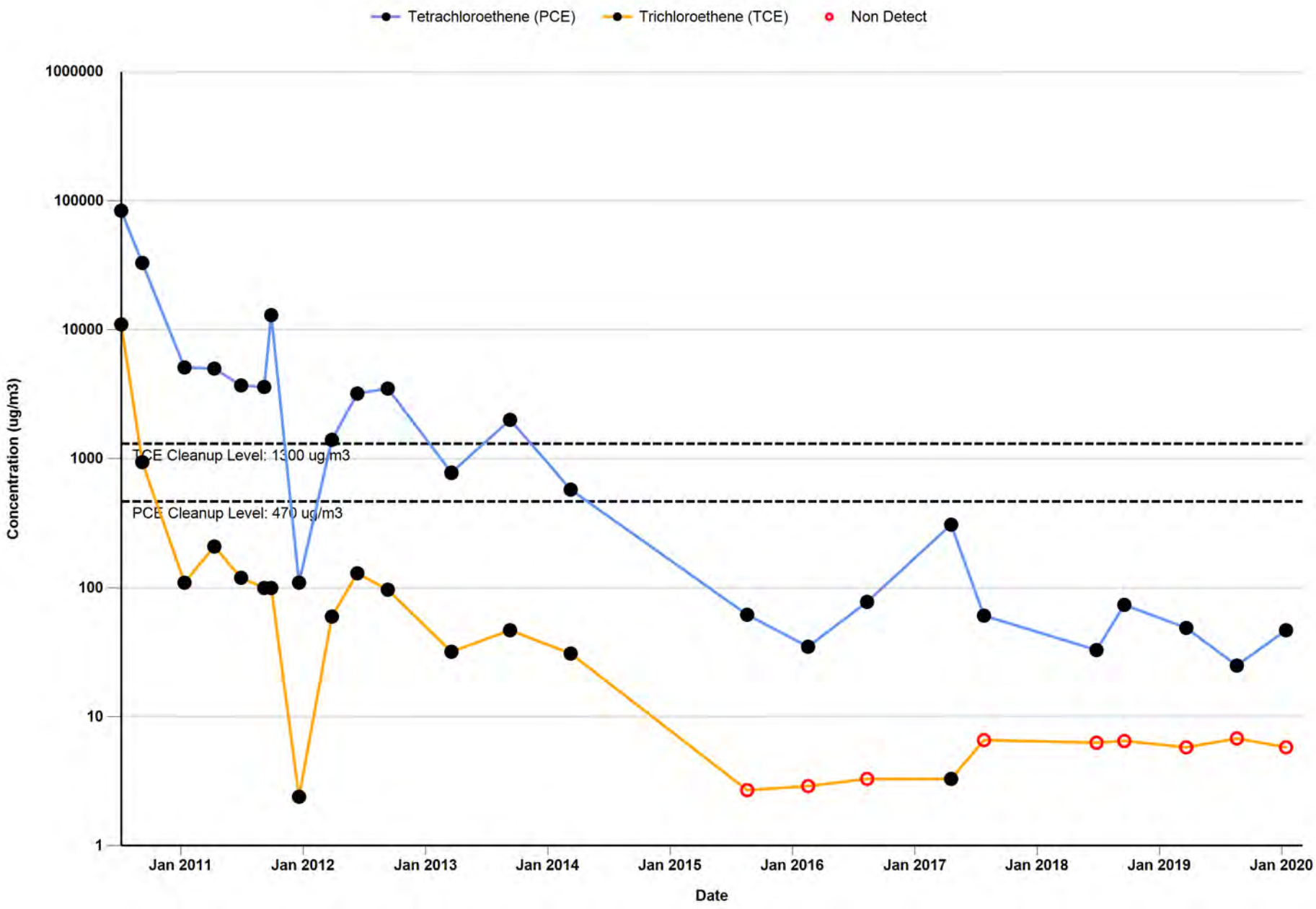
Attachment C, Figure C-2
Vacuum Influence at
Deep Vapor Monitoring Probes
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2020

Attachment C, Figure C-3
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-11 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



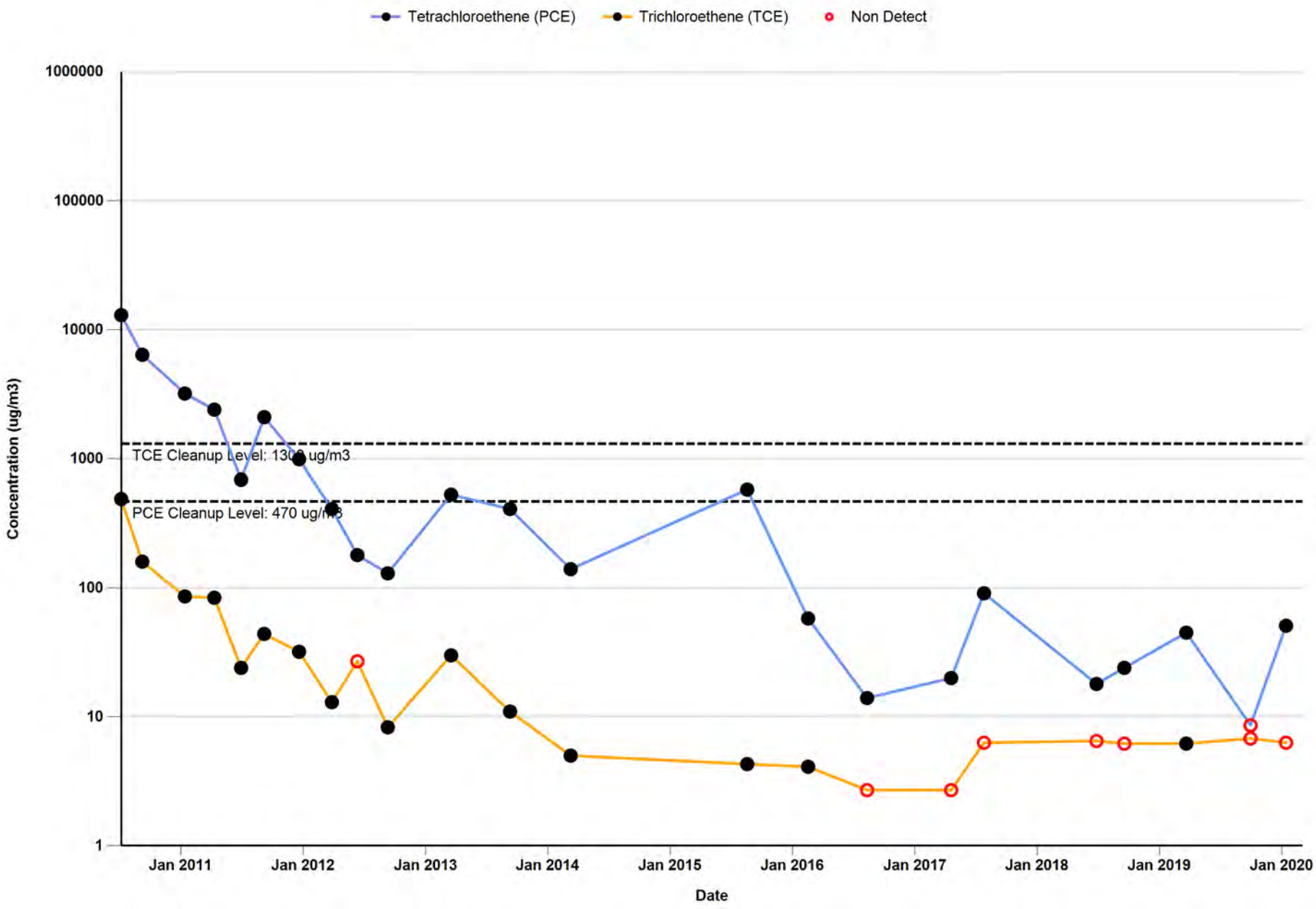
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-4
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-12 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



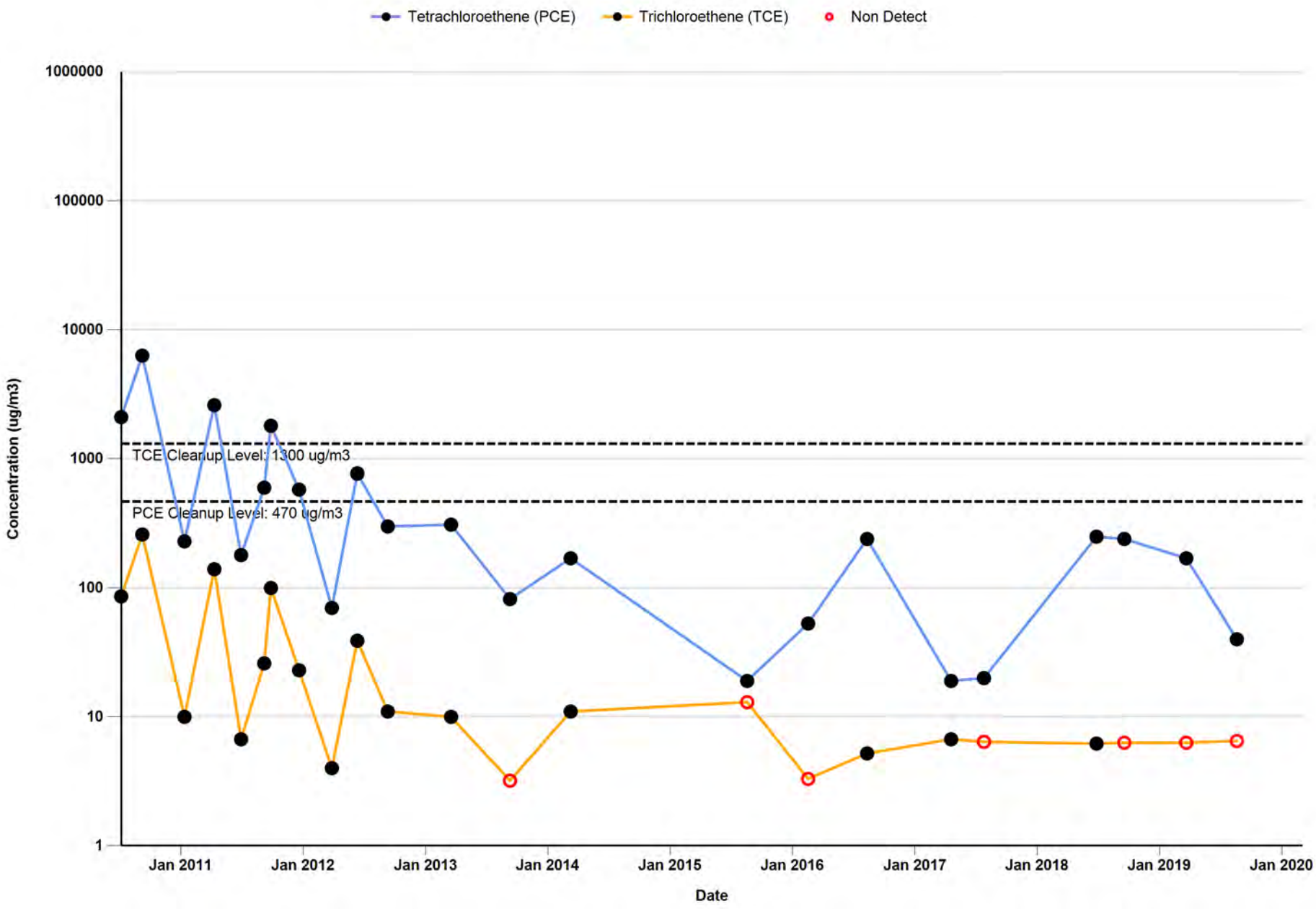
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-5
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-15 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



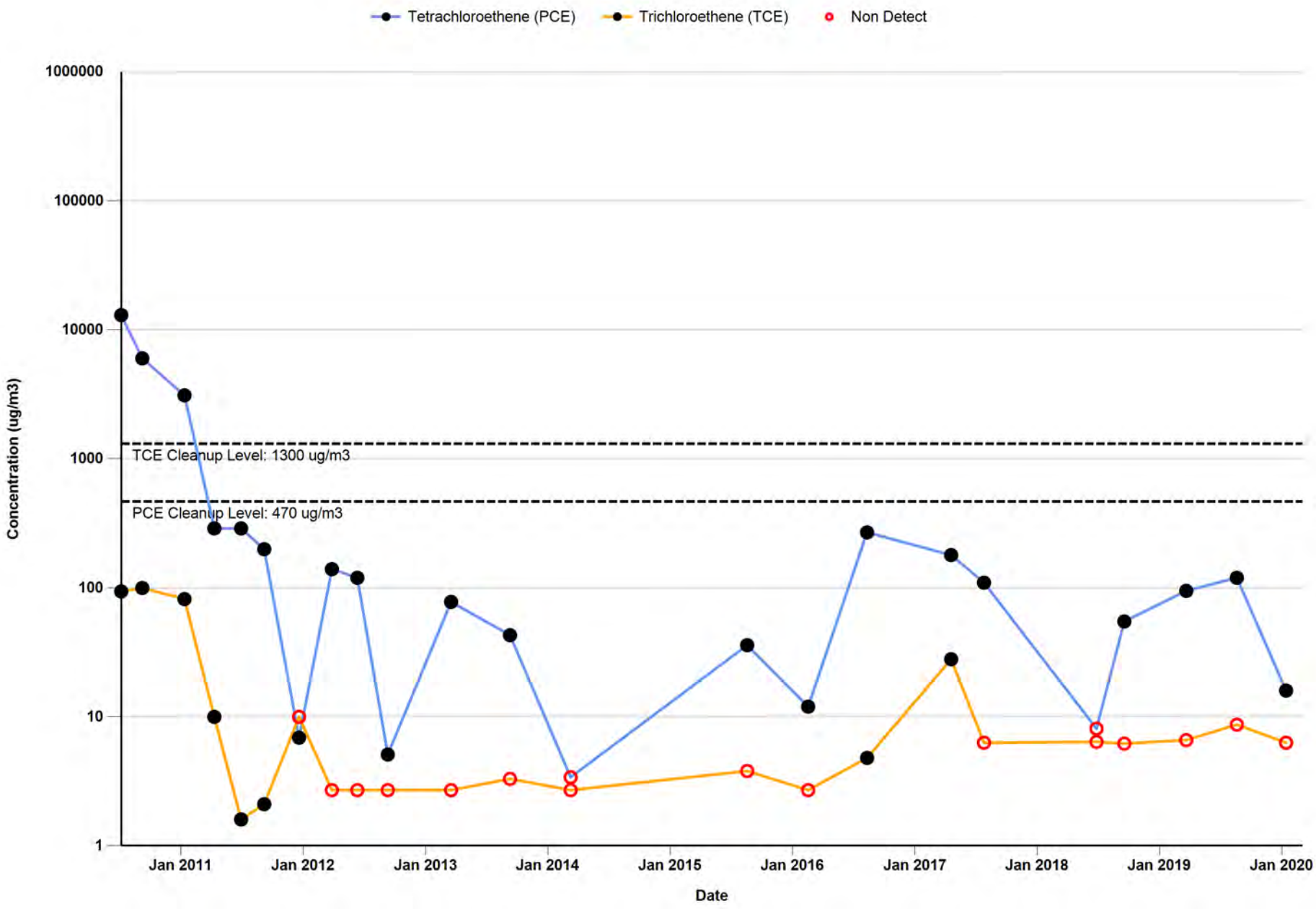
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-6
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-16 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



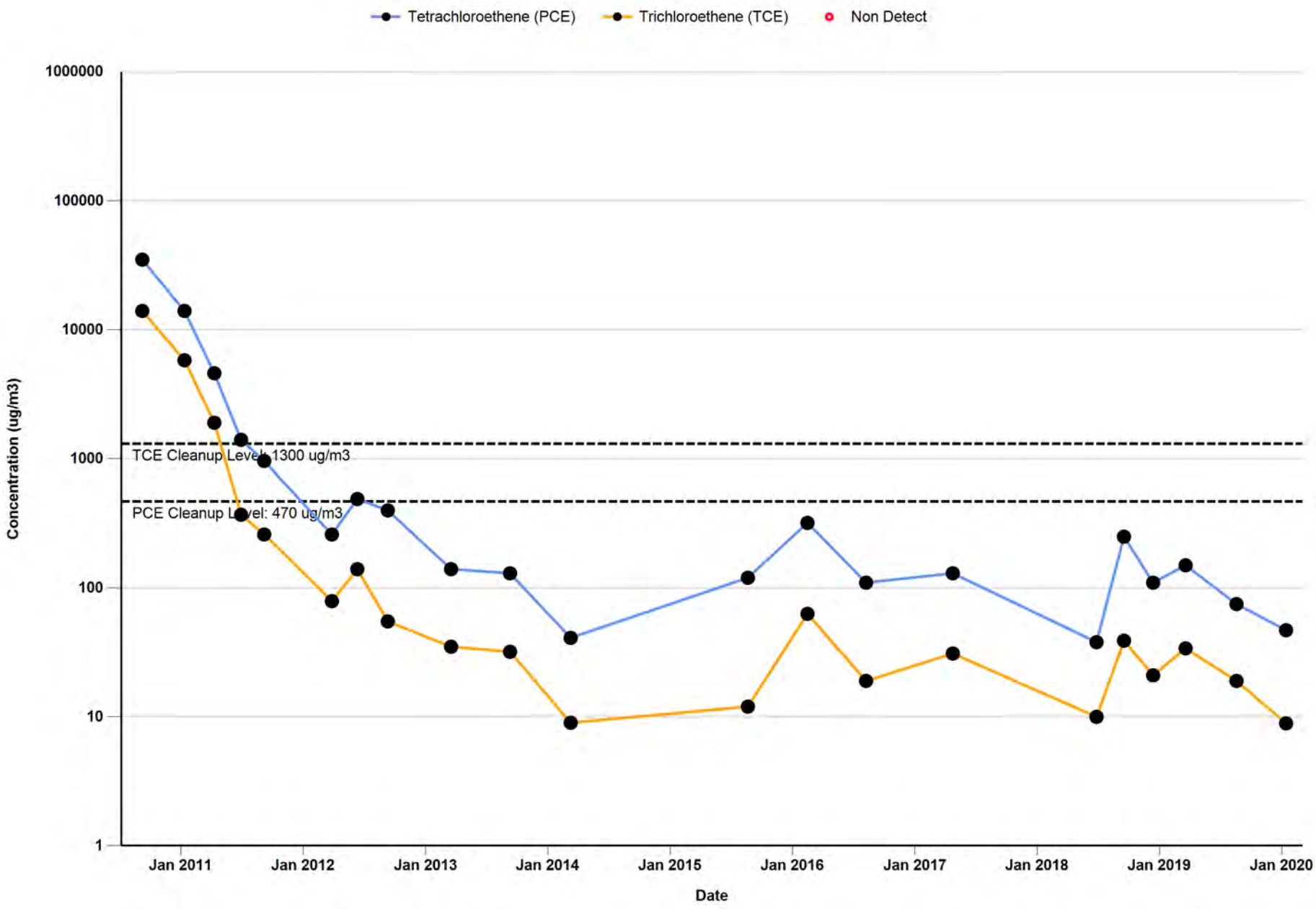
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-7
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-17 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



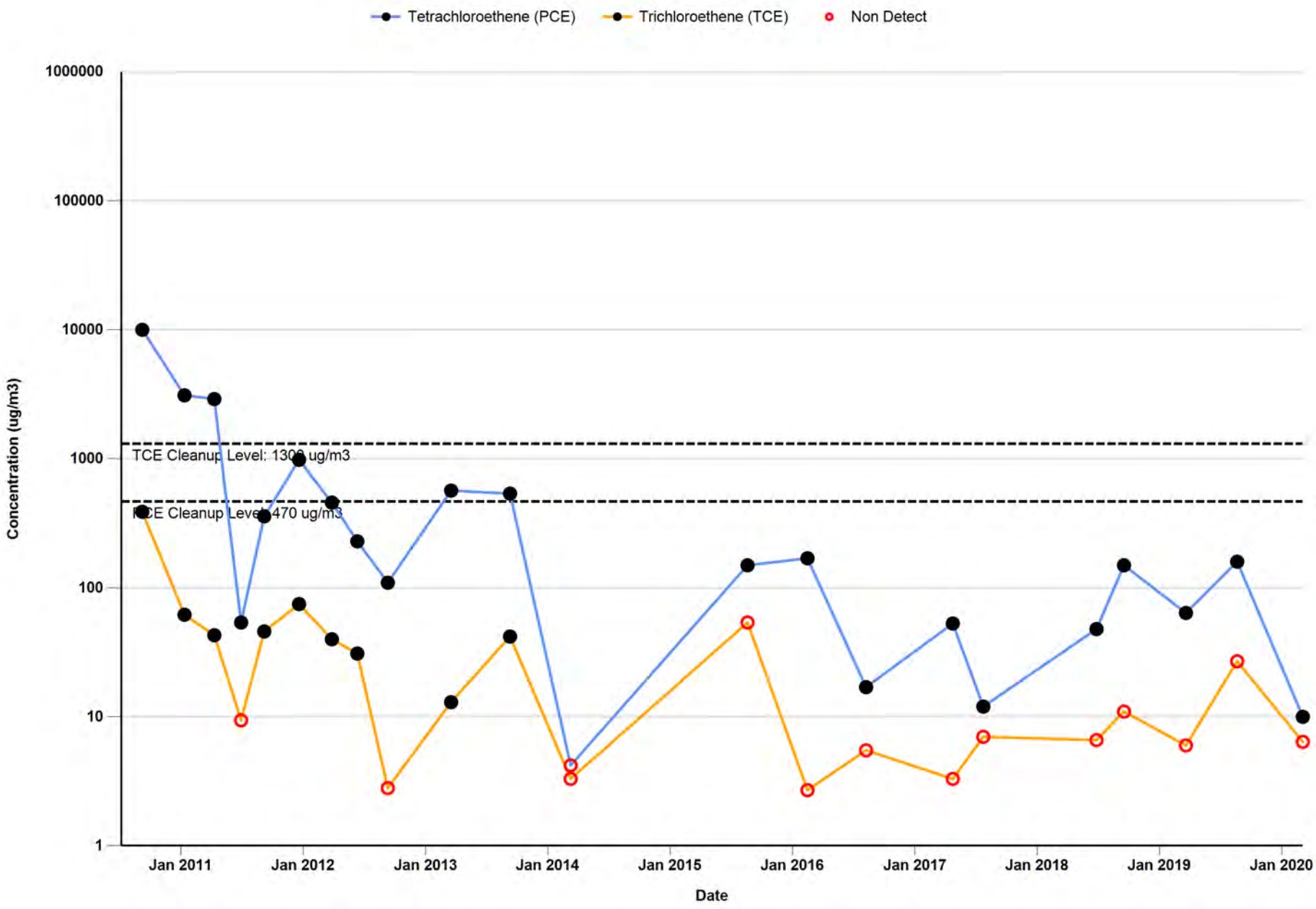
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-8
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-18 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



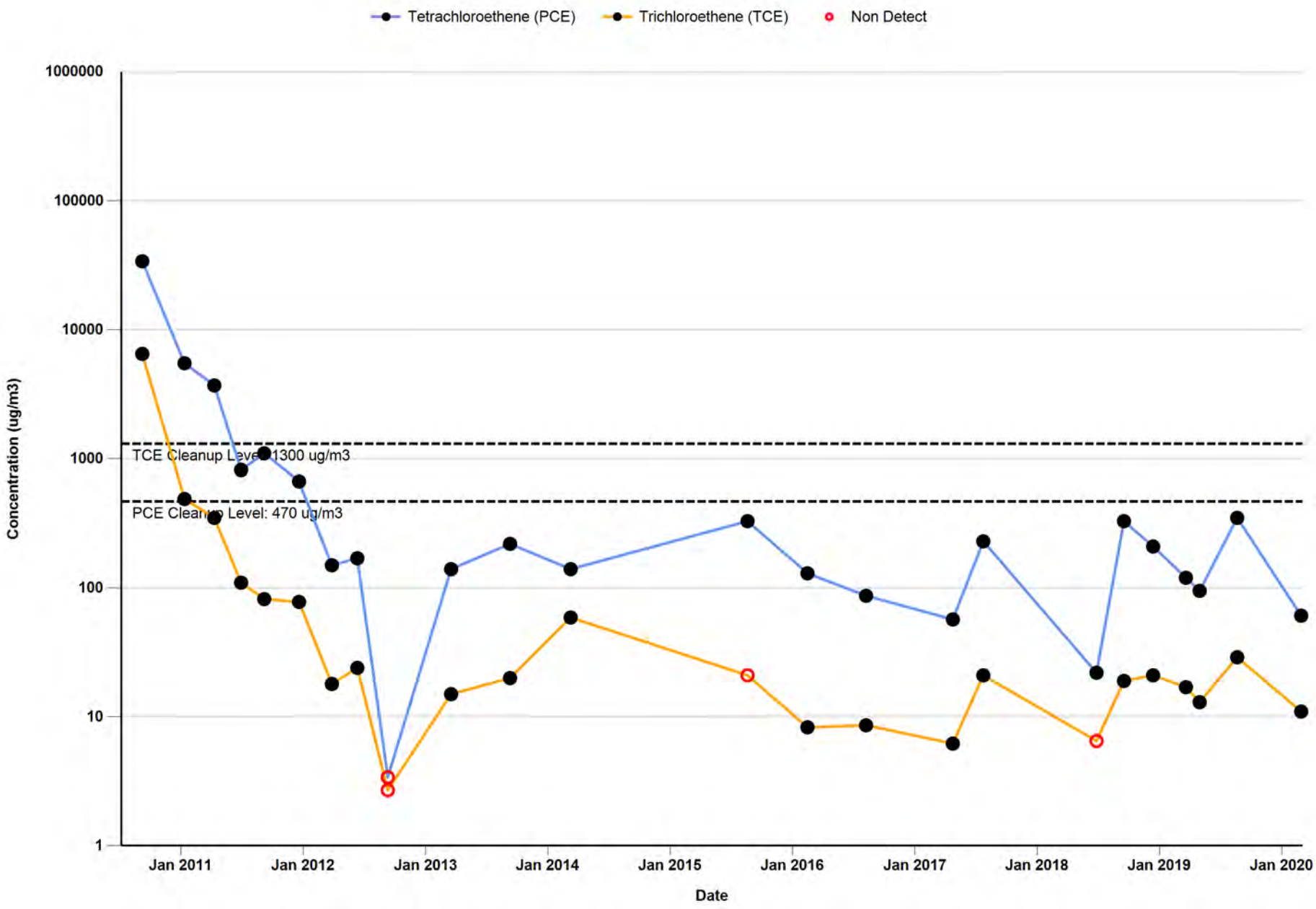
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-9
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-20 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



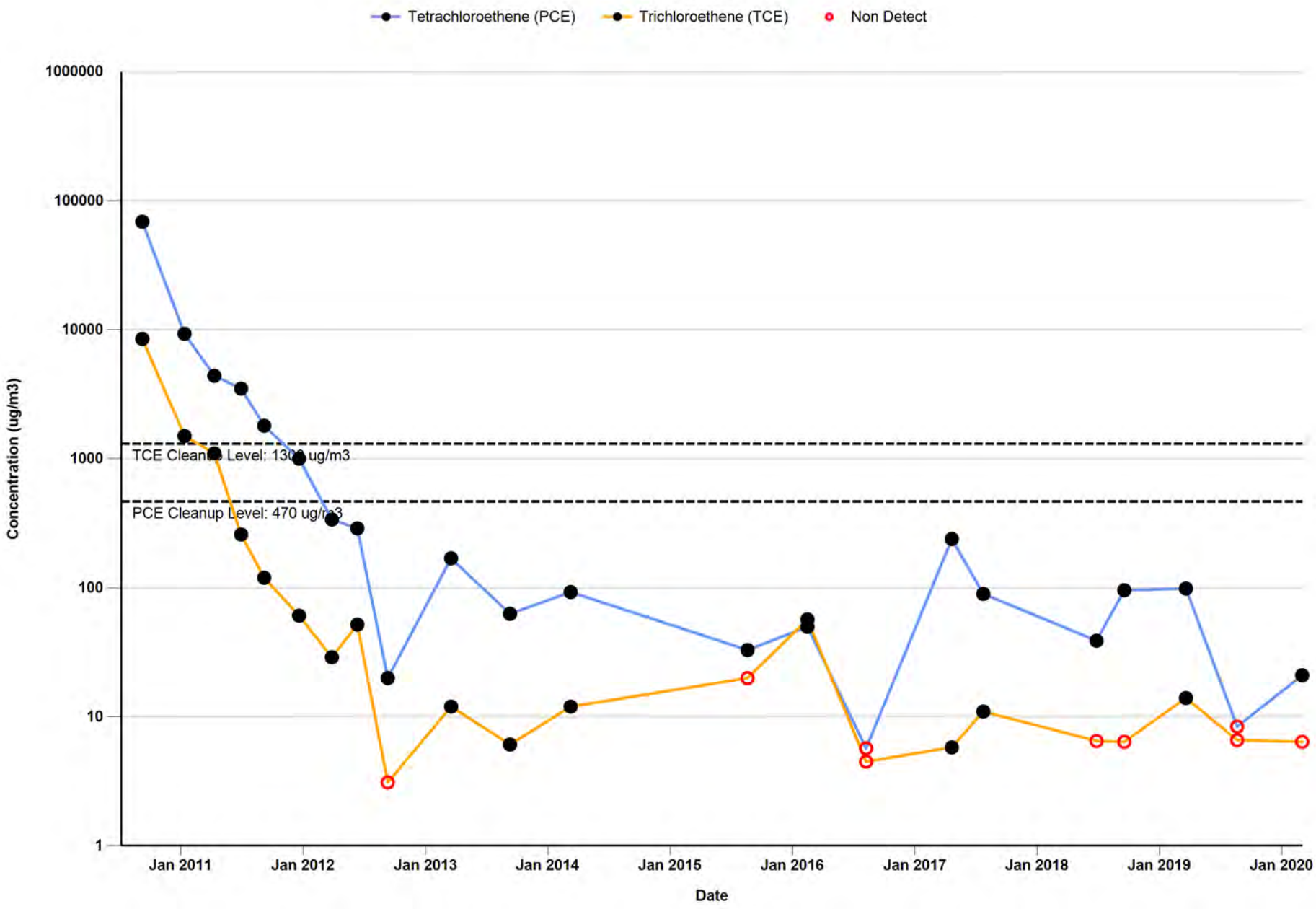
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-10
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-21 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



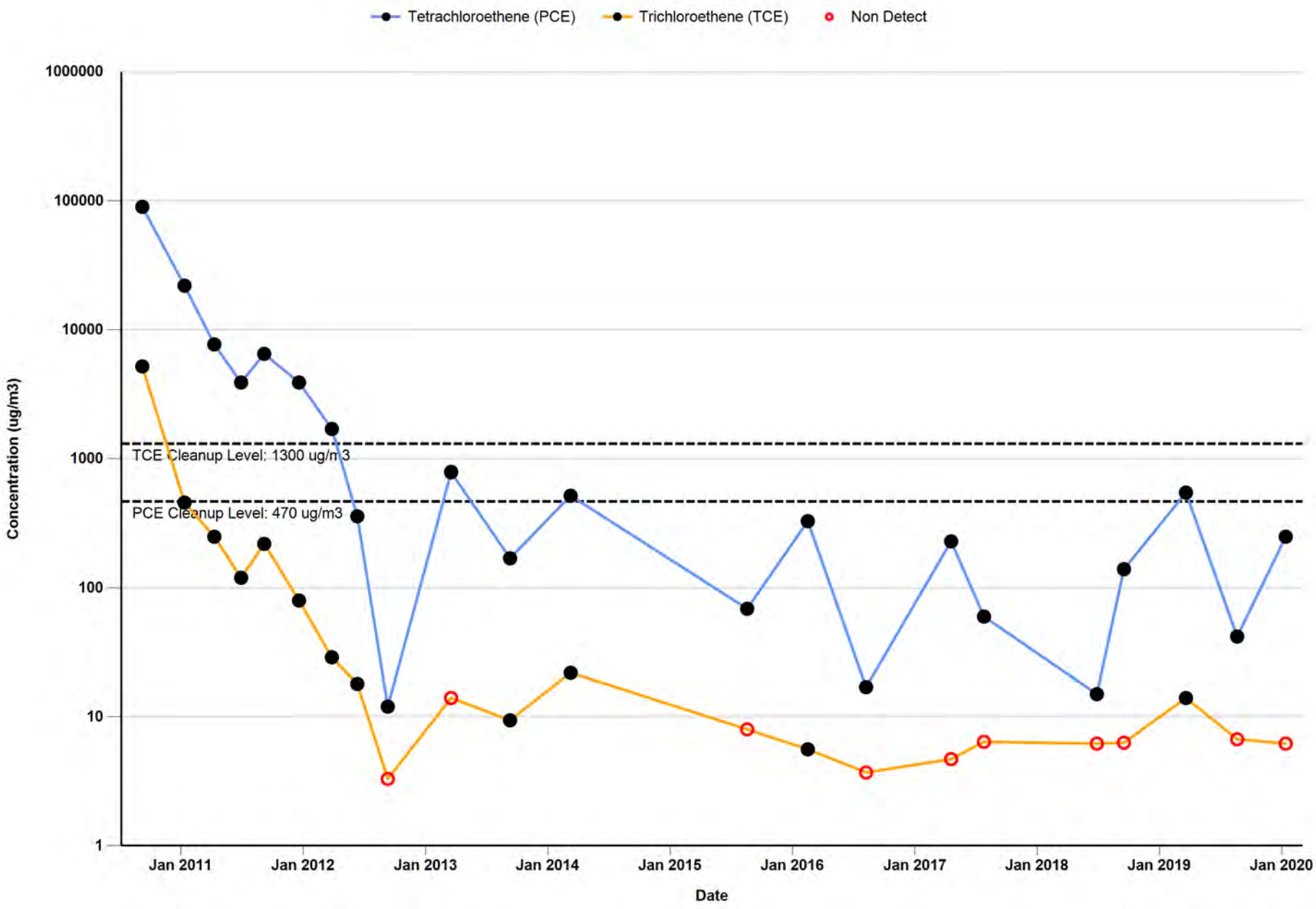
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-11
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-22 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



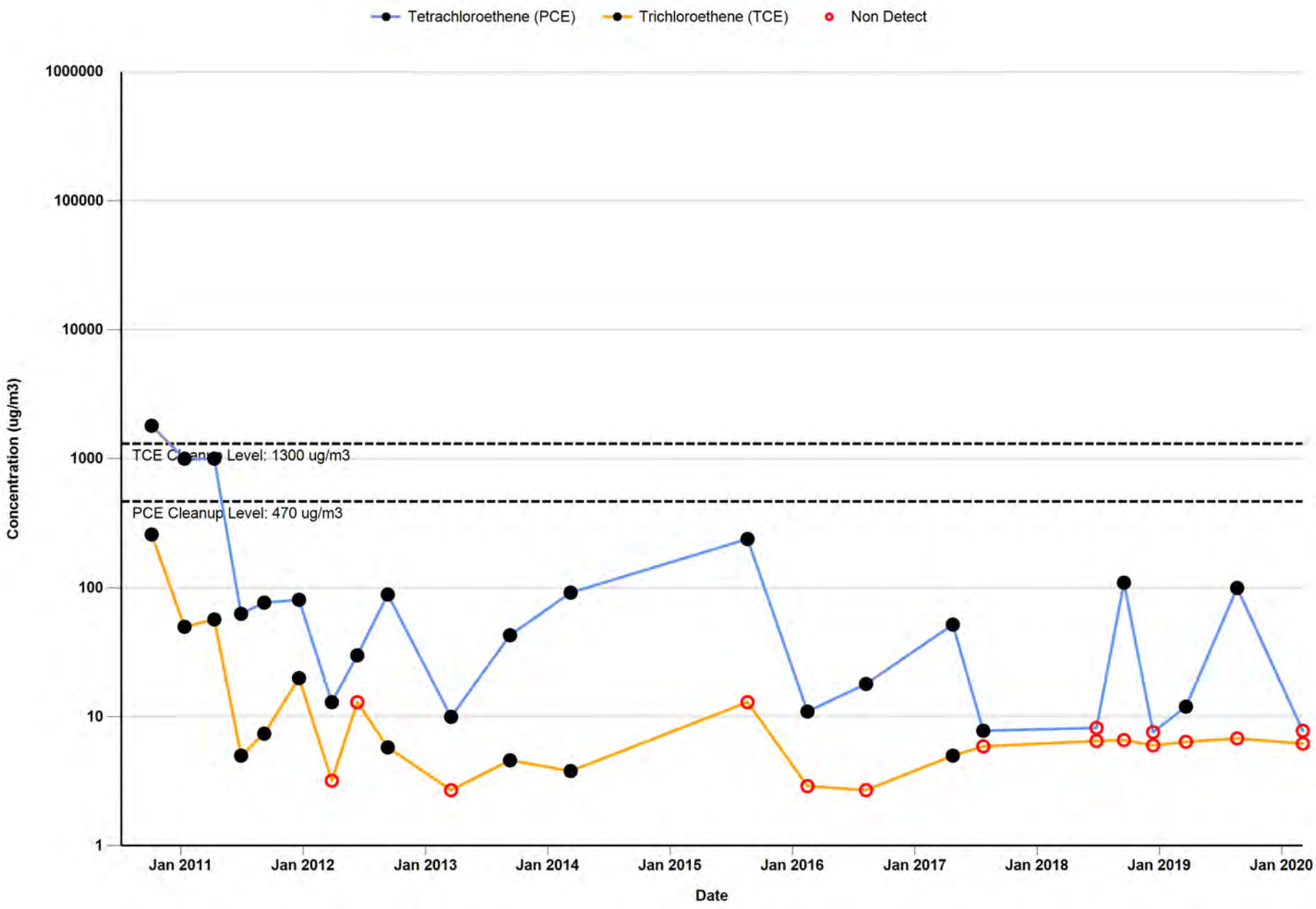
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-12
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-24 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



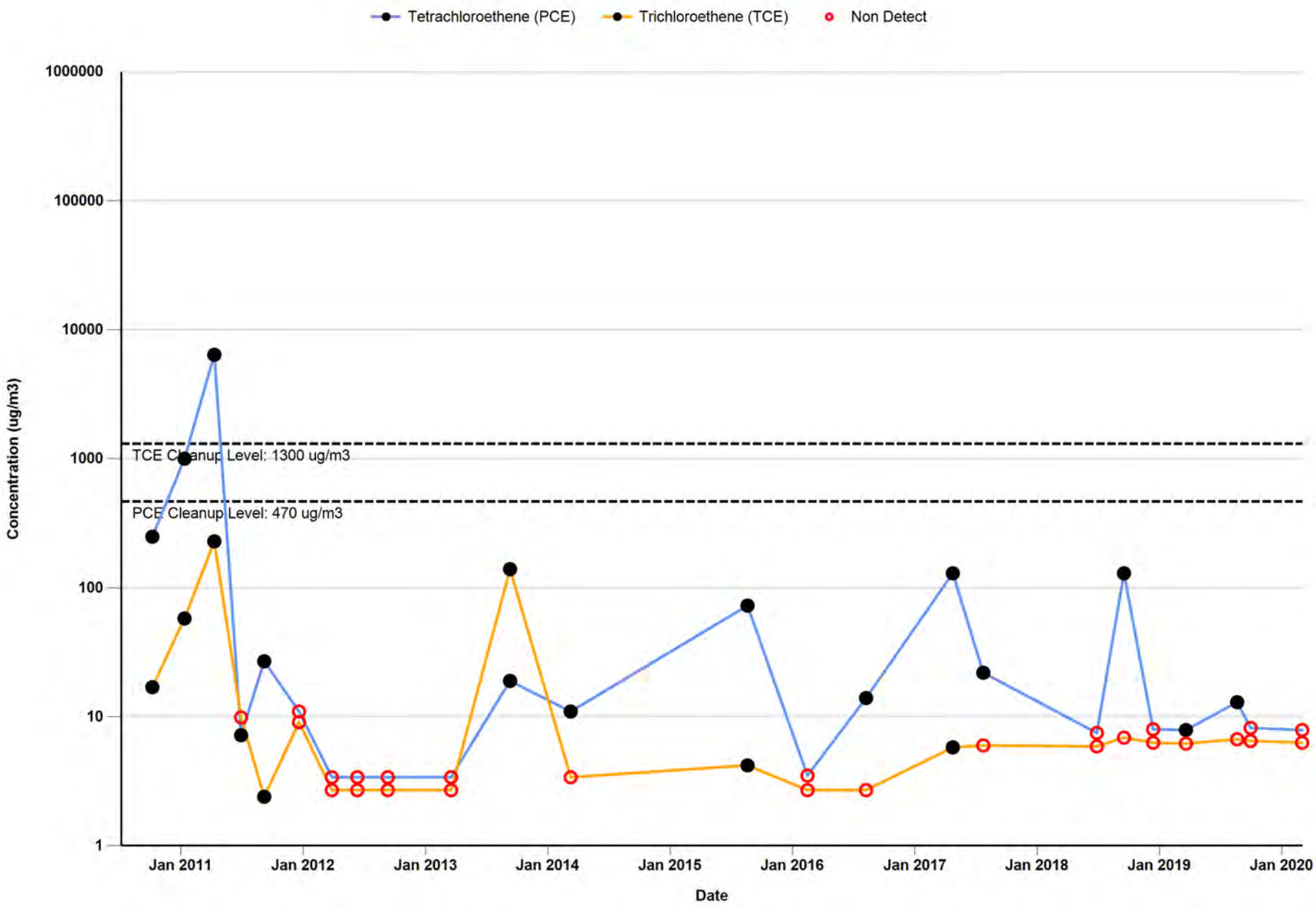
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-13
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-26 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-14
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-27 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site

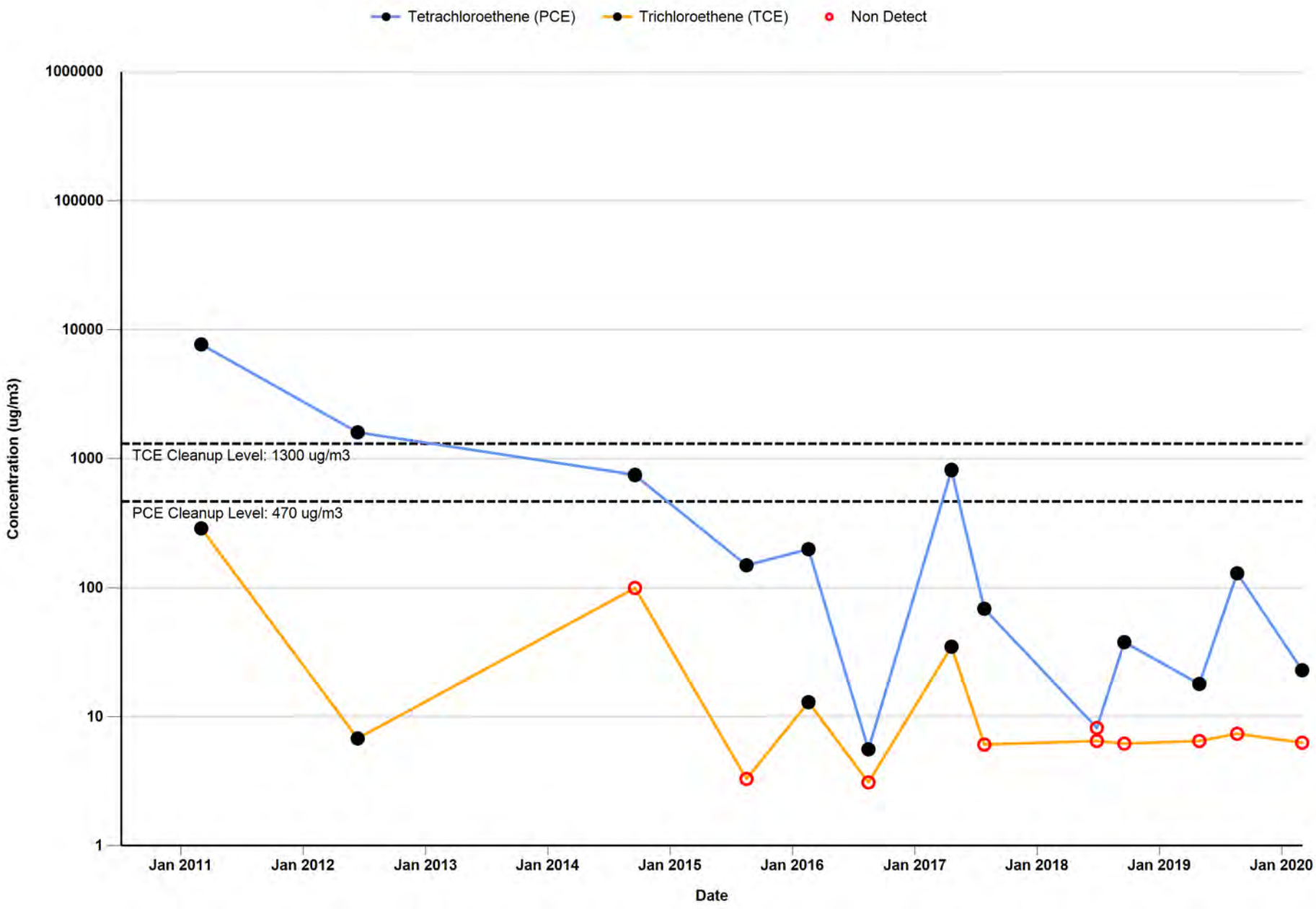


NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-15
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-31 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site

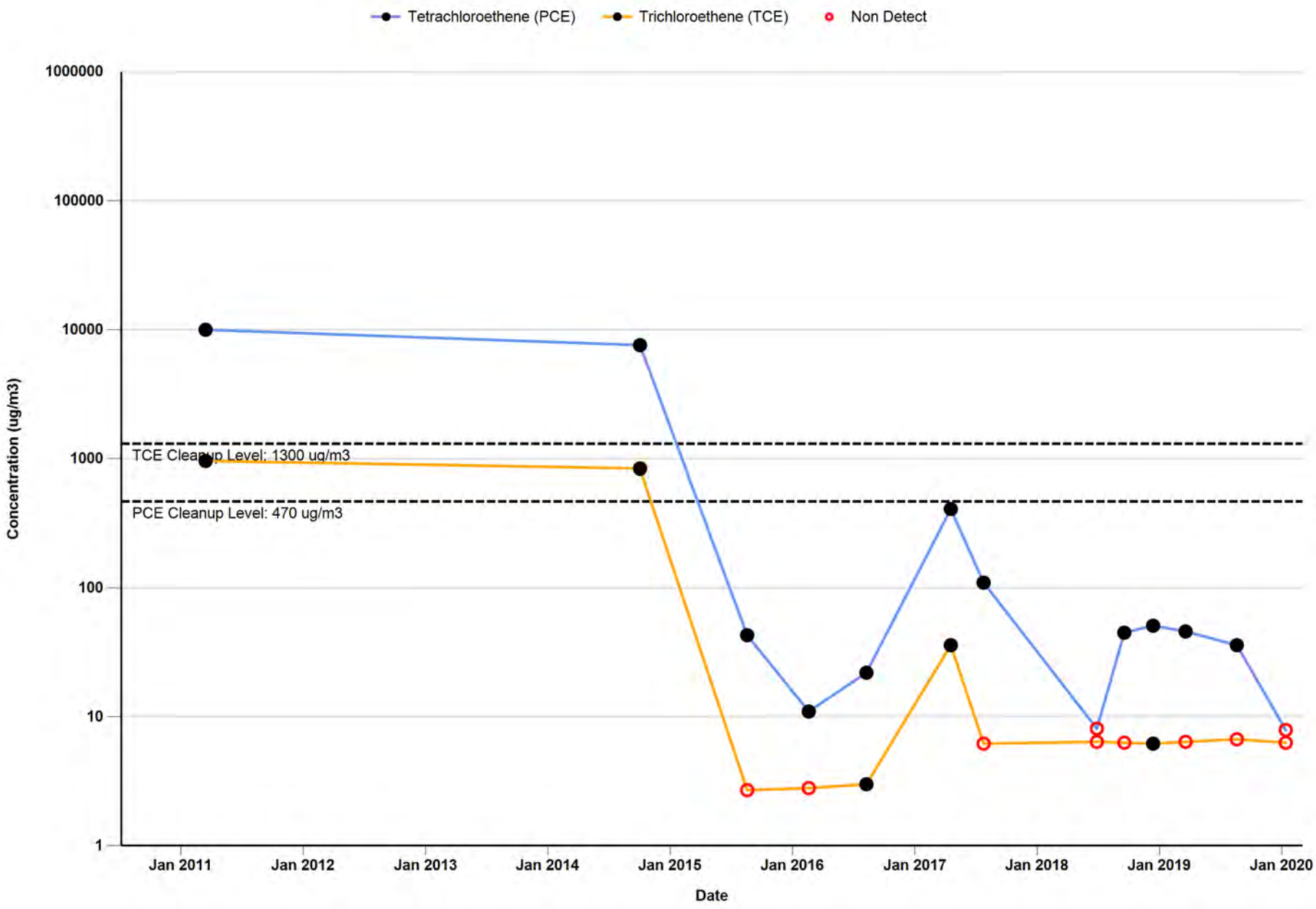
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-16
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-32 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-17
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-43 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site

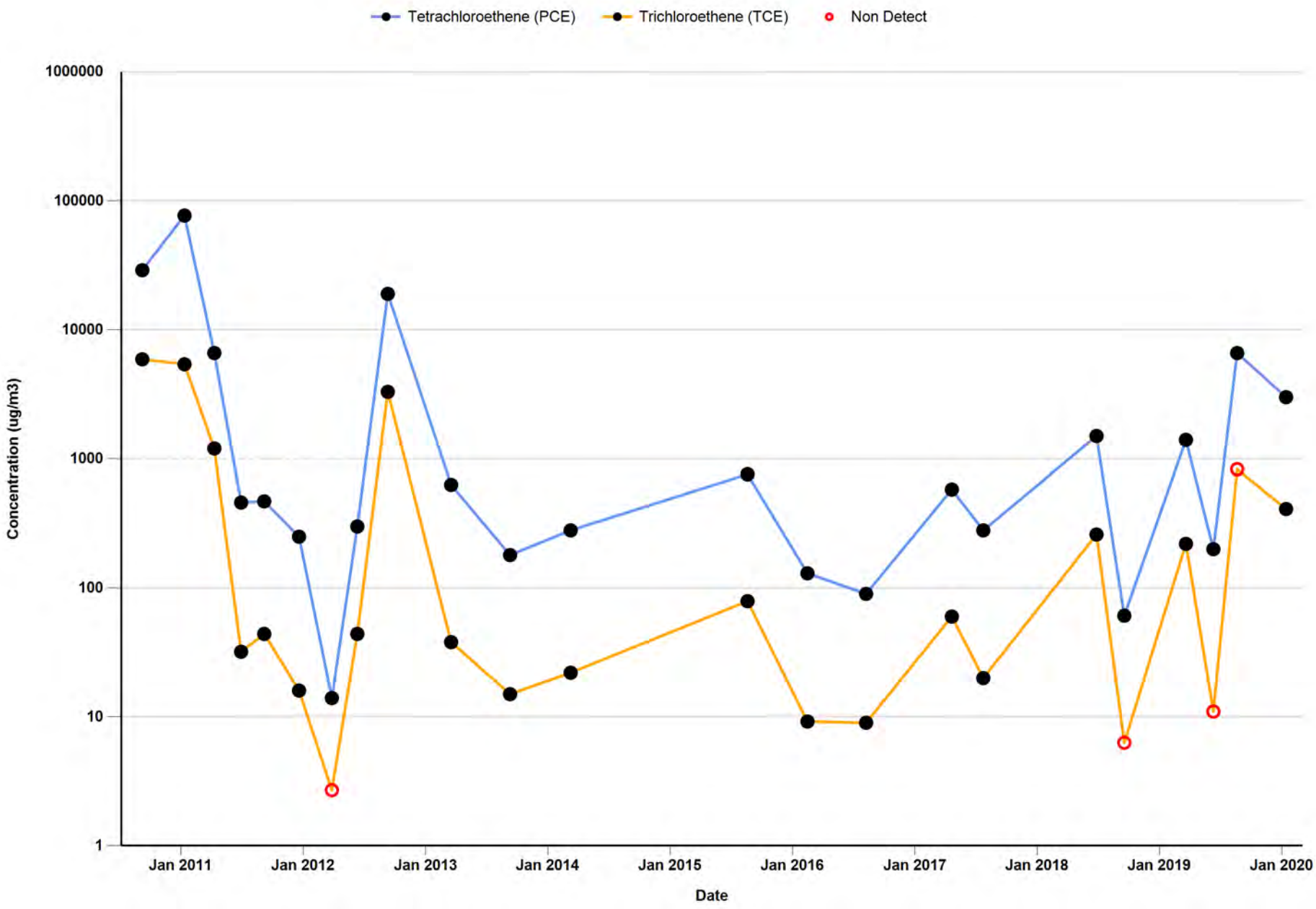


NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-18
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-94 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site

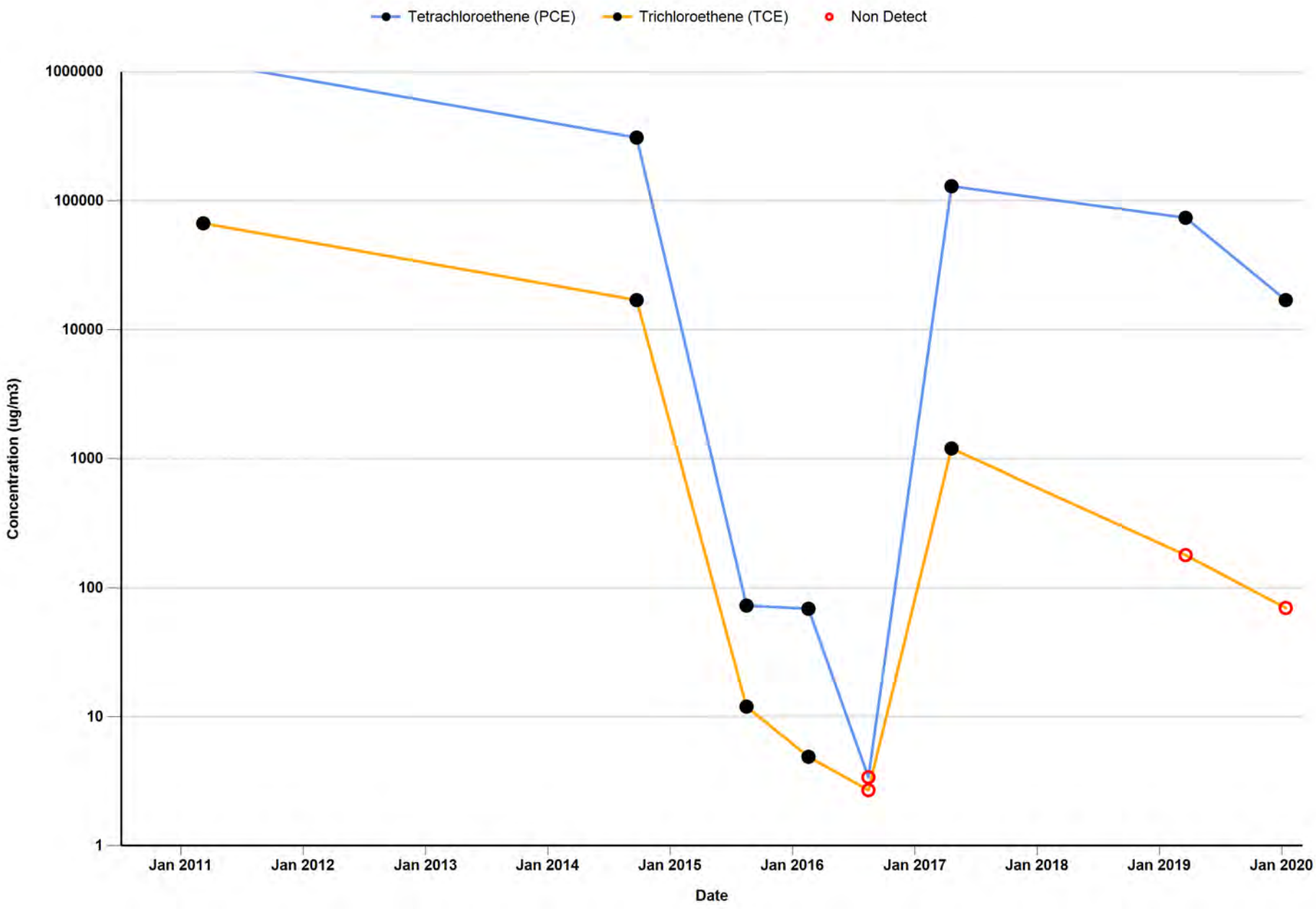
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-19
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-5 at 45 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



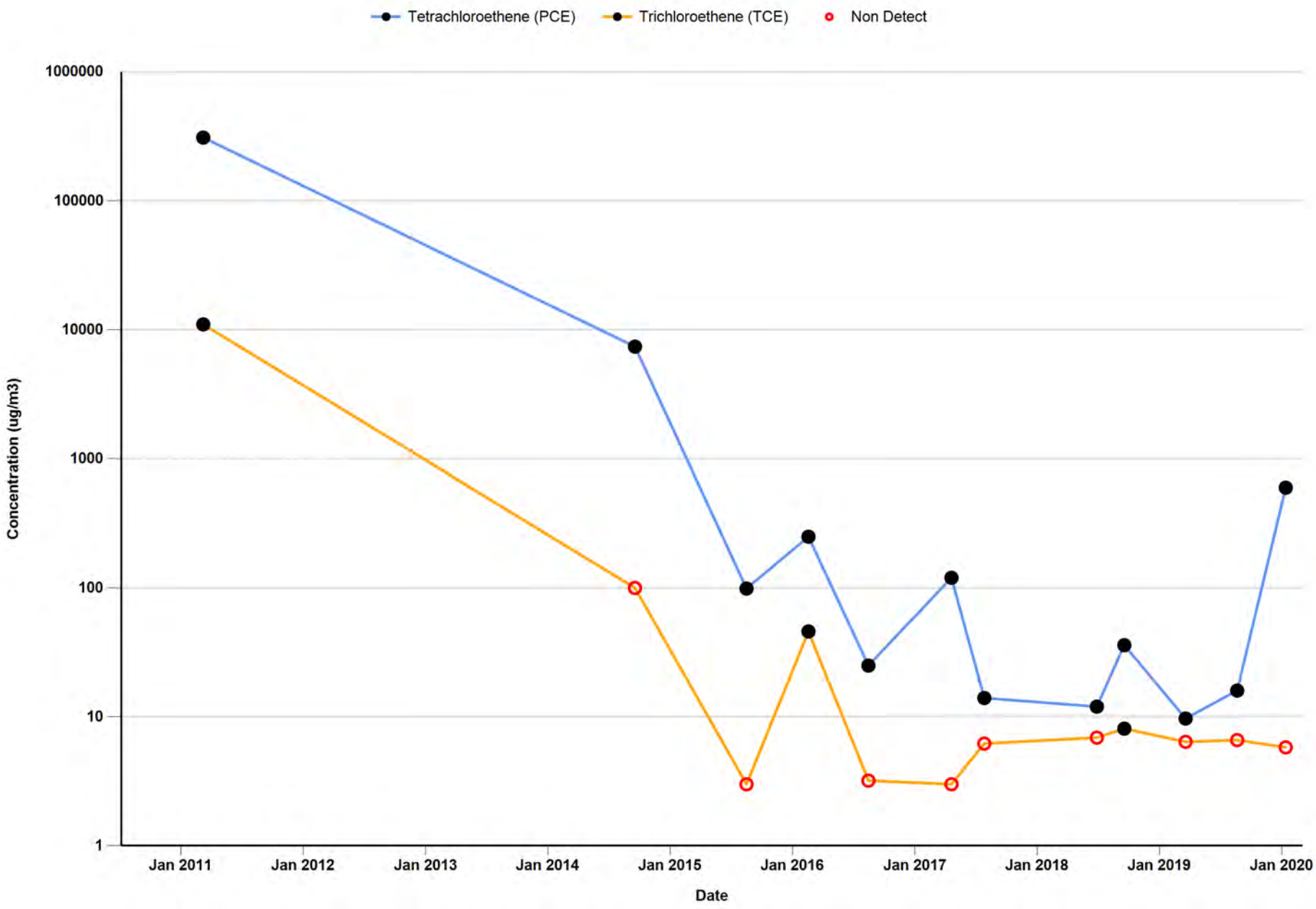
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-20
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-31 at 70 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



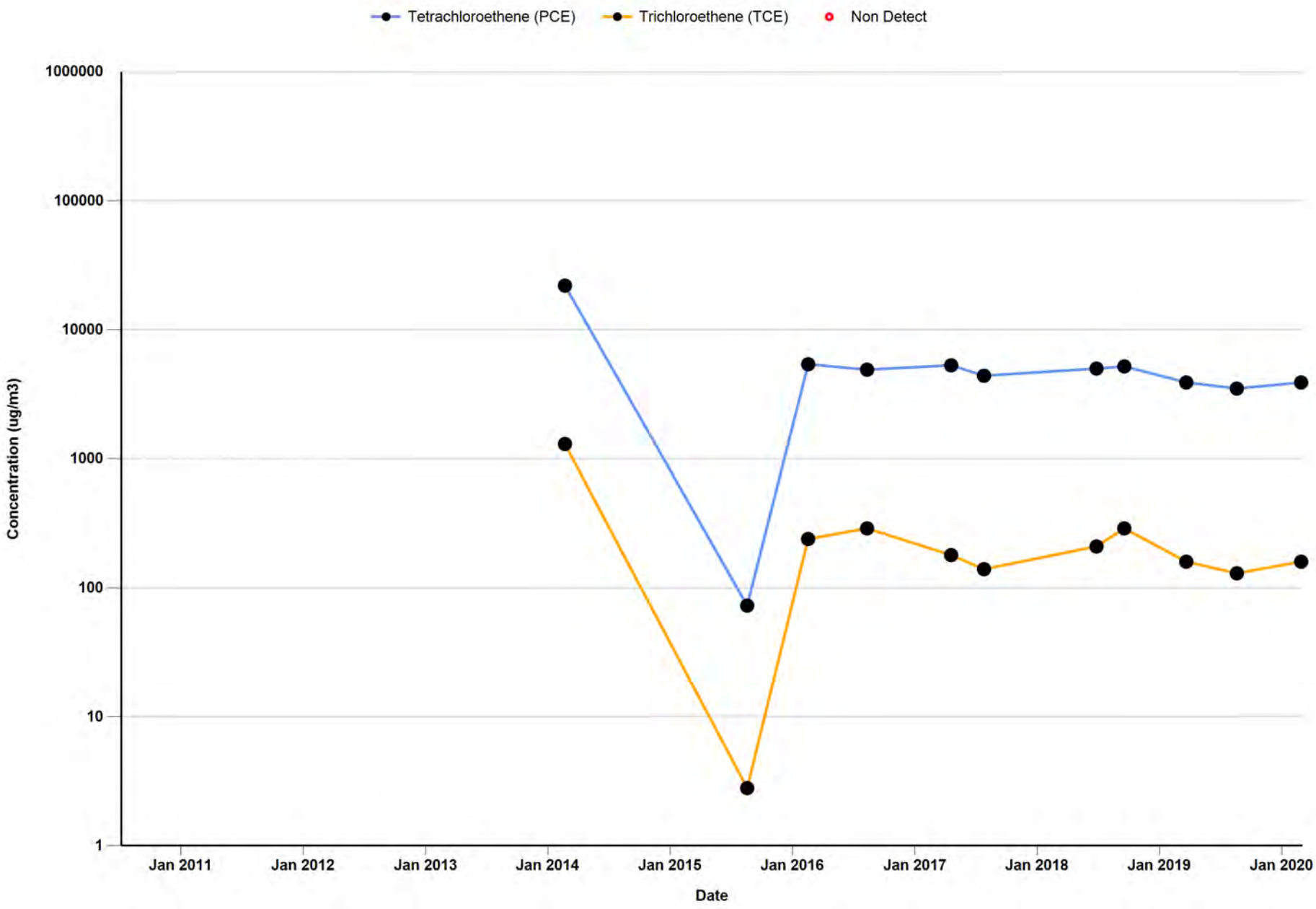
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-21
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-32 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



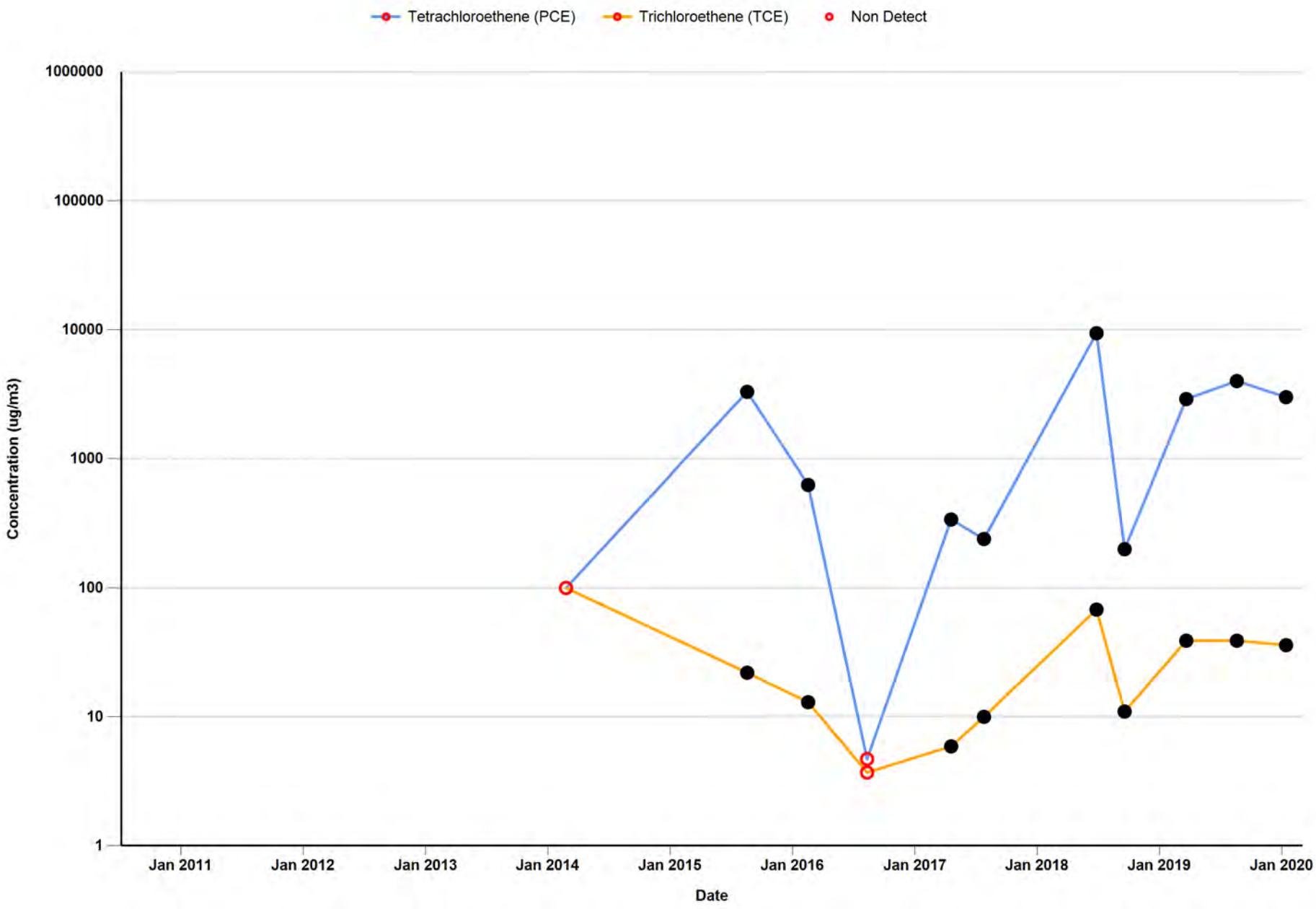
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-22
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-92 at 70 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



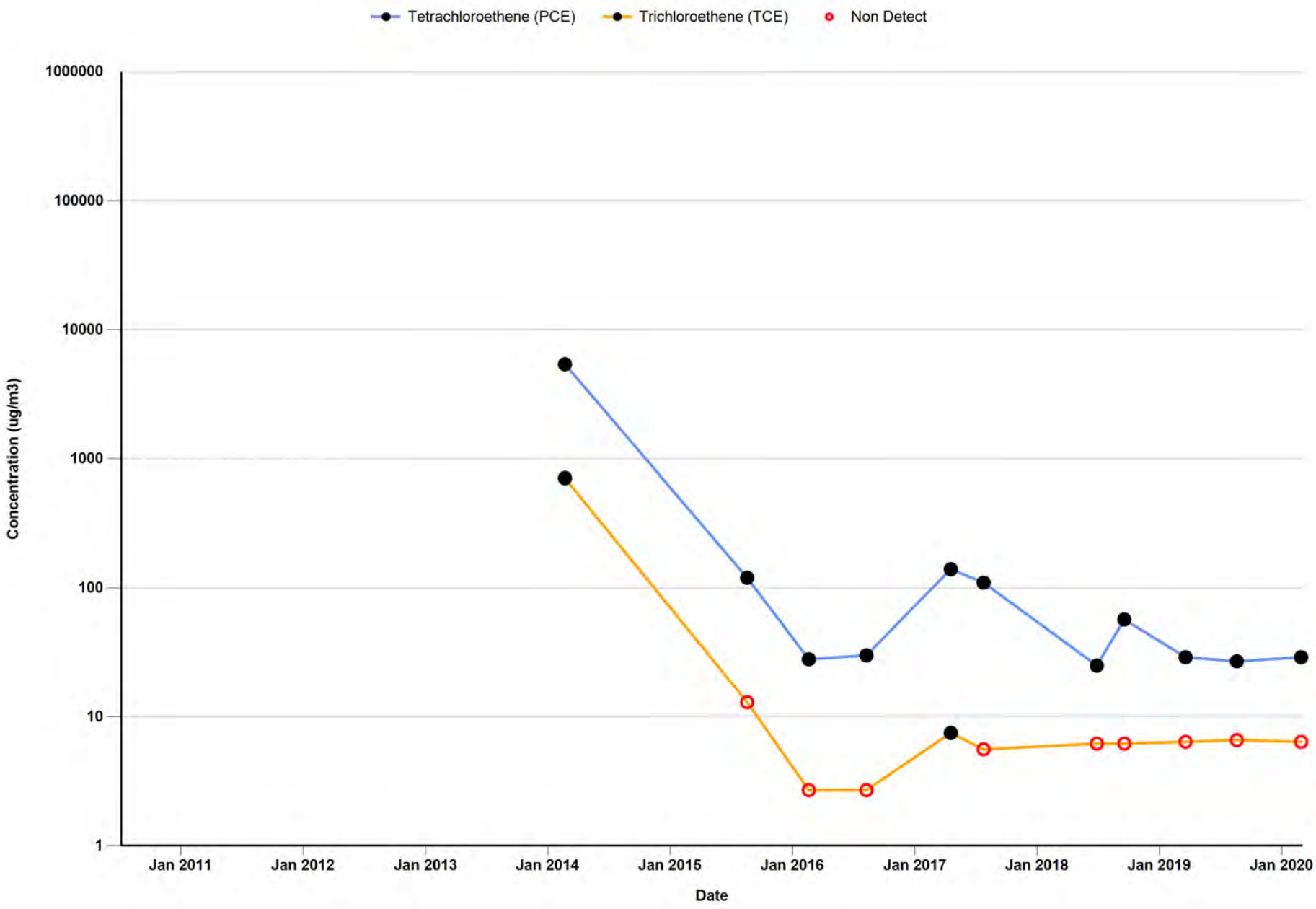
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-23
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-93 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



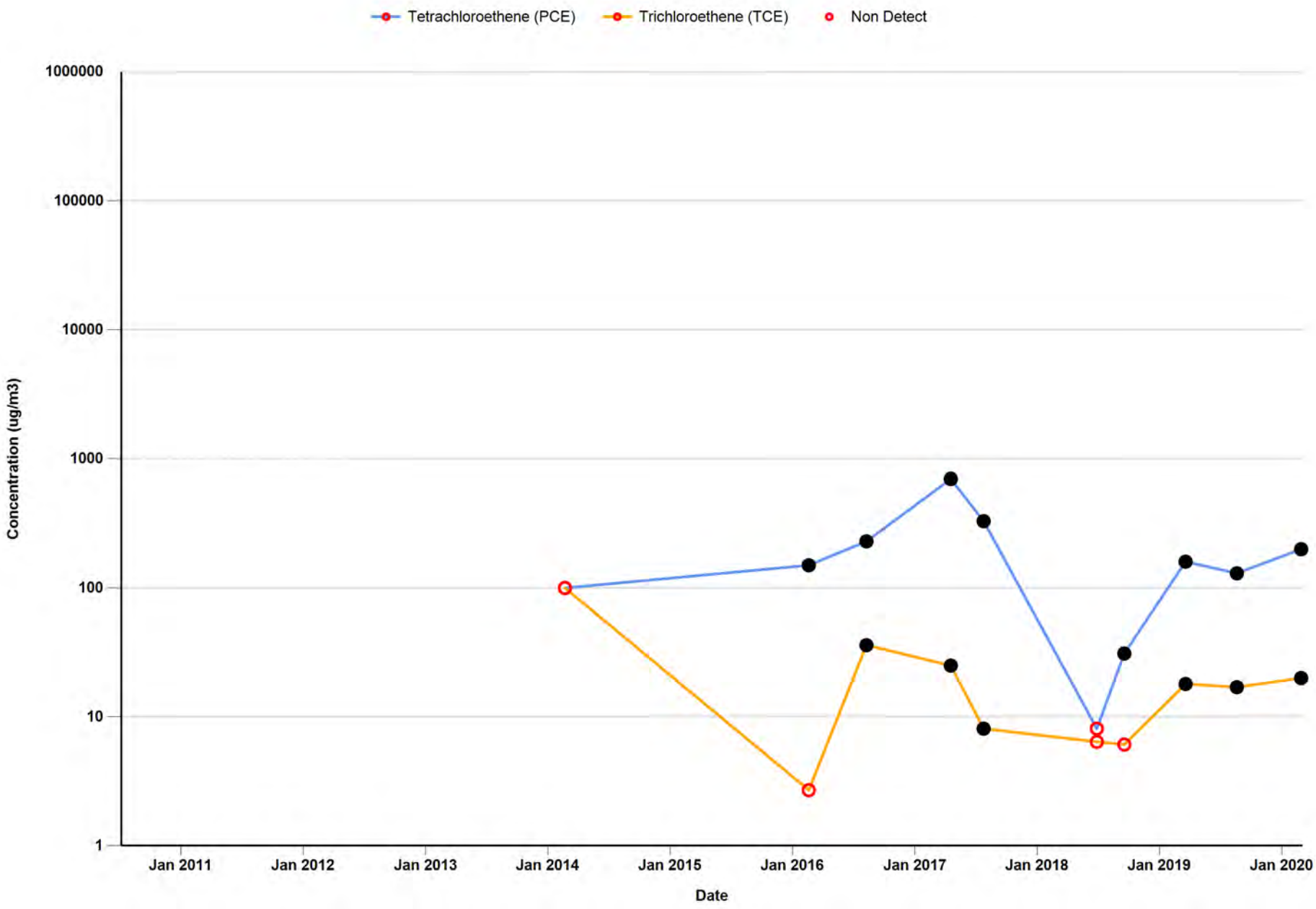
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-24
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-94 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-25
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-95 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

ATTACHMENT D

Other Soil Gas Collected this Quarter

(Not Included this Quarter)

ATTACHMENT E

Field Forms

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0730
Location: B1
Weather Conditions: Partly cloudy, cool, 62°F
Field Personnel present: K. Azhar
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: 1 worker and 2 dogs inside, carpet floors, doors closed, no odors, typical office staff

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☑ Fan running 24/7 after business hours? No

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2193 / 23329 -29.5/-15/-7" Hg
Duplicate (K)/Split (K2): 6L1949 / 23139 -27/-15/-7" Hg
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0741 - 1541 0741 - 1541
Sample ID: IAQ_B1_011620 , IAQ_B1_011620K
Detailed description of sample location:
Set on counter, ~5' high.

Total # of samples: 2

Duplicates: 1

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0730
Location: B2
Weather Conditions: Partly cloudy, cool, 62°F
Field Personnel present: K. Acker
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: 3 workers inside, carpet floors, door open, typical office stuff, no odors

HVAC Operation:

- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours? No

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2414 / 23156 -30 / -15.5 / -6.5" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0738 - 1538
Sample ID: IAQ-B2-011620
Detailed description of sample location:
Set on countertop, ~5' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0730
Location: B3
Weather Conditions: Partly cloudy, cool, 62°F
Field Personnel present: K. Azhar
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, warehouse gates on East and West sides are open, a few workers inside, no odor.

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours? No

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0150 / 24248 -27 / -14.5 / -6" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0739 - 1539
Sample ID: IAQ_B3-011620
Detailed description of sample location:
Hung up on a shelf, ~6' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/17/20
Time of entry: 0655
Location: MR1
Weather Conditions: Partly cloudy, cool, 60°F
Field Personnel present: K. Dzhu
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Carpet floor, door closed, typical office stuff, container of glass wipes, small bottle of white out, unidentifiable odor.

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L1141 / 23164 -28 / -16 / -7"Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0658 - 1420
Sample ID: IAQ-MR1-011720
Detailed description of sample location: set on desk towards center of office, ~4' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0800
Location: SC1
Weather Conditions: Partly Cloudy, cool, 62°F
Field Personnel present: K. Archer
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, two gates to warehouse are open, several cars nearby, several spray cans, car parts around, compressed air hose next to can, slight odor

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L1291 / 23582 -30 / -17 / -8" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0807-1607
Sample ID: IAQ_SC1_011620
Detailed description of sample location:
Set on tool box, ~6' high.

Total # of samples: 1

Duplicates:

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0800
Location: SC2
Weather Conditions: Partly cloudy, cool, 62°F
Field Personnel present: K. Asher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, warehouse gates open, slight odor, several spray cans, several containers, several paint cans around

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours? No

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0653 / 23619 -30/-15/-7"Hg
Duplicate (K)/Split (K2): 6L1866 / 23672 -27/-15/-6"Hg
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0805-1605 0805-1605
Sample ID: IAQ-SC2-011620, IAQ-SC2-011620K
Detailed description of sample location: Set on floor next to paint booth, ~2' high

Total # of samples: 2

Duplicates: 1

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0800
Location: SC3
Weather Conditions: Partly cloudy, cool, 62°F
Field Personnel present: K. Azur
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Tile floors, door closed, nobody inside, spray can of Fire-Ade next to can, typical office stuff, no odor

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours? No

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L1810 / 24837 -26 / -16.5 / .7" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0810 - 1610
Sample ID: FAQ_SC3_011620
Detailed description of sample location: Set on desk, ~5' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/17/20
Time of entry: 0710
Location: SUN1
Weather Conditions: Partly cloudy, cool, 60°F
Field Personnel present: R. Azher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Set on ground, cement floors door closed, gate open, several parts, welding machine, large containers of soap near can

HVAC Operation:

- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2273 / 23712 -30/-16/
Duplicate (K)/Split (K2): –
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0715 -
Sample ID: IAQ-SUN1-011720
Detailed description of sample location:
Set on floor @ southwest corner, ~2' high.

Total # of samples: 1

Duplicates: –

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/17/20
Time of entry: 0710
Location: SUN2
Weather Conditions: Partly cloudy, cool, 60°F
Field Personnel present: K. Azher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, oil stains, several machines around, 1 worker in area, machine odor

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0011 / 23655 -28/-16/
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0717 -
Sample ID: FAQ_SUN2_011720
Detailed description of sample location:
Set on floor in North west corner, ~2' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0820
Location: TP1
Weather Conditions: Partly cloudy, cool, 62°F
Field Personnel present: K. Azhar
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Carpet floors, 2 wks closed, few workers in area, 1 dog, no odors, typical office stuff,

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours? NO

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2409 / 24682 -30/-17.5/-7" Hg
Duplicate (K)/Split (K2): 51005 / 2016 -30/-19/-4" Hg
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0821-1624 0821-1624
Sample ID: IAQ-TP1-011620, IAQ-TP1-011620K2
Detailed description of sample location:

Total # of samples: 2

Duplicates: 1

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/16/20
Time of entry: 0820
Location: TP3
Weather Conditions: Partly cloudy, cool, 62°F
Field Personnel present: K. Azher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, warehouse door partially open, several machines around, several containers of hydraulic oil, several spray cans of various materials, gasoline can, odor of chemicals present

HVAC Operation:

- (KA) ☒ Not applicable
- ☐ On
- ☒ Off
- ☐ Fan running 24/7 after business hours? No

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0340 / 23303 -30/-16/-4"Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): 129378
Time of sampling: 0820 - 1624
Sample ID: IAQ_TP3_011620
Detailed description of sample location:
Set on the floor, ~2' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA
DAILY FIELD REPORT

Project Name: Omega Chemical	**Project #:** E742	**Date:** 1/13/20
Personnel: K.A, P.R.	**Sub Contractors:** —	
Arrival Time: 0600	**Departure Time:** 1400	**Hours on Site:** 8.0
Odometer (Start): —	**Odometer (End):** —	**Total Miles:** —
Task Description: OU-1 SVE OMM ☑ AOC SVE OMM ☐ GWCS OMM ☐		
+ VMP Monitoring		

Equipment List:

☑ Vacuum Meter	Type: Extech Manometer	Serial #: 2147350
☑ Vacuum Meter	Type: Fluke 922 Low-Range	Serial #: 98040163
☑ PID/FID	Type: MiniRAE 3000 OPOG or rental?	Serial #: 594-907978
☑ Sample Pump	Type: Thomas Pump/Lung Box	Serial #: 061000166406/003689
☑ Flow Meter	Type: Velocicalc 9565	Serial #: 9565P1531034
☐ Water Level Meter	Type: Solinst 101	Serial #: 48231
☐ Water Quality Meter	Type: _____	Serial #: _____
☑ Generator/Battery	Type: _____	Serial #: _____

☐ Other(s): _____

Description of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

0600 Arrive onsite. HTS. Get paperwork ready. Mobilize equipment.
Calibrate PID (OPOG ppb): 0 ppb / 4996 ppb Hexane.
0650 Go to Kaiser. Start VMP monitoring.
1300 Finish VMP monitoring for the day. Start OU1 SVE OMM.
1345 Finish OMM. Demobilize equipment.
1400 clean up. off site.

Client Signature (if applicable): _____ **Date:** _____

JHA ENVIRONMENTAL

DAILY SAFETY MEETING

Project Name: Omega Chemical **Date:** 1/13/20

Project Number: E742 **Presented by:** K. Azhar

Check the Topics/Information Reviewed:

- ☑ Safety is everyone's responsibility
- ☑ Accidents can be costly
- ☑ No horseplay
- ☑ Site health and safety plan reviewed
- ☑ Review emergency protocol
- ☑ Directions to hospital (Pilot)
- ☑ Employee Right-To-Know/SDS location
- ☐ First aid, safety, and PPE location
- ☑ Safety glasses, hard hat, safety boots
- ☑ Fire extinguisher locations
- ☑ Daily work scope reviewed
- ☑ Strains and sprains
- ☑ Slips, trips, and falls
- ☑ Eye wash station locations
- ☑ Electrical ground fault
- ☑ Vehicle safety and driving/road conditions
- ☑ Public safety and fences
- ☑ Heat and cold stress
- ☑ Equipment and machinery familiarization
- ☐ Excavator swing and loading
- ☑ Decontamination steps
- ☑ Portable tool safety and awareness
- ☑ Orderly site and housekeeping
- ☑ Smoking in designated areas
- ☑ Parking and lay down area
- ☑ Leather gloves for protection
- ☑ Vehicle backing up hazards
- ☑ Sharp object, rebar, and scrap metal hazards
- ☑ Effects of the night before?
- ☑ Weather conditions (rain/snow)
- ☑ Latex gloves inner/nitrile gloves outer
- ☑ Vibration related injuries
- ☑ Open pits, excavations, and trenching hazards
- ☑ Noise hazards
- ☑ Dust and vapor control
- ☐ Excavation/trenching inspections/documentation
- ☐ Confined space entry – permit required
- ☐ Confined space entry – non-permit required
- ☐ Refueling procedures
- ☐ Full face respirators with proper cartridges
- ☐ Hot work permits
- ☑ Flying debris hazards
- ☐ Overhead utility locations cleared.
- ☑ Poison ivy/oak/sumac/insects/animals
- ☐ Upgrade to Level C at: PID (___ eV) >___ ppmv
- ☐ Work stoppage at: PID (___ eV) >___ ppmv, % LEL > 10%
- ☐ All underground utilities cleared?
- ☑ Flex-N-Stretch performed
- ☑ Anticipated visitors
- ☐ Temporary Power Lines
- ☐ Overhead Utilities
- ☐ Excavations/Trenches (competent person)
- ☐ Heavy Equipment Operations
- ☐ Overloaded Equipment (tipping)
- ☑ Heavy Lifting
- ☑ Traffic
- ☑ Exclusion Zones
- ☑ Uneven Terrain
- ☑ Chemicals
- ☑ Flammability
- ☑ Wet Surfaces
- ☑ Ladder Safety
- ☑ Pinch Points
- ☐ Unexploded Ordnance (UXO) Hazard
- ☑ Daily Vehicle Walkaround/Instpection

Other Discussion Items/Comments/Follow-up Actions: Stay hydrated

JHA Site Health and Safety Officer (SHSO) of the day: Khalid Azhar

NAME	SIGNATURE	COMPANY
Khalid Azhar		JHA
Paul J. Rocka		JHA

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities
- Complete form, obtain signatures, and file with the Daily Summary
- Follow-up on any noted items and document resolution of any action items.

OMEGA
DAILY FIELD REPORT

Project Name: Omega Chemical	**Project #:** E742	**Date:** 1/14/20
Personnel: KA, P. R.	**Sub Contractors:** H & P	
Arrival Time: 0600	**Departure Time:** 1500	**Hours on Site:** 9.0
Odometer (Start): —	**Odometer (End):** —	**Total Miles:** —
Task Description:	**OU-1 SVE OMM** ☐ **AOC SVE OMM** ☐ **GWCS OMM** ☐	
VMP Monitoring		

Equipment List:

☑ Vacuum Meter	Type: Extech Manometer	Serial #: 2147350
☐ Vacuum Meter	Type: Fluke 922 Low-Range	Serial #: 98040163
☑ PID/FID	Type: MiniRAE 3000 OPOG or rental?	Serial #: 594-907978
☐ Sample Pump	Type: Thomas Pump/Lung Box	Serial #: 061000166406/003689
☐ Flow Meter	Type: Velocicalc 9565	Serial #: 9565P1531034
☐ Water Level Meter	Type: Solinst 101	Serial #: 48231
☐ Water Quality Meter	Type: _____	Serial #: _____
☑ Generator/Battery	Type: _____	Serial #: _____

☐ Other(s): _____

Description of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

0600 Arrive onsite. H&S. Get paperwork ready. Upload DFR.
0630 Start VMP monitoring @ skeleton.
0815 Eric (H&P) onsite. Meets w/ @ TP. Observes leak testing procedures.
0930 Eric offsite. Continue VMP monitoring.
1250 Finish VMP monitoring. Q/C summary.
1325 Goto OU1 SVE. Install Cellular Battery Backup Controller. Tests OK. Blower

Client Signature (if applicable): _____ **Date:** _____

DAILY FIELD REPORT

Project Name: Omega Chemical	Project #: E742	Date: 1/14/20

Shutdown alarm notification sent.

1350 Go to FedEx to drop off summas. P/u IAQ summas too.

1445 Unload IAQ summas into trailer.

1500 off site.

VAPOR PROBE MONITORING FORM

Omega - VMP Monitoring

Date: 1/13/20, 1/14/20

Technician: K. Azhar, P. Rocka

WELL ID	Depth (ft bgs)	Well Diameter (inches)	Purge Time (min)	Date	Time	Observed Vacuum ("H_2O)	Sample Taken? (Y/N)	Notes
BISHOP CO. 12519 Putnam St, Whittier, CA								
VMP-23	31.5	4	8	1/13/20	0850	-0.046	N	
VMP-24	31.5	4	8	"	0846	-0.101	Y	8.0"Hg → 1min.1,1-DFA
VMP-25	31.5	4	8	"	0852	-0.002	N	
FRED R. RIPPY 12471 Washington Blvd, Whittier, CA								
FRR-VMP-1-6	6	0.25	1				N	
FRR-VMP-1-12	12	0.25	1				N	
FRR-VMP-4-6	6	0.25	1				N	
FRR-VMP-4-12	12	0.25	1				N	
FRR-VMP-7-6	6	0.25	1				N	
FRR-VMP-7-12	12	0.25	1				N	
FRR-VMP-10-2	2	0.25	1				N	
FRR-VMP-10-6	6	0.25	1				N	
FRR-VMP-13-6	6	0.25	1				N	
FRR-VMP-13-12	12	0.25	1				N	
KAISER PERMANENTE MEDICAL OFFICES 12470 Whittier Blvd, Whittier, CA								
VMP-40-6	6	0.25	1	1/13/20	0838	-0.021	N	
VMP-40-12	12	0.25	1		0839	-0.053	N	
VMP-40-24	24	0.25	1		0840	-0.102	N	
VMP-40-55	55	1	1		0838	-0.200	N	
VMP-40-70	70	0.25	1		0837	-0.154	N	
VMP-41-6	6	0.25	1		0833	-0.011	N	
VMP-41-12	12	0.25	1		0834	-0.022	N	
VMP-41-24	24	0.25	1		0835	-0.003	N	
VMP-41-55	55	1	1		0836	-0.031	N	
VMP-43-6	6	0.25	1		0759	-3.270	N	
VMP-43-12	12	0.25	1		0756	-0.643	N	
VMP-43-24	24	0.25	1		0758	-0.687	Y	8.0"Hg → 1min.1,1-DFA
VMP-94-6	6	0.25	1		0709	-0.287	N	
VMP-94-11.	11	0.25	1		0710	-0.333	N	
VMP-94-24	24	0.25	1		0711	-0.470	Y	8.0"Hg → 1min.1,1-DFA
VMP-94-40	40	0.25	1		0712	-0.515	N	
VMP-94-50	50	0.25	1		0713	-0.690	N	
VMP-94-60	60	0.25	1		0714	-1.044	Y	8.0"Hg → 1min.1,1-DFA, DUP.
VMP-94-69.5	69.5	0.25	1		0715	-0.010	N	
VMP-95-51	51	0.25	1		0806	-4.774	N	
VMP-95-61	61	0.25	1		0805	-11.058	Y	8.0"Hg → 1min.1,1-DFA
VMP-95-69.5	69.5	0.25	1		0809	-1.930	N	
MERCHANT METALS (FORMER) 12482 Putnam St, Whittier, CA								
VMP-44-12	12	0.25	1				N	
VMP-44-24	24	0.25	1				N	
VMP-86-12	12	0.25	1				N	

JHA Environmental

VAPOR PROBE MONITORING FORM

Omega - VMP Monitoring

Date: 1/13/20 , 1/14/20

Technician: K. Acker, P. Rodka

WELL ID	Depth (ft bgs)	Well Diameter (inches)	Purge Time (min)	Date	Time	Observed Vacuum ("H_2O)	Sample Taken? (Y/N)	Notes
VMP-86-24	24	0.25	1				N	
VMP-87-12	12	0.25	1				N	
VMP-87-24	24	0.25	1				N	
VMP-88-12	12	0.25	1				N	
VMP-88-24	24	0.25	1				N	
ROP AND WCCS (FORMER) 12519 Washington Blvd, Whittier, CA								
VMP-31-6	6	0.25	1	1/13/20	0912	-0.034	N	
VMP-31-12	12	0.25	1		0913	-0.046	N	
VMP-31-24	24	0.25	1		0914	-0.084	Y	8.0"Hg → 1min. 1,1-DFA
VMP-31-40	40	0.25	1		0917	+0.233	N	positive pressure
VMP-31-55	55	1	1		0914	-0.232	N	
VMP-31-60	60	0.25	1		0918	-0.012	N	
VMP-31-70	70	0.25	1		0929	-1.370	Y	8.0"Hg → 1min. 1,1-DFA
VMP-32-6	6	0.25	1		0949	-0.043	N	
VMP-32-12	12	0.25	1		0949	-0.050	N	
VMP-32-24	24	0.25	1		0950	-0.070	Y	8.0"Hg → 1min. 1,1-DFA
VMP-32-40	40	0.25	1		0951	-0.294	N	
VMP-32-55	55	1	1		0950	-0.316	N	
VMP-32-60	60	0.25	1		0953	-0.091	Y	8.0"Hg → 1min. 1,1-DFA
VMP-32-70	70	0.25	1		0954	-0.099	N	
SKATELAND (FORMER) 12520 Whittier Blvd, Whittier, CA								
VMP-18	30	4	8	1/14/20	0705	-0.034	Y	8.0"Hg → 1min. 1,1-DFA. DUP
VMP-39-6	6	0.25	1		0643	-0.015	N	
VMP-39-12	12	0.25	1		0644	-0.019	N	
VMP-39-24	24	0.25	1		0648	-0.120	N	
VMP-39-55	55	1	1		0647	-0.019	N	
VMP-84-6	6	0.25	1		0658	-3.911	N	
VMP-84-12	12	0.25	1		0659	-0.017	N	
VMP-84-24	24	0.25	1		0700	-0.016	N	
VMP-84-40	40	0.25	1		0657	-0.008	N	
VMP-84-50	50	0.25	1		0653	-0.006	N	
VMP-84-60	60	0.25	1		0655	-0.013	N	
STAR CITY AUTO BODY 12504 Whittier Blvd, Whittier, CA								
VMP-5	45	1	3	1/14/20	1230	-0.316	Y	8.0"Hg → 1min. 1,1-DFA
VMP-22	31.5	4	8	1/14/20	1212	-0.269	Y	8.0"Hg → 1min. 1,1-DFA
TERRA PAVE 12511 Putnam St, Whittier, CA								
VMP-11	30	4	8	1/14/20	0845	-0.643	Y	8.0"Hg → 1min. 1,1-DFA
VMP-12	31.5	4	8	1/14/20	0917	-1.138	Y	8.0"Hg → 1min. 1,1-DFA
VMP-13	31.5	4	8		~~0937~~	~~-0.852~~	N	-0.621" H_2O @ 0953
VMP-14	31.5	4	8		1025	-0.011	N	
VMP-15	31.5	4	8		0937	-0.852	Y	8.0"Hg → 1min. 1,1-DFA. DUP
VMP-16	31.5	4	8		0951	-1.086	Y	8.0"Hg → 1min. 1,1-DFA
VMP-17	31.5	4	8		0940	-1.573	Y	8.0"Hg → 1min. 1,1-DFA

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VAPOR PROBE MONITORING FORM

Omega - VMP Monitoring

Date: 1/13/20, 1/14/20

Technician: K. Azhar, P. Rodka

WELL ID	Depth (ft bgs)	Well Diameter (inches)	Purge Time (min)	Date	Time	Observed Vacuum ("H_2O)	Sample Taken? (Y/N)	Notes
VMP-92-51.5	51.5	0.25	1	1/14/20	1059	-0.270	N	
VMP-92-62	62	0.25	1		1100	-0.938	N	
VMP-92-68.5	68.5	0.25	1		1102	-0.245	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-93-50	50	0.25	1		0814	-1.413	N	
VMP-93-60	60	0.25	1		0815	-0.006	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-93-69.5	69.5	0.25	1		0817	-1.568	N	
THREE KINGS CONSTRUCTION (FORMER) 12512 Whittier Blvd, Whittier, CA								
VE-1M	36	4	8	1/13/20	1113	-0.677	N	
VE-2S	22	4	8		1115	-0.167	N	
VE-4S	22	4	8		1116	-0.341	N	
VE-5M	36	4	8		1117	-0.903	N	
VE-7S	30	4	8	1/14/20	1225	-0.382	N	
VMP-1D	70	4	8	1/13/20	1117	-0.890	N	
VMP-3D	70	4	8	1/14/20	1222	-0.535	N	well cap was off for optimization efforts
VMP-4D	70	4	8	1/13/20	1220	-2.299	N	
VMP-20	31.5	4	8	1/13/20	1118	-0.540	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-21	31.5	4	8		1120	-0.083	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-26	30.5	4	8		1121	-0.035	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-27	30	4	8		1235	-0.004	Y	8.0"Hg → 1 min. 1,1-DFA

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ATTACHMENT F

Laboratory Analytical Results

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2/3/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega-OU1 IAQ Jan. 2020
Project #:
Workorder #: 2001476A

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/21/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2001476A

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	3139-GL 6403
FAX:	949.679.9078	**PROJECT #**	Omega-OU1 IAQ Jan. 2020
DATE RECEIVED:	01/21/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/03/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAQ_B1_011620	Modified TO-15	5.9 "Hg	4.7 psi
01B	IAQ_B1_011620	Modified TO-15	5.9 "Hg	4.7 psi
02A	IAQ_B1_011620K	Modified TO-15	5.7 "Hg	5.3 psi
02B	IAQ_B1_011620K	Modified TO-15	5.7 "Hg	5.3 psi
03A	IAQ_B2_011620	Modified TO-15	5.5 "Hg	4.8 psi
03B	IAQ_B2_011620	Modified TO-15	5.5 "Hg	4.8 psi
04A	IAQ_B3_011620	Modified TO-15	4.5 "Hg	5 psi
04B	IAQ_B3_011620	Modified TO-15	4.5 "Hg	5 psi
05A	IAQ_MR1_011720	Modified TO-15	5.9 "Hg	5 psi
05B	IAQ_MR1_011720	Modified TO-15	5.9 "Hg	5 psi
06A	IAQ_SC1_011620	Modified TO-15	5.7 "Hg	4.9 psi
06B	IAQ_SC1_011620	Modified TO-15	5.7 "Hg	4.9 psi
07A	IAQ_SC2_011620	Modified TO-15	4.7 "Hg	5.2 psi
07B	IAQ_SC2_011620	Modified TO-15	4.7 "Hg	5.2 psi
08A	IAQ_SC2_011620K	Modified TO-15	4.5 "Hg	5.1 psi
08B	IAQ_SC2_011620K	Modified TO-15	4.5 "Hg	5.1 psi
09A	IAQ_SC3_011620	Modified TO-15	5.5 "Hg	4.9 psi
09B	IAQ_SC3_011620	Modified TO-15	5.5 "Hg	4.9 psi
10A	IAQ_AA3_011620	Modified TO-15	4.9 "Hg	4.9 psi
10B	IAQ_AA3_011620	Modified TO-15	4.9 "Hg	4.9 psi
11A	IAQ_SUN1_011720	Modified TO-15	4.7 "Hg	5 psi
11B	IAQ_SUN1_011720	Modified TO-15	4.7 "Hg	5 psi
12A	IAQ_SUN2_011720	Modified TO-15	5.9 "Hg	5 psi

Continued on next page

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WORK ORDER #: 2001476A

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	3139-GL 6403
FAX:	949.679.9078	**PROJECT #**	Omega-OU1 IAQ Jan. 2020
DATE RECEIVED:	01/21/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/03/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
12B	IAQ_SUN2_011720	Modified TO-15	5.9 "Hg	5 psi
13A	Lab Blank	Modified TO-15	NA	NA
13B	Lab Blank	Modified TO-15	NA	NA
14A	CCV	Modified TO-15	NA	NA
14B	CCV	Modified TO-15	NA	NA
15A	LCS	Modified TO-15	NA	NA
15AA	LCSD	Modified TO-15	NA	NA
15B	LCS	Modified TO-15	NA	NA
15BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/03/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
DeMaximis, Inc
Workorder# 2001476A

Twelve 6 Liter Summa Canister (100% SIM Ambient) samples were received on January 21, 2020. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_B1_011620

Lab ID#: 2001476A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	17	3.9	41

Client Sample ID: IAQ_B1_011620

Lab ID#: 2001476A-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Freon 11	0.033	0.24	0.18	1.3
Freon 113	0.033	0.065	0.25	0.50
Chloroform	0.033	0.034	0.16	0.16
Carbon Tetrachloride	0.033	0.077	0.21	0.49
Benzene	0.082	0.43	0.26	1.4
Toluene	0.082	0.82	0.31	3.1
Tetrachloroethene	0.033	0.054	0.22	0.37
Ethyl Benzene	0.033	0.12	0.14	0.53
m,p-Xylene	0.066	0.37	0.28	1.6
o-Xylene	0.033	0.15	0.14	0.64

Client Sample ID: IAQ_B1_011620K

Lab ID#: 2001476A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	14	4.0	33

Client Sample ID: IAQ_B1_011620K

Lab ID#: 2001476A-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.51	0.17	2.5
Freon 11	0.034	0.24	0.19	1.4
Freon 113	0.034	0.065	0.26	0.50
Chloroform	0.034	0.035	0.16	0.17

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_B1_011620K

Lab ID#: 2001476A-02B

Carbon Tetrachloride	0.034	0.073	0.21	0.46
Benzene	0.084	0.45	0.27	1.4
Toluene	0.084	0.85	0.32	3.2
Ethyl Benzene	0.034	0.12	0.14	0.54
m,p-Xylene	0.067	0.37	0.29	1.6
o-Xylene	0.034	0.15	0.14	0.64

Client Sample ID: IAQ_B2_011620

Lab ID#: 2001476A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	49	3.8	120

Client Sample ID: IAQ_B2_011620

Lab ID#: 2001476A-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.50	0.16	2.4
Freon 11	0.032	0.24	0.18	1.4
Freon 113	0.032	0.066	0.25	0.51
Chloroform	0.032	0.037	0.16	0.18
Carbon Tetrachloride	0.032	0.070	0.20	0.44
Benzene	0.081	0.53	0.26	1.7
1,2-Dichloroethane	0.032	0.032	0.13	0.13
Toluene	0.081	2.4	0.30	8.9
Tetrachloroethene	0.032	0.044	0.22	0.30
Ethyl Benzene	0.032	0.23	0.14	1.0
m,p-Xylene	0.065	0.73	0.28	3.2
o-Xylene	0.032	0.28	0.14	1.2

Client Sample ID: IAQ_B3_011620

Lab ID#: 2001476A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_B3_011620

Lab ID#: 2001476A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	19	3.8	46

Client Sample ID: IAQ_B3_011620

Lab ID#: 2001476A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.51	0.16	2.5
Freon 11	0.032	0.24	0.18	1.4
Freon 113	0.032	0.066	0.24	0.50
Chloroform	0.032	0.032	0.15	0.16
Carbon Tetrachloride	0.032	0.076	0.20	0.48
Benzene	0.079	0.47	0.25	1.5
Toluene	0.079	1.4	0.30	5.5
Ethyl Benzene	0.032	0.17	0.14	0.72
m,p-Xylene	0.063	0.53	0.27	2.3
o-Xylene	0.032	0.20	0.14	0.87

Client Sample ID: IAQ_MR1_011720

Lab ID#: 2001476A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	44	4.0	100

Client Sample ID: IAQ_MR1_011720

Lab ID#: 2001476A-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.49	0.16	2.4
Freon 11	0.033	0.24	0.19	1.3
Freon 113	0.033	0.064	0.26	0.49
Carbon Tetrachloride	0.033	0.068	0.21	0.43
Benzene	0.084	0.49	0.27	1.6

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_MR1_011720

Lab ID#: 2001476A-05B

Toluene	0.084	1.5	0.31	5.7
Tetrachloroethene	0.033	0.041	0.23	0.28
Ethyl Benzene	0.033	0.16	0.14	0.72
m,p-Xylene	0.067	0.56	0.29	2.4
o-Xylene	0.033	0.21	0.14	0.93

Client Sample ID: IAQ_SC1_011620

Lab ID#: 2001476A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	140 E	3.9	330 E
Methylene Chloride	0.33	0.67	1.1	2.3

Client Sample ID: IAQ_SC1_011620

Lab ID#: 2001476A-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.49	0.16	2.4
Freon 11	0.033	0.24	0.18	1.3
Freon 113	0.033	0.062	0.25	0.48
Carbon Tetrachloride	0.033	0.073	0.21	0.46
Benzene	0.082	1.2	0.26	3.8
Toluene	0.082	3.2	0.31	12
Ethyl Benzene	0.033	0.51	0.14	2.2
m,p-Xylene	0.066	1.8	0.29	7.9
o-Xylene	0.033	0.61	0.14	2.6

Client Sample ID: IAQ_SC2_011620

Lab ID#: 2001476A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	260 E	3.8	620 E
Methylene Chloride	0.32	1.0	1.1	3.6

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_SC2_011620

Lab ID#: 2001476A-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.49	0.16	2.4
Freon 11	0.032	0.24	0.18	1.3
Freon 113	0.032	0.063	0.24	0.48
Chloroform	0.032	0.034	0.16	0.17
Carbon Tetrachloride	0.032	0.074	0.20	0.47
Benzene	0.080	1.1	0.26	3.6
1,2-Dichloroethane	0.032	0.031 J	0.13	0.13 J
Toluene	0.080	3.8	0.30	14
Chlorobenzene	0.032	0.13	0.15	0.61
Ethyl Benzene	0.032	1.0	0.14	4.4
m,p-Xylene	0.064	3.7	0.28	16
o-Xylene	0.032	1.1	0.14	4.9

Client Sample ID: IAQ_SC2_011620K

Lab ID#: 2001476A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	260 E	3.8	610 E
Methylene Chloride	0.32	0.71	1.1	2.5

Client Sample ID: IAQ_SC2_011620K

Lab ID#: 2001476A-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.50	0.16	2.4
Freon 11	0.032	0.24	0.18	1.3
Freon 113	0.032	0.064	0.24	0.49
Chloroform	0.032	0.032	0.15	0.16
Carbon Tetrachloride	0.032	0.088	0.20	0.55
Benzene	0.079	1.2	0.25	3.8
Toluene	0.079	3.1	0.30	12
Chlorobenzene	0.032	0.16	0.14	0.72
Ethyl Benzene	0.032	1.1	0.14	4.7

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_SC2_011620K

Lab ID#: 2001476A-08B

m,p-Xylene	0.063	4.0	0.27	17
o-Xylene	0.032	1.2	0.14	5.2

Client Sample ID: IAQ_SC3_011620

Lab ID#: 2001476A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	160 E	3.9	380 E
Methylene Chloride	0.33	0.68	1.1	2.4

Client Sample ID: IAQ_SC3_011620

Lab ID#: 2001476A-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Freon 11	0.033	0.24	0.18	1.3
Freon 113	0.033	0.063	0.25	0.48
Chloroform	0.033	0.036	0.16	0.18
Carbon Tetrachloride	0.033	0.074	0.20	0.47
Benzene	0.082	1.1	0.26	3.6
Toluene	0.082	2.9	0.31	11
Chlorobenzene	0.033	0.036	0.15	0.16
Ethyl Benzene	0.033	0.59	0.14	2.6
m,p-Xylene	0.065	2.1	0.28	9.0
o-Xylene	0.033	0.69	0.14	3.0

Client Sample ID: IAQ_AA3_011620

Lab ID#: 2001476A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	12	3.8	28
Methylene Chloride	0.32	0.94	1.1	3.2

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_AA3_011620

Lab ID#: 2001476A-10B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.51	0.16	2.5
Freon 11	0.032	0.24	0.18	1.3
Freon 113	0.032	0.064	0.24	0.49
Carbon Tetrachloride	0.032	0.075	0.20	0.47
Benzene	0.080	0.45	0.25	1.4
Toluene	0.080	0.67	0.30	2.5
Ethyl Benzene	0.032	0.11	0.14	0.47
m,p-Xylene	0.064	0.33	0.28	1.4
o-Xylene	0.032	0.13	0.14	0.56

Client Sample ID: IAQ_SUN1_011720

Lab ID#: 2001476A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	7.9	3.8	19

Client Sample ID: IAQ_SUN1_011720

Lab ID#: 2001476A-11B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.49	0.16	2.4
Freon 11	0.032	0.23	0.18	1.3
Freon 113	0.032	0.063	0.24	0.48
Carbon Tetrachloride	0.032	0.063	0.20	0.40
Benzene	0.080	0.29	0.25	0.93
Toluene	0.080	0.44	0.30	1.7
Tetrachloroethene	0.032	0.069	0.22	0.47
Ethyl Benzene	0.032	0.055	0.14	0.24
m,p-Xylene	0.064	0.18	0.28	0.78
o-Xylene	0.032	0.072	0.14	0.31

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_SUN2_011720

Lab ID#: 2001476A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	7.4	4.0	18

Client Sample ID: IAQ_SUN2_011720

Lab ID#: 2001476A-12B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Freon 11	0.033	0.24	0.19	1.3
Freon 113	0.033	0.064	0.26	0.49
Carbon Tetrachloride	0.033	0.076	0.21	0.48
Benzene	0.084	0.24	0.27	0.78
Toluene	0.084	0.39	0.31	1.5
Ethyl Benzene	0.033	0.052	0.14	0.23
m,p-Xylene	0.067	0.17	0.29	0.74
o-Xylene	0.033	0.067	0.14	0.29

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Client Sample ID: IAQ_B1_011620

Lab ID#: 2001476A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012508**	**Date of Collection:**	**1/16/20 3:41:00 PM**
Dil. Factor:	**1.64**	**Date of Analysis:**	**1/25/20 12:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	17	3.9	41
Methylene Chloride	0.33	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: IAQ_B1_011620

Lab ID#: 2001476A-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012508sim**	**Date of Collection:**	**1/16/20 3:41:00 PM**
Dil. Factor:	**1.64**	**Date of Analysis:**	**1/25/20 12:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.24	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
Freon 113	0.033	0.065	0.25	0.50
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.034	0.16	0.16
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.077	0.21	0.49
Benzene	0.082	0.43	0.26	1.4
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.082	0.82	0.31	3.1
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.054	0.22	0.37
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.12	0.14	0.53
m,p-Xylene	0.066	0.37	0.28	1.6
o-Xylene	0.033	0.15	0.14	0.64
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_B1_011620K

Lab ID#: 2001476A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012509**	**Date of Collection:**	**1/16/20 3:41:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**1/25/20 01:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	14	4.0	33
Methylene Chloride	0.34	Not Detected	1.2	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: IAQ_B1_011620K

Lab ID#: 2001476A-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012509sim**	**Date of Collection:**	**1/16/20 3:41:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**1/25/20 01:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.51	0.17	2.5
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.24	0.19	1.4
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.065	0.26	0.50
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.035	0.16	0.17
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.073	0.21	0.46
Benzene	0.084	0.45	0.27	1.4
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.084	0.85	0.32	3.2
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
Chlorobenzene	0.034	Not Detected	0.15	Not Detected
Ethyl Benzene	0.034	0.12	0.14	0.54
m,p-Xylene	0.067	0.37	0.29	1.6
o-Xylene	0.034	0.15	0.14	0.64
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_B2_011620

Lab ID#: 2001476A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012510**	**Date of Collection:**	**1/16/20 3:38:00 PM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**1/25/20 01:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	49	3.8	120
Methylene Chloride	0.32	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: IAQ_B2_011620

Lab ID#: 2001476A-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012510sim**	**Date of Collection:**	**1/16/20 3:38:00 PM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**1/25/20 01:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.50	0.16	2.4
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Freon 11	0.032	0.24	0.18	1.4
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Freon 113	0.032	0.066	0.25	0.51
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	0.037	0.16	0.18
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.032	0.070	0.20	0.44
Benzene	0.081	0.53	0.26	1.7
1,2-Dichloroethane	0.032	0.032	0.13	0.13
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.15	Not Detected
Toluene	0.081	2.4	0.30	8.9
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	0.044	0.22	0.30
Chlorobenzene	0.032	Not Detected	0.15	Not Detected
Ethyl Benzene	0.032	0.23	0.14	1.0
m,p-Xylene	0.065	0.73	0.28	3.2
o-Xylene	0.032	0.28	0.14	1.2
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_B3_011620

Lab ID#: 2001476A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012511**	**Date of Collection:**	**1/16/20 3:39:00 PM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**1/25/20 02:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	19	3.8	46
Methylene Chloride	0.32	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: IAQ_B3_011620

Lab ID#: 2001476A-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012511sim**	**Date of Collection:**	**1/16/20 3:39:00 PM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**1/25/20 02:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.51	0.16	2.5
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Freon 11	0.032	0.24	0.18	1.4
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
Freon 113	0.032	0.066	0.24	0.50
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.12	Not Detected
Chloroform	0.032	0.032	0.15	0.16
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.076	0.20	0.48
Benzene	0.079	0.47	0.25	1.5
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.14	Not Detected
Toluene	0.079	1.4	0.30	5.5
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	Not Detected	0.21	Not Detected
Chlorobenzene	0.032	Not Detected	0.14	Not Detected
Ethyl Benzene	0.032	0.17	0.14	0.72
m,p-Xylene	0.063	0.53	0.27	2.3
o-Xylene	0.032	0.20	0.14	0.87
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: IAQ_MR1_011720

Lab ID#: 2001476A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012512**	**Date of Collection:**	**1/17/20 6:58:00 AM**
Dil. Factor:	**1.67**	**Date of Analysis:**	**1/25/20 03:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	44	4.0	100
Methylene Chloride	0.33	Not Detected	1.2	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_MR1_011720

Lab ID#: 2001476A-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012512sim**	**Date of Collection:**	**1/17/20 6:58:00 AM**
Dil. Factor:	**1.67**	**Date of Analysis:**	**1/25/20 03:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.49	0.16	2.4
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.033	0.24	0.19	1.3
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
Freon 113	0.033	0.064	0.26	0.49
1,1-Dichloroethane	0.033	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.068	0.21	0.43
Benzene	0.084	0.49	0.27	1.6
1,2-Dichloroethane	0.033	Not Detected	0.14	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.084	1.5	0.31	5.7
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.041	0.23	0.28
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.16	0.14	0.72
m,p-Xylene	0.067	0.56	0.29	2.4
o-Xylene	0.033	0.21	0.14	0.93
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: IAQ_SC1_011620

Lab ID#: 2001476A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012513**	**Date of Collection:**	**1/16/20 4:07:00 PM**
Dil. Factor:	**1.65**	**Date of Analysis:**	**1/25/20 03:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	140 E	3.9	330 E
Methylene Chloride	0.33	0.67	1.1	2.3

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: IAQ_SC1_011620

Lab ID#: 2001476A-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012513sim**	**Date of Collection:**	**1/16/20 4:07:00 PM**
Dil. Factor:	**1.65**	**Date of Analysis:**	**1/25/20 03:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.49	0.16	2.4
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.24	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
Freon 113	0.033	0.062	0.25	0.48
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.073	0.21	0.46
Benzene	0.082	1.2	0.26	3.8
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.082	3.2	0.31	12
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.51	0.14	2.2
m,p-Xylene	0.066	1.8	0.29	7.9
o-Xylene	0.033	0.61	0.14	2.6
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: IAQ_SC2_011620

Lab ID#: 2001476A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012514**	**Date of Collection:**	**1/16/20 4:05:00 PM**
Dil. Factor:	**1.60**	**Date of Analysis:**	**1/25/20 04:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	260 E	3.8	620 E
Methylene Chloride	0.32	1.0	1.1	3.6

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	81	70-130

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Client Sample ID: IAQ_SC2_011620

Lab ID#: 2001476A-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012514sim**	**Date of Collection:**	**1/16/20 4:05:00 PM**
Dil. Factor:	**1.60**	**Date of Analysis:**	**1/25/20 04:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.49	0.16	2.4
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Freon 11	0.032	0.24	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
Freon 113	0.032	0.063	0.24	0.48
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	0.034	0.16	0.17
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.074	0.20	0.47
Benzene	0.080	1.1	0.26	3.6
1,2-Dichloroethane	0.032	0.031 J	0.13	0.13 J
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.14	Not Detected
Toluene	0.080	3.8	0.30	14
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
Chlorobenzene	0.032	0.13	0.15	0.61
Ethyl Benzene	0.032	1.0	0.14	4.4
m,p-Xylene	0.064	3.7	0.28	16
o-Xylene	0.032	1.1	0.14	4.9
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	78	70-130

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Client Sample ID: IAQ_SC2_011620K

Lab ID#: 2001476A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012515**	**Date of Collection:**	**1/16/20 4:05:00 PM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**1/25/20 04:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	260 E	3.8	610 E
Methylene Chloride	0.32	0.71	1.1	2.5

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	81	70-130

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Client Sample ID: IAQ_SC2_011620K

Lab ID#: 2001476A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012515sim**	**Date of Collection:**	**1/16/20 4:05:00 PM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**1/25/20 04:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.50	0.16	2.4
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Freon 11	0.032	0.24	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
Freon 113	0.032	0.064	0.24	0.49
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.12	Not Detected
Chloroform	0.032	0.032	0.15	0.16
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.088	0.20	0.55
Benzene	0.079	1.2	0.25	3.8
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.14	Not Detected
Toluene	0.079	3.1	0.30	12
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	Not Detected	0.21	Not Detected
Chlorobenzene	0.032	0.16	0.14	0.72
Ethyl Benzene	0.032	1.1	0.14	4.7
m,p-Xylene	0.063	4.0	0.27	17
o-Xylene	0.032	1.2	0.14	5.2
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	78	70-130

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Client Sample ID: IAQ_SC3_011620

Lab ID#: 2001476A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012516**	**Date of Collection:**	**1/16/20 4:10:00 PM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**1/25/20 05:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	160 E	3.9	380 E
Methylene Chloride	0.33	0.68	1.1	2.4

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	86	70-130

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Client Sample ID: IAQ_SC3_011620

Lab ID#: 2001476A-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012516sim**	**Date of Collection:**	**1/16/20 4:10:00 PM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**1/25/20 05:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.24	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
Freon 113	0.033	0.063	0.25	0.48
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.036	0.16	0.18
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.074	0.20	0.47
Benzene	0.082	1.1	0.26	3.6
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.082	2.9	0.31	11
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Chlorobenzene	0.033	0.036	0.15	0.16
Ethyl Benzene	0.033	0.59	0.14	2.6
m,p-Xylene	0.065	2.1	0.28	9.0
o-Xylene	0.033	0.69	0.14	3.0
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	85	70-130

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Client Sample ID: IAQ_AA3_011620

Lab ID#: 2001476A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012517**	**Date of Collection:**	**1/16/20 4:12:00 PM**
Dil. Factor:	**1.59**	**Date of Analysis:**	**1/25/20 06:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	12	3.8	28
Methylene Chloride	0.32	0.94	1.1	3.2

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: IAQ_AA3_011620

Lab ID#: 2001476A-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012517sim**	**Date of Collection:**	**1/16/20 4:12:00 PM**
Dil. Factor:	**1.59**	**Date of Analysis:**	**1/25/20 06:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.51	0.16	2.5
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Freon 11	0.032	0.24	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
Freon 113	0.032	0.064	0.24	0.49
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.075	0.20	0.47
Benzene	0.080	0.45	0.25	1.4
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.14	Not Detected
Toluene	0.080	0.67	0.30	2.5
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
Chlorobenzene	0.032	Not Detected	0.15	Not Detected
Ethyl Benzene	0.032	0.11	0.14	0.47
m,p-Xylene	0.064	0.33	0.28	1.4
o-Xylene	0.032	0.13	0.14	0.56
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: IAQ_SUN1_011720

Lab ID#: 2001476A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012518**	**Date of Collection:**	**1/17/20 3:15:00 PM**
Dil. Factor:	**1.59**	**Date of Analysis:**	**1/25/20 06:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	7.9	3.8	19
Methylene Chloride	0.32	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_SUN1_011720

Lab ID#: 2001476A-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012518sim**	**Date of Collection:**	**1/17/20 3:15:00 PM**
Dil. Factor:	**1.59**	**Date of Analysis:**	**1/25/20 06:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.49	0.16	2.4
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Freon 11	0.032	0.23	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
Freon 113	0.032	0.063	0.24	0.48
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.063	0.20	0.40
Benzene	0.080	0.29	0.25	0.93
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.14	Not Detected
Toluene	0.080	0.44	0.30	1.7
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.069	0.22	0.47
Chlorobenzene	0.032	Not Detected	0.15	Not Detected
Ethyl Benzene	0.032	0.055	0.14	0.24
m,p-Xylene	0.064	0.18	0.28	0.78
o-Xylene	0.032	0.072	0.14	0.31
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: IAQ_SUN2_011720

Lab ID#: 2001476A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012519**	**Date of Collection:**	**1/17/20 3:17:00 PM**
Dil. Factor:	**1.67**	**Date of Analysis:**	**1/25/20 07:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	7.4	4.0	18
Methylene Chloride	0.33	Not Detected	1.2	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: IAQ_SUN2_011720

Lab ID#: 2001476A-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012519sim**	**Date of Collection:**	**1/17/20 3:17:00 PM**
Dil. Factor:	**1.67**	**Date of Analysis:**	**1/25/20 07:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.033	0.24	0.19	1.3
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
Freon 113	0.033	0.064	0.26	0.49
1,1-Dichloroethane	0.033	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.076	0.21	0.48
Benzene	0.084	0.24	0.27	0.78
1,2-Dichloroethane	0.033	Not Detected	0.14	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.084	0.39	0.31	1.5
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.23	Not Detected
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.052	0.14	0.23
m,p-Xylene	0.067	0.17	0.29	0.74
o-Xylene	0.033	0.067	0.14	0.29
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001476A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012507a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 11:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.0	Not Detected	2.4	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001476A-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012507sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 11:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: CCV

Lab ID#: 2001476A-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012505**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 10:09 AM**

Compound	**%Recovery**
Acetone	112
Methylene Chloride	103

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: CCV

Lab ID#: 2001476A-14B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012505sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 10:09 AM**

Compound	%Recovery
Freon 12	105
Vinyl Chloride	107
Freon 11	112
1,1-Dichloroethene	100
Freon 113	94
1,1-Dichloroethane	115
cis-1,2-Dichloroethene	103
Chloroform	111
1,1,1-Trichloroethane	106
Carbon Tetrachloride	110
Benzene	104
1,2-Dichloroethane	117
Trichloroethene	96
trans-1,3-Dichloropropene	114
Toluene	98
1,1,2-Trichloroethane	108
Tetrachloroethene	94
Chlorobenzene	101
Ethyl Benzene	98
m,p-Xylene	85
o-Xylene	86
1,4-Dichlorobenzene	82
1,2-Dichlorobenzene	89
1,1,2,2-Tetrachloroethane	112
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	84	70-130

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Client Sample ID: LCS

Lab ID#: 2001476A-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 08:52 AM**	

Compound	**%Recovery**	**Method Limits**
Acetone	113	70-130
Methylene Chloride	104	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: LCSD

Lab ID#: 2001476A-15AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 09:30 AM**	

Compound	**%Recovery**	**Method Limits**
Acetone	113	70-130
Methylene Chloride	107	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	86	70-130

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Client Sample ID: LCS

Lab ID#: 2001476A-15B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012503sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 08:52 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	107	70-130
Vinyl Chloride	111	70-130
Freon 11	111	70-130
1,1-Dichloroethene	97	70-130
Freon 113	93	70-130
1,1-Dichloroethane	113	70-130
cis-1,2-Dichloroethene	93	70-130
Chloroform	109	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	88	60-140
Benzene	103	70-130
1,2-Dichloroethane	116	70-130
Trichloroethene	98	70-130
trans-1,3-Dichloropropene	112	70-130
Toluene	99	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	93	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	86	70-130
o-Xylene	88	70-130
1,4-Dichlorobenzene	83	70-130
1,2-Dichlorobenzene	87	70-130
1,1,2,2-Tetrachloroethane	111	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	112	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	84	70-130

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Client Sample ID: LCSD

Lab ID#: 2001476A-15BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012504sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 09:30 AM**	

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Vinyl Chloride	109	70-130
Freon 11	110	70-130
1,1-Dichloroethene	97	70-130
Freon 113	93	70-130
1,1-Dichloroethane	113	70-130
cis-1,2-Dichloroethene	93	70-130
Chloroform	109	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	88	60-140
Benzene	102	70-130
1,2-Dichloroethane	115	70-130
Trichloroethene	97	70-130
trans-1,3-Dichloropropene	112	70-130
Toluene	97	70-130
1,1,2-Trichloroethane	108	70-130
Tetrachloroethene	93	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	84	70-130
o-Xylene	86	70-130
1,4-Dichlorobenzene	83	70-130
1,2-Dichlorobenzene	88	70-130
1,1,2,2-Tetrachloroethane	112	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	111	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	83	70-130

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2001476

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: demaximis PID:
Project Name: Omega-OU1 IAQ Jan. 2020
Project Manager: Jaime Dinello P.O.# 3139
Sampler: Khalid Azhar
Site Name: Omega Chemical

Special Instructions/Notes:
REPORT IN UG/MG AND PPB. Refer to project specs.

Turnaround Time (Rush surcharges may apply): 10 day

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt	Lab Use Only Final (psig) Gas: N_2 / He	Requested Analyses TO-15 SIM			
01A	IAQ_B1_01 16 20	6L2193	23329	1/16/20	0741	1/16/20	1541	-29.5	-7			X			
02A	IAQ_B1_01 16 20K	6L1949	23139	1/16/20	0741	1/16/20	1541	-27	-7			X			
03A	IAQ_B2_01 16 20	6L2414	23156	1/16/20	0738	1/16/20	1538	-30	-6.5			X			
04A	IAQ_B3_01 16 20	6L0150	24248	1/16/20	0739	1/16/20	1539	-27	-6			X			
05A	IAQ_MR1_01 17 20	6L1141	23164	1/17/20	0658	1/17/20		-28				X			
06A	IAQ_SC1_01 16 20	6L1291	23582	1/16/20	0807	1/16/20	1607	-30	-8			X			
07A	IAQ_SC2_01 16 20	6L0653	23619	1/16/20	0805	1/16/20	1605	-30	-7			X			
08A	IAQ_SC2_01 16 20K	6L1866	23672	1/16/20	0805	1/16/20	1605	-27	-6			X			
09A	IAQ_SC3_01 16 20	6L1810	24837	1/16/20	0810	1/16/20	1610	-26	-7			X			
10A	IAQ_AA3_01 16 20	6L2021	23105	1/16/20	0812	1/16/20	1612	-29	-6			X			
11A	IAQ_SUN1_01 17 20	6L2273	23712	1/17/20	0715	1/17/20	1515	-30	-6.5			X			
12A	IAQ_SUN2_01 17 20	6L0011	23655	1/17/20	0717	1/17/20	1517	-28	-6			X			
	IAQ_AA95_01 17 20	6L0623	23744	1/17/20	0718	1/17/20	1518	-29	-4			X			
	IAQ_TP1_01 16 20	6L2409	24682	1/16/20	0821	1/16/20	1624	-30	-7			X			
	IAQ_TP3_01 16 20	6L0340	23303	1/16/20	0820	1/16/20	1624	-30	-4			X			
	IAQ_AA1_01 16 20	6L2216	23817	1/16/20	0824	1/16/20	1624	-29	-7			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
JHP	1/17/20	1630	EATL	1/21/20	0915

Lab Use Only

Shipper Name: FED EX | Custody Seals Intact? Yes No None | Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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2/3/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega-OU1 IAQ Jan. 2020
Project #:
Workorder #: 2001476B

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/21/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2001476B

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	3139-GL 6403
FAX:	949.679.9078	**PROJECT #**	Omega-OU1 IAQ Jan. 2020
DATE RECEIVED:	01/21/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/03/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
13A	IAQ_AA95_011720	Modified TO-15	2.8 "Hg	5.1 psi
13B	IAQ_AA95_011720	Modified TO-15	2.8 "Hg	5.1 psi
14A	IAQ_TP1_011620	Modified TO-15	4.9 "Hg	4.8 psi
14B	IAQ_TP1_011620	Modified TO-15	4.9 "Hg	4.8 psi
15A	IAQ_TP3_011620	Modified TO-15	4.5 "Hg	4.9 psi
15B	IAQ_TP3_011620	Modified TO-15	4.5 "Hg	4.9 psi
16A	IAQ_AA1_011620	Modified TO-15	5.3 "Hg	5 psi
16B	IAQ_AA1_011620	Modified TO-15	5.3 "Hg	5 psi
17A	Lab Blank	Modified TO-15	NA	NA
17B	Lab Blank	Modified TO-15	NA	NA
18A	CCV	Modified TO-15	NA	NA
18B	CCV	Modified TO-15	NA	NA
19A	LCS	Modified TO-15	NA	NA
19AA	LCSD	Modified TO-15	NA	NA
19B	LCS	Modified TO-15	NA	NA
19BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/03/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
DeMaximis, Inc
Workorder# 2001476B

Four 6 Liter Summa Canister (100% SIM Ambient) samples were received on January 21, 2020. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Dilution was performed on sample IAQ_TP3_011620 due to the presence of high level target species.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_AA95_011720

Lab ID#: 2001476B-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.5	3.6	3.5	8.5

Client Sample ID: IAQ_AA95_011720

Lab ID#: 2001476B-13B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.030	0.50	0.15	2.4
Freon 11	0.030	0.24	0.17	1.3
Freon 113	0.030	0.064	0.23	0.49
Carbon Tetrachloride	0.030	0.079	0.19	0.49
Benzene	0.074	0.24	0.24	0.77
Toluene	0.074	0.42	0.28	1.6
Ethyl Benzene	0.030	0.064	0.13	0.28
m,p-Xylene	0.060	0.21	0.26	0.90
o-Xylene	0.030	0.078	0.13	0.34

Client Sample ID: IAQ_TP1_011620

Lab ID#: 2001476B-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	44	3.8	100
Methylene Chloride	0.32	1.4	1.1	4.9

Client Sample ID: IAQ_TP1_011620

Lab ID#: 2001476B-14B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.48	0.16	2.4
Freon 11	0.032	0.24	0.18	1.3
Freon 113	0.032	0.060	0.24	0.46
Chloroform	0.032	0.055	0.15	0.27
Carbon Tetrachloride	0.032	0.073	0.20	0.46

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_TP1_011620

Lab ID#: 2001476B-14B

Benzene	0.079	2.2	0.25	7.2
1,2-Dichloroethane	0.032	0.034	0.13	0.14
Toluene	0.079	13	0.30	50
Tetrachloroethene	0.032	0.078	0.21	0.53
Ethyl Benzene	0.032	2.2	0.14	9.6
m,p-Xylene	0.063	8.6	0.27	37
o-Xylene	0.032	3.3	0.14	14

Client Sample ID: IAQ_TP3_011620

Lab ID#: 2001476B-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	7.8	73	19	170
Methylene Chloride	1.6	10	5.4	36

Client Sample ID: IAQ_TP3_011620

Lab ID#: 2001476B-15B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.49	0.78	2.4
Freon 11	0.16	0.24	0.88	1.3
Benzene	0.39	15	1.2	48
Toluene	0.39	100	1.5	380
Tetrachloroethene	0.16	0.70	1.1	4.8
Ethyl Benzene	0.16	16	0.68	69
m,p-Xylene	0.31	63	1.4	270
o-Xylene	0.16	24	0.68	100

Client Sample ID: IAQ_AA1_011620

Lab ID#: 2001476B-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	16	3.9	38

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_AA1_011620

Lab ID#: 2001476B-16B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.4
Freon 11	0.033	0.23	0.18	1.3
Freon 113	0.033	0.063	0.25	0.48
Carbon Tetrachloride	0.033	0.073	0.20	0.46
Benzene	0.082	0.35	0.26	1.1
Toluene	0.082	1.1	0.31	4.2
Ethyl Benzene	0.033	0.11	0.14	0.46
m,p-Xylene	0.065	0.32	0.28	1.4
o-Xylene	0.033	0.13	0.14	0.56

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Client Sample ID: IAQ_AA95_011720

Lab ID#: 2001476B-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012520**	**Date of Collection:**	**1/17/20 3:18:00 PM**
Dil. Factor:	**1.49**	**Date of Analysis:**	**1/25/20 08:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.5	3.6	3.5	8.5
Methylene Chloride	0.30	Not Detected	1.0	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_AA95_011720

Lab ID#: 2001476B-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012520sim**	**Date of Collection:**	**1/17/20 3:18:00 PM**
Dil. Factor:	**1.49**	**Date of Analysis:**	**1/25/20 08:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.030	0.50	0.15	2.4
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Freon 11	0.030	0.24	0.17	1.3
1,1-Dichloroethene	0.015	Not Detected	0.059	Not Detected
Freon 113	0.030	0.064	0.23	0.49
1,1-Dichloroethane	0.030	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
Chloroform	0.030	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.030	0.079	0.19	0.49
Benzene	0.074	0.24	0.24	0.77
1,2-Dichloroethane	0.030	Not Detected	0.12	Not Detected
Trichloroethene	0.030	Not Detected	0.16	Not Detected
trans-1,3-Dichloropropene	0.030	Not Detected	0.14	Not Detected
Toluene	0.074	0.42	0.28	1.6
1,1,2-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	Not Detected	0.20	Not Detected
Chlorobenzene	0.030	Not Detected	0.14	Not Detected
Ethyl Benzene	0.030	0.064	0.13	0.28
m,p-Xylene	0.060	0.21	0.26	0.90
o-Xylene	0.030	0.078	0.13	0.34
1,4-Dichlorobenzene	0.030	Not Detected	0.18	Not Detected
1,2-Dichlorobenzene	0.030	Not Detected	0.18	Not Detected
1,1,2,2-Tetrachloroethane	0.030	Not Detected	0.20	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_TP1_011620

Lab ID#: 2001476B-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012521**	**Date of Collection:**	**1/16/20 4:24:00 PM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**1/25/20 08:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	44	3.8	100
Methylene Chloride	0.32	1.4	1.1	4.9

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	84	70-130

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Client Sample ID: IAQ_TP1_011620

Lab ID#: 2001476B-14B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012521sim**	**Date of Collection:**	**1/16/20 4:24:00 PM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**1/25/20 08:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.48	0.16	2.4
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Freon 11	0.032	0.24	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
Freon 113	0.032	0.060	0.24	0.46
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.12	Not Detected
Chloroform	0.032	0.055	0.15	0.27
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.073	0.20	0.46
Benzene	0.079	2.2	0.25	7.2
1,2-Dichloroethane	0.032	0.034	0.13	0.14
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.14	Not Detected
Toluene	0.079	13	0.30	50
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.078	0.21	0.53
Chlorobenzene	0.032	Not Detected	0.14	Not Detected
Ethyl Benzene	0.032	2.2	0.14	9.6
m,p-Xylene	0.063	8.6	0.27	37
o-Xylene	0.032	3.3	0.14	14
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	82	70-130

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Client Sample ID: IAQ_TP3_011620

Lab ID#: 2001476B-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012522**	**Date of Collection:**	**1/16/20 4:24:00 PM**
Dil. Factor:	**7.85**	**Date of Analysis:**	**1/25/20 09:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	7.8	73	19	170
Methylene Chloride	1.6	10	5.4	36

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	82	70-130

eurofins | Air Toxics

Client Sample ID: IAQ_TP3_011620

Lab ID#: 2001476B-15B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012522sim**	**Date of Collection:**	**1/16/20 4:24:00 PM**
Dil. Factor:	**7.85**	**Date of Analysis:**	**1/25/20 09:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.49	0.78	2.4
Vinyl Chloride	0.078	Not Detected	0.20	Not Detected
Freon 11	0.16	0.24	0.88	1.3
1,1-Dichloroethene	0.078	Not Detected	0.31	Not Detected
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.99	Not Detected
Benzene	0.39	15	1.2	48
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.84	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.71	Not Detected
Toluene	0.39	100	1.5	380
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	0.70	1.1	4.8
Chlorobenzene	0.16	Not Detected	0.72	Not Detected
Ethyl Benzene	0.16	16	0.68	69
m,p-Xylene	0.31	63	1.4	270
o-Xylene	0.16	24	0.68	100
1,4-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	80	70-130

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Client Sample ID: IAQ_AA1_011620

Lab ID#: 2001476B-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012523**	**Date of Collection:**	**1/16/20 4:24:00 PM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**1/25/20 10:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	16	3.9	38
Methylene Chloride	0.33	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: IAQ_AA1_011620

Lab ID#: 2001476B-16B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012523sim**	**Date of Collection:**	**1/16/20 4:24:00 PM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**1/25/20 10:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.4
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.23	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
Freon 113	0.033	0.063	0.25	0.48
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.073	0.20	0.46
Benzene	0.082	0.35	0.26	1.1
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.082	1.1	0.31	4.2
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.11	0.14	0.46
m,p-Xylene	0.065	0.32	0.28	1.4
o-Xylene	0.033	0.13	0.14	0.56
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001476B-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 11:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.0	Not Detected	2.4	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001476B-17B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012507sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 11:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: CCV

Lab ID#: 2001476B-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 10:09 AM**	

Compound	**%Recovery**
Acetone	112
Methylene Chloride	103

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: CCV

Lab ID#: 2001476B-18B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012505sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 10:09 AM**

Compound	%Recovery
Freon 12	105
Vinyl Chloride	107
Freon 11	112
1,1-Dichloroethene	100
Freon 113	94
1,1-Dichloroethane	115
cis-1,2-Dichloroethene	103
Chloroform	111
1,1,1-Trichloroethane	106
Carbon Tetrachloride	110
Benzene	104
1,2-Dichloroethane	117
Trichloroethene	96
trans-1,3-Dichloropropene	114
Toluene	98
1,1,2-Trichloroethane	108
Tetrachloroethene	94
Chlorobenzene	101
Ethyl Benzene	98
m,p-Xylene	85
o-Xylene	86
1,4-Dichlorobenzene	82
1,2-Dichlorobenzene	89
1,1,2,2-Tetrachloroethane	112
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	84	70-130

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Client Sample ID: LCS

Lab ID#: 2001476B-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 08:52 AM**	

Compound	**%Recovery**	**Method Limits**
Acetone	113	70-130
Methylene Chloride	104	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: LCSD

Lab ID#: 2001476B-19AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 09:30 AM**	

Compound	**%Recovery**	**Method Limits**
Acetone	113	70-130
Methylene Chloride	107	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	86	70-130

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Client Sample ID: LCS

Lab ID#: 2001476B-19B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012503sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 08:52 AM**	

Compound	%Recovery	Method Limits
Freon 12	107	70-130
Vinyl Chloride	111	70-130
Freon 11	111	70-130
1,1-Dichloroethene	97	70-130
Freon 113	93	70-130
1,1-Dichloroethane	113	70-130
cis-1,2-Dichloroethene	93	70-130
Chloroform	109	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	88	60-140
Benzene	103	70-130
1,2-Dichloroethane	116	70-130
Trichloroethene	98	70-130
trans-1,3-Dichloropropene	112	70-130
Toluene	99	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	93	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	86	70-130
o-Xylene	88	70-130
1,4-Dichlorobenzene	83	70-130
1,2-Dichlorobenzene	87	70-130
1,1,2,2-Tetrachloroethane	111	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	84	70-130

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Client Sample ID: LCSD

Lab ID#: 2001476B-19BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012504sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/25/20 09:30 AM**	

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Vinyl Chloride	109	70-130
Freon 11	110	70-130
1,1-Dichloroethene	97	70-130
Freon 113	93	70-130
1,1-Dichloroethane	113	70-130
cis-1,2-Dichloroethene	93	70-130
Chloroform	109	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	88	60-140
Benzene	102	70-130
1,2-Dichloroethane	115	70-130
Trichloroethene	97	70-130
trans-1,3-Dichloropropene	112	70-130
Toluene	97	70-130
1,1,2-Trichloroethane	108	70-130
Tetrachloroethene	93	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	84	70-130
o-Xylene	86	70-130
1,4-Dichlorobenzene	83	70-130
1,2-Dichlorobenzene	88	70-130
1,1,2,2-Tetrachloroethane	112	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	111	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	83	70-130

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only
PID: _____ Workorder #: 2001476

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: demaximis PID:
Project Name: Omega-OU1 IAQ Jan. 2020
Project Manager: Jaime Dinello P.O.# 3139
Sampler: Khalid Azhar
Site Name: Omega Chemical

Special Instructions/Notes:
REPORT IN UG/MG AND PPB. Refer to project specs.

Turnaround Time (Rush surcharges may apply): 10 day

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt	Lab Use Only Final (psig) Gas: N_2 / He	Requested Analyses TO-15 SIM			
	IAQ_B1_01 16 20	6L2193	23329	1/16/20	0741	1/16/20	1541	-29.5	-7			X			
	IAQ_B1_01 16 20K	6L1949	23139	1/16/20	0741	1/16/20	1541	-27	-7			X			
	IAQ_B2_01 16 20	6L2414	23156	1/16/20	0738	1/16/20	1538	-30	-6.5			X			
	IAQ_B3_01 16 20	6L0150	24248	1/16/20	0739	1/16/20	1539	-27	-6			X			
	IAQ_MR1_01 17 20	6L1141	23164	1/17/20	0658	1/17/20		-28				X			
	IAQ_SC1_01 16 20	6L1291	23582	1/16/20	0807	1/16/20	1607	-30	-8			X			
	IAQ_SC2_01 16 20	6L0653	23619	1/16/20	0805	1/16/20	1605	-30	-7			X			
	IAQ_SC2_01 16 20K	6L1866	23672	1/16/20	0805	1/16/20	1605	-27	-6			X			
	IAQ_SC3_01 16 20	6L1810	24837	1/16/20	0810	1/16/20	1610	-26	-7			X			
	IAQ_AA3_01 16 20	6L2021	23105	1/16/20	0812	1/16/20	1612	-29	-6			X			
	IAQ_SUN1_01 17 20	6L2273	23712	1/17/20	0715	1/17/20	1515	-30	-6.5			X			
	IAQ_SUN2_01 17 20	6L0011	23655	1/17/20	0717	1/17/20	1517	-28	-6			X			
13A	IAQ_AA95_01 17 20	6L0623	23744	1/17/20	0718	1/17/20	1518	-29	-4			X			
14A	IAQ_TP1_01 16 20	6L2409	24682	1/16/20	0821	1/16/20	1624	-30	-7			X			
15A	IAQ_TP3_01 16 20	6L0340	23303	1/16/20	0820	1/16/20	1624	-30	-4			X			
16A	IAQ_AA1_01 16 20	6L2216	23817	1/16/20	0824	1/16/20	1624	-29	-7			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
JHP	1/17/20	1630	Daniel Nelson EATL	1/21/20	0915

Lab Use Only

Shipper Name: FedEx | Custody Seals Intact? Yes No None | Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

AirTECHNOLOGY
Laboratories, Inc.

February 19, 2020

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

de maximis, inc.
ATTN: Jaime Dinello
1340 Reynolds Ave., Suite 105
Irvine, CA 92614

LABORATORY TEST RESULTS

Project Reference: Omega – OU1 IAQ Jan. 2020 Annual
Project Number: 3139G
Lab Number: L012004-01

Enclosed are results for sample(s) received 1/20/20 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Acetone was not initially evaluated as a target analyte and therefore was not reviewed against QC criteria. Acetone exhibited high recoveries in the LCS/LCSD.
- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Kyle King, Jeri Rossi and Katie McGill on 2/14/20.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 1
Standard ■	48 hours ☐	EDD ■	Condition upon receipt:
Same Day ☐	72 hours ☐	EDF ☐	Sealed Yes ☐ No ☐
24 hours ☐	96 hours ☐	Level 3 ☐	Intact Yes ☐ No ☐
Other:		Level 4 ☐	Chilled _____ deg C

Project No.:	3139G
Project Name:	Omega - OU1 IAQ Jan. 2020 Annual
Report To:	Jaime Dinello
Company:	demaximis
Street:	1340 Reynolds Ave.
City/State/Zip:	Irvine, Ca 92614
Phone& Fax:	(562)756-8149
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:

Bill to:

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 SIM					
L012084-81	IAQ_TP1_01 16 20K2	1/16/20	0821	6L	Air	None	X					

Form-24 Rev. 1 QA Manager 2/22/10

AUTHORIZATION TO PERFORM WORK: JHA	COMPANY	DATE/TIME: 1/20/20 0939	
SAMPLED BY: Khalid Azhar	COMPANY: JHA	DATE/TIME: 1/20/20 0939	
RELINQUISHED BY: [signature]	DATE/TIME: 1/20/20 0939	RECEIVED BY: Juana Rodriguez	DATE/TIME: 1/20/20 9:39
RELINQUISHED BY: Juana Rodriguez	DATE/TIME: 1/20/20 10:08	RECEIVED BY: [signature]	DATE/TIME: 1/20/20 1008
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS REPORT IN UG/MG AND PPB

Refer to project specs.

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

Client: de maximis, Inc.
Attn: Jaime Dinello
Project Name: Omega-OUI IAQ Jan. 2020 Annual
Project No.: 3139G
Date Received: 01/20/20
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15 SIM

Lab No.:	L012004-01							
Client Sample I.D.:	IAQ_TP1_011620 K2							
Date/Time Sampled:	1/16/20 8:21							
Date/Time Analyzed:	1/22/20 16:56							
QC Batch No.:	200122MS2A1							
Analyst Initials:	DT							
Dilution Factor:	1.0							
ANALYTE	Result ug/m3	RL ug/m3						
Dichlorodifluoromethane (12)	2.1	0.049						
Vinyl Chloride	ND	0.013						
Trichlorofluoromethane (11)	1.2	0.11						
1,1,2-Cl 1,2,2-F ethane (113)	0.50	0.15						
Acetone	58	1.2						
1,1-Dichloroethene	ND	0.020						
Methylene Chloride	3.2	0.17						
t-Butyl Methyl Ether	ND	0.36						
t-1,2-Dichloroethene	ND	0.040						
1,1-Dichloroethane	ND	0.040						
c-1,2-Dichloroethene	ND	0.040						
Chloroform	0.18	0.049						
1,1,1-Trichloroethane	ND	0.055						
Carbon Tetrachloride	0.46	0.063						
Benzene	5.9	0.16						
1,2-Dichloroethane	ND	0.040						
Trichloroethene	ND	0.054						
Toluene	46 d	0.075						
t-1,3-Dichloropropene	ND	0.045						
1,1,2-Trichloroethane	ND	0.055						
Tetrachloroethene	0.48	0.068						
Chlorobenzene	ND	0.092						
Ethylbenzene	10	0.087						
p,&m-Xylene	36	0.087						
o-Xylene	17	0.087						
1,1,2,2-Tetrachloroethane	ND	0.14						
1,4-Dichlorobenzene	0.16	0.12						
1,2-Dichlorobenzene	ND	0.12						

ND = Not Detected (below RL)
RL = Reporting Limit
d = Analyte reported from secondary dilution

Reviewed/Approved By: _____ Operations Manager Date 2/19/20

The cover letter is an integral part of this analytical report

Client: de maximis, Inc.
Attn: Jaime Dinello
Project Name: Omega-OUI IAQ Jan. 2020 Annual
Project No.: 3139G
Date Received: 01/20/20
Matrix: Air
Reporting Units: ppbv

EPA Method TO15 SIM

Lab No.:	L012004-01							
Client Sample I.D.:	IAQ_TP1_011620 K2							
Date/Time Sampled:	1/16/20 8:21							
Date/Time Analyzed:	1/22/20 16:56							
QC Batch No.:	200122MS2A1							
Analyst Initials:	DT							
Dilution Factor:	1.0							
ANALYTE	**Result ppbv**	**RL ppbv**						
Dichlorodifluoromethane (12)	0.42	0.010						
Vinyl Chloride	ND	0.0050						
Trichlorofluoromethane (11)	0.21	0.020						
1,1,2-Cl 1,2,2-F ethane (113)	0.065	0.020						
Acetone	24	0.50						
1,1-Dichloroethene	ND	0.0050						
Methylene Chloride	0.93	0.050						
t-Butyl Methyl Ether	ND	0.10						
t-1,2-Dichloroethene	ND	0.010						
1,1-Dichloroethane	ND	0.010						
c-1,2-Dichloroethene	ND	0.010						
Chloroform	0.037	0.010						
1,1,1-Trichloroethane	ND	0.010						
Carbon Tetrachloride	0.073	0.010						
Benzene	1.9	0.050						
1,2-Dichloroethane	ND	0.010						
Trichloroethene	ND	0.010						
Toluene	12 d	0.020						
t-1,3-Dichloropropene	ND	0.010						
1,1,2-Trichloroethane	ND	0.010						
Tetrachloroethene	0.071	0.010						
Chlorobenzene	ND	0.020						
Ethylbenzene	2.3	0.020						
p,&m-Xylene	8.2	0.020						
o-Xylene	3.9	0.020						
1,1,2,2-Tetrachloroethane	ND	0.020						
1,4-Dichlorobenzene	0.026	0.020						
1,2-Dichlorobenzene	ND	0.020						

ND = Not Detected (below RL)
RL = Reporting Limit
d = Analyte reported from secondary dilution

Reviewed/Approved By: _____ Operations Manager Date 2/19/20

The cover letter is an integral part of this analytical report

QC Batch No: 200122MS2A1
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15 SIM
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	1/22/20 11:00			1/22/20 9:44		1/22/20 10:20					
Analyst Initials:	VM			VM		VM					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result ug/m3	RL ug/m3	SPIKE AMT. ug/m3	Result ug/m3	% Rec.	Result ug/m3	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Dichlorodifluoromethane (12)	ND	0.049	2.5	2.49	101	2.24	91	10.6	70	130	30
Vinyl Chloride	ND	0.013	1.28	1.46	115	1.30	102	11.6	70	130	30
Trichlorofluoromethane (11)	ND	0.11	2.81	2.91	103	2.69	96	7.7	70	130	30
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.15	3.83	4.07	106	3.69	96	9.9	70	130	30
Acetone	ND	1.2	1.19	2.51	211 *	2.29	193 *	9.0	70	130	30
1,1-Dichloroethene	ND	0.020	1.98	2.07	104	1.89	95	9.2	70	130	30
Methylene Chloride	ND	0.17	1.74	1.74	100	1.60	92	8.4	70	130	30
t-Butyl Methyl Ether	ND	0.36	1.80	1.78	99	1.75	97	1.8	70	130	30
t-1,2-Dichloroethene	ND	0.040	1.98	2.10	106	2.02	102	4.1	70	130	30
1,1-Dichloroethane	ND	0.040	2.02	2.12	105	1.93	95	9.1	70	130	30
c-1,2-Dichloroethene	ND	0.040	1.98	1.99	100	1.86	94	6.8	70	130	30
Chloroform	ND	0.049	2.44	2.54	104	2.35	96	8.1	70	130	30
1,1,1-Trichloroethane	ND	0.055	2.73	2.80	102	2.61	96	6.7	70	130	30
Carbon Tetrachloride	ND	0.063	3.15	3.30	105	3.09	98	6.4	70	130	30
Benzene	ND	0.16	1.60	1.48	93	1.43	90	3.6	70	130	30
1,2-Dichloroethane	ND	0.040	2.02	2.02	100	1.90	94	6.1	70	130	30
Trichloroethene	ND	0.054	2.69	2.68	100	2.53	94	5.4	70	130	30
Toluene	ND	0.075	1.88	1.67	89	1.62	86	2.7	70	130	30
t-1,3-Dichloropropene	ND	0.045	2.27	1.95	86	1.87	82	4.3	70	130	30
1,1,2-Trichloroethane	ND	0.055	2.73	2.79	102	2.62	96	6.2	70	130	30
Tetrachloroethene	ND	0.068	3.39	3.18	94	3.04	90	4.7	70	130	30
Chlorobenzene	ND	0.092	2.30	2.08	90	2.00	87	3.9	70	130	30
Ethylbenzene	ND	0.087	2.17	1.96	91	1.89	87	3.6	70	130	30
p,&m-Xylene	ND	0.087	4.34	3.49	80	3.37	78	3.5	70	130	30
o-Xylene	ND	0.087	2.17	2.19	101	2.02	93	8.1	70	130	30
1,1,2,2-Tetrachloroethane	ND	0.14	3.4	3.92	114	3.75	109	4.2	70	130	30
1,4-Dichlorobenzene	ND	0.12	3.0	3.45	115	3.29	110	4.5	70	130	30
1,2-Dichlorobenzene	ND	0.12	3.0	3.64	121	3.49	116	4.1	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit
* = Analyte is outside QC Criteria

Reviewed/Approved By: Date: 2/19/20

The cover letter is an integral part of this analytical report

QC Batch No: 200122MS2A1
Matrix: Air
Reporting Units: ppbv

EPA Method TO15 SIM
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	1/22/20 11:00			1/22/20 9:44		1/22/20 10:20					
Analyst Initials:	VM			VM		VM					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result ppbv	RL ppbv	SPIKE AMT. ppbv	Result ppbv	% Rec.	Result ppbv	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Dichlorodifluoromethane (12)	ND	0.010	0.500	0.504	101	0.453	91	10.6	70	130	30
Vinyl Chloride	ND	0.0050	0.500	0.573	115	0.510	102	11.6	70	130	30
Trichlorofluoromethane (11)	ND	0.020	0.500	0.517	103	0.479	96	7.7	70	130	30
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.020	0.500	0.531	106	0.481	96	9.9	70	130	30
Acetone	ND	0.50	0.500	1.05	211 *	0.964	193 *	9.0	70	130	30
1,1-Dichloroethene	ND	0.0050	0.500	0.522	104	0.476	95	9.2	70	130	30
Methylene Chloride	ND	0.050	0.500	0.502	100	0.462	92	8.4	70	130	30
t-Butyl Methyl Ether	ND	0.10	0.500	0.493	99	0.484	97	1.8	70	130	30
t-1,2-Dichloroethene	ND	0.010	0.500	0.530	106	0.509	102	4.1	70	130	30
1,1-Dichloroethane	ND	0.010	0.500	0.523	105	0.477	95	9.1	70	130	30
c-1,2-Dichloroethene	ND	0.010	0.500	0.501	100	0.468	94	6.8	70	130	30
Chloroform	ND	0.010	0.500	0.521	104	0.480	96	8.1	70	130	30
1,1,1-Trichloroethane	ND	0.010	0.500	0.512	102	0.479	96	6.7	70	130	30
Carbon Tetrachloride	ND	0.010	0.500	0.524	105	0.491	98	6.4	70	130	30
Benzene	ND	0.050	0.500	0.464	93	0.448	90	3.6	70	130	30
1,2-Dichloroethane	ND	0.010	0.500	0.499	100	0.469	94	6.1	70	130	30
Trichloroethene	ND	0.010	0.500	0.498	100	0.472	94	5.4	70	130	30
Toluene	ND	0.020	0.500	0.443	89	0.431	86	2.7	70	130	30
t-1,3-Dichloropropene	ND	0.010	0.500	0.429	86	0.411	82	4.3	70	130	30
1,1,2-Trichloroethane	ND	0.010	0.500	0.511	102	0.481	96	6.2	70	130	30
Tetrachloroethene	ND	0.010	0.500	0.469	94	0.448	90	4.7	70	130	30
Chlorobenzene	ND	0.020	0.500	0.451	90	0.434	87	3.9	70	130	30
Ethylbenzene	ND	0.020	0.500	0.453	91	0.436	87	3.6	70	130	30
p,&m-Xylene	ND	0.020	1.00	0.804	80	0.776	78	3.5	70	130	30
o-Xylene	ND	0.020	0.500	0.503	101	0.464	93	8.1	70	130	30
1,1,2,2-Tetrachloroethane	ND	0.020	0.500	0.571	114	0.547	109	4.2	70	130	30
1,4-Dichlorobenzene	ND	0.020	0.500	0.573	115	0.548	110	4.5	70	130	30
1,2-Dichlorobenzene	ND	0.020	0.500	0.605	121	0.581	116	4.1	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit
* = Analyte is outside QC Criteria

Reviewed/Approved By: Date: 2/19/20

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

GC/MS Raw Data Index
General Information

Lab Project No.: L012004

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Conventions and Conversions

1 ppbv = 0.001 ppmv = 0.0000001% v/v
1% v/v = 10,000 ppmv = 10,000,000 ppbv

1 ug/m^3 = 1 ng/L = ppbv x MW/24.45
1 ug/L = 1 mg/m^3 = ppmv x MW/24.45

Where **MW** is the molecular weight of the compound and 24.45 is the molar volume of ideal gas at 1 atmosphere and 25° C.

1 atmosphere = 14.6 psia = 0 psig
30" Hg = 0 psia = -14.6 psig

Standard pressure is taken as 14.6 psia at Air Technology Labs' facility.

1. Supporting Documents

a. Pressurization log (if applicable)
b. ICAL run log
c. Batch QC/Samples run log
d. Canister certification (if required)
e. Miscellaneous documents

PRESSURIZATION LOGBOOK

	Date	Sample ID	Can #	Initial Pressure	Final Pressure	Dilution Gas	Dilution Gas Lot #	Initials	ETR #	Client/ Comments	He Prefill
1	1/17/20	L011412-14	1347	9" Hg	10 psig	He	042M9612	MJ	9749	SCS	YES
2		-15	1395	6" Hg							
3		-16	N4758	10" Hg							
4		-17	3615	7" Hg							
5		-18	4697	5" Hg							
6		-19	2423	7" Hg							
7		-20	1443	10" Hg							
8	1/17/20	L011703-01	1341	5" Hg	5 psig	N2	211N9212	MJ	9764	EPA	NO
9	1/17/20	L011701-01	1	4 psig	ALREADY		PRESS	MJ	CLIENT	RTI	NO
10		-02	12	4							
11		-03	59	10							
12		-04	81	11							
13		-05	91	12							
14	1/17/20	L011702-01	1459	8" Hg	10 psig	He	042M9612	MJ	9765	FRANKLIN	YES
15		-02	3101	8" Hg							
16		-03	3150	8" Hg							
17		-04	5471	8" Hg							
18		-05	3658	8" Hg							
19		-06	2415	8" Hg							
20		-07	1477	12" Hg							
21		-08	3592	12" Hg							
22	1/22/20	L012101-01	5479	6" Hg	5 psig	N2	347N9212	MJ	9762	WATERSTONE	NO
23		-02	1421	2" Hg							
24		-03	N4757	5" Hg							
25		-04	3758	5" Hg							
26	1/22/20	L012003-01	5473	6" Hg	5 psig	N2	347N9212	MJ	9763	demarais	NO
27	1/22/20	L012004-01	51005	4" Hg	5 psig						
28											

420

Approved by/Date:_____ Air Technology Laboratories Inc. Logbook #18

GCMS Injection Logbook

Chemist: DS
Blank Lot #: 347N9212
IS/Surr Standard Code: AW1319908

Instrument ID: GCMS2
Analytical Method: SL1224 (SL200118) + SL200118A
Datafile Directory: 200113

	Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
1	1/17/20	18:33	17 Jan 001	3.5 pptv Std	AW1320219	35	–	–	1.0	3	NO		20017MS2A1
2		19:09	002	3.5							OK		
3		19:45	003	5.0		50							
4		20:22	004	20		200				4			
5		20:58	005	50	AW1320220	50							
6		21:34	006	100		100							
7		22:11	007	200		200				5			
8		22:47	008	200	AW1320205	50							
9		23:23	009	500		125							
10	1/18/20	00:01	010	1000		250				B			
11		00:37	011	2000	AW1320206	50				B			
12		01:14	012	10,000		250				12	NO	10 pptv missed from 10K	
13		01:54	013	Blank	–	250				6			
14		02:30	014	ICV	AW1319415	125							
15		03:06	015	ICV						12			
16		03:43	016	Method Blank	–	250				16			
17		04:23	017	"	–					1			
18		05:03	018	K123604-05	Battelle	373			4.0	1			
19		05:39	019	-05		93			1.0	2			
20		06:20	020	-06		360							

Approved by/Date:_____
Logbook GCMS2 #38

Air Technology Laboratories

GCMS Injection Logbook

Instrument ID: GCMS2
Analytical Method: SL 200118
Datafile Directory: 200113

Chemist: MJ
Blank Lot #: 347N9212
IS/Surr Standard Code: AW13199008

	Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
1	1/18/20	09:45	18Jan001	Blank	–	250	–	–	1.0	12	OK		200118MSZA1
2		10:24	002	3.5 ppbV ICAL	AW132019	35				3			
3		11:10	003	3.5									
4		11:37	004	5.0		50							
5		12:13	005	10		100					OK	Insert in ICAL	
6		12:57	006	20		200							
7		13:27	007	50	AW132020	50				4			
8		14:04	008	100		100							
9		–	009	–	–	–				–	–	Out of LN_2	
10	1/19/20	08:41	19Jan001	Blank	–	250	–	–	1.0	12	–	trap clear	200119MSZA1
11		09:16	002	SIM CCV	AW132020S	125				5	OK		
12		09:52	003	ICV/LCS	AW131941S					6	NO		
13		10:27	004	LCSD						6			
14		11:05	005	Method Blank	–	250				16	OK		
15		11:46	006	K123004-05	Battelle	373			1.0	1	OK	Acetone o/r	
16		12:22	007	-05		93			4.0	1			
17		13:02	008	-06		360			1.0	2			
18		13:40	009	ICV/LCS	AW131951Z	125				6	OK		
19		14:16	010	LCSD						6			
20		15:18	011	SIM Scan	35-45	250				1	OK		

Approved by/Date:_____
Logbook GCMS2 #38

Air Technology Laboratories

GCMS Injection Logbook

Instrument ID: GCMS2
Analytical Method: TO 200116 / SL 200118 / SL200118A
Datafile Directory: 200120

Chemist: [illegible]
Blank Lot #: 347N9212
IS/Surr Standard Code: AW1319908

	Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
1	1/21/20	23:07	21JAN021	LCSD	AW1320207	50	—	—	1.0	C	OK	Std Wst. Naph *	200121MS2A1
2	1/21/20	23:46	22	Sim Screen	6012	200	-	-	1.0	13	OK		—
3	1/22/20	00:24	23	-"-	6012					13			
4		01:00	24	-"-	5199					14			
5		01:40	25	-"-	5954					15			
6		02:20	26	-"-	7143					16			
7		02:54	27	-"-	6053					1			
8		03:33	28	-"-	5979					2			
9	1/22/20	08:46	22JAN021	Sim CCV	AW1320205	125	-	-	-	1	OK	EM 1729 → 1706	200122MS2A
10		09:44	02	lcs	AW1319415					1			
11		10:20	03	lcsd						1			
12		11:00	04	Method Bl	—	200				14			
13		11:49	05	L012101-01	Water	420	19.6 / 11.68			2	OK		
14		12:30	06	-02		360	13.63			1	NO	Setup on Teamar #2	
15		14:02	07	-03		403	12.17			14	OK		
16		14:43	08	-04			12.17			15	OK		
17		15:36	09	-02		360	13.63			1	OK	TCE O/R	
18		16:16	10	L012003-01	de matrix	420	19.6 / 11.68			13	OK	~~MEBE~~ O/R CH_2Cl_2 *	
19		16:56	11	L012004-01		387	19.6 / 12.65			16	OK	Toluene O/R	
20		17:39	12	L012003-01		105	11.68			13	OK		

Approved by/Date:_____
Logbook GCMS2 #38

Air Technology Laboratories

L012004
Page 12 of 112

Page 56 of 202

GCMS Injection Logbook

Instrument ID: GCMS2
Analytical Method: SL200118A / TO20
Datafile Directory: 200120

Chemist: DT
Blank Lot #: 347N9212
IS/Surr Standard Code: AW1319908

	Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
1	1/22/20	18:15	22JAN013	L012004-01	Demaxim ~~103~~	105	19.6/12.65	-	3.0	16	OK		200122MS2A1
2		18:53	14	Screen can	A8081	200	-		0.2		OK	200110 CC1A2	—
3		19:33	15	-"-	3156							14 CC1 A2	
4		20:14	16	-"-	A7672								
5		20:54	17	-"-	A8089							17 CC1 A3	
6		21:34	18	-"-	3163								
7		22:15	19	-"-	A7664							17 CC1 A2	
8		22:55	20	-"-	9173							22 CC1 A1	
9	1/23/20	08:49	21	-"-	A8057							22 CC1 A2	
10		09:32	22	-"-	A8100								
11	1/23/20	10:08	23JAN001	Sim CCV	AW1320205	125	-	-	1.0	2	OK		200123MS2A1
12		10:43	02	LCS	AW1319415					3	OK		
13		11:20	03	LCSD							OK		
14		12:11	04	Method Bl	-	250				8	OK		
15		12:46	05	L012101-02	Waterst	120	19.6/13.63		3	1	OK		
16													
17													
18													
19													
20													

Approved by/Date:_____
Logbook GCMS2 #38

Air Technology Laboratories

Air Technology Laboratories

Canister Certification for Cleanliness

Date: 1/10/20 Batch: 200110CC1A4

Data File(s): 11JAN005, 11JAN003

Screen Level: TO15(0.2 ppbv) _____ **TO15(SIM) Low Level** X

Special Project: _____

Canister ID

3590	1379	1359	51005
N4750	N4757	1421	3547
3135	1391	3750	5479
2422	*5473	1458	*1396
5410	3103	5439	3559

"*" indicates the canister(s) that were screened

These canisters were cleaned as a batch. They are certified to be free of target analysts at the level specified above, as documented by the data file(s) above.

VMallari — Reviewed

1/13/20 — Date

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\200106\
Data File : 11JAN003.D
Acq On : 11 Jan 2020 1:40 pm
Operator : VM
Sample : SIM SCREEN 1396
Misc : 250 ML, 200110CC1A4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 11 14:04:36 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

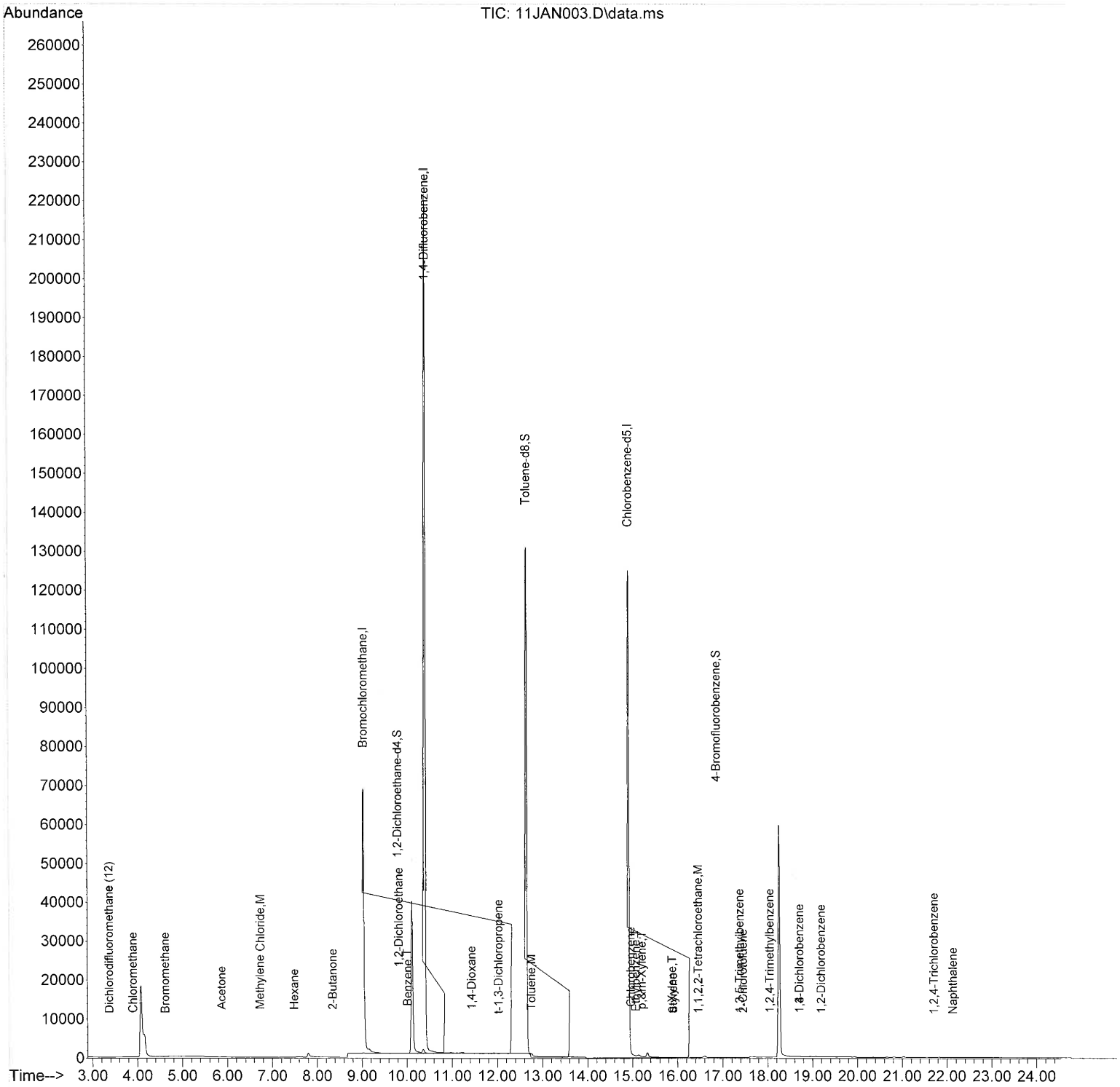
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.025	130	80546	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	367752	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.900	117	295492	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	90747	1799.88	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 89.99%			
29) Toluene-d8	12.632	98	314737	1923.50	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 96.17%			
42) 4-Bromofluorobenzene	16.859	95	152237	1745.95	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 87.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.370	85	157	1.42	pptv	94
3) Chloromethane	3.899	50	142	6.15	pptv	92
5) Bromomethane	4.615	96	61	3.79	pptv	84
9) Acetone	5.869	43	1746	30.98	pptv	84
11) Methylene Chloride	6.728	49	158	4.54	pptv	62
14) Hexane	7.487	57	55	1.02	pptv	59
16) 2-Butanone	8.347	72	65	3.52	pptv	18
22) Benzene	10.016	78	2133	15.26	pptv	99
24) 1,2-Dichloroethane	9.818	62	92	1.74	pptv #	1
27) 1,4-Dioxane	11.425	88	71	2.05	pptv #	68
30) Toluene	12.749	91	795	4.49	pptv	96
32) t-1,3-Dichloropropene	12.025	75	108	1.93	pptv #	1
36) Chlorobenzene	14.959	112	62	0.44	pptv	75
37) Ethylbenzene	15.068	91	617	3.14	pptv	100
38) p,&m-Xylene	15.204	91	1710	10.89	pptv	98
39) o-Xylene	15.879	91	539	3.52	pptv	99
40) Styrene	15.901	104	139	1.12	pptv	92
41) 1,1,2,2-Tetrachloroethane	16.454	83	266	2.76	pptv #	25
43) 1,3-Dichlorobenzene	18.708	146	387	2.84	pptv	91
44) 1,4-Dichlorobenzene	18.708	146	387	2.78	pptv	89
46) 1,2-Dichlorobenzene	19.189	146	130	0.99	pptv	94
47) 1,2,4-Trichlorobenzene	21.705	180	102	1.46	pptv	92
48) Naphthalene	22.129	128	475	3.69	pptv	100
49) 1,3,5-Trimethylbenzene	17.373	105	211	1.22	pptv	71
50) 2-Chlorotoluene	17.453	91	54	0.46	pptv	92
51) 1,2,4-Trimethylbenzene	18.045	105	354	2.22	pptv	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\200106\
Data File : 11JAN003.D
Acq On : 11 Jan 2020 1:40 pm
Operator : VM
Sample : SIM SCREEN 1396
Misc : 250 ML, 200110CC1A4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 11 14:04:36 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\200106\
Data File : 11JAN005.D
Acq On : 11 Jan 2020 2:54 pm
Operator : VM
Sample : SIM SCREEN 5473
Misc : 250 ML, 200110CC1A4
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 11 15:19:00 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

OK

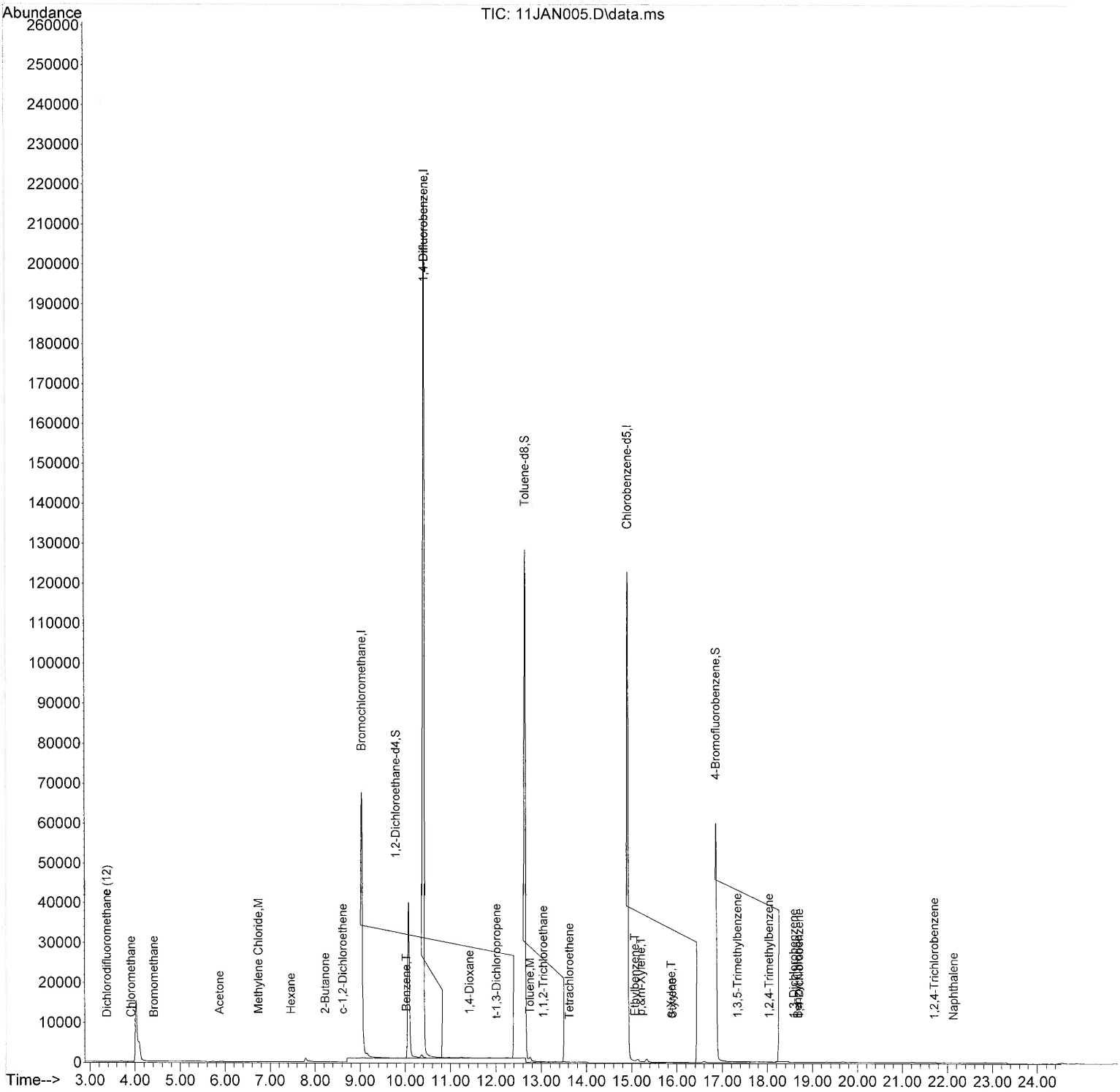
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.028	130	79351	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	357530	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	292517	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	89942	1834.92	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 91.75%			
29) Toluene-d8	12.632	98	308971	1942.25	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 97.11%			
42) 4-Bromofluorobenzene	16.862	95	153136	1774.12	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 88.71%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.378	85	139	1.28	pptv	95
3) Chloromethane	3.911	50	80	3.52	pptv	83
5) Bromomethane	4.417	96	96	6.05	pptv #	8
9) Acetone	5.875	43	2487	44.79	pptv	84
11) Methylene Chloride	6.740	49	135	3.94	pptv	83
14) Hexane	7.463	57	81	1.52	pptv	72
16) 2-Butanone	8.225	72	69	3.79	pptv	16
17) c-1,2-Dichloroethene	8.616	96	89	1.96	pptv	72
22) Benzene	10.019	78	1499	11.03	pptv	90
27) 1,4-Dioxane	11.416	88	59	1.75	pptv #	54
30) Toluene	12.749	91	1274	7.39	pptv	96
32) t-1,3-Dichloropropene	12.015	75	56	1.01	pptv #	1
33) 1,1,2-Trichloroethane	13.049	97	67	1.32	pptv #	17
34) Tetrachloroethene	13.625	166	107	1.21	pptv	77
37) Ethylbenzene	15.073	91	879	4.52	pptv	99
38) p,&m-Xylene	15.204	91	1138	7.32	pptv	99
39) o-Xylene	15.874	91	354	2.34	pptv	98
40) Styrene	15.899	104	82	0.67	pptv	99
43) 1,3-Dichlorobenzene	18.586	146	69	0.51	pptv	88
44) 1,4-Dichlorobenzene	18.708	146	82	0.60	pptv	96
45) Benzyl Chloride	18.679	91	183	2.46	pptv #	58
47) 1,2,4-Trichlorobenzene	21.708	180	60	0.87	pptv	92
48) Naphthalene	22.139	128	224	1.76	pptv	100
49) 1,3,5-Trimethylbenzene	17.339	105	170	0.99	pptv #	65
51) 1,2,4-Trimethylbenzene	18.042	105	137	0.87	pptv	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\200106\
Data File : 11JAN005.D
Acq On : 11 Jan 2020 2:54 pm
Operator : VM
Sample : SIM SCREEN 5473
Misc : 250 ML, 200110CC1A4
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 11 15:19:00 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



2. Sample Raw Data

a. Internal Standard/Surrogate Summary

b. Results/Chromatograms/Spectra

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data\200120\22JAN001.D
Tune Time : 22 Jan 2020 8:45 am

Daily Calibration File : C:\msdchem\1\data\200120\22JAN001.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					61133	289002	221916
22JAN002.D							
	SIM LCS	99	99	103	61262	287891	221832
22JAN003.D							
	SIM LCSD	100	100	105	61768	288545	224705
22JAN004.D							
	METHOD BLA	106	99	99	62254	282543	225333
22JAN010.D							
	L012003-01	101	101	100	63111	300660	245122
22JAN011.D							
	L012004-01	98	101	100	64350	310484	254460
22JAN012.D							
	L012003-01	99	99	101	65681	312514	248908
22JAN013.D							
	L012004-01	96	100	101	64884	310819	248388

(fails) - fails 24hr time check * - fails criteria

Created: Wed Feb 19 12:14:15 2020 ms2

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN011.D
Acq On : 22 Jan 2020 4:56 pm
Operator : DT
Sample : L012004-01 demaximis
Misc : 387 ML, 19.6/12.65
ALS Vial : ~~14~~ Sample Multiplier: 1
16 DT 1/23/20

Quant Time: Jan 22 17:21:09 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	9.027	130	64350	2000.00 pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	310484	2000.00 pptv	0.00
31) Chlorobenzene-d5	14.904	117	254460	2000.00 pptv	0.00
System Monitoring Compounds					
23) 1,2-Dichloroethane-d4	9.793	65	79869	1959.01 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 97.95%		
29) Toluene-d8	12.632	98	275579	2026.17 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 101.31%		
42) 4-Bromofluorobenzene	16.861	95	127309	1999.37 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 99.97%		
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	3.326	85	39216	424.46 pptv	99
3) Chloromethane	3.687	50	10095	490.97 pptv	100
5) Bromomethane	4.600	96	278	19.51 pptv	93
6) Chloroethane	4.737	64	146	12.76 pptv	79
7) Trichlorofluoromethane...	5.197	101	18961	209.61 pptv	100
8) 1,1,2-Cl 1,2,2-F ethan...	5.929	151	4774	64.62 pptv	94
9) Acetone	5.815	43	1179872	25066.15 pptv	98
10) 1,1-Dichloroethene	6.076	96	51	1.59 pptv	74
11) Methylene Chloride	6.724	49	27261	933.33 pptv	92
12) t-Butyl Methyl Ether	7.084	73	412	4.71 pptv #	1
13) t-1,2-Dichloroethene	7.222	96	104	3.79 pptv	94
14) Hexane	7.475	57	224408	5016.00 pptv	100
15) 1,1-Dichloroethane	7.777	63	95	1.79 pptv #	1
16) 2-Butanone	8.311	72	19066	1271.57 pptv	89
18) Chloroform	8.844	83	2468	36.74 pptv	99
19) 1,1,1-Trichloroethane	9.448	97	201	2.72 pptv #	1
20) Carbon Tetrachloride	9.842	117	4879	72.65 pptv	98
22) Benzene	10.019	78	206856	1853.82 pptv	100
24) 1,2-Dichloroethane	9.924	62	873	21.84 pptv #	1
25) Trichloroethene	10.906	130	318	6.49 pptv #	41
26) 1,2-Dichloropropane	11.135	63	1273	37.81 pptv	73
27) 1,4-Dioxane	11.401	88	247	9.35 pptv #	71
28) Bromodichloromethane	11.367	83	4881	77.84 pptv #	18
30) Toluene	12.748	91	1821058	12257.43 pptv	99
32) t-1,3-Dichloropropene	12.198	75	398	9.38 pptv	43
33) 1,1,2-Trichloroethane	13.239	97	16840	372.31 pptv #	22
34) Tetrachloroethene	13.774	166	6021	71.46 pptv	97
35) 1,2-Dibromoethane	14.260	107	64	1.05 pptv	53
36) Chlorobenzene	14.933	112	799	6.44 pptv	71
37) Ethylbenzene	15.072	91	407148	2308.70 pptv	98
38) p,&m-Xylene	15.201	91	1217598	8231.70 pptv	100
39) o-Xylene	15.877	91	480892	3940.90 pptv	95
40) Styrene	15.885	104	19304	246.79 pptv #	1
41) 1,1,2,2-Tetrachloroethane	16.697	83	643	8.03 pptv #	7
43) 1,3-Dichlorobenzene	18.577	146	187	2.06 pptv	96
44) 1,4-Dichlorobenzene	18.711	146	2249	25.93 pptv	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN011.D
Acq On : 22 Jan 2020 4:56 pm
Operator : DT
Sample : L012004-01 demaximis
Misc : 387 ML, 19.6/12.65
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 22 17:21:09 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

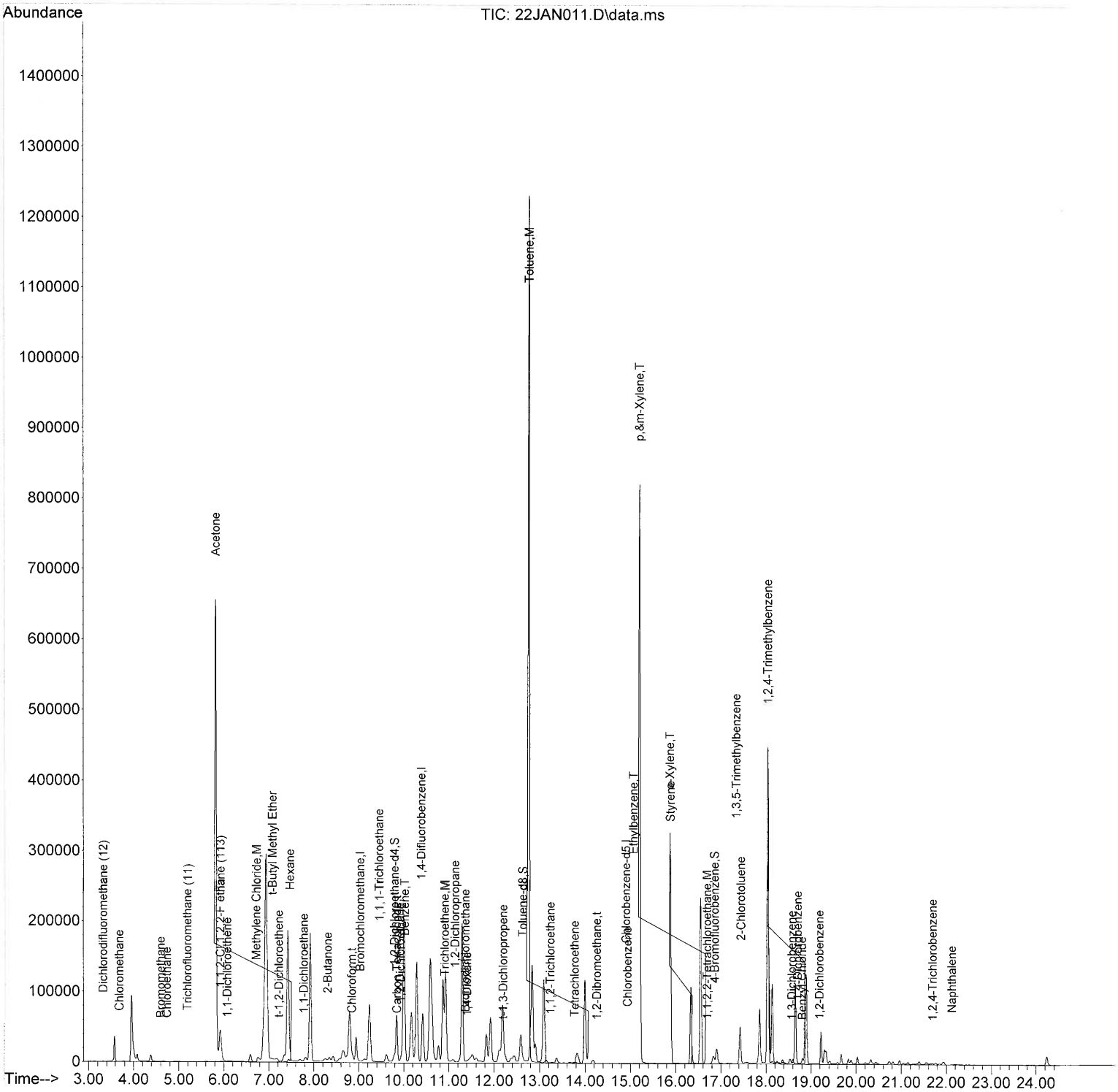
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Benzyl Chloride	18.807	91	706	11.60	pptv #	63
46) 1,2-Dichlorobenzene	19.191	146	213	2.55	pptv	90
47) 1,2,4-Trichlorobenzene	21.699	180	435	10.62	pptv	88
48) Naphthalene	22.122	128	31278	472.41	pptv	100
49) 1,3,5-Trimethylbenzene	17.345	105	584747	4885.91	pptv	84
50) 2-Chlorotoluene	17.448	91	12018	134.33	pptv #	50
51) 1,2,4-Trimethylbenzene	18.041	105	560327	5324.11	pptv	84

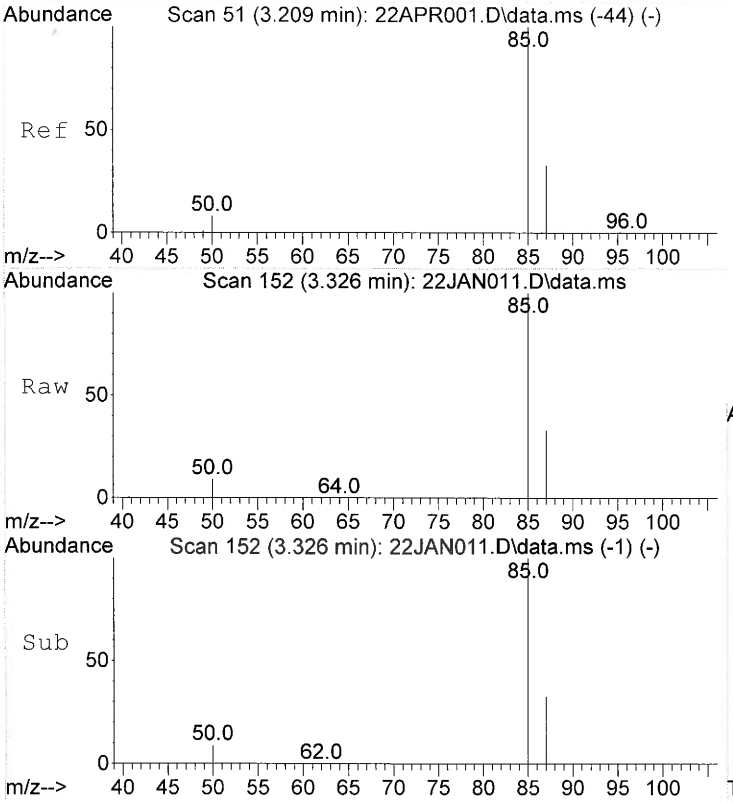
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN011.D
Acq On : 22 Jan 2020 4:56 pm
Operator : DT
Sample : L012004-01 demaximis
Misc : 387 ML, 19.6/12.65
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 22 17:21:09 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

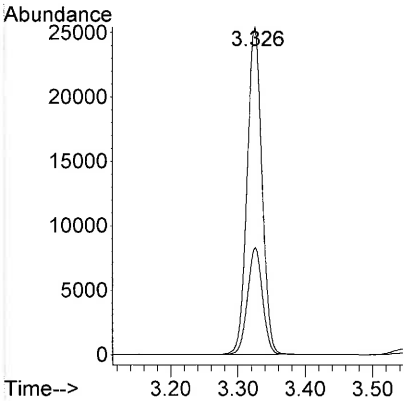


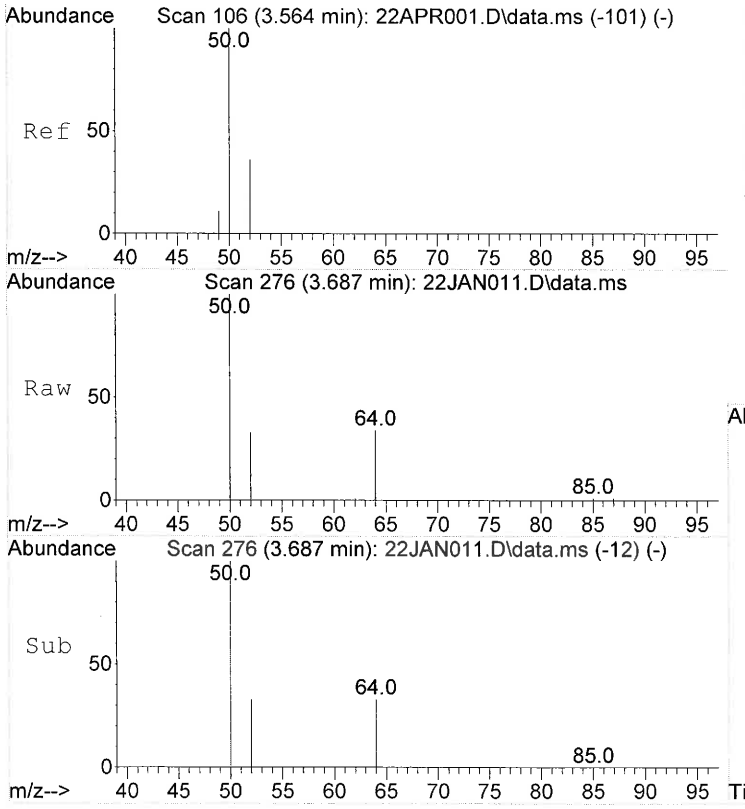


#2
Dichlorodifluoromethane (12)
Concen: 424.46 pptv
RT: 3.326 min Scan# 152
Delta R.T. -0.023 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 85 Resp: 39216

Ion	Ratio	Lower	Upper
85	100		
87	32.6	0.0	81.9

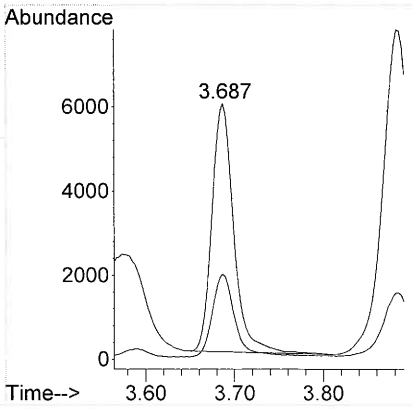


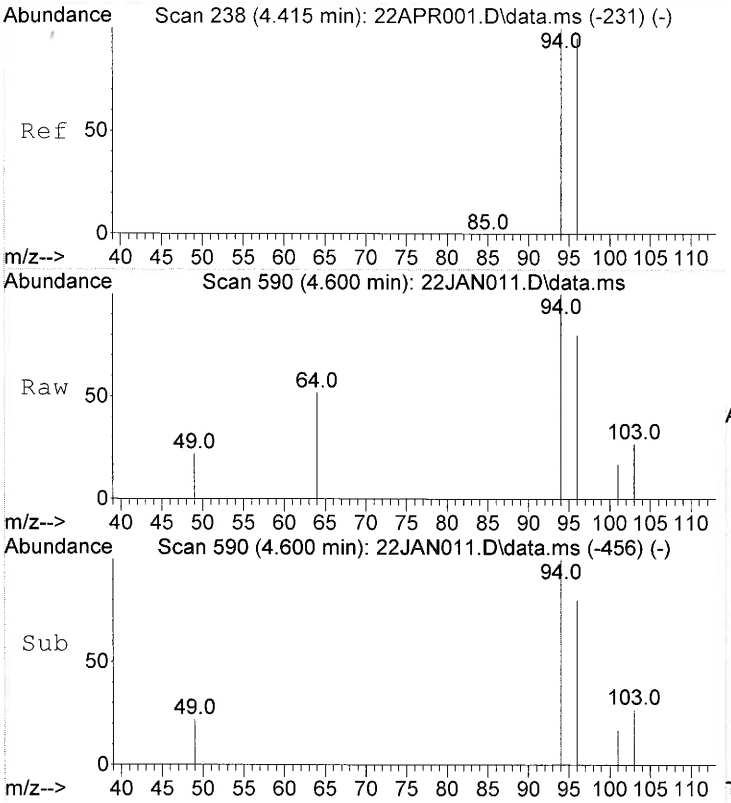


#3
Chloromethane
Concen: 490.97 pptv
RT: 3.687 min Scan# 276
Delta R.T. -0.032 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 50 Resp: 10095

Ion	Ratio	Lower	Upper
50	100		
52	33.0	3.0	63.0

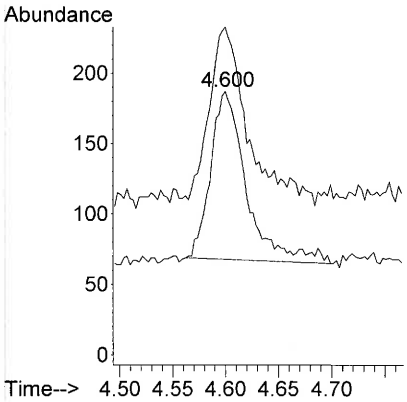


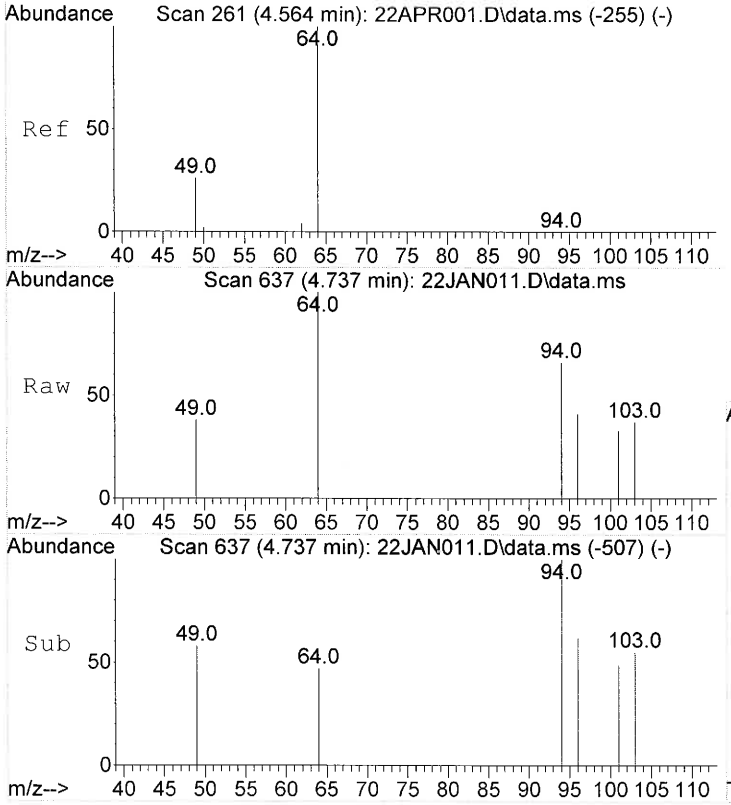


#5
Bromomethane
Concen: 19.51 pptv
RT: 4.600 min Scan# 590
Delta R.T. -0.009 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 96 Resp: 278

Ion	Ratio	Lower	Upper
96	100		
94	98.4	55.4	155.4

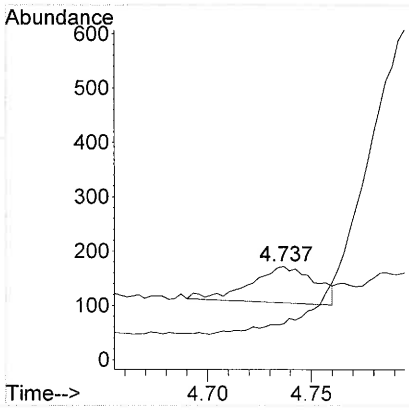


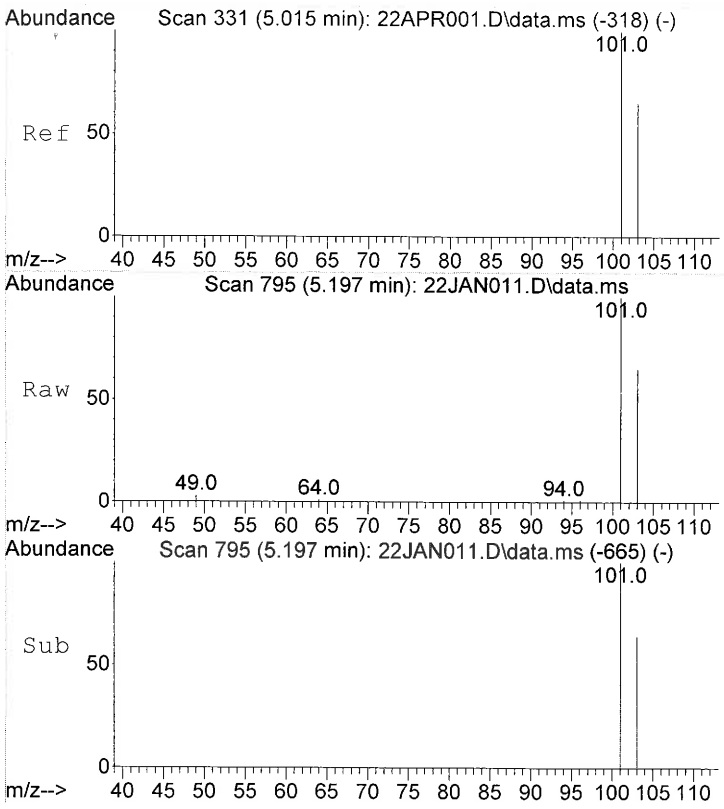


#6
Chloroethane
Concen: 12.76 pptv
RT: 4.737 min Scan# 637
Delta R.T. -0.020 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 64 Resp: 146

Ion	Ratio	Lower	Upper
64	100		
49	28.3	0.0	68.7

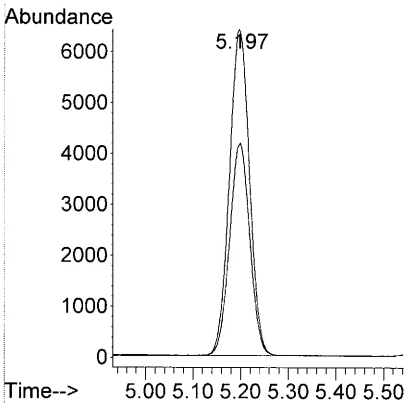


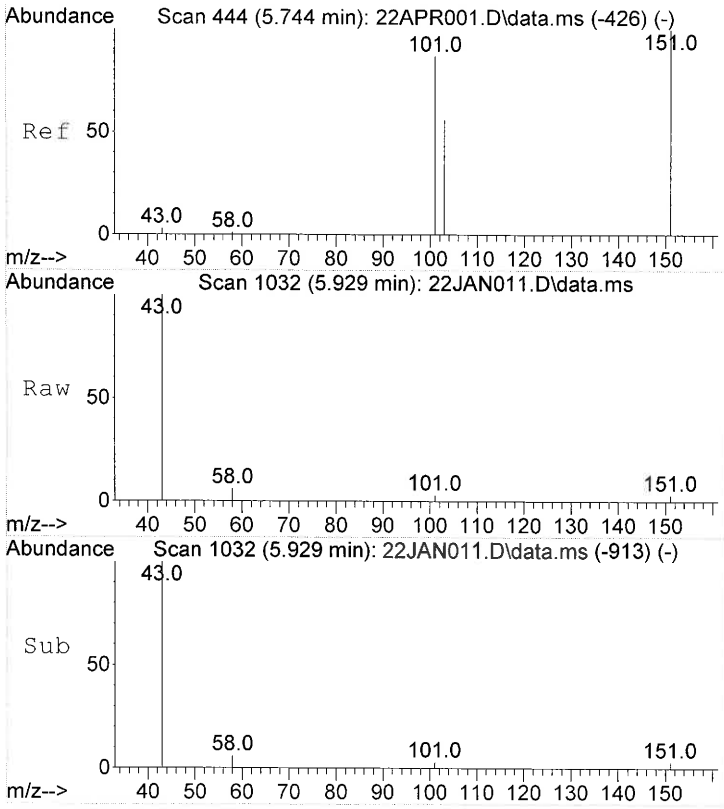


#7
Trichlorofluoromethane (11)
Concen: 209.61 pptv
RT: 5.197 min Scan# 795
Delta R.T. -0.020 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:101 Resp: 18961

Ion	Ratio	Lower	Upper
101	100		
103	64.5	14.6	114.6

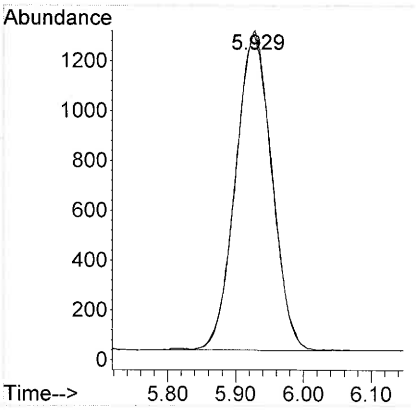


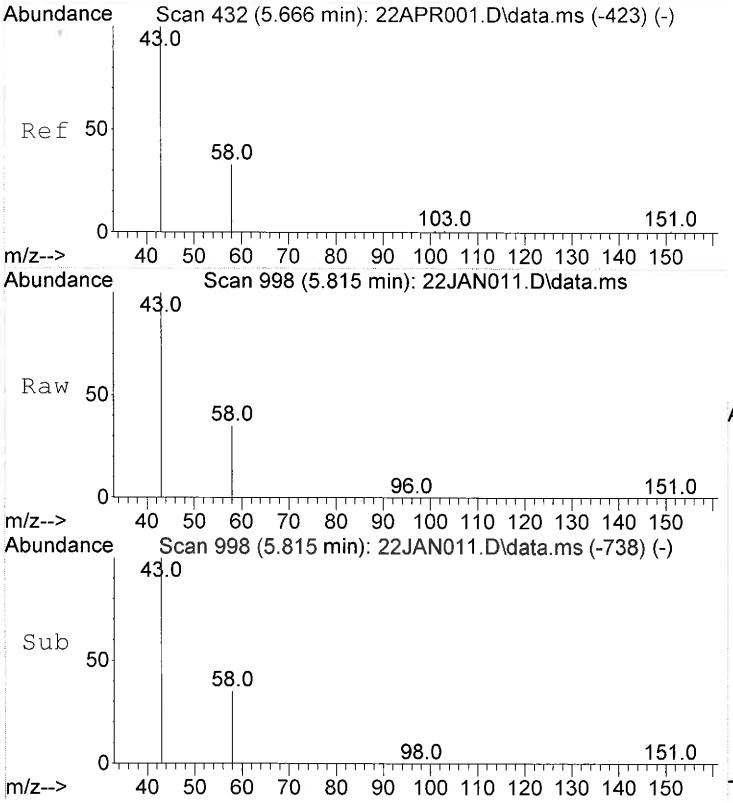


#8
1,1,2-Cl 1,2,2-F ethane (113)
Concen: 64.62 pptv
RT: 5.929 min Scan# 1032
Delta R.T. -0.010 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:151 Resp: 4774

Ion	Ratio	Lower	Upper
151	100		
101	97.5	41.5	141.5

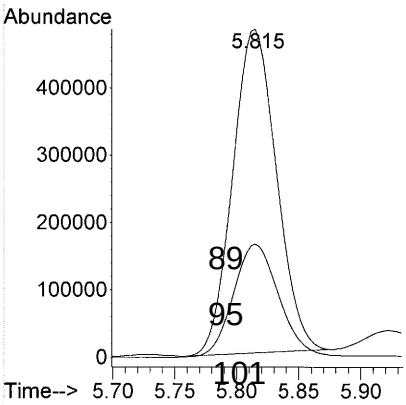


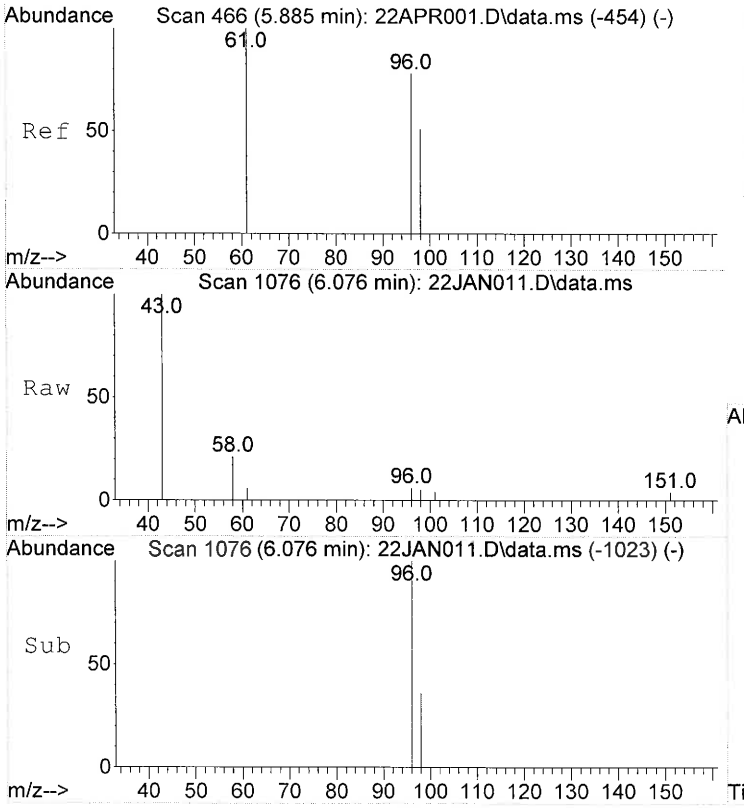


#9
Acetone
Concen: 25066.15 pptv
RT: 5.815 min Scan# 998
Delta R.T. -0.017 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 43 Resp: 1179872

Ion	Ratio	Lower	Upper
43	100		
58	34.6	13.4	53.4

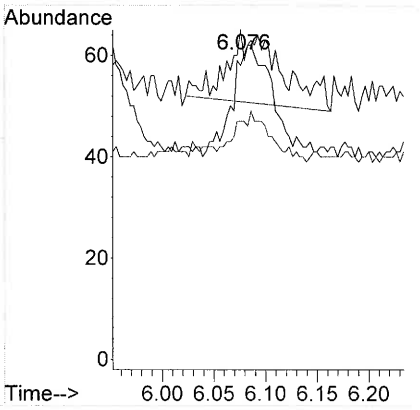


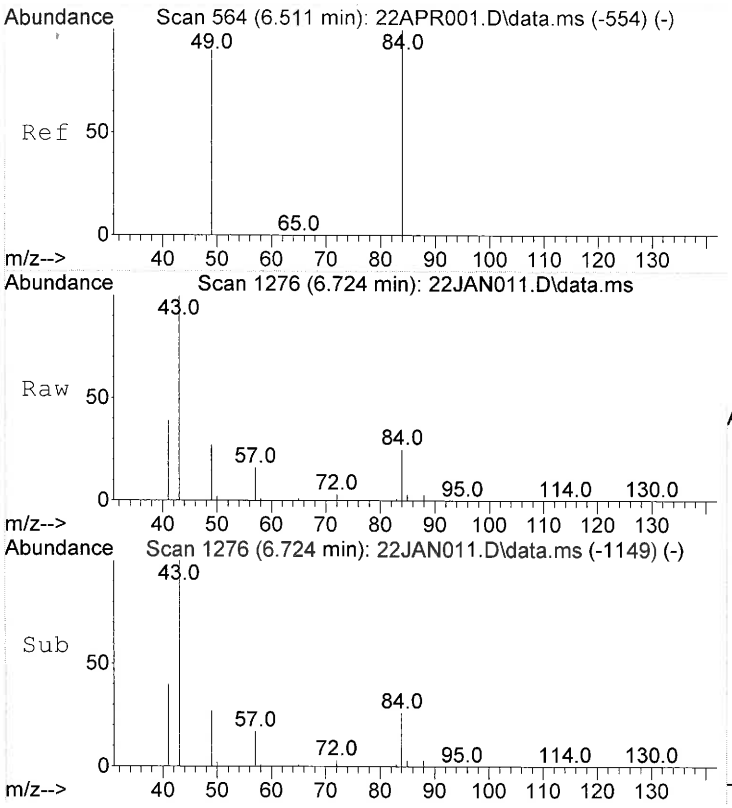


#10
1,1-Dichloroethene
Concen: 1.59 pptv
RT: 6.076 min Scan# 1076
Delta R.T. -0.024 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 96 Resp: 51

Ion	Ratio	Lower	Upper
96	100		
61	100.0	64.6	193.9
98	43.8	32.5	97.5

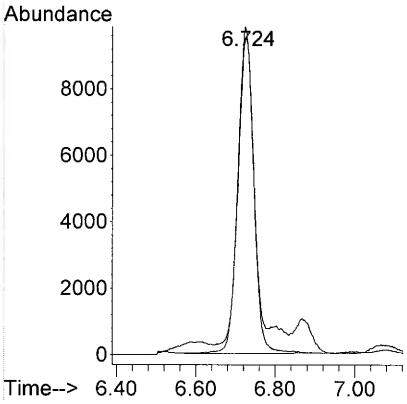


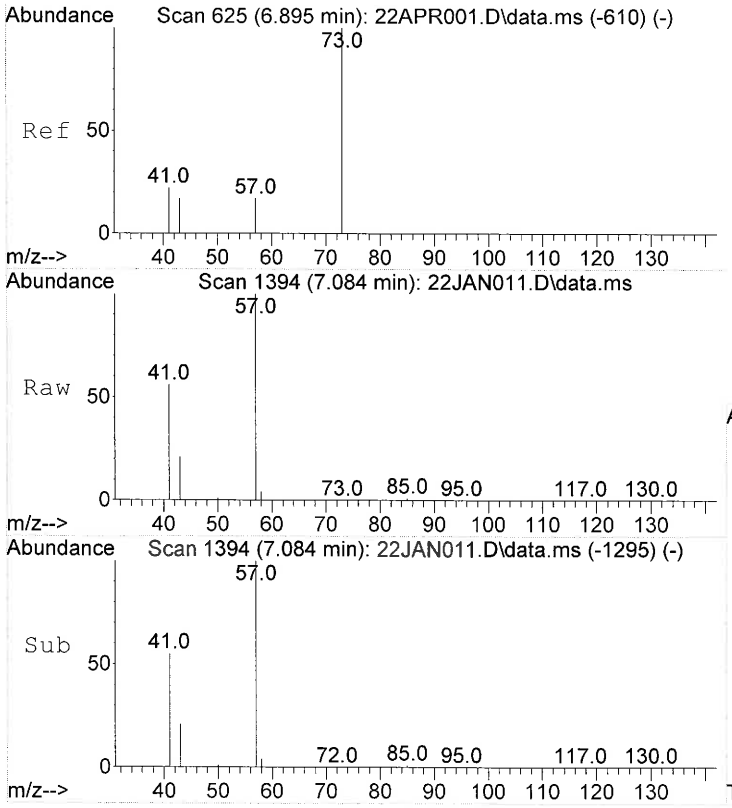


#11
Methylene Chloride
Concen: 933.33 pptv
RT: 6.724 min Scan# 1276
Delta R.T. 0.002 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 49 Resp: 27261

Ion	Ratio	Lower	Upper
49	100		
84	95.6	54.2	154.2

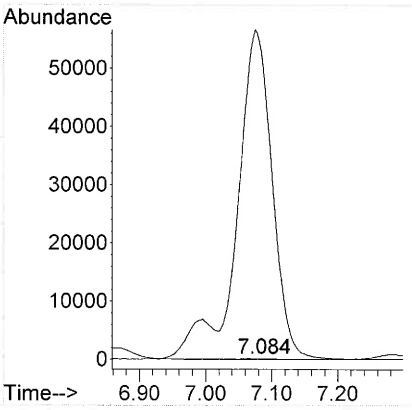


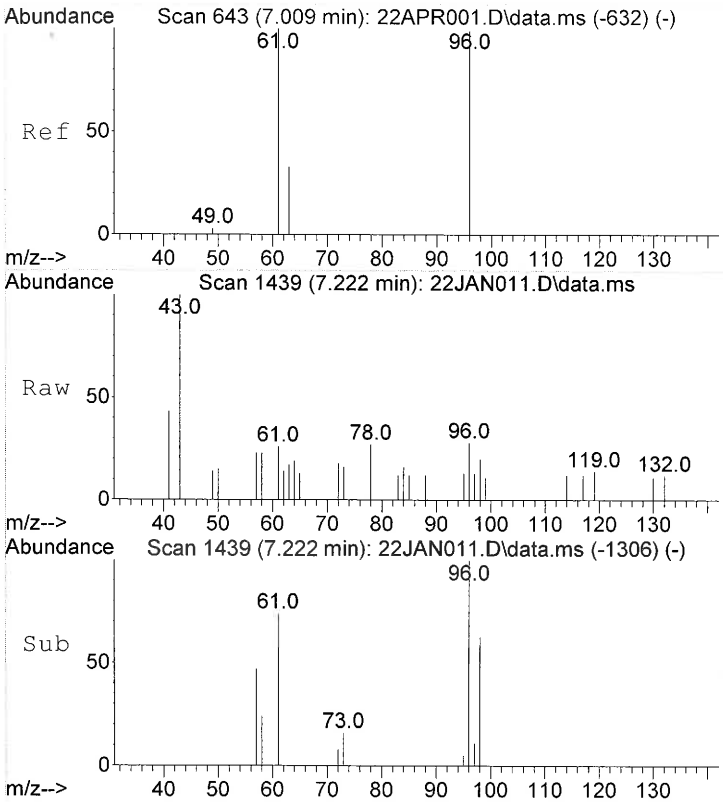


#12
t-Butyl Methyl Ether
Concen: 4.71 pptv
RT: 7.084 min Scan# 1394
Delta R.T. 0.003 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 73 Resp: 412

Ion	Ratio	Lower	Upper
73	100		
41	54246.4	0.0	516.4#

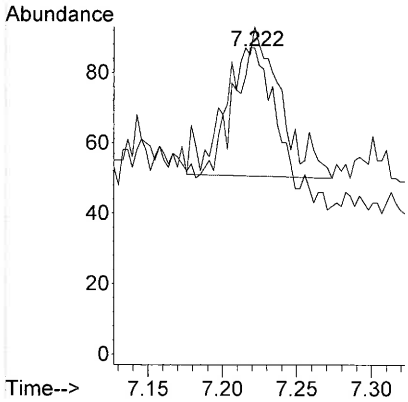


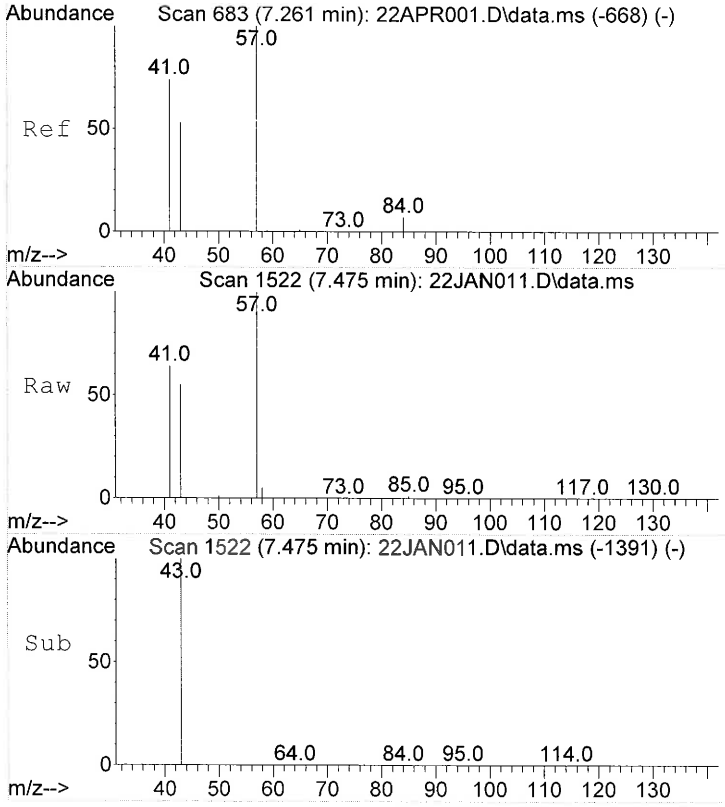


#13
t-1,2-Dichloroethene
Concen: 3.79 pptv
RT: 7.222 min Scan# 1439
Delta R.T. 0.006 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 96 Resp: 104

Ion	Ratio	Lower	Upper
96	100		
61	104.7	61.4	161.4

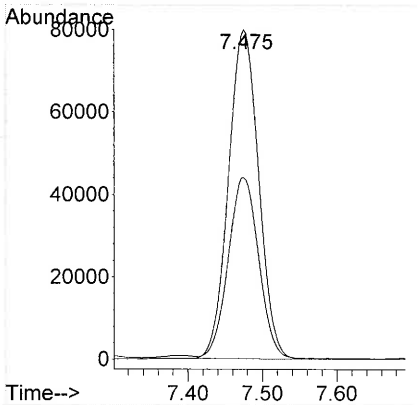


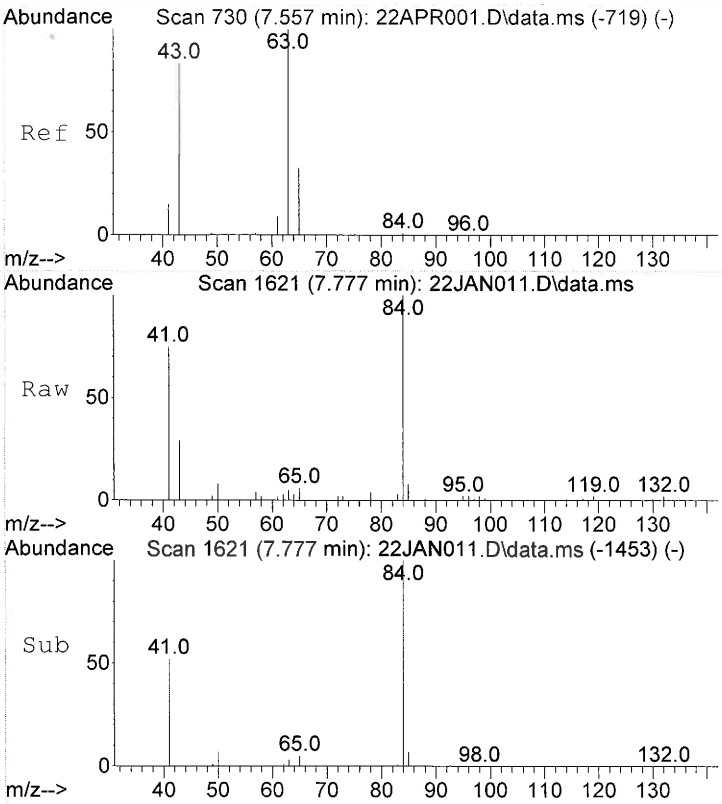


#14
Hexane
Concen: 5016.00 pptv
RT: 7.475 min Scan# 1522
Delta R.T. -0.000 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 57 Resp: 224408

Ion	Ratio	Lower	Upper
57	100		
43	54.8	5.0	105.0

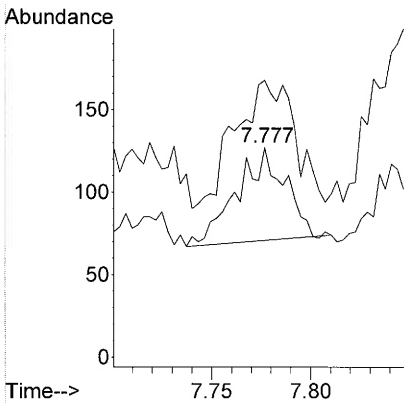


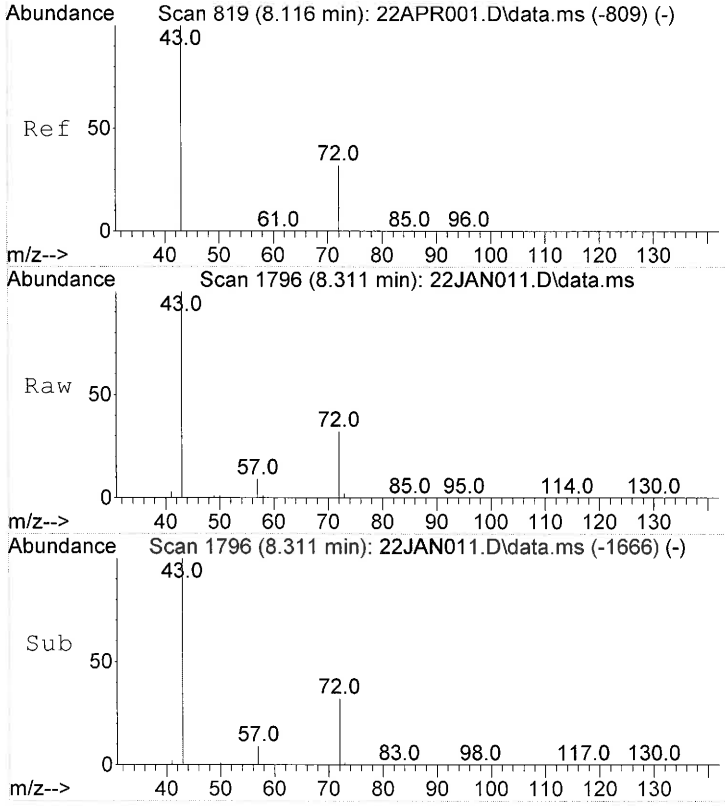


#15
1,1-Dichloroethane
Concen: 1.79 pptv
RT: 7.777 min Scan# 1621
Delta R.T. 0.012 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 63 Resp: 95

Ion	Ratio	Lower	Upper
63	100		
65	115.0	0.0	82.5#

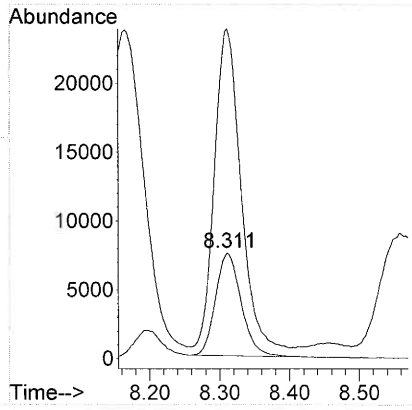


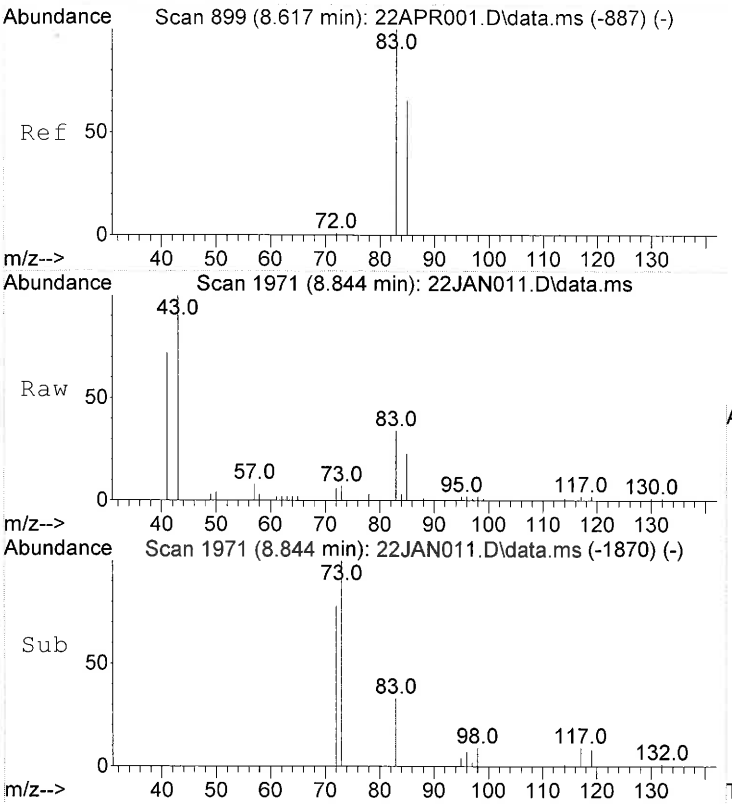


#16
2-Butanone
Concen: 1271.57 pptv
RT: 8.311 min Scan# 1796
Delta R.T. -0.003 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 72 Resp: 19066

Ion	Ratio	Lower	Upper
72	100		
43	303.1	0.0	3591.5

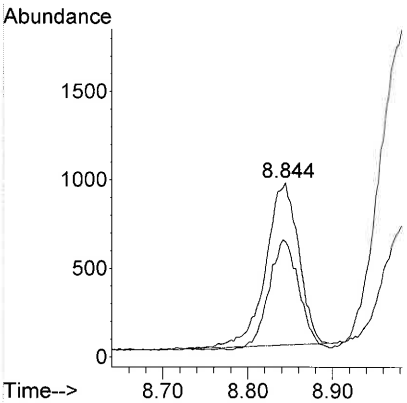


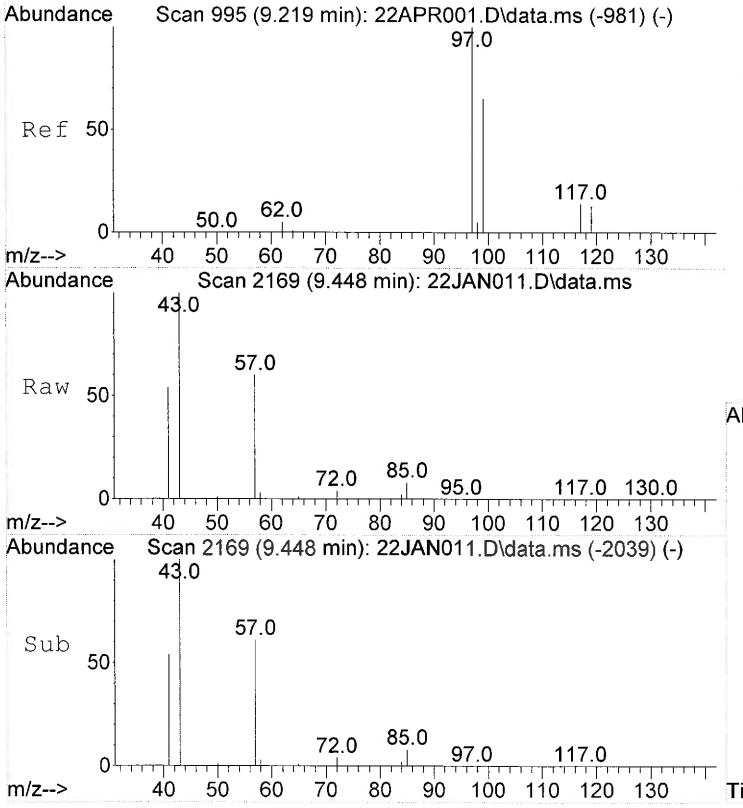


#18
Chloroform
Concen: 36.74 pptv
RT: 8.844 min Scan# 1971
Delta R.T. 0.009 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 83 Resp: 2468

Ion	Ratio	Lower	Upper
83	100		
85	64.4	14.9	114.9

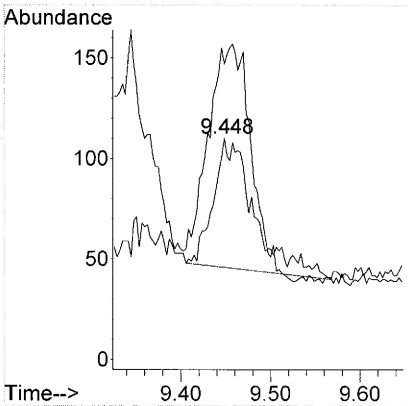


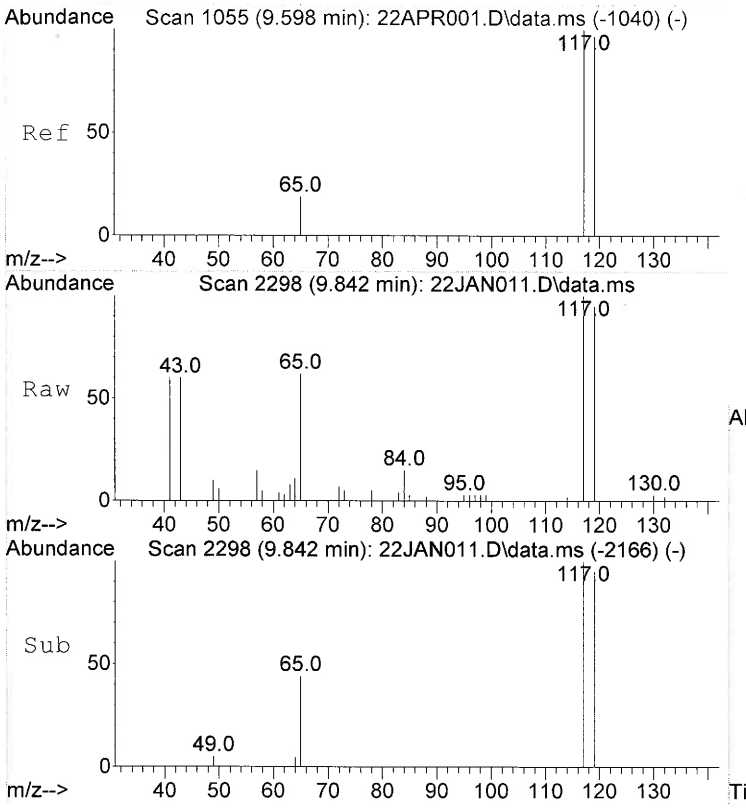


#19
1,1,1-Trichloroethane
Concen: 2.72 pptv
RT: 9.448 min Scan# 2169
Delta R.T. -0.003 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 97 Resp: 201

Ion	Ratio	Lower	Upper
97	100		
99	151.4	13.8	113.8#

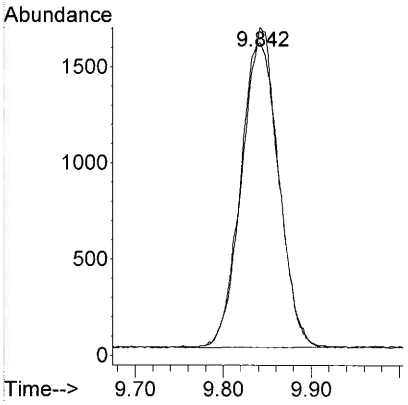


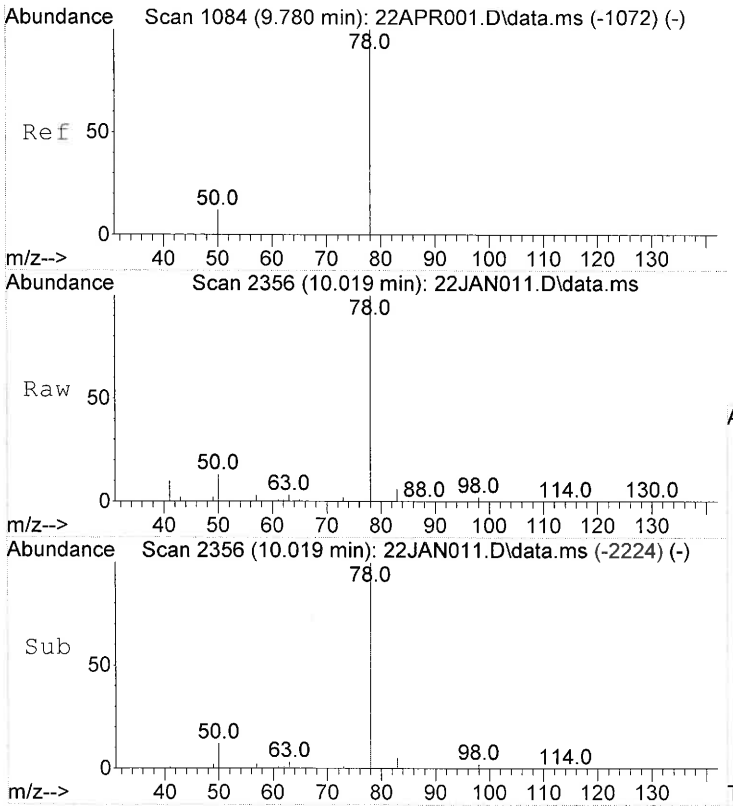


#20
Carbon Tetrachloride
Concen: 72.65 pptv
RT: 9.842 min Scan# 2298
Delta R.T. 0.003 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:117 Resp: 4879

Ion	Ratio	Lower	Upper
117	100		
119	94.8	47.1	147.1

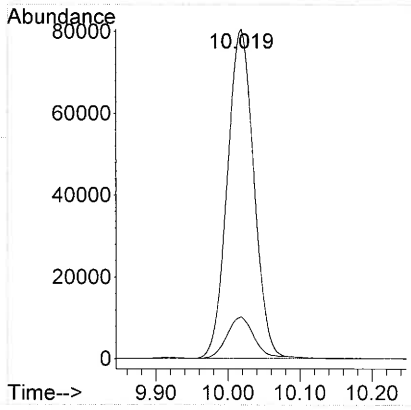


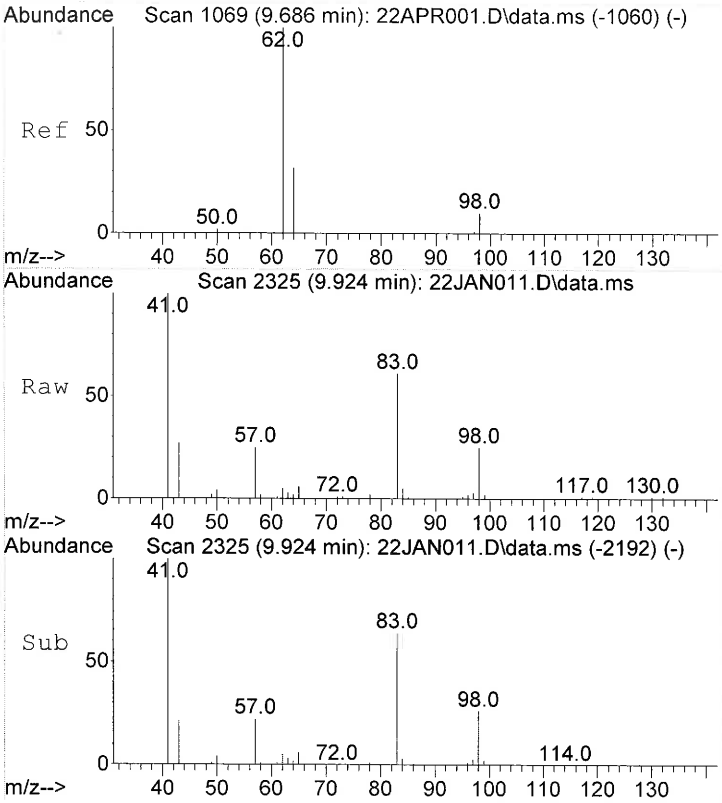


#22
Benzene
Concen: 1853.82 pptv
RT: 10.019 min Scan# 2356
Delta R.T. 0.003 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 78 Resp: 206856

Ion	Ratio	Lower	Upper
78	100		
50	12.7	0.0	62.6

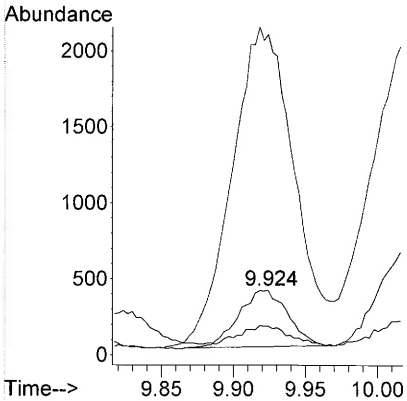


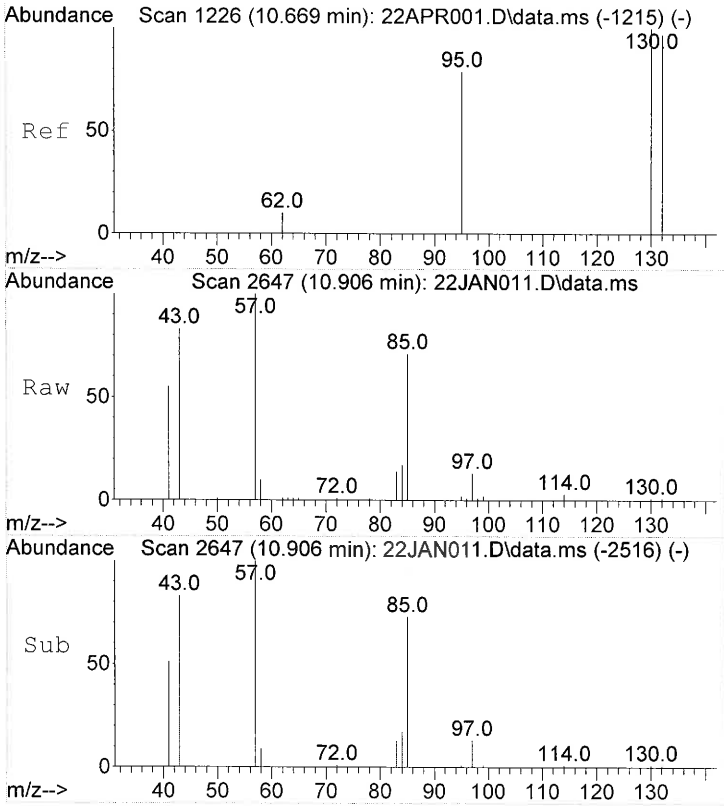


#24
1,2-Dichloroethane
Concen: 21.84 pptv
RT: 9.924 min Scan# 2325
Delta R.T. 0.006 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 62 Resp: 873

Ion	Ratio	Lower	Upper
62	100		
64	31.2	0.0	83.0
98	534.9	0.0	61.0#

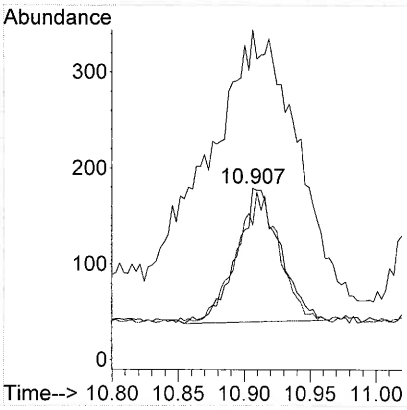


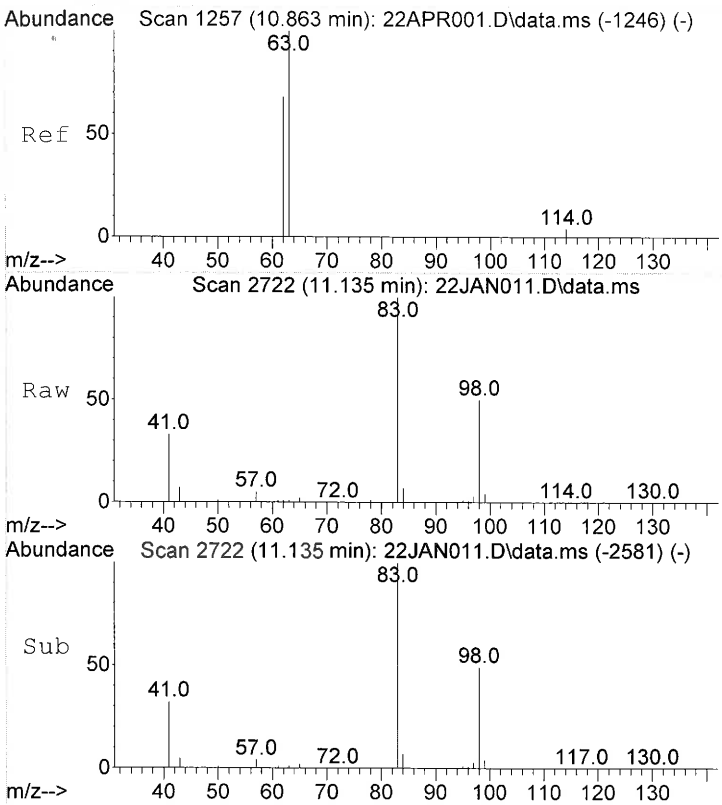


#25
Trichloroethene
Concen: 6.49 pptv
RT: 10.906 min Scan# 2647
Delta R.T. -0.000 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:130 Resp: 318

Ion	Ratio	Lower	Upper
130	100		
95	168.1	30.9	130.9#
132	70.9	46.0	146.0

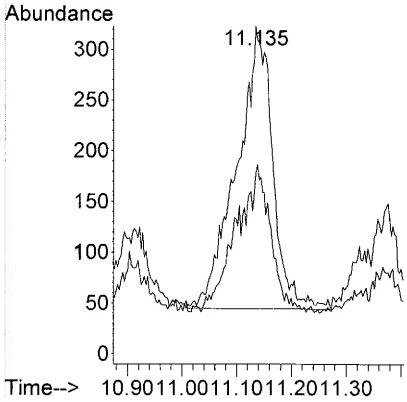


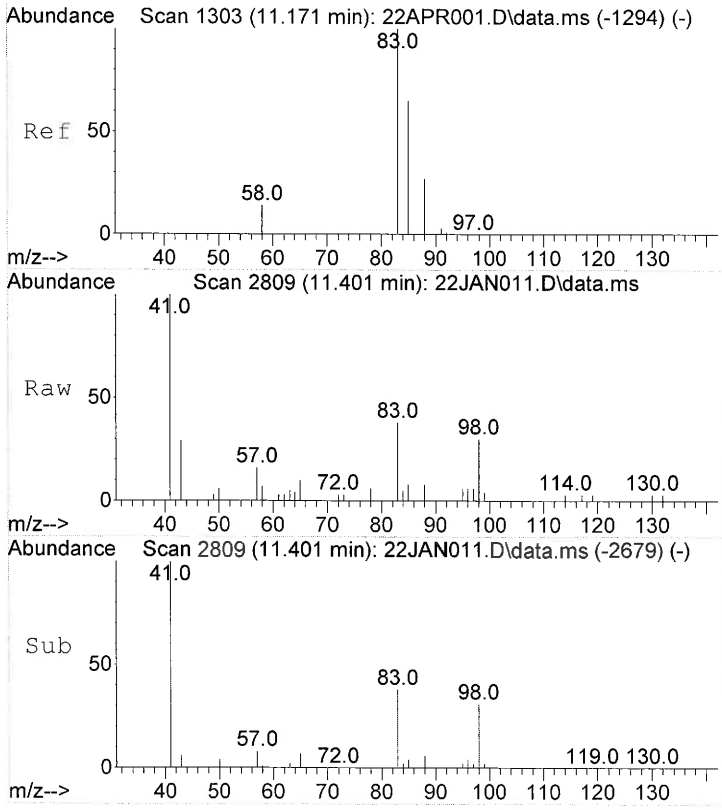


#26
1,2-Dichloropropane
Concen: 37.81 pptv
RT: 11.135 min Scan# 2722
Delta R.T. 0.030 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 63 Resp: 1273

Ion	Ratio	Lower	Upper
63	100		
62	48.4	20.3	120.3

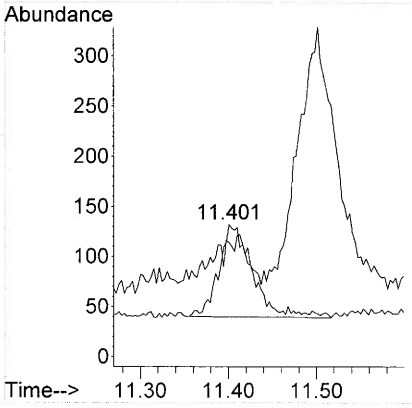


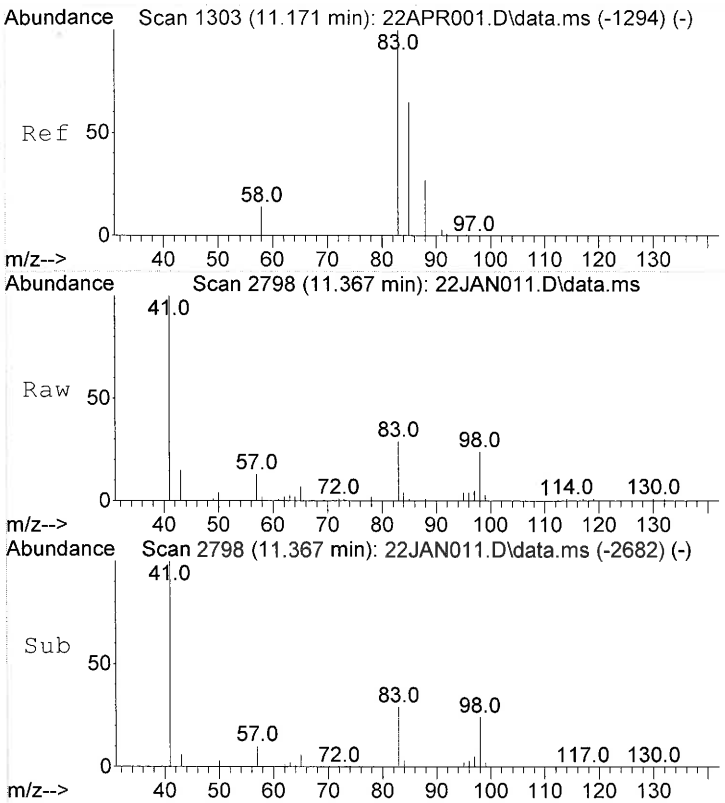


#27
1,4-Dioxane
Concen: 9.35 pptv
RT: 11.401 min Scan# 2809
Delta R.T. -0.003 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 88 Resp: 247

Ion	Ratio	Lower	Upper
88	100		
58	29.0	38.7	58.1#

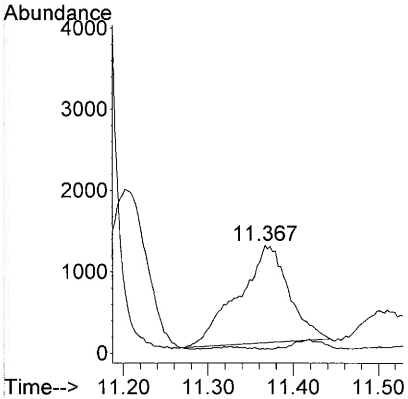


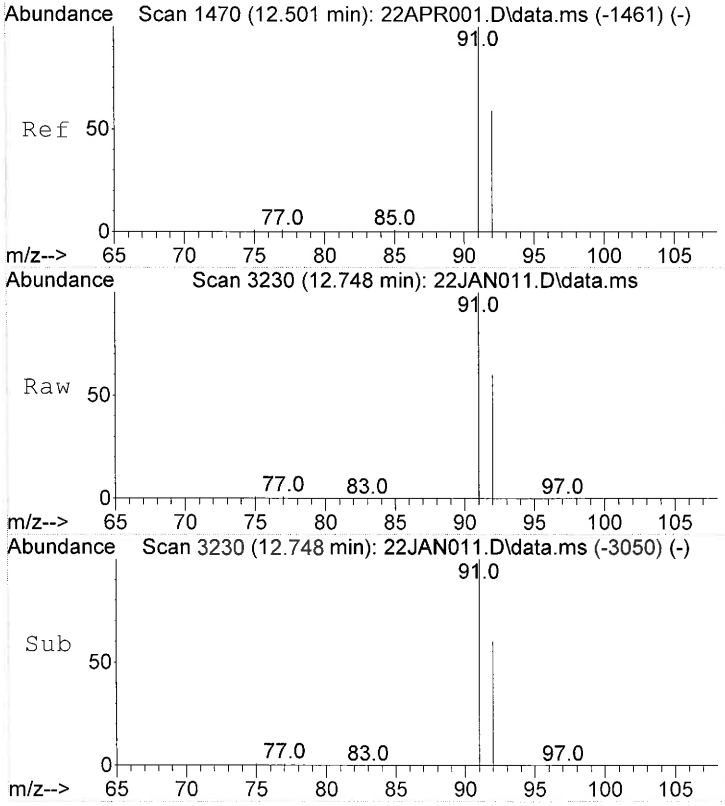


#28
Bromodichloromethane
Concen: 77.84 pptv
RT: 11.367 min Scan# 2798
Delta R.T. -0.046 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 83 Resp: 4881

Ion	Ratio	Lower	Upper
83	100		
85	0.0	13.9	113.9#

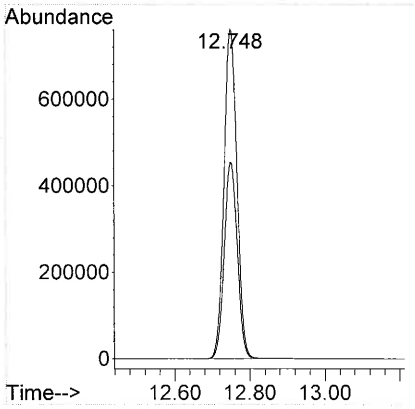


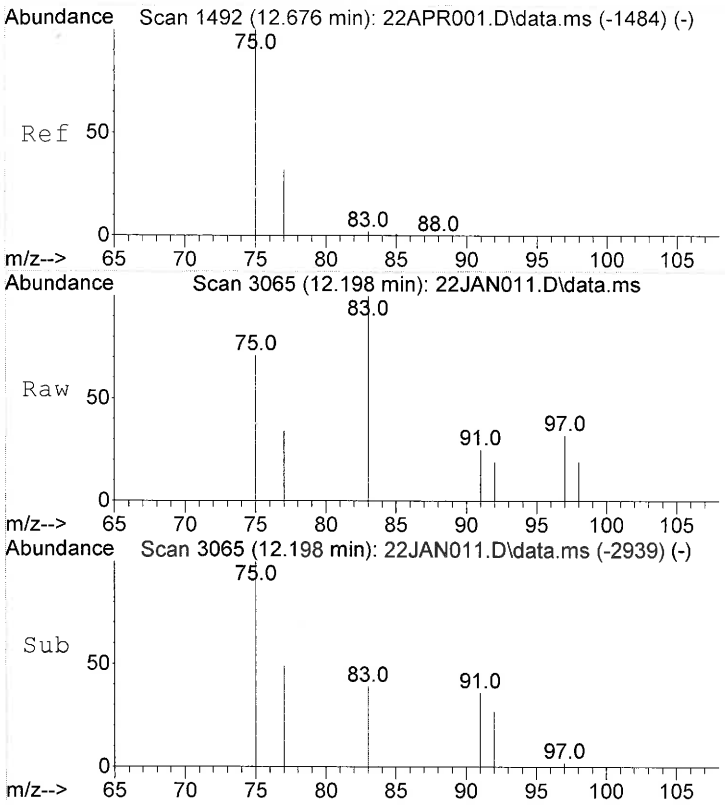


#30
Toluene
Concen: 12257.43 pptv
RT: 12.748 min Scan# 3230
Delta R.T. -0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 91 Resp: 1821058

Ion	Ratio	Lower	Upper
91	100		
92	59.6	10.0	110.0

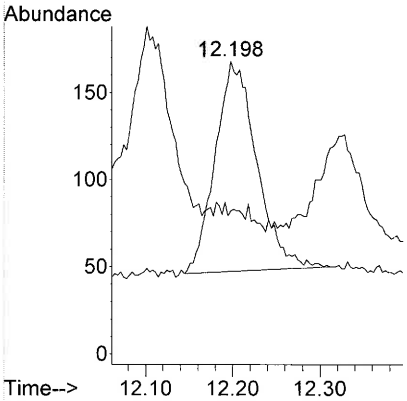


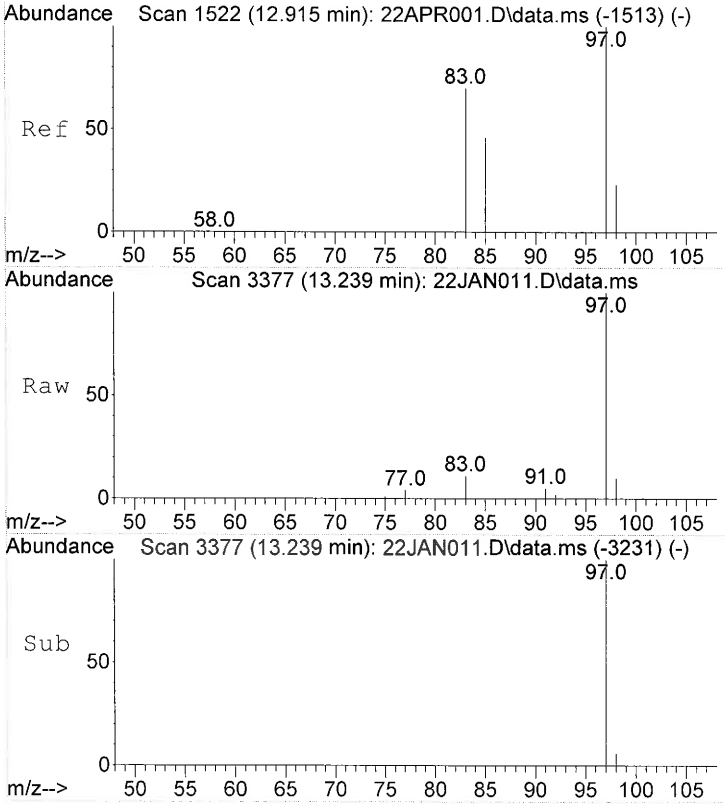


#32
t-1,3-Dichloropropene
Concen: 9.38 pptv
RT: 12.198 min Scan# 3065
Delta R.T. -0.000 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 75 Resp: 398

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	81.7

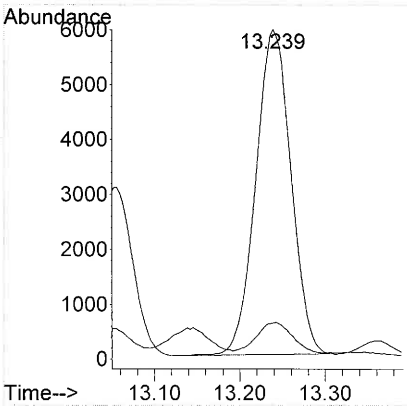


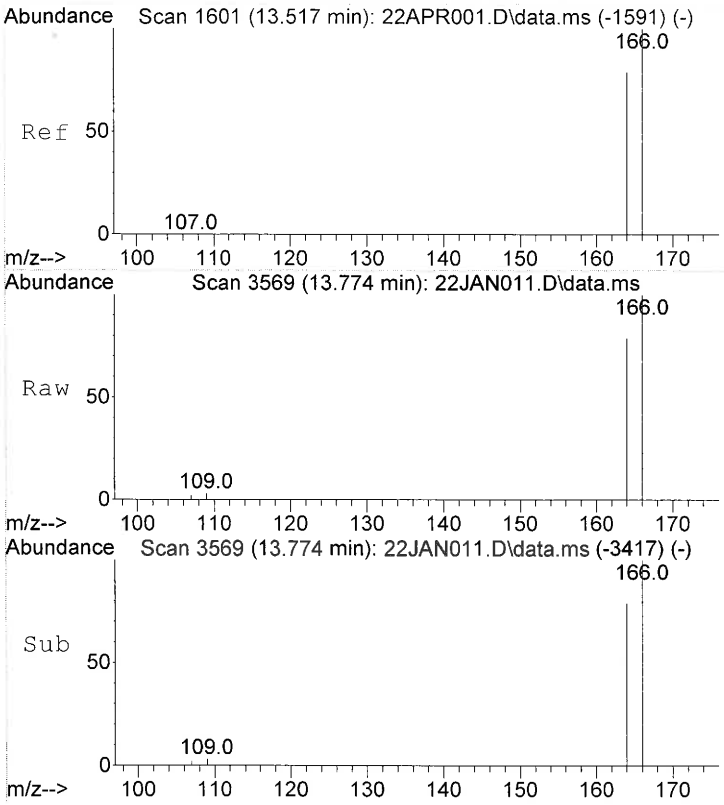


#33
1,1,2-Trichloroethane
Concen: 372.31 pptv
RT: 13.239 min Scan# 3377
Delta R.T. 0.086 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 97 Resp: 16840

Ion	Ratio	Lower	Upper
97	100		
83	9.0	25.1	125.1#

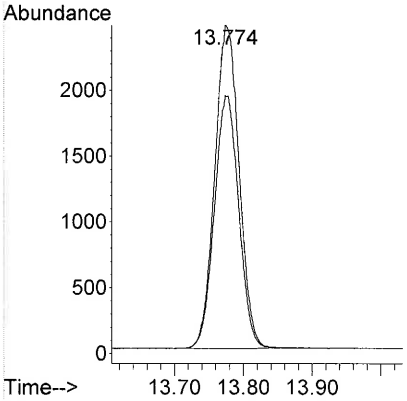


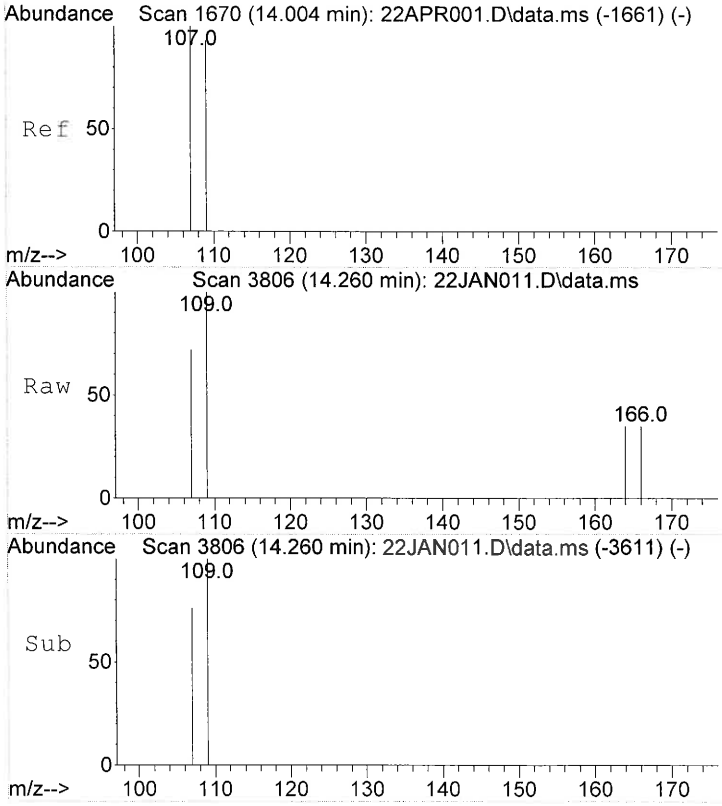


#34
Tetrachloroethene
Concen: 71.46 pptv
RT: 13.774 min Scan# 3569
Delta R.T. 0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:166 Resp: 6021

Ion	Ratio	Lower	Upper
166	100		
164	78.1	25.3	125.3

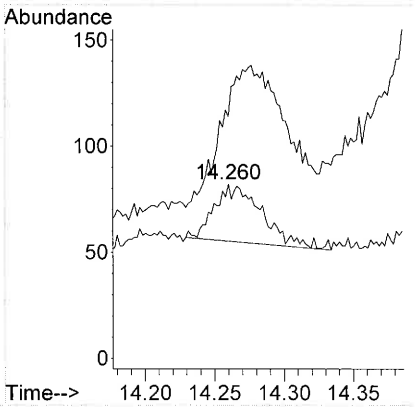


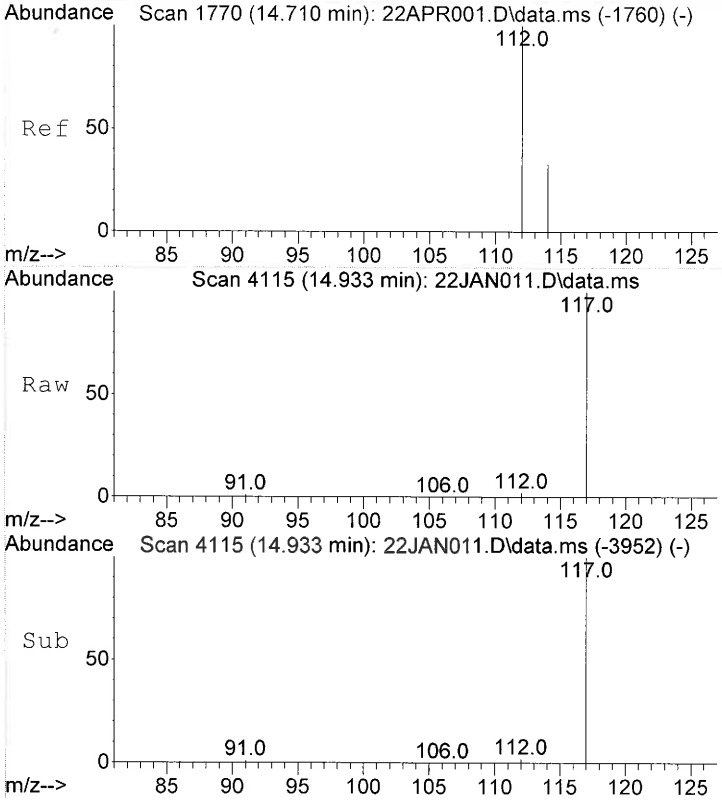


#35
1,2-Dibromoethane
Concen: 1.05 pptv
RT: 14.260 min Scan# 3806
Delta R.T. 0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:107 Resp: 64

Ion	Ratio	Lower	Upper
107	100		
109	138.7	43.3	143.3

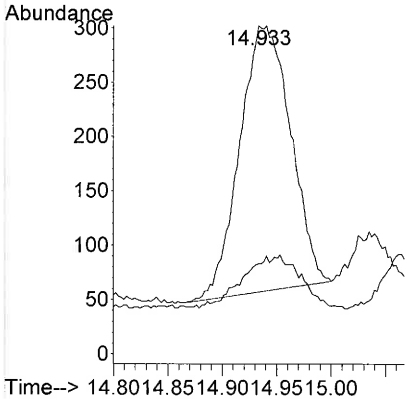


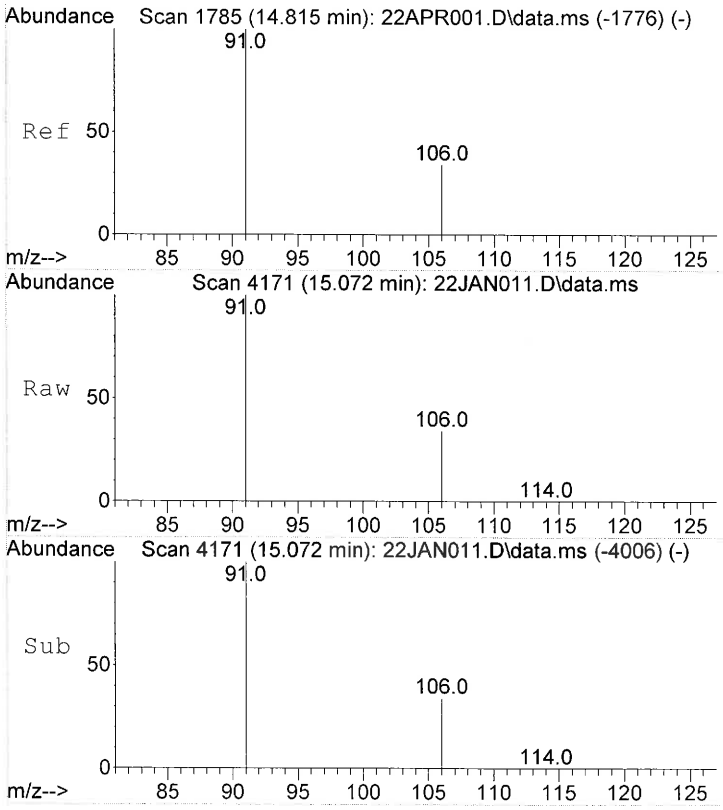


#36
Chlorobenzene
Concen: 6.44 pptv
RT: 14.933 min Scan# 4115
Delta R.T. -0.026 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:112 Resp: 799

Ion	Ratio	Lower	Upper
112	100		
114	15.7	0.0	81.6

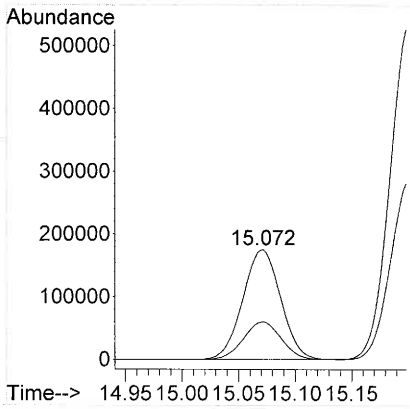


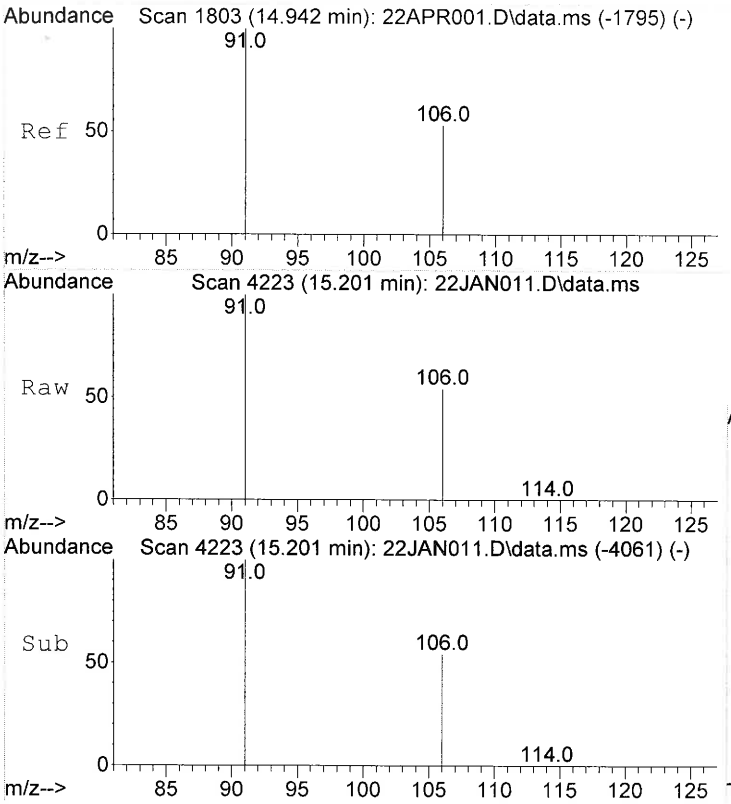


#37
Ethylbenzene
Concen: 2308.70 pptv
RT: 15.072 min Scan# 4171
Delta R.T. 0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 91 Resp: 407148

Ion	Ratio	Lower	Upper
91	100		
106	34.4	0.0	83.4

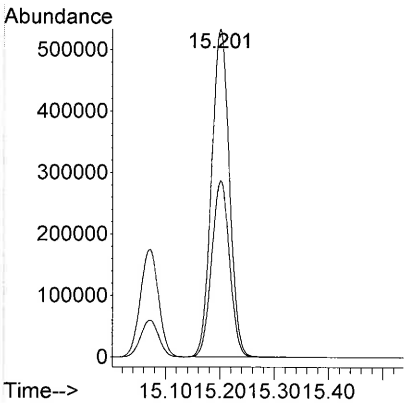


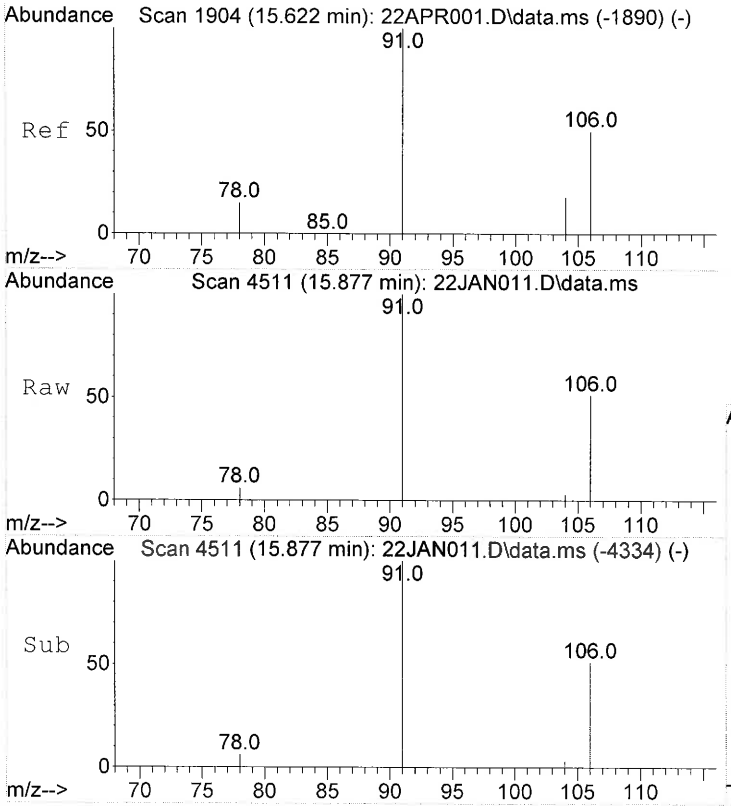


#38
p,&m-Xylene
Concen: 8231.70 pptv
RT: 15.201 min Scan# 4223
Delta R.T. 0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 91 Resp: 1217598

Ion	Ratio	Lower	Upper
91	100		
106	53.7	3.9	103.9

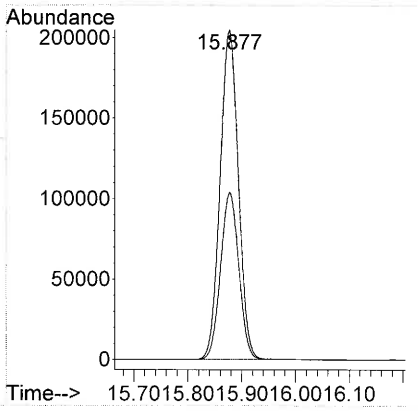


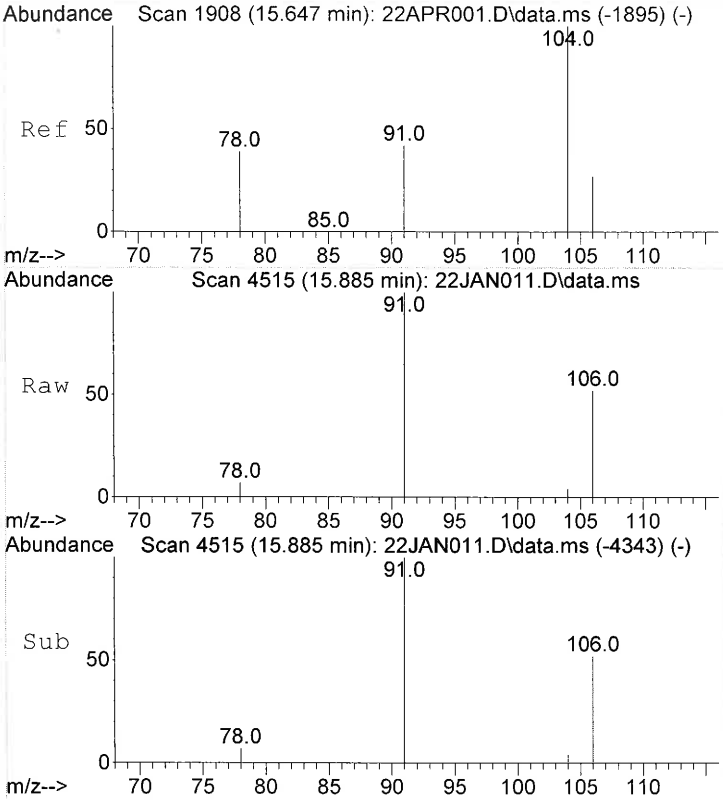


#39
o-Xylene
Concen: 3940.90 pptv
RT: 15.877 min Scan# 4511
Delta R.T. 0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 91 Resp: 480892

Ion	Ratio	Lower	Upper
91	100		
106	50.9	0.0	97.3

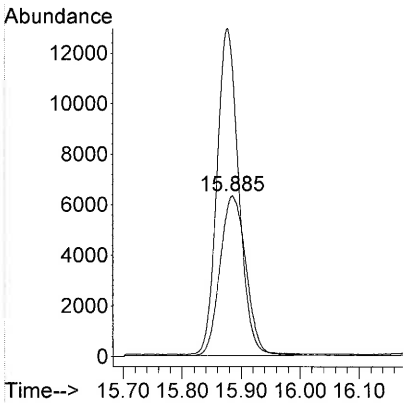


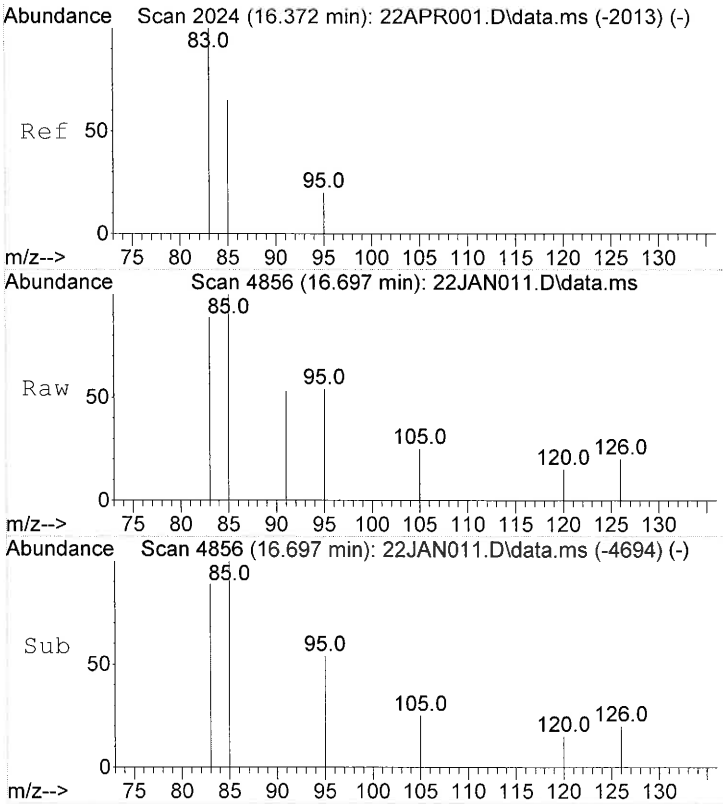


#40
Styrene
Concen: 246.79 pptv
RT: 15.885 min Scan# 4515
Delta R.T. -0.014 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:104 Resp: 19304

Ion	Ratio	Lower	Upper
104	100		
78	179.2	0.0	87.4#

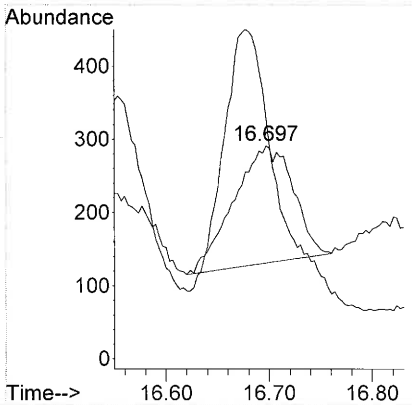


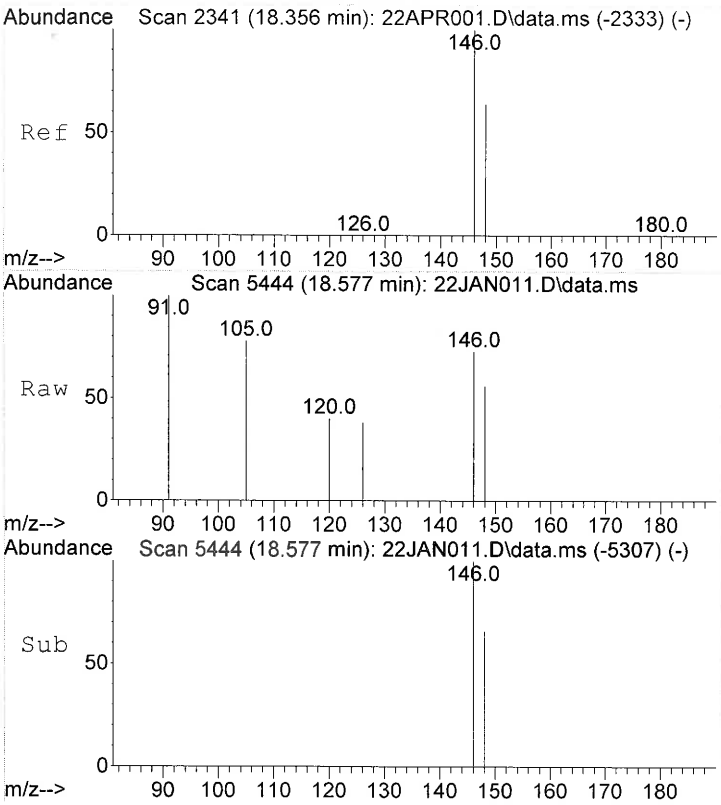


#41
1,1,2,2-Tetrachloroethane
Concen: 8.03 pptv
RT: 16.697 min Scan# 4856
Delta R.T. 0.046 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 83 Resp: 643

Ion	Ratio	Lower	Upper
83	100		
85	135.8	13.6	113.6#

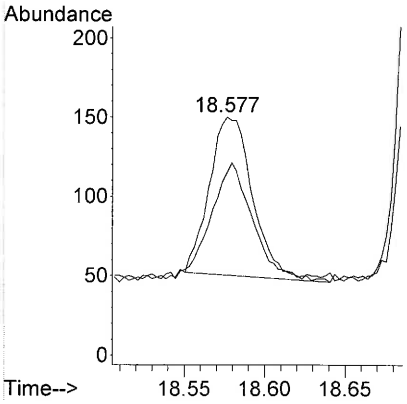


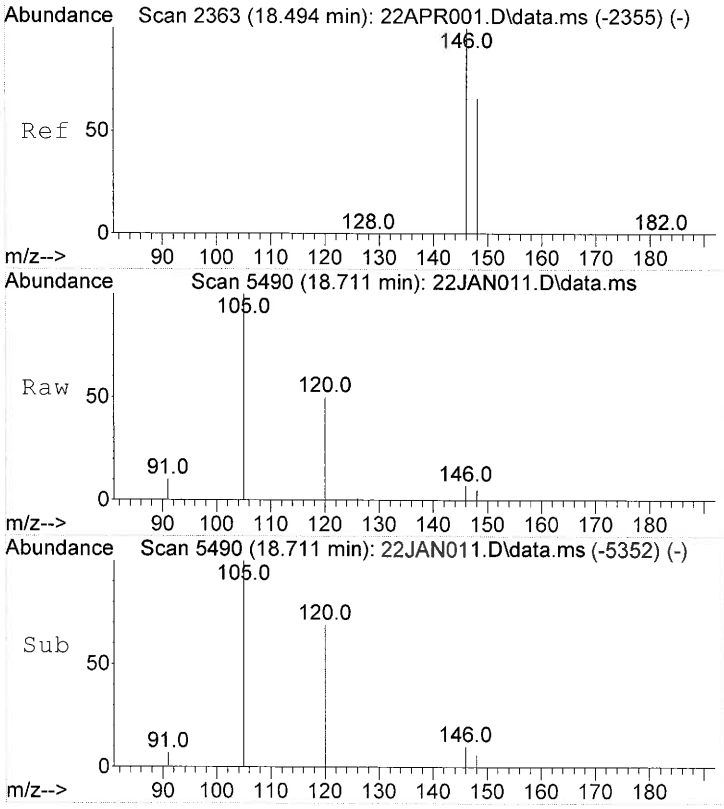


#43
1,3-Dichlorobenzene
Concen: 2.06 pptv
RT: 18.577 min Scan# 5444
Delta R.T. -0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:146 Resp: 187

Ion	Ratio	Lower	Upper
146	100		
148	60.6	13.9	113.9

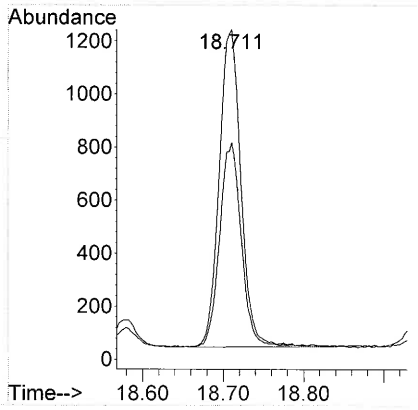


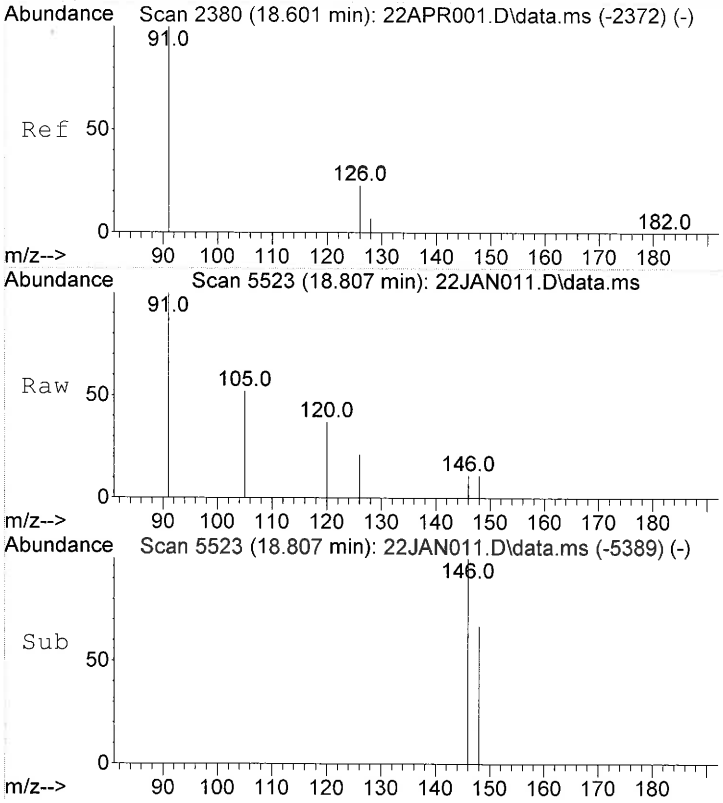


#44
1,4-Dichlorobenzene
Concen: 25.93 pptv
RT: 18.711 min Scan# 5490
Delta R.T. 0.002 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:146 Resp: 2249

Ion	Ratio	Lower	Upper
146	100		
148	64.2	15.5	115.5

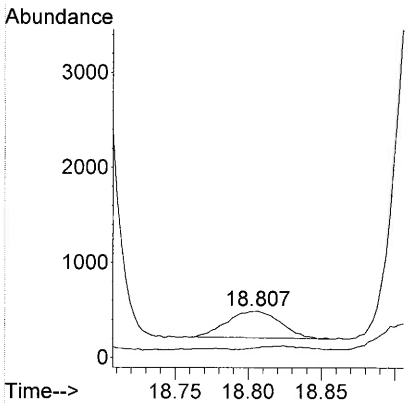


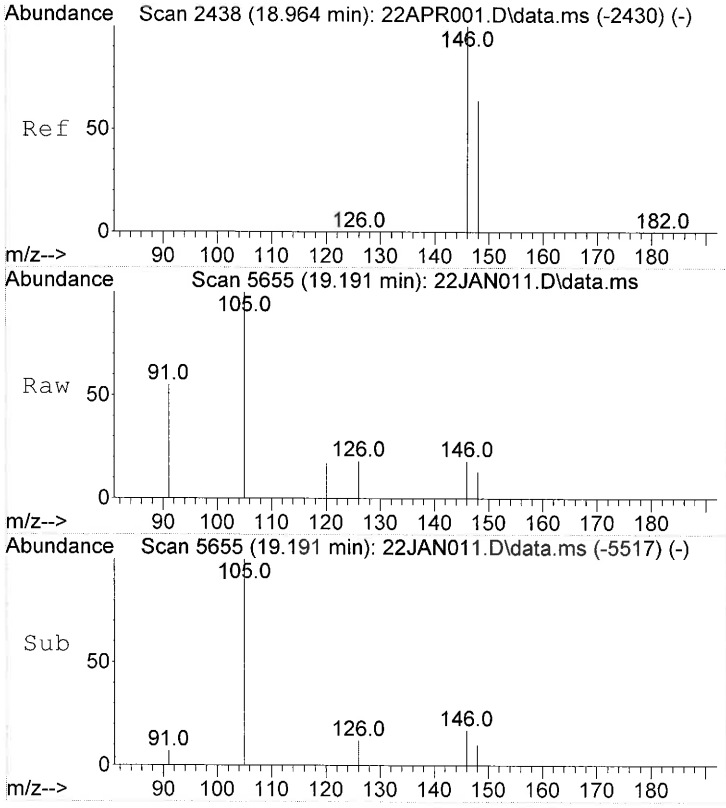


#45
Benzyl Chloride
Concen: 11.60 pptv
RT: 18.807 min Scan# 5523
Delta R.T. -0.009 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 91 Resp: 706

Ion	Ratio	Lower	Upper
91	100		
126	5.5	18.7	28.1#

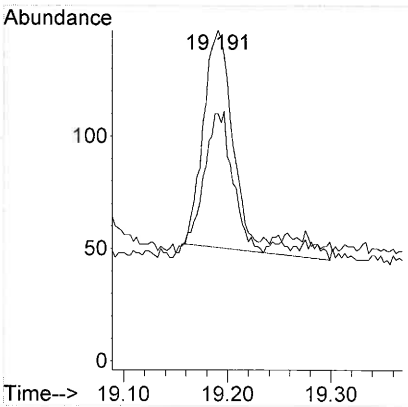


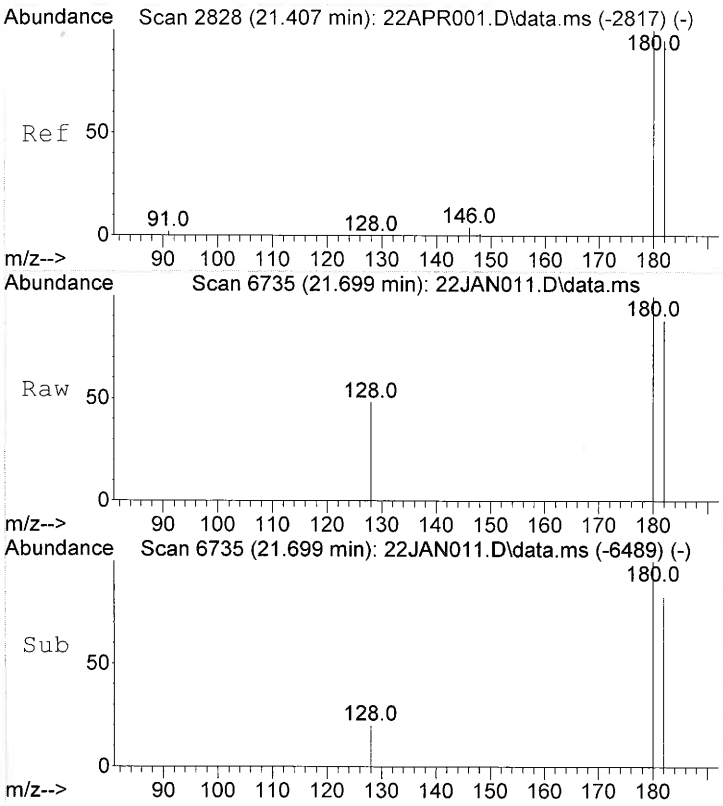


#46
1,2-Dichlorobenzene
Concen: 2.55 pptv
RT: 19.191 min Scan# 5655
Delta R.T. 0.002 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:146 Resp: 213

Ion	Ratio	Lower	Upper
146	100		
148	55.9	13.7	113.7

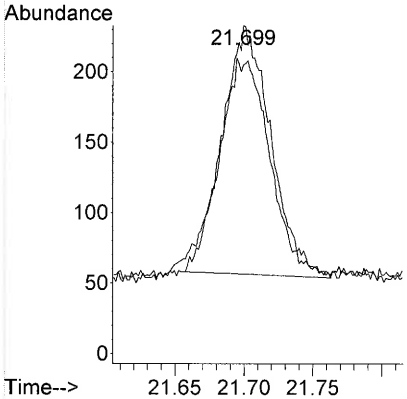


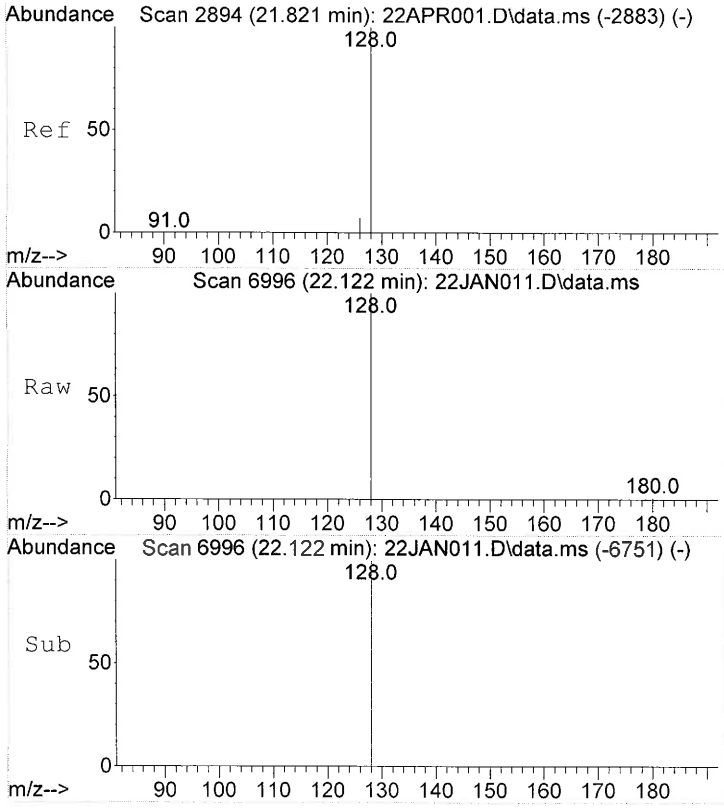


#47
1,2,4-Trichlorobenzene
Concen: 10.62 pptv
RT: 21.699 min Scan# 6735
Delta R.T. -0.001 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:180 Resp: 435

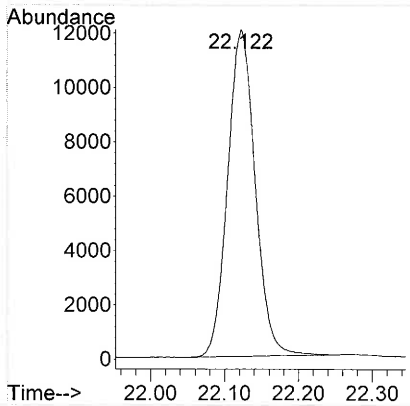
Ion	Ratio	Lower	Upper
180	100		
182	83.2	44.8	144.8

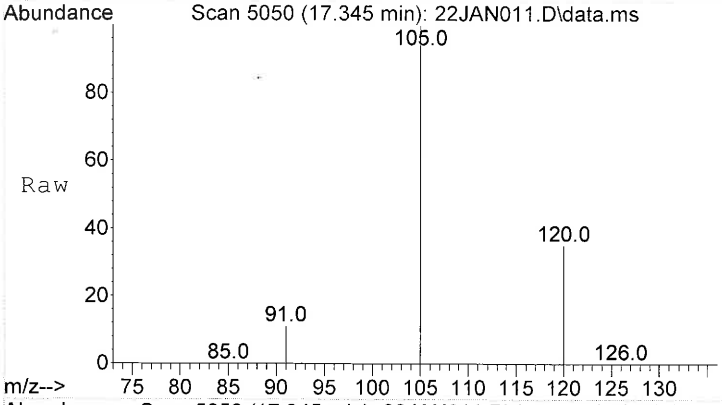




#48
Naphthalene
Concen: 472.41 pptv
RT: 22.122 min Scan# 6996
Delta R.T. -0.003 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:128 Resp: 31278

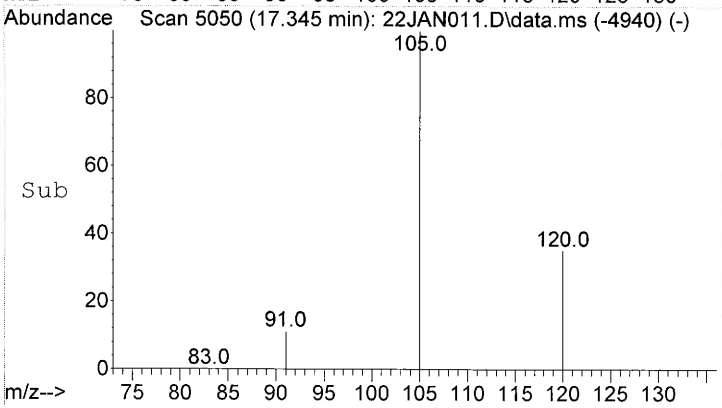


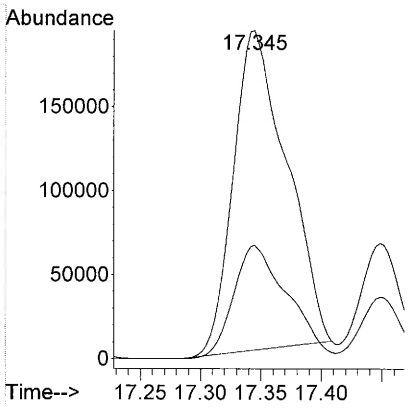


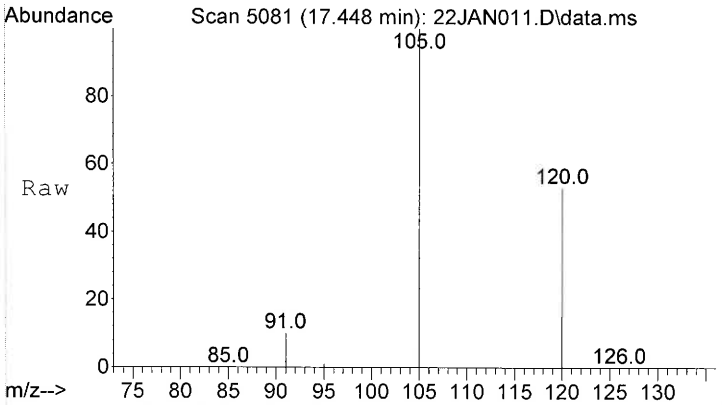
#49
1,3,5-Trimethylbenzene
Concen: 4885.91 pptv
RT: 17.345 min Scan# 5050
Delta R.T. -0.031 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:105 Resp: 584747

Ion	Ratio	Lower	Upper
105	100		
120	34.5	22.5	67.5



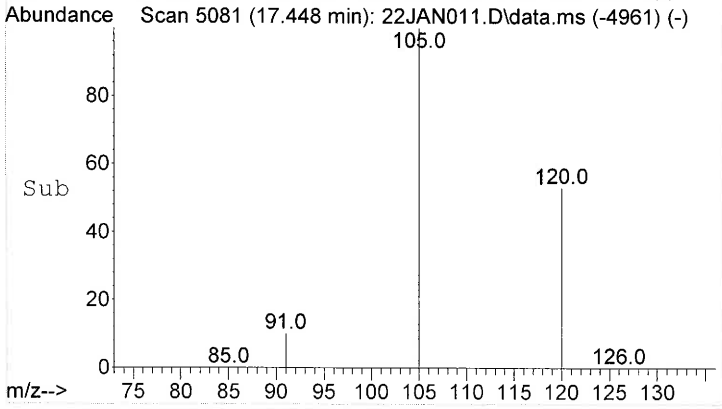


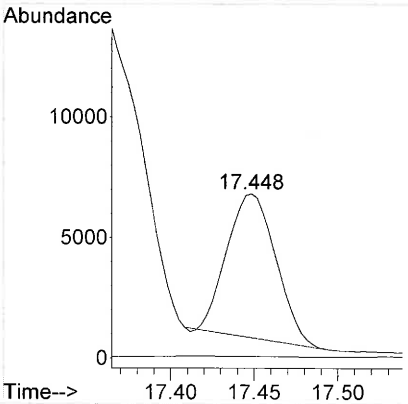


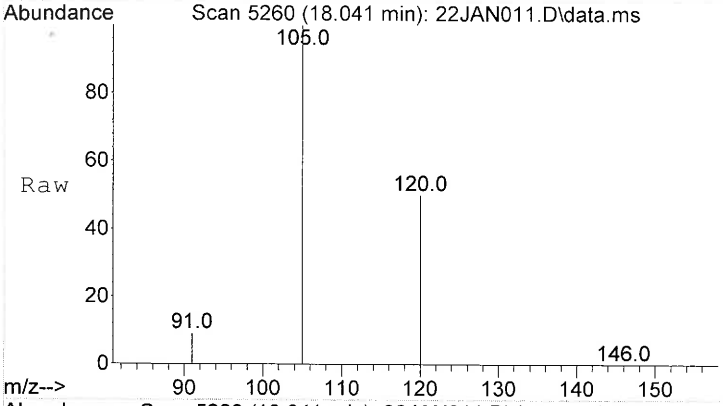
#50
2-Chlorotoluene
Concen: 134.33 pptv
RT: 17.448 min Scan# 5081
Delta R.T. 0.002 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion: 91 Resp: 12018

Ion	Ratio	Lower	Upper
91	100		
126	0.0	12.5	37.5#



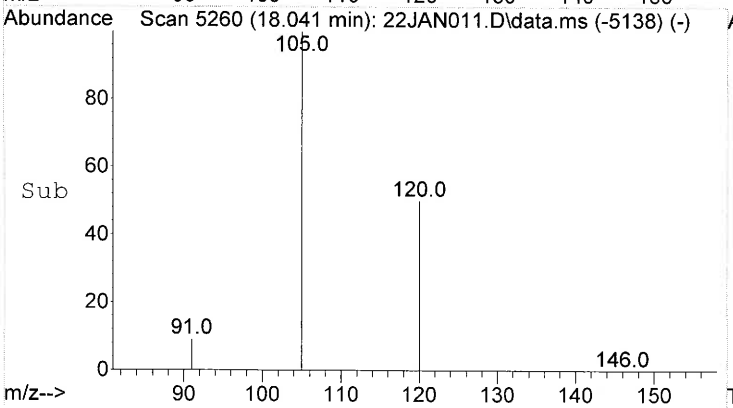


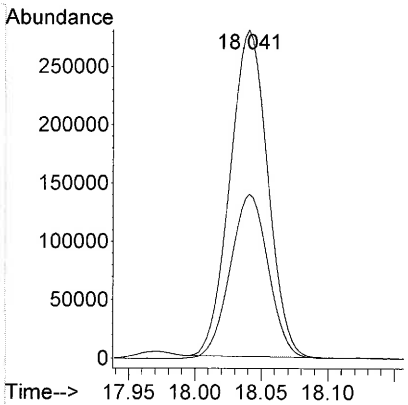


#51
1,2,4-Trimethylbenzene
Concen: 5324.11 pptv
RT: 18.041 min Scan# 5260
Delta R.T. 0.002 min
Lab File: 22JAN011.D
Acq: 22 Jan 2020 4:56 pm

Tgt Ion:105 Resp: 560327

Ion	Ratio	Lower	Upper
105	100		
120	51.1	0.0	91.0





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN013.D
Acq On : 22 Jan 2020 6:15 pm
Operator : DT
Sample : L012004-01 demaximis
Misc : 129 ML, 19.6/12.65
ALS Vial : ~~14~~ 16 Sample Multiplier: 3

Quant Time: Jan 22 18:40:11 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.021	130	64884	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	310819	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.903	117	248388	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	77972	1910.42	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 95.52%			
29) Toluene-d8	12.632	98	273027	2005.24	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 100.26%			
42) 4-Bromofluorobenzene	16.861	95	125716	2022.62	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 101.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.329	85	13373	143.55	pptv	99
3) Chloromethane	3.698	50	3381	163.08	pptv	99
5) Bromomethane	4.600	96	114	7.94	pptv	95
6) Chloroethane	4.786	64	94	8.15	pptv #	1
7) Trichlorofluoromethane...	5.194	101	6415	70.33	pptv	97
8) 1,1,2-Cl 1,2,2-F ethan...	5.925	151	1634	21.93	pptv	96
9) Acetone	5.805	43	382983	8069.43	pptv	97
11) Methylene Chloride	6.715	49	9138	310.28	pptv	94
12) t-Butyl Methyl Ether	7.084	73	102	1.16	pptv #	1
13) t-1,2-Dichloroethene	7.219	96	57	2.06	pptv #	21
14) Hexane	7.469	57	73997	1640.38	pptv	100
15) 1,1-Dichloroethane	7.697	63	50	0.94	pptv #	1
16) 2-Butanone	8.314	72	6024	398.45	pptv	91
18) Chloroform	8.838	83	838	12.37	pptv	99
19) 1,1,1-Trichloroethane	9.461	97	79	1.06	pptv #	1
20) Carbon Tetrachloride	9.836	117	1584	23.39	pptv	91
22) Benzene	10.013	78	72398	648.12	pptv	100
24) 1,2-Dichloroethane	9.915	62	298	7.45	pptv #	1
25) Trichloroethene	10.897	130	107	2.18	pptv #	22
26) 1,2-Dichloropropane	11.144	63	418	12.40	pptv	44
27) 1,4-Dioxane	11.410	88	138	5.22	pptv #	29
28) Bromodichloromethane	11.373	83	1648	26.25	pptv #	18
30) Toluene	12.748	91	600279	4036.09	pptv	100
32) t-1,3-Dichloropropene	12.208	75	110	2.66	pptv	43
33) 1,1,2-Trichloroethane	13.235	97	5367	121.56	pptv #	23
34) Tetrachloroethene	13.774	166	2046	24.88	pptv	98
36) Chlorobenzene	14.938	112	260	2.15	pptv	75
37) Ethylbenzene	15.069	91	129638	753.07	pptv	98
38) p,&m-Xylene	15.201	91	390185	2702.37	pptv	99
39) o-Xylene	15.875	91	151868	1274.98	pptv	94
40) Styrene	15.887	104	5961	78.07	pptv #	1
41) 1,1,2,2-Tetrachloroethane	16.700	83	211	2.70	pptv #	32
43) 1,3-Dichlorobenzene	18.579	146	101	1.14	pptv	92
44) 1,4-Dichlorobenzene	18.708	146	762	9.00	pptv	100
45) Benzyl Chloride	18.807	91	240	4.04	pptv #	67
46) 1,2-Dichlorobenzene	19.191	146	93	1.14	pptv	93

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN013.D
Acq On : 22 Jan 2020 6:15 pm
Operator : DT
Sample : L012004-01 demaximis
Misc : 129 ML, 19.6/12.65
ALS Vial : 14 Sample Multiplier: 3

Quant Time: Jan 22 18:40:11 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

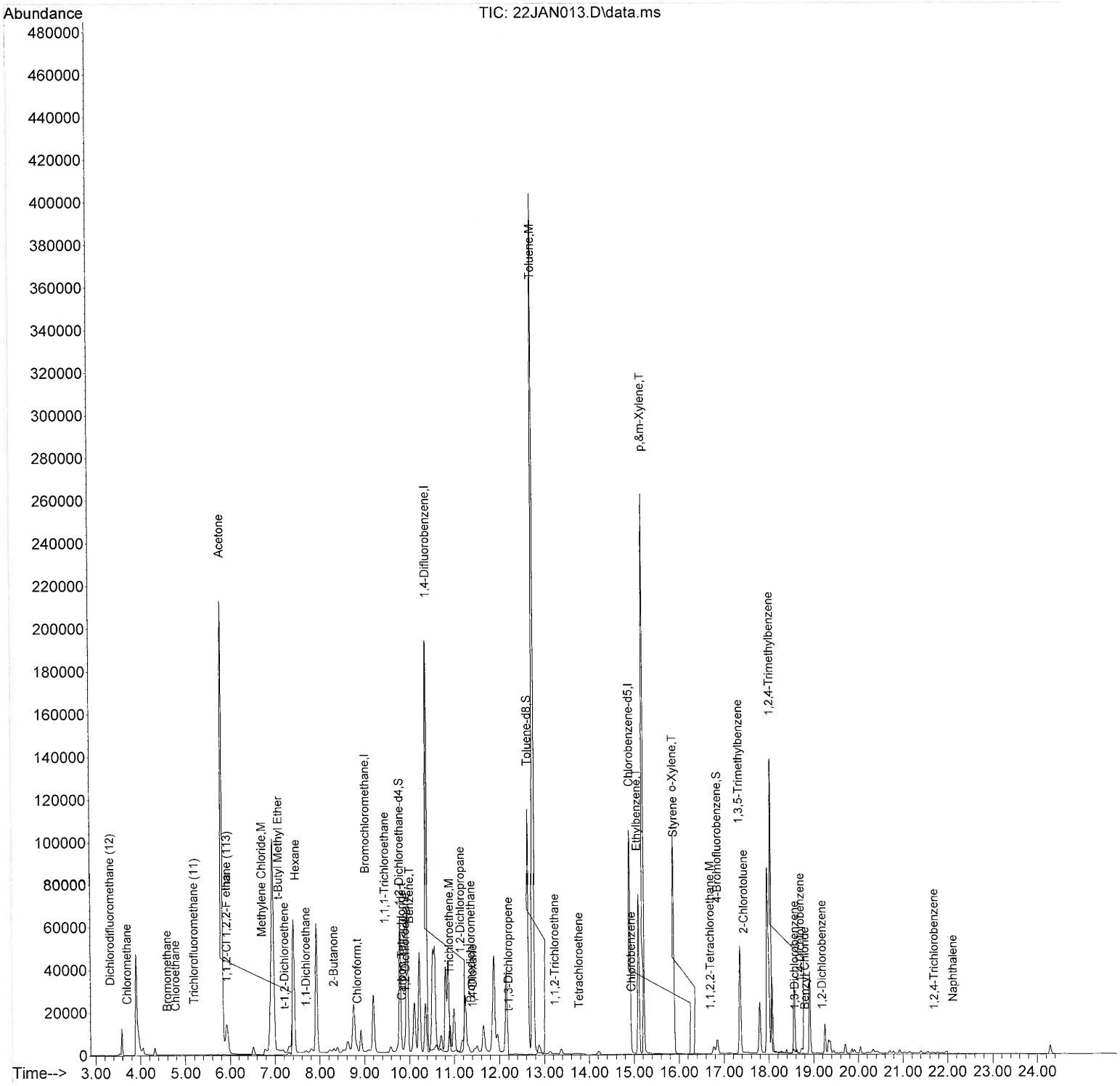
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,2,4-Trichlorobenzene	21.701	180	200	5.00	pptv	89
48) Naphthalene	22.125	128	10903	168.70	pptv	100
49) 1,3,5-Trimethylbenzene	17.345	105	180574	1545.69	pptv	84
50) 2-Chlorotoluene	17.448	91	3724	42.64	pptv #	50
51) 1,2,4-Trimethylbenzene	18.041	105	174795	1701.47	pptv	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN013.D
Acq On : 22 Jan 2020 6:15 pm
Operator : DT
Sample : L012004-01 demaximis
Misc : 129 ML, 19.6/12.65
ALS Vial : 14 Sample Multiplier: 3

Quant Time: Jan 22 18:40:11 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration



QC Report: Unit #1
Inject Time: 01/22/2020 18:15:35

QAQC Filename:QAQC\01222020\1_181535.asc

Autosampler Position: 16 / Run 02 of 09
Sample Name : L012~~003-02~~ dem 04-01 DT 1/23/20
Method Filename: DPF140-8 200D.MTC

Volume Parameters:

ISTD A Xfer Volume	set=50	Act=50	StartPress=14.4	EndPress=15.1
ISTD A Flow	set=50	Act=49.7		
ISTD A Trap Temp	set=22	hi=25	lo=22	avg=22
ISTD B Xfer Volume	set=0	Act=0	StartPress=0.0	EndPress=0.0
ISTD B Flow	set=0	Act=0.0		
ISTD B Trap Temp	Disabled			
ISTD C Xfer Volume	Disabled			
ISTD C Flow	Disabled			
ISTD C Trap Temp	Disabled			
Sample Xfer Volume	set=129	Act=129	StartPress=17.4	EndPress=17.1
Sample Xfer Flow	set=50	Act=49.7		
Smple Xfer Trap Temp	set=22	hi=22	lo=22	avg=22

Sweep Gas = Helium

Dry Purge Parameters:

Dry Purge Flow	set=140	Act=138.1		
Dry Purge Temp	set=25	hi=25	lo=25	avg=25
Dry Purge Time	set=8.00	act=8.00		

Desorb Parameters:

Trap Desorb Temp	set=200	hi=215	lo=198	avg=199
Trap Desorb Time	set=4.50	act=4.50		
MCS Temp	Disabled			
Cryo Focuser Temp	set=-190	hi=-191	lo=-201	avg=-197

Inject Parameters:

Cryo Union Temp	set=130	hi=131	lo=129	avg=130
Cryo Inject Temp	set=75	hi=89	lo=72	avg=73
Cryo Inject Time	set=2.50	act=2.50		

Bake Parameters:

Trap Bake Temp	set=280	hi=282	lo=279	avg=280
Trap Bake Time	set=10.00	act=10.00		
MCS Bake Temp	Disabled			

System Regions:

Manifold 1 Temp	set=100	avg=100
Manifold 2 Temp	set=100	avg=100
Oven 6 Port Temp	set=130	avg=130
Oven 8 Port Temp	set=130	avg=130
Oven 16 Port Temp	set=130	avg=130
Bottom Of Trap Temp	set=100	avg=100
Transfer Line Temp	set=100	avg=100

3. Initial Calibration

a. ICAL Summary
b. Results/Chromatograms

Default Initial Calibration Criteria:

EPA Method TO-15
Target compounds must have RSD <30%
With exception of two at <40%

(This criteria may be superseded by project specific criteria)

Response Factor Report ms2

Method Path : C:\msdchem\1\methods\
Method File : SL200118A.M
Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
Last Update : Thu Feb 13 07:43:35 2020
Response Via : Initial Calibration

Calibration Files
3.5 =17JAN002.D 5 =17JAN003.D 10 =18JAN005.D 20 =17JAN004.D 50 =17JAN005.D 100 =17JAN006.D 200 =17JAN008.D
500 =17JAN009.D 1000=17JAN010.D 2000=17JAN011.D 10K =17JAN012.D

		Compound	3.5	5	10	20	50	100	200	500	1000	2000	10K	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------												
2)		Dichlorodifluo...	3.603	3.230	3.122	2.792	2.693	2.593	2.856	2.759	2.719	2.646	2.574	2.872	11.11
3)		Chloromethane	0.862	0.862	0.738	0.545	0.595	0.534	0.597	0.590	0.558	0.586	0.561	0.639	19.23
4)		Vinyl Chloride	0.677	0.585	0.609	0.620	0.650	0.610	0.708	0.704	0.696	0.700	0.692	0.659	6.95
5)		Bromomethane		0.434	0.465	0.302	0.497	0.401	0.523	0.463	0.400	0.521	0.421	0.443	15.09
6)		Chloroethane			0.420	0.295	0.414	0.338	0.426	0.343	0.318	0.348	0.301	0.356	14.46
7)		Trichlorofluor...	2.910	2.807	2.948	2.725	2.718	2.651	2.955	2.875	2.851	2.787	2.698	2.811	3.73
8)		1,1,2-Cl 1,2,2...	2.321	2.292	2.306	2.246	2.273	2.198	2.435	2.367	2.347	2.277	2.196	2.296	3.11
9)		Acetone					2.163	1.655	1.393	1.289	1.287	1.286	1.168	1.463	23.54
10)		1,1-Dichloroet...	1.161	1.042	0.948	0.931	0.971	0.915	1.026	1.004	0.998	0.992	0.960	0.995	6.75
11)	M	Methylene Chlo...				1.016	0.909	0.859	0.948	0.911	0.901	0.884	0.835	0.908	6.14
12)		t-Butyl Methyl...	2.612	2.831	2.501	2.582	2.585	2.503	2.832	2.841	2.891	2.874	2.863	2.719	5.89
13)		t-1,2-Dichloro...	0.774	0.874	0.786	0.807	0.800	0.784	0.918	0.902	0.911	0.926	0.901	0.853	7.28
14)		Hexane	1.862	1.598	1.293	1.329	1.230	1.186	1.346	1.360	1.382	1.380	1.331	1.390	13.51
15)		1,1-Dichloroet...	1.660	1.627	1.697	1.622	1.591	1.546	1.727	1.707	1.699	1.669	1.584	1.648	3.55
16)		2-Butanone				0.524	0.413	0.423	0.470	0.467	0.478	0.491	0.462	0.466	7.61
17)		c-1,2-Dichloro...	1.128	1.059	0.942	0.974	0.958	0.908	1.028	1.031	1.037	1.030	0.987	1.007	6.12
18)	t	Chloroform	2.055	2.055	2.093	1.967	1.995	1.960	2.233	2.195	2.195	2.150	2.070	2.088	4.54
19)		1,1,1-Trichlor...	2.329	2.257	2.303	2.137	2.163	2.124	2.407	2.395	2.418	2.373	2.359	2.297	4.81
20)	t	Carbon Tetrach...	1.991	1.852	1.952	1.871	1.908	1.909	2.181	2.250	2.318	2.329	2.399	2.087	10.02
21)	I	1,4-Difluorobenzene	----------ISTD----------												
22)	T	Benzene					0.918	0.727	0.770	0.682	0.661	0.655	0.618	0.719	14.06
23)	S	1,2-Dichloroet...	0.253	0.253	0.286	0.259	0.262	0.263	0.262	0.261	0.261	0.261	0.268	0.263	3.41
24)		1,2-Dichloroet...	0.283	0.245	0.263	0.232	0.245	0.232	0.273	0.266	0.266	0.267	0.260	0.257	6.44
25)	M	Trichloroethene	0.336	0.318	0.302	0.291	0.310	0.299	0.338	0.325	0.319	0.322	0.314	0.316	4.63
26)		1,2-Dichloropr...	0.239	0.218	0.215	0.195	0.206	0.199	0.232	0.221	0.222	0.221	0.216	0.217	6.07
27)		1,4-Dioxane			0.196	0.209	0.146	0.130	0.173	0.168	0.170	0.170	0.170	0.170	13.77
28)		Bromodichlorom...	0.362	0.350	0.387	0.344	0.374	0.360	0.438	0.440	0.452	0.463	0.472	0.404	12.23
29)	S	Toluene-d8	0.863	0.864	0.887	0.869	0.866	0.871	0.878	0.878	0.883	0.879	0.899	0.876	1.27
30)	M	Toluene			1.208	1.037	0.925	0.838	0.959	0.914	0.912	0.911	0.908	0.957	11.28
31)	I	Chlorobenzene-d5	----------ISTD----------												
32)		t-1,3-Dichloro...	0.315	0.293	0.280	0.278	0.297	0.297	0.356	0.368	0.381	0.401	0.402	0.333	14.63
33)		1,1,2-Trichlor...	0.386	0.302	0.353	0.289	0.346	0.334	0.401	0.389	0.384	0.376	0.350	0.356	10.21
34)		Tetrachloroethene	0.731	0.677	0.589	0.597	0.650	0.621	0.718	0.689	0.679	0.674	0.658	0.662	6.87
35)	t	1,2-Dibromoethane	0.442	0.418	0.421	0.402	0.458	0.446	0.543	0.535	0.537	0.538	0.514	0.478	11.69

Response Factor Report ms2

ethod Path : C:\msdchem\1\methods\
ethod File : SL200118A.M
itle : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm

)		Chlorobenzene	1.175	1.044	0.837	0.864	0.911	0.879	1.048	1.015	1.007	0.990	0.950	0.975	10.17
)	T	Ethylbenzene	1.705	1.482	1.195	1.240	1.192	1.169	1.428	1.448	1.472	1.470	1.447	1.386	12.02
)	T	p,&m-Xylene	1.827	1.495	1.098	1.105	0.923	0.887	1.083	1.089	1.106	1.100	1.075	1.163	23.07
)	T	o-Xylene	1.042	0.950	0.796	0.887	0.811	0.804	1.004	1.042	1.080	1.077	1.057	0.959	11.99
)		Styrene			0.402	0.471	0.458	0.479	0.631	0.708	0.762	0.795	0.827	0.615	26.82
)	M	1,1,2,2-Tetrac...	0.568	0.536	0.524	0.502	0.602	0.598	0.736	0.738	0.741	0.707	0.670	0.629	14.61
)	S	4-Bromofluorob...	0.483	0.486	0.479	0.481	0.496	0.502	0.502	0.511	0.516	0.519	0.531	0.500	3.47
)		1,3-Dichlorobe...	0.714	0.659	0.543	0.563	0.668	0.659	0.781	0.794	0.805	0.830	0.828	0.713	14.43
)		1,4-Dichlorobe...	0.759	0.677	0.520	0.537	0.618	0.602	0.714	0.732	0.748	0.789	0.801	0.682	14.46
)		Benzyl Chloride				0.268	0.303	0.327	0.480	0.564	0.657	0.750		0.478	39.22
)		1,2-Dichlorobe...	0.646	0.596	0.496	0.498	0.636	0.625	0.732	0.734	0.740	0.764	0.750	0.656	14.86
)		1,2,4-Trichlor...	0.429	0.331	0.251	0.211	0.294	0.267	0.357	0.338	0.334	0.369	0.359	0.322	19.12
)		Naphthalene			0.432	0.441	0.497	0.419	0.590	0.535	0.535	0.620	0.614	0.520	15.00
)		1,3,5-Trimethy...	0.847	0.772	0.631	0.690	0.792	0.807	1.055	1.123	1.199	1.208	1.223	0.941	23.78
)		2-Chlorotoluene	0.510	0.590	0.527	0.542	0.634	0.640	0.846	0.871	0.887	0.869	0.820	0.703	21.99
)		1,2,4-Trimethy...	0.686	0.584	0.477	0.536	0.794	0.794	0.986	1.035	1.079	1.073	1.055	0.827	27.90

) = Out of Range

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN002.D
Acq On : 17 Jan 2020 7:09 pm
Operator : DT
Sample : 3.5 PPTV ICAL
Misc : 35 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 17 19:34:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.024	130	70895	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	334747	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	266459	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	84663	1844.78	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	92.24%		
29) Toluene-d8	12.632	98	288926	1939.86	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	96.99%		
42) 4-Bromofluorobenzene	16.862	95	128656	1636.28	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	81.81%		
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.378	85	447	4.60	pptv	98
3) Chloromethane	3.745	50	107	5.27	pptv	97
4) Vinyl Chloride	3.960	62	84	3.68	pptv	80
5) Bromomethane	4.632	96	104	7.33	pptv #	10
6) Chloroethane	4.772	64	100	8.99	pptv	89
7) Trichlorofluoromethane...	5.229	101	361	3.80	pptv	92
8) 1,1,2-Cl 1,2,2-F ethan...	5.946	151	288	3.73	pptv	97
9) Acetone	5.865	43	1960	39.51	pptv	72
10) 1,1-Dichloroethene	6.106	96	144	3.84	pptv	95
11) Methylene Chloride	6.721	49	271	8.85	pptv	90
12) t-Butyl Methyl Ether	7.115	73	324	3.35	pptv	73
13) t-1,2-Dichloroethene	7.222	96	96	2.61	pptv	68
14) Hexane	7.475	57	231	4.86	pptv	95
15) 1,1-Dichloroethane	7.768	63	206	3.61	pptv	87
16) 2-Butanone	8.359	72	125	7.68	pptv	41
17) c-1,2-Dichloroethene	8.607	96	140	3.44	pptv	95
18) Chloroform	8.841	83	255	3.39	pptv	100
19) 1,1,1-Trichloroethane	9.445	97	289	3.73	pptv	99
20) Carbon Tetrachloride	9.827	117	247	3.46	pptv	67
22) Benzene	10.019	78	2577	20.25	pptv	99
24) 1,2-Dichloroethane	9.915	62	166	3.46	pptv	95
25) Trichloroethene	10.913	130	197	3.06	pptv	93
26) 1,2-Dichloropropane	11.108	63	140	3.75	pptv	77
27) 1,4-Dioxane	11.425	88	247	7.82	pptv	95
28) Bromodichloromethane	11.419	83	212	2.99	pptv	78
30) Toluene	12.752	91	1220	7.56	pptv	99
32) t-1,3-Dichloropropene	12.205	75	147	2.92	pptv	95
33) 1,1,2-Trichloroethane	13.159	97	180	3.88	pptv	93
34) Tetrachloroethene	13.771	166	341	4.22	pptv	98
35) 1,2-Dibromoethane	14.263	107	206	2.92	pptv	99
36) Chlorobenzene	14.959	112	548	4.32	pptv	99
37) Ethylbenzene	15.070	91	795	4.48	pptv	100
38) p,&m-Xylene	15.202	91	1704	12.04	pptv	98
39) o-Xylene	15.876	91	486	3.52	pptv	97
40) Styrene	15.897	104	226	2.03	pptv	96
41) 1,1,2,2-Tetrachloroethane	16.651	83	265	3.05	pptv	96

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN002.D
Acq On : 17 Jan 2020 7:09 pm
Operator : DT
Sample : 3.5 PPTV ICAL
Misc : 35 ML
ALS Vial : 3 Sample Multiplier: 1

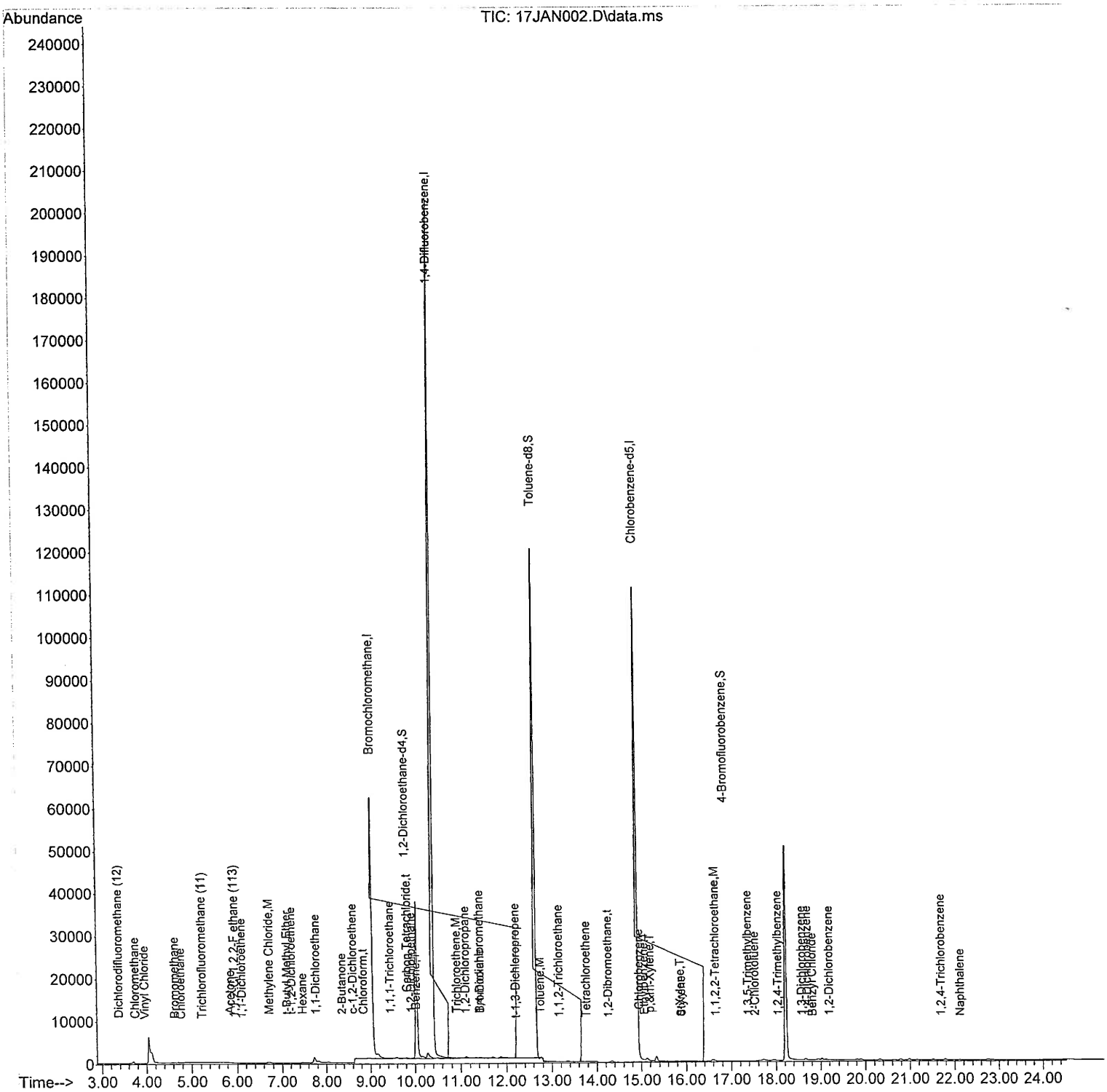
Quant Time: Jan 17 19:34:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.583	146	333	2.71 pptv	91
44) 1,4-Dichlorobenzene	18.708	146	354	2.82 pptv	89
45) Benzyl Chloride	18.816	91	145	2.14 pptv #	89
46) 1,2-Dichlorobenzene	19.197	146	301	2.55 pptv	99
47) 1,2,4-Trichlorobenzene	21.702	180	200	3.18 pptv	90
48) Naphthalene	22.129	128	522	4.50 pptv	100
49) 1,3,5-Trimethylbenzene	17.379	105	395	2.52 pptv	76
50) 2-Chlorotoluene	17.530	91	238	2.25 pptv	78
51) 1,2,4-Trimethylbenzene	18.047	105	320	2.23 pptv	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN002.D
Acq On : 17 Jan 2020 7:09 pm
Operator : DT
Sample : 3.5 PPTV ICAL
Misc : 35 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 17 19:34:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN003.D
Acq On : 17 Jan 2020 7:45 pm
Operator : DT
Sample : 5.0 PPTV ICAL
Misc : 50 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 17 20:10:16 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.028	130	69104	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	328141	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	260986	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	83013	1845.24	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 92.26%			
29) Toluene-d8	12.632	98	283427	1941.24	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 97.06%			
42) 4-Bromofluorobenzene	16.862	95	126897	1647.75	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 82.39%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.387	85	558	5.89	pptv	99
3) Chloromethane	3.753	50	149	7.52	pptv	90
4) Vinyl Chloride	3.969	62	101	4.54	pptv	93
5) Bromomethane	4.646	96	75	5.43	pptv	89
6) Chloroethane	4.789	64	146	13.46	pptv	98
7) Trichlorofluoromethane...	5.234	101	485	5.23	pptv	95
8) 1,1,2-Cl 1,2,2-F ethan...	5.946	151	396	5.27	pptv	94
9) Acetone	5.869	43	2047	42.33	pptv	80
10) 1,1-Dichloroethene	6.116	96	180	4.93	pptv	93
11) Methylene Chloride	6.731	49	267	8.95	pptv	78
12) t-Butyl Methyl Ether	7.124	73	489	5.19	pptv	89
13) t-1,2-Dichloroethene	7.225	96	151	4.21	pptv	99
14) Hexane	7.478	57	276	5.96	pptv	69
15) 1,1-Dichloroethane	7.768	63	281	5.05	pptv	85
16) 2-Butanone	8.350	72	160	10.09	pptv	63
17) c-1,2-Dichloroethene	8.613	96	183	4.62	pptv	97
18) Chloroform	8.838	83	355	4.84	pptv	90
19) 1,1,1-Trichloroethane	9.458	97	390	5.16	pptv	79
20) Carbon Tetrachloride	9.842	117	320	4.61	pptv	81
22) Benzene	10.019	78	2542	20.38	pptv	99
24) 1,2-Dichloroethane	9.924	62	201	4.27	pptv	93
25) Trichloroethene	10.913	130	261	4.14	pptv	91
26) 1,2-Dichloropropane	11.114	63	179	4.89	pptv	71
27) 1,4-Dioxane	11.428	88	300	9.69	pptv	88
28) Bromodichloromethane	11.419	83	287	4.13	pptv	86
30) Toluene	12.749	91	1357	8.58	pptv	99
32) t-1,3-Dichloropropene	12.205	75	191	3.87	pptv	98
33) 1,1,2-Trichloroethane	13.156	97	197	4.34	pptv	94
34) Tetrachloroethene	13.771	166	442	5.59	pptv	100
35) 1,2-Dibromoethane	14.261	107	273	3.95	pptv	92
36) Chlorobenzene	14.964	112	681	5.48	pptv	99
37) Ethylbenzene	15.071	91	967	5.57	pptv	99
38) p,&m-Xylene	15.204	91	1951	14.07	pptv	97
39) o-Xylene	15.876	91	620	4.59	pptv	99
40) Styrene	15.903	104	321	2.94	pptv	88
41) 1,1,2,2-Tetrachloroethane	16.651	83	350	4.11	pptv	96

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN003.D
Acq On : 17 Jan 2020 7:45 pm
Operator : DT
Sample : 5.0 PPTV ICAL
Misc : 50 ML
ALS Vial : 3 Sample Multiplier: 1

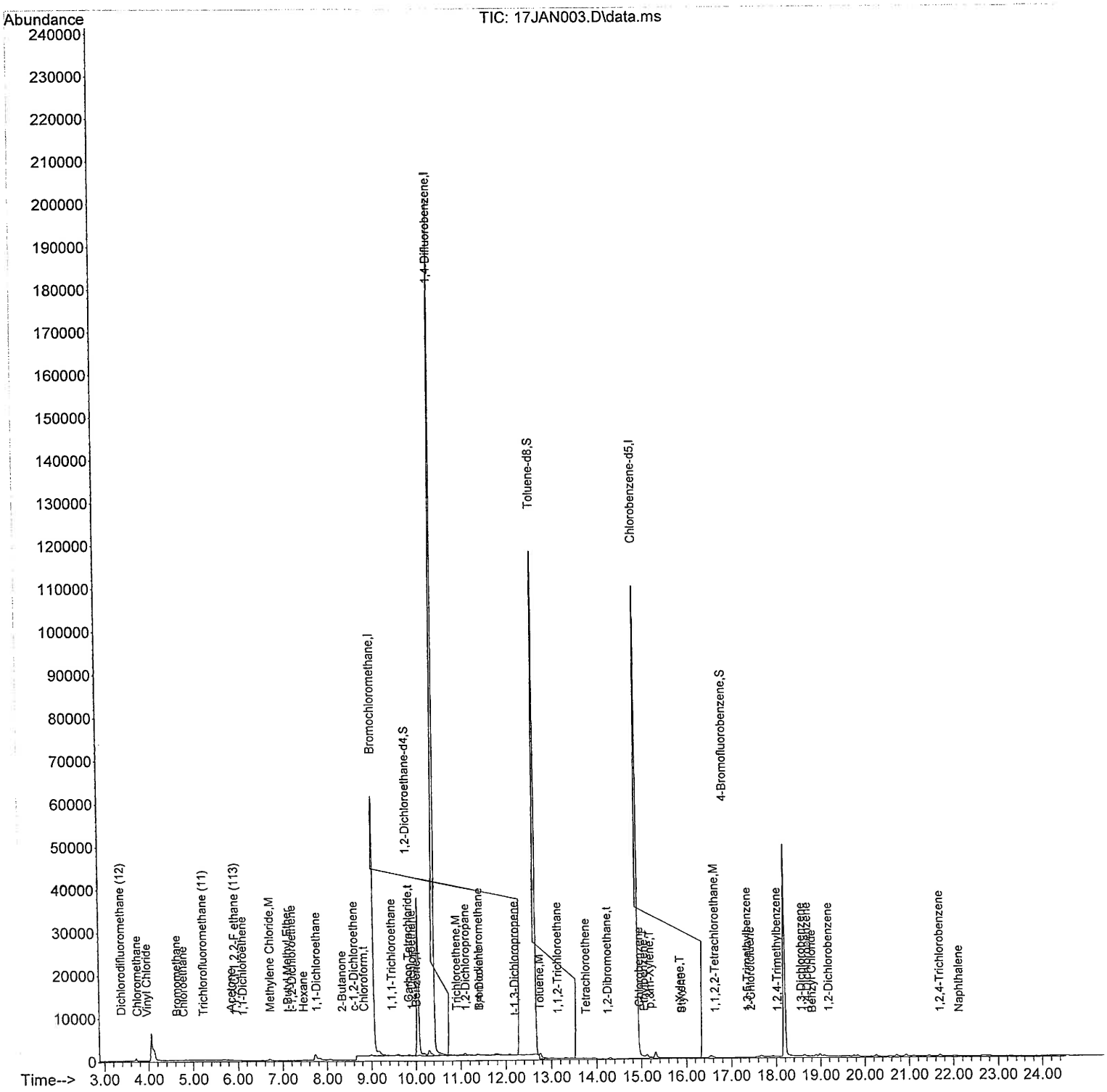
Quant Time: Jan 17 20:10:16 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.580	146	430	3.57 pptv	100
44) 1,4-Dichlorobenzene	18.711	146	442	3.60 pptv	99
45) Benzyl Chloride	18.816	91	201	3.03 pptv #	82
46) 1,2-Dichlorobenzene	19.189	146	389	3.37 pptv	96
47) 1,2,4-Trichlorobenzene	21.700	180	216	3.51 pptv	96
48) Naphthalene	22.128	128	554	4.87 pptv	100
49) 1,3,5-Trimethylbenzene	17.379	105	504	3.29 pptv	77
50) 2-Chlorotoluene	17.449	91	385	3.71 pptv	78
51) 1,2,4-Trimethylbenzene	18.039	105	381	2.71 pptv	49

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN003.D
Acq On : 17 Jan 2020 7:45 pm
Operator : DT
Sample : 5.0 PPTV ICAL
Misc : 50 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 17 20:10:16 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 18JAN005.D
Acq On : 18 Jan 2020 12:13 pm
Operator : MJ
Sample : 10 PPTV ICAL
Misc : 100 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 12:38:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.024	130	66688	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	311491	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	250648	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	89181	2088.31	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 104.42%			
29) Toluene-d8	12.632	98	276424	1994.48	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 99.72%			
42) 4-Bromofluorobenzene	16.858	95	120039	1622.99	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 81.15%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.375	85	1041	11.40	pptv	100
3) Chloromethane	3.742	50	246	12.87	pptv	100
4) Vinyl Chloride	3.966	62	203	9.45	pptv	96
5) Bromomethane	4.638	96	155	11.62	pptv	92
6) Chloroethane	4.777	64	463	44.23	pptv	100
7) Trichlorofluoromethane...	5.234	101	983	10.99	pptv	99
8) 1,1,2-Cl 1,2,2-F ethan...	5.936	151	769	10.60	pptv	92
9) Acetone	5.862	43	2663	57.06	pptv	85
10) 1,1-Dichloroethene	6.110	96	316	8.96	pptv	91
11) Methylene Chloride	6.724	49	434	15.07	pptv	93
12) t-Butyl Methyl Ether	7.118	73	834	9.18	pptv	96
13) t-1,2-Dichloroethene	7.222	96	262	7.57	pptv	95
14) Hexane	7.481	57	431	9.64	pptv	91
15) 1,1-Dichloroethane	7.762	63	566	10.54	pptv	95
16) 2-Butanone	8.347	72	235	15.36	pptv	63
17) c-1,2-Dichloroethene	8.616	96	314	8.21	pptv #	53
18) Chloroform	8.838	83	698	9.87	pptv	94
19) 1,1,1-Trichloroethane	9.455	97	768	10.53	pptv	88
20) Carbon Tetrachloride	9.845	117	651	9.71	pptv	85
22) Benzene	10.019	78	3075	25.97	pptv	100
24) 1,2-Dichloroethane	9.921	62	409	9.16	pptv	86
25) Trichloroethene	10.913	130	471	7.87	pptv	93
26) 1,2-Dichloropropane	11.108	63	335	9.65	pptv	78
27) 1,4-Dioxane	11.428	88	306	10.42	pptv	89
28) Bromodichloromethane	11.422	83	603	9.14	pptv	95
30) Toluene	12.745	91	1882	12.54	pptv	98
32) t-1,3-Dichloropropene	12.201	75	351	7.41	pptv	92
33) 1,1,2-Trichloroethane	13.152	97	443	10.16	pptv	96
34) Tetrachloroethene	13.773	166	738	9.72	pptv	97
35) 1,2-Dibromoethane	14.261	107	528	7.96	pptv	90
36) Chlorobenzene	14.957	112	1049	8.79	pptv	97
37) Ethylbenzene	15.073	91	1497	8.98	pptv	98
38) p,&m-Xylene	15.202	91	2753	20.68	pptv	98
39) o-Xylene	15.878	91	997	7.68	pptv	94
40) Styrene	15.903	104	504	4.81	pptv	98
41) 1,1,2,2-Tetrachloroethane	16.651	83	657	8.03	pptv	98

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 18JAN005.D
Acq On : 18 Jan 2020 12:13 pm
Operator : MJ
Sample : 10 PPTV ICAL
Misc : 100 ML
ALS Vial : 3 Sample Multiplier: 1

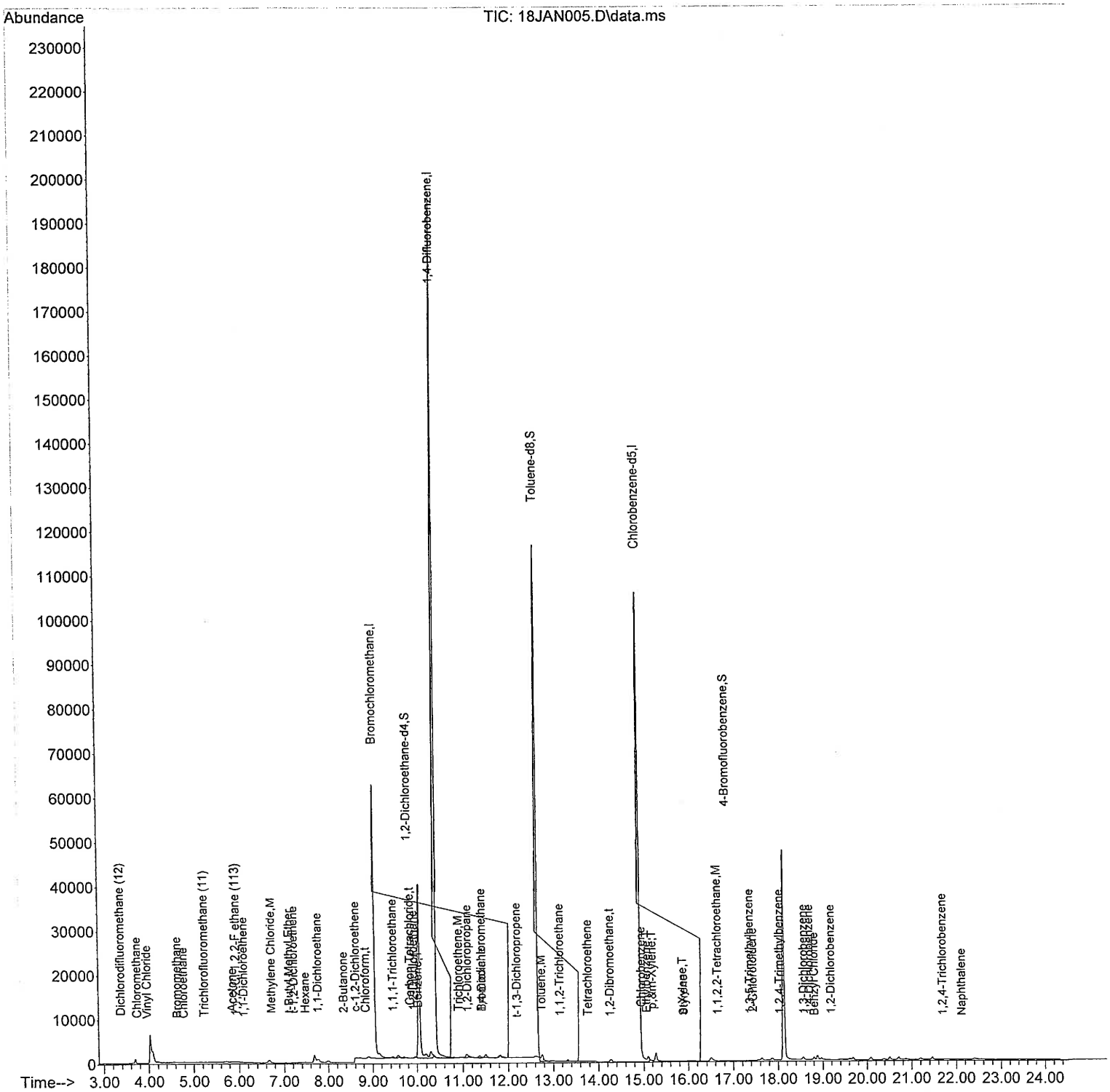
Quant Time: Jan 18 12:38:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.580	146	680	5.87 pptv	96
44) 1,4-Dichlorobenzene	18.711	146	652	5.53 pptv	95
45) Benzyl Chloride	18.816	91	320	5.02 pptv #	87
46) 1,2-Dichlorobenzene	19.191	146	622	5.60 pptv	99
47) 1,2,4-Trichlorobenzene	21.700	180	314	5.31 pptv	96
48) Naphthalene	22.126	128	542	4.97 pptv	100
49) 1,3,5-Trimethylbenzene	17.379	105	791	5.37 pptv	77
50) 2-Chlorotoluene	17.449	91	660	6.62 pptv	81
51) 1,2,4-Trimethylbenzene	18.042	105	598	4.43 pptv	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 18JAN005.D
Acq On : 18 Jan 2020 12:13 pm
Operator : MJ
Sample : 10 PPTV ICAL
Misc : 100 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 12:38:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN004.D
Acq On : 17 Jan 2020 8:22 pm
Operator : DT
Sample : 20 PPTV ICAL
Misc : 200 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 17 20:46:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.024	130	65838	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	319166	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	253908	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	82690	1889.75	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 94.49%			
29) Toluene-d8	12.632	98	277337	1952.95	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 97.65%			
42) 4-Bromofluorobenzene	16.858	95	122059	1629.11	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 81.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.361	85	1838	20.38	pptv	97
3) Chloromethane	3.727	50	359	19.03	pptv	97
4) Vinyl Chloride	3.942	62	408	19.25	pptv	96
5) Bromomethane	4.623	96	199	15.11	pptv	96
6) Chloroethane	4.772	64	194	18.77	pptv	92
7) Trichlorofluoromethane...	5.226	101	1794	20.32	pptv	96
8) 1,1,2-Cl 1,2,2-F ethan...	5.942	151	1479	20.65	pptv	93
9) Acetone	5.855	43	3464	75.19	pptv	83
10) 1,1-Dichloroethene	6.103	96	613	17.61	pptv	98
11) Methylene Chloride	6.724	49	669	23.53	pptv	100
12) t-Butyl Methyl Ether	7.109	73	1700	18.95	pptv	99
13) t-1,2-Dichloroethene	7.219	96	531	15.54	pptv	99
14) Hexane	7.478	57	875	19.82	pptv	96
15) 1,1-Dichloroethane	7.771	63	1068	20.14	pptv	99
16) 2-Butanone	8.341	72	345	22.84	pptv	80
17) c-1,2-Dichloroethene	8.613	96	641	16.98	pptv	70
18) Chloroform	8.841	83	1295	18.54	pptv	97
19) 1,1,1-Trichloroethane	9.454	97	1407	19.55	pptv	95
20) Carbon Tetrachloride	9.839	117	1232	18.61	pptv	97
22) Benzene	10.013	78	4155	34.25	pptv	96
24) 1,2-Dichloroethane	9.918	62	742	16.21	pptv	88
25) Trichloroethene	10.906	130	929	15.16	pptv	94
26) 1,2-Dichloropropane	11.111	63	621	17.46	pptv	86
27) 1,4-Dioxane	11.419	88	666	22.13	pptv	99
28) Bromodichloromethane	11.416	83	1099	16.25	pptv	99
30) Toluene	12.745	91	3311	21.53	pptv	99
32) t-1,3-Dichloropropene	12.205	75	706	14.71	pptv	99
33) 1,1,2-Trichloroethane	13.159	97	735	16.64	pptv	99
34) Tetrachloroethene	13.775	166	1516	19.71	pptv	98
35) 1,2-Dibromoethane	14.261	107	1020	15.17	pptv	98
36) Chlorobenzene	14.959	112	2193	18.13	pptv	98
37) Ethylbenzene	15.070	91	3148	18.64	pptv	97
38) p,&m-Xylene	15.199	91	5610	41.59	pptv	99
39) o-Xylene	15.876	91	2252	17.13	pptv	96
40) Styrene	15.903	104	1196	11.26	pptv	92
41) 1,1,2,2-Tetrachloroethane	16.651	83	1275	15.39	pptv	99

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN004.D
Acq On : 17 Jan 2020 8:22 pm
Operator : DT
Sample : 20 PPTV ICAL
Misc : 200 ML
ALS Vial : 3 Sample Multiplier: 1

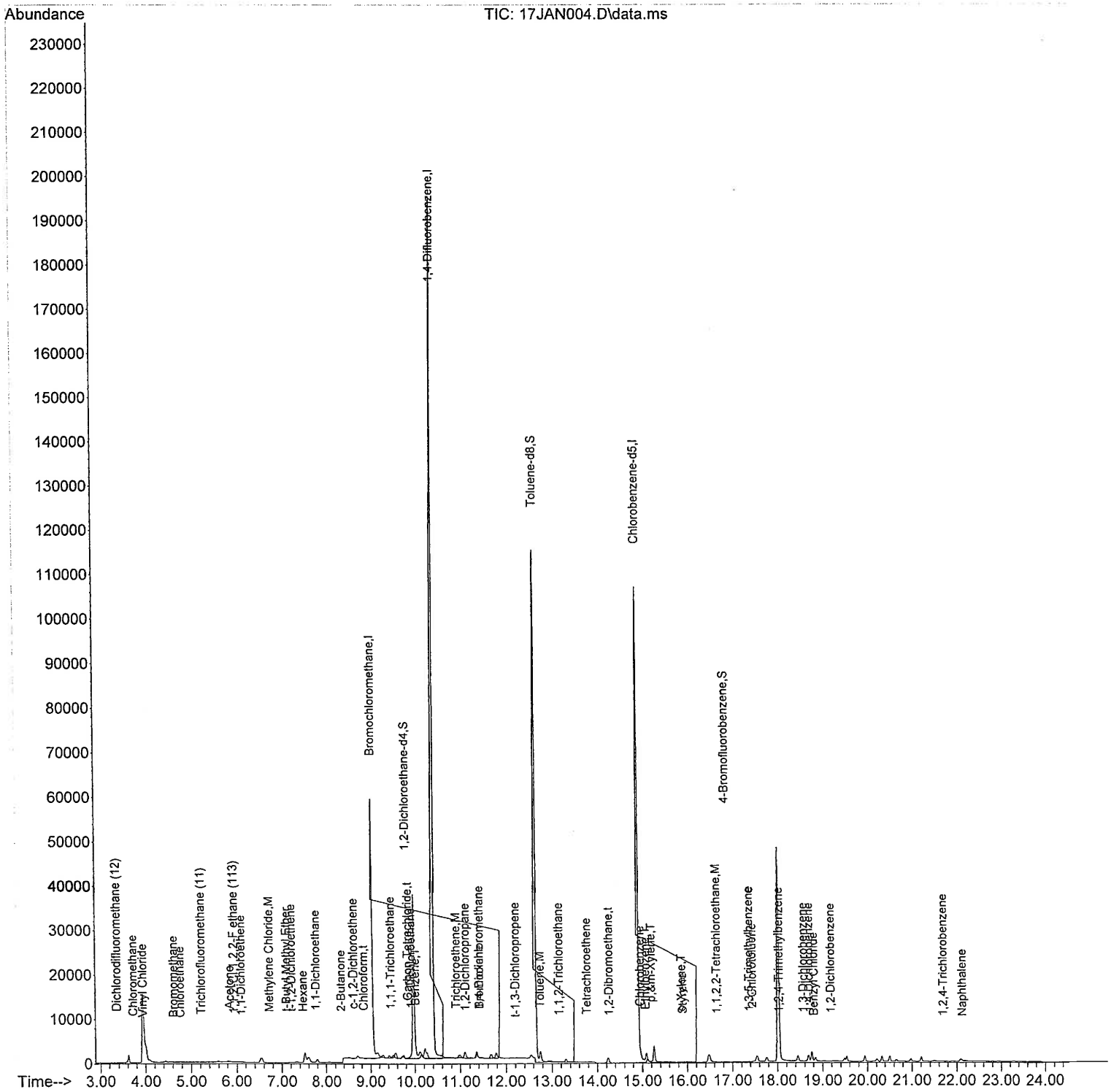
Quant Time: Jan 17 20:46:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.580	146	1429	12.19	pptv	99
44) 1,4-Dichlorobenzene	18.708	146	1364	11.42	pptv	97
45) Benzyl Chloride	18.813	91	680	10.53	pptv #	89
46) 1,2-Dichlorobenzene	19.189	146	1264	11.24	pptv	99
47) 1,2,4-Trichlorobenzene	21.702	180	537	8.97	pptv	96
48) Naphthalene	22.126	128	1121	10.14	pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	1752	11.74	pptv	80
50) 2-Chlorotoluene	17.449	91	1377	13.64	pptv	76
51) 1,2,4-Trimethylbenzene	18.042	105	1362	9.96	pptv	51

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN004.D
Acq On : 17 Jan 2020 8:22 pm
Operator : DT
Sample : 20 PPTV ICAL
Misc : 200 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 17 20:46:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN005.D
Acq On : 17 Jan 2020 8:58 pm
Operator : DT
Sample : 50 PPTV ICAL
Misc : 50 ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 17 21:23:03 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.022	130	66531	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	314008	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	242673	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	82416	1914.42	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =		95.72%	
29) Toluene-d8	12.632	98	271932	1946.34	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =		97.32%	
42) 4-Bromofluorobenzene	16.859	95	120310	1680.11	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =		84.01%	
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.370	85	4479	49.15	pptv	98
3) Chloromethane	3.742	50	989	51.87	pptv	98
4) Vinyl Chloride	3.957	62	1081	50.46	pptv	96
5) Bromomethane	4.629	96	826	62.06	pptv	98
6) Chloroethane	4.775	64	689	65.98	pptv	93
7) Trichlorofluoromethane...	5.229	101	4520	50.66	pptv	98
8) 1,1,2-Cl 1,2,2-F ethan...	5.936	151	3780	52.23	pptv	95
9) Acetone	5.855	43	3598	77.28	pptv	91
10) 1,1-Dichloroethene	6.107	96	1615	45.91	pptv	95
11) Methylene Chloride	6.725	49	1512	52.62	pptv	90
12) t-Butyl Methyl Ether	7.100	73	4299	47.43	pptv	95
13) t-1,2-Dichloroethene	7.222	96	1331	38.54	pptv	95
14) Hexane	7.475	57	2046	45.86	pptv	99
15) 1,1-Dichloroethane	7.768	63	2647	49.39	pptv	96
16) 2-Butanone	8.335	72	687	45.01	pptv	87
17) c-1,2-Dichloroethene	8.613	96	1593	41.76	pptv	77
18) Chloroform	8.839	83	3318	47.02	pptv	100
19) 1,1,1-Trichloroethane	9.452	97	3598	49.47	pptv	99
20) Carbon Tetrachloride	9.839	117	3173	47.43	pptv	96
22) Benzene	10.016	78	7207	60.38	pptv	99
24) 1,2-Dichloroethane	9.921	62	1923	42.71	pptv	98
25) Trichloroethene	10.910	130	2434	40.36	pptv	93
26) 1,2-Dichloropropane	11.105	63	1617	46.20	pptv	94
27) 1,4-Dioxane	11.419	88	1150	38.84	pptv	97
28) Bromodichloromethane	11.419	83	2936	44.13	pptv	100
30) Toluene	12.745	91	7261	47.98	pptv	99
32) t-1,3-Dichloropropene	12.198	75	1804	39.33	pptv	97
33) 1,1,2-Trichloroethane	13.156	97	2099	49.71	pptv	96
34) Tetrachloroethene	13.773	166	3942	53.63	pptv	99
35) 1,2-Dibromoethane	14.261	107	2780	43.27	pptv	99
36) Chlorobenzene	14.962	112	5528	47.83	pptv	98
37) Ethylbenzene	15.071	91	7233	44.80	pptv	99
38) p,&m-Xylene	15.199	91	11196	86.85	pptv	100
39) o-Xylene	15.876	91	4919	39.15	pptv	95
40) Styrene	15.901	104	2776	27.34	pptv	94
41) 1,1,2,2-Tetrachloroethane	16.651	83	3650	46.10	pptv	100

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN005.D
Acq On : 17 Jan 2020 8:58 pm
Operator : DT
Sample : 50 PPTV ICAL
Misc : 50 ML
ALS Vial : 4 Sample Multiplier: 1

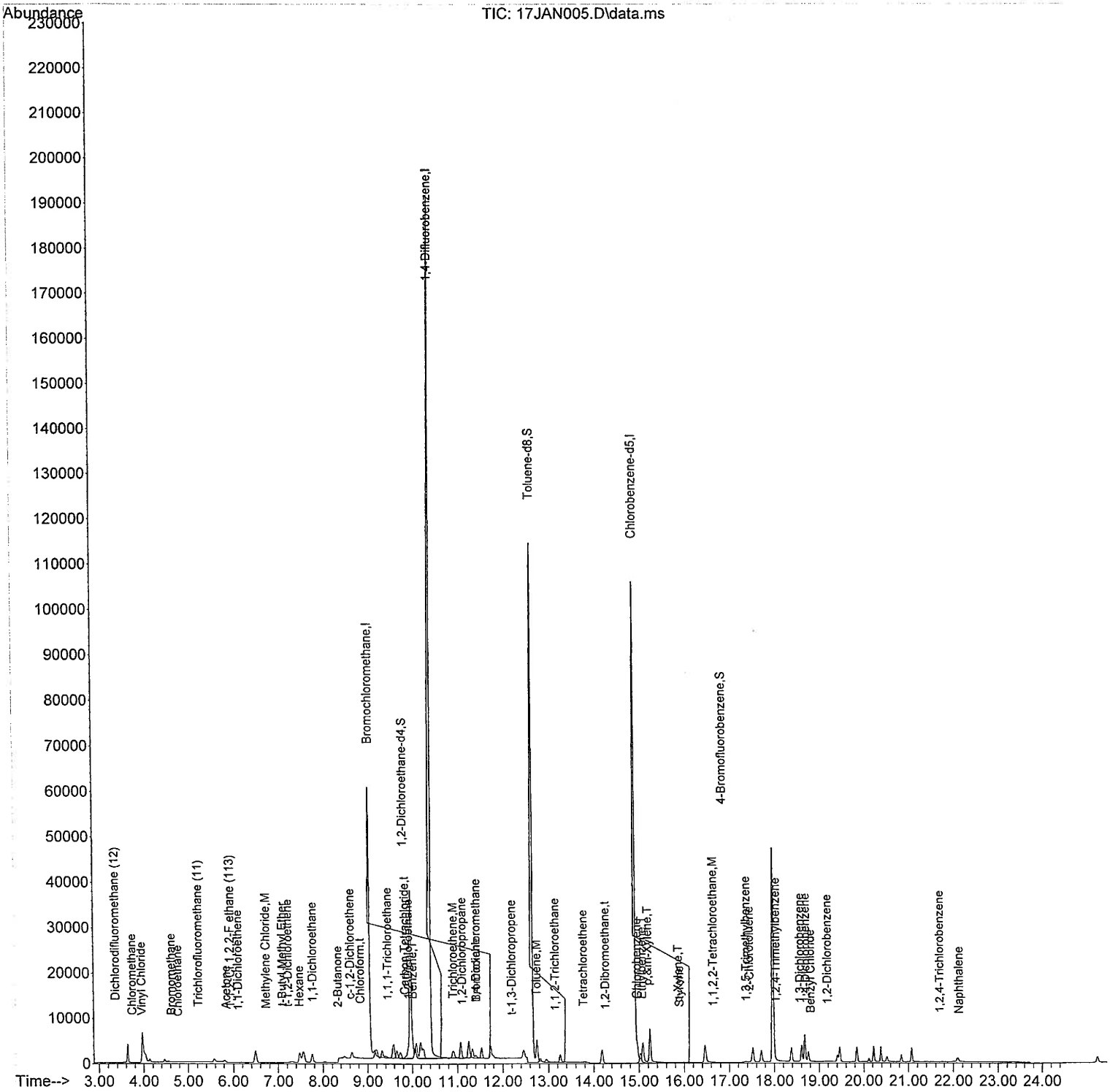
Quant Time: Jan 17 21:23:03 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	4051	36.15 pptv	99
44) 1,4-Dichlorobenzene	18.708	146	3752	32.86 pptv	98
45) Benzyl Chloride	18.816	91	1840	29.81 pptv	94
46) 1,2-Dichlorobenzene	19.192	146	3860	35.92 pptv	99
47) 1,2,4-Trichlorobenzene	21.700	180	1784	31.17 pptv	99
48) Naphthalene	22.126	128	3014	28.52 pptv	100
49) 1,3,5-Trimethylbenzene	17.380	105	4802	33.68 pptv	80
50) 2-Chlorotoluene	17.450	91	3845	39.85 pptv	78
51) 1,2,4-Trimethylbenzene	18.042	105	4815	36.84 pptv	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN005.D
Acq On : 17 Jan 2020 8:58 pm
Operator : DT
Sample : 50 PPTV ICAL
Misc : 50 ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 17 21:23:03 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN006.D
Acq On : 17 Jan 2020 9:34 pm
Operator : DT
Sample : 100 PPTV ICAL
Misc : 100 ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 17 21:59:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.018	130	65169	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	310299	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	239362	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.784	65	81521	1916.27	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 95.81%			
29) Toluene-d8	12.629	98	270191	1957.00	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 97.85%			
42) 4-Bromofluorobenzene	16.858	95	120103	1700.42	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 85.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.355	85	8448	94.63	pptv	99
3) Chloromethane	3.727	50	1740	93.16	pptv	97
4) Vinyl Chloride	3.943	62	1988	94.74	pptv	97
5) Bromomethane	4.614	96	1308	100.33	pptv	98
6) Chloroethane	4.760	64	1100	107.54	pptv	95
7) Trichlorofluoromethane...	5.217	101	8639	98.84	pptv	100
8) 1,1,2-Cl 1,2,2-F ethan...	5.936	151	7161	101.01	pptv	93
9) Acetone	5.845	43	5392	118.24	pptv	92
10) 1,1-Dichloroethene	6.100	96	2983	86.57	pptv	94
11) Methylene Chloride	6.718	49	2799	99.45	pptv	92
12) t-Butyl Methyl Ether	7.094	73	8156	91.87	pptv	96
13) t-1,2-Dichloroethene	7.213	96	2554	75.49	pptv	98
14) Hexane	7.472	57	3864	88.43	pptv	98
15) 1,1-Dichloroethane	7.765	63	5037	95.96	pptv	100
16) 2-Butanone	8.326	72	1379	92.23	pptv	98
17) c-1,2-Dichloroethene	8.607	96	2958	79.16	pptv	74
18) Chloroform	8.832	83	6387	92.40	pptv	99
19) 1,1,1-Trichloroethane	9.452	97	6920	97.13	pptv	98
20) Carbon Tetrachloride	9.833	117	6219	94.90	pptv	97
22) Benzene	10.016	78	11279	95.62	pptv	99
24) 1,2-Dichloroethane	9.918	62	3601	80.93	pptv	98
25) Trichloroethene	10.907	130	4639	77.84	pptv	96
26) 1,2-Dichloropropane	11.105	63	3093	89.43	pptv	93
27) 1,4-Dioxane	11.413	88	2011	68.72	pptv	93
28) Bromodichloromethane	11.410	83	5579	84.86	pptv	98
30) Toluene	12.749	91	13008	86.99	pptv	100
32) t-1,3-Dichloropropene	12.202	75	3552	78.50	pptv	100
33) 1,1,2-Trichloroethane	13.152	97	3992	95.85	pptv	96
34) Tetrachloroethene	13.773	166	7438	102.59	pptv	96
35) 1,2-Dibromoethane	14.261	107	5342	84.29	pptv	100
36) Chlorobenzene	14.959	112	10523	92.30	pptv	99
37) Ethylbenzene	15.071	91	13989	87.85	pptv	98
38) p,&m-Xylene	15.199	91	21231	166.96	pptv	100
39) o-Xylene	15.874	91	9618	77.62	pptv	95
40) Styrene	15.899	104	5728	57.20	pptv	93
41) 1,1,2,2-Tetrachloroethane	16.651	83	7156	91.64	pptv	98

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN006.D
Acq On : 17 Jan 2020 9:34 pm
Operator : DT
Sample : 100 PPTV ICAL
Misc : 100 ML
ALS Vial : 4 Sample Multiplier: 1

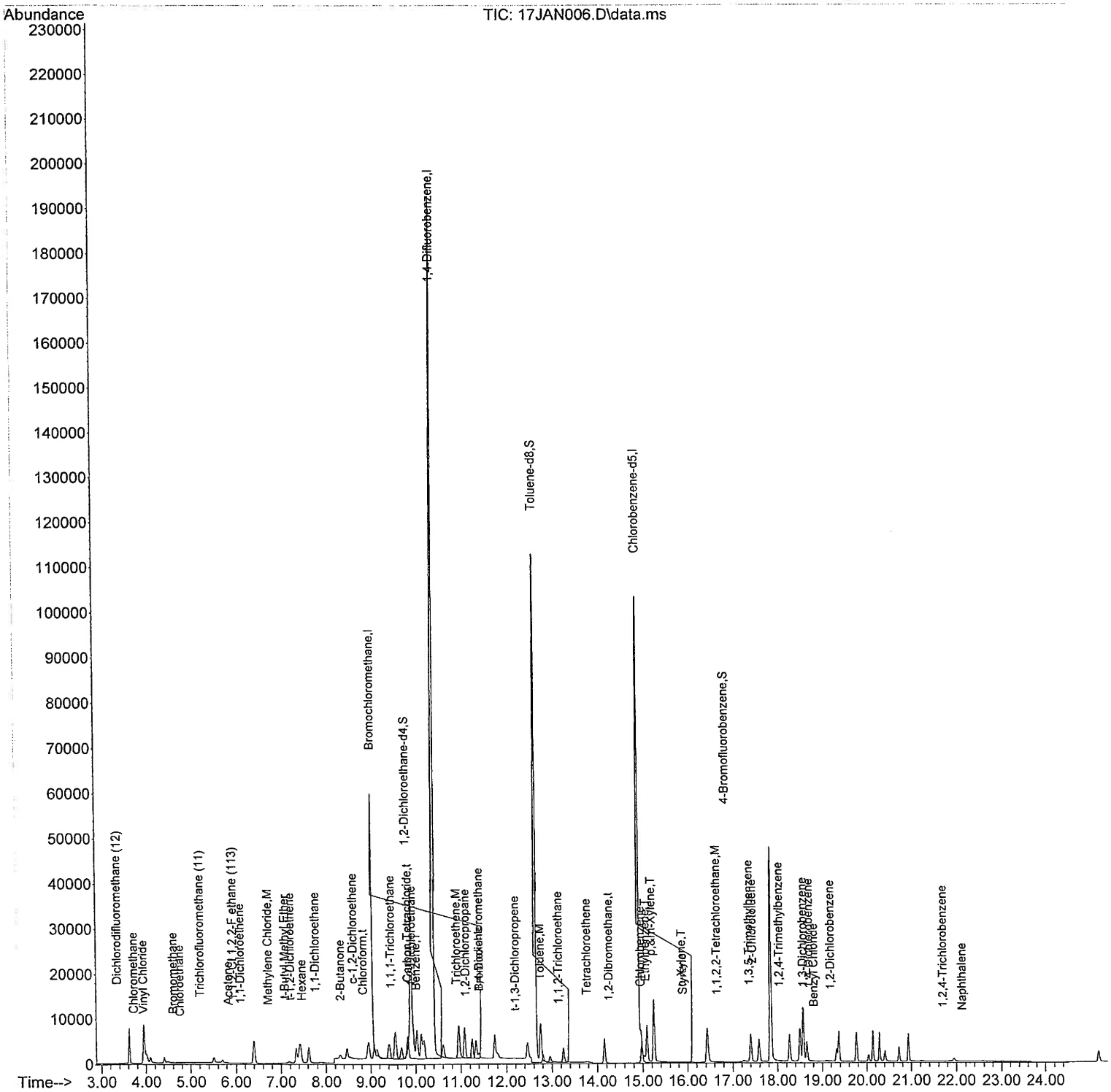
Quant Time: Jan 17 21:59:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.580	146	7889	71.37 pptv	100
44) 1,4-Dichlorobenzene	18.708	146	7200	63.92 pptv	99
45) Benzyl Chloride	18.816	91	3908	64.19 pptv	95
46) 1,2-Dichlorobenzene	19.192	146	7484	70.61 pptv	99
47) 1,2,4-Trichlorobenzene	21.702	180	3196	56.62 pptv	99
48) Naphthalene	22.126	128	5011	48.07 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	9653	68.63 pptv	79
50) 2-Chlorotoluene	17.449	91	7654	80.43 pptv	79
51) 1,2,4-Trimethylbenzene	18.042	105	9498	73.67 pptv	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN006.D
Acq On : 17 Jan 2020 9:34 pm
Operator : DT
Sample : 100 PPTV ICAL
Misc : 100 ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 17 21:59:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN007.D
Acq On : 17 Jan 2020 10:11 pm
Operator : DT
Sample : 200 PPTV ICAL
Misc : 200 ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 17 22:35:42 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.018	130	63724	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.379	114	307111	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.900	117	237023	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.784	65	78937	1874.79	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 93.74%			
29) Toluene-d8	12.629	98	268337	1963.74	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 98.19%			
42) 4-Bromofluorobenzene	16.858	95	119238	1704.83	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 85.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.346	85	16288	186.59	pptv	99
3) Chloromethane	3.716	50	3239	177.34	pptv	99
4) Vinyl Chloride	3.931	62	3860	188.12	pptv	99
5) Bromomethane	4.603	96	2190	171.79	pptv	98
6) Chloroethane	4.751	64	1858	185.77	pptv	92
7) Trichlorofluoromethane...	5.211	101	16727	195.73	pptv	99
8) 1,1,2-Cl 1,2,2-F ethan...	5.929	151	13855	199.86	pptv	92
9) Acetone	5.835	43	9088	203.80	pptv	94
10) 1,1-Dichloroethene	6.093	96	5805	172.29	pptv	95
11) Methylene Chloride	6.715	49	5254	190.91	pptv	95
12) t-Butyl Methyl Ether	7.085	73	15977	184.05	pptv	97
13) t-1,2-Dichloroethene	7.213	96	5049	152.62	pptv	92
14) Hexane	7.466	57	7632	178.61	pptv	98
15) 1,1-Dichloroethane	7.762	63	9712	189.21	pptv	98
16) 2-Butanone	8.320	72	2606	178.24	pptv	96
17) c-1,2-Dichloroethene	8.601	96	5833	159.65	pptv	65
18) Chloroform	8.835	83	12551	185.69	pptv	100
19) 1,1,1-Trichloroethane	9.445	97	13546	194.45	pptv	98
20) Carbon Tetrachloride	9.833	117	12579	196.30	pptv	95
22) Benzene	10.013	78	19973	171.08	pptv	99
24) 1,2-Dichloroethane	9.915	62	7146	162.27	pptv	96
25) Trichloroethene	10.904	130	8617	146.09	pptv	96
26) 1,2-Dichloropropane	11.099	63	5848	170.85	pptv	98
27) 1,4-Dioxane	11.404	88	3835	132.42	pptv	87
28) Bromodichloromethane	11.413	83	11064	170.04	pptv	100
30) Toluene	12.745	91	24550	165.88	pptv	99
32) t-1,3-Dichloropropene	12.198	75	7043	157.19	pptv	98
33) 1,1,2-Trichloroethane	13.152	97	7856	190.49	pptv	96
34) Tetrachloroethene	13.771	166	14328	199.57	pptv	97
35) 1,2-Dibromoethane	14.259	107	10446	166.45	pptv	98
36) Chlorobenzene	14.962	112	20324	180.02	pptv	98
37) Ethylbenzene	15.068	91	27712	175.74	pptv	98
38) p,&m-Xylene	15.199	91	42162	334.84	pptv	100
39) o-Xylene	15.876	91	19292	157.22	pptv	95
40) Styrene	15.899	104	11988	120.90	pptv	94
41) 1,1,2,2-Tetrachloroethane	16.651	83	14287	184.77	pptv	99

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN007.D
Acq On : 17 Jan 2020 10:11 pm
Operator : DT
Sample : 200 PPTV ICAL
Misc : 200 ML
ALS Vial : 4 Sample Multiplier: 1

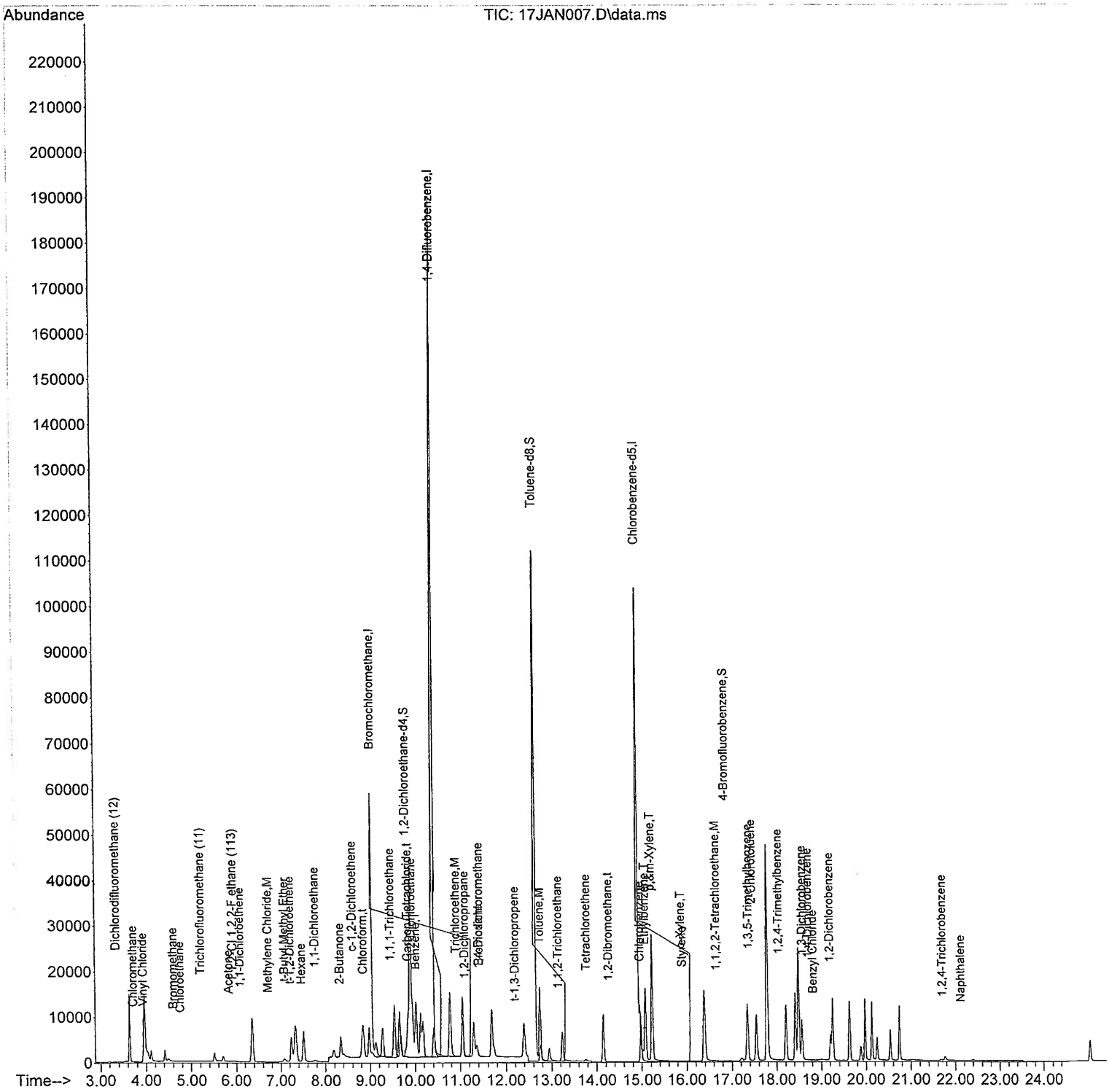
Quant Time: Jan 17 22:35:42 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.580	146	15719	143.60 pptv	99
44) 1,4-Dichlorobenzene	18.708	146	14479	129.82 pptv	98
45) Benzyl Chloride	18.816	91	8475	140.57 pptv	95
46) 1,2-Dichlorobenzene	19.192	146	14727	140.32 pptv	100
47) 1,2,4-Trichlorobenzene	21.700	180	6065	108.51 pptv	98
48) Naphthalene	22.123	128	8930	86.51 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	19985	143.50 pptv	80
50) 2-Chlorotoluene	17.449	91	15513	164.62 pptv	79
51) 1,2,4-Trimethylbenzene	18.042	105	19058	149.28 pptv	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN007.D
Acq On : 17 Jan 2020 10:11 pm
Operator : DT
Sample : 200 PPTV ICAL
Misc : 200 ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 17 22:35:42 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN008.D
Acq On : 17 Jan 2020 10:47 pm
Operator : DT
Sample : 200 PPTV ICAL
Misc : 50 ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 17 23:11:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.022	130	65563	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	302536	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.900	117	233696	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	79228	1910.16	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	95.51%		
29) Toluene-d8	12.629	98	265581	1972.96	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	98.65%		
42) 4-Bromofluorobenzene	16.858	95	117331	1701.45	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	85.07%		
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.352	85	18727	208.51	pptv	99
3) Chloromethane	3.724	50	3917	208.45	pptv	97
4) Vinyl Chloride	3.940	62	4640	219.79	pptv	99
5) Bromomethane	4.612	96	3428	261.36	pptv	100
6) Chloroethane	4.760	64	2791	271.22	pptv	92
7) Trichlorofluoromethane...	5.217	101	19375	220.35	pptv	99
8) 1,1,2-Cl 1,2,2-F ethan...	5.932	151	15963	223.81	pptv	92
9) Acetone	5.835	43	9130	199.00	pptv	97
10) 1,1-Dichloroethene	6.100	96	6724	193.96	pptv	93
11) Methylene Chloride	6.719	49	6214	219.46	pptv	91
12) t-Butyl Methyl Ether	7.088	73	18568	207.90	pptv	96
13) t-1,2-Dichloroethene	7.216	96	6016	176.75	pptv	94
14) Hexane	7.469	57	8822	200.67	pptv	98
15) 1,1-Dichloroethane	7.765	63	11322	214.39	pptv	98
16) 2-Butanone	8.317	72	3084	205.01	pptv	96
17) c-1,2-Dichloroethene	8.604	96	6741	179.32	pptv	69
18) Chloroform	8.832	83	14637	210.48	pptv	99
19) 1,1,1-Trichloroethane	9.449	97	15779	220.15	pptv	98
20) Carbon Tetrachloride	9.836	117	14302	216.93	pptv	97
22) Benzene	10.013	78	23305	202.64	pptv	100
24) 1,2-Dichloroethane	9.915	62	8256	190.32	pptv	97
25) Trichloroethene	10.904	130	10218	175.85	pptv	95
26) 1,2-Dichloropropane	11.105	63	7033	208.58	pptv	100
27) 1,4-Dioxane	11.410	88	5240	183.66	pptv	91
28) Bromodichloromethane	11.410	83	13250	206.72	pptv	100
30) Toluene	12.745	91	29028	199.11	pptv	100
32) t-1,3-Dichloropropene	12.198	75	8313	188.18	pptv	99
33) 1,1,2-Trichloroethane	13.156	97	9372	230.48	pptv	98
34) Tetrachloroethene	13.773	166	16773	236.95	pptv	97
35) 1,2-Dibromoethane	14.261	107	12699	205.23	pptv	98
36) Chlorobenzene	14.959	112	24494	220.05	pptv	99
37) Ethylbenzene	15.068	91	33362	214.59	pptv	99
38) p,&m-Xylene	15.199	91	50619	407.73	pptv	100
39) o-Xylene	15.876	91	23464	193.94	pptv	95
40) Styrene	15.899	104	14749	150.86	pptv	93
41) 1,1,2,2-Tetrachloroethane	16.651	83	17191	225.49	pptv	100

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN008.D
Acq On : 17 Jan 2020 10:47 pm
Operator : DT
Sample : 200 PPTV ICAL
Misc : 50 ML
ALS Vial : 5 Sample Multiplier: 1

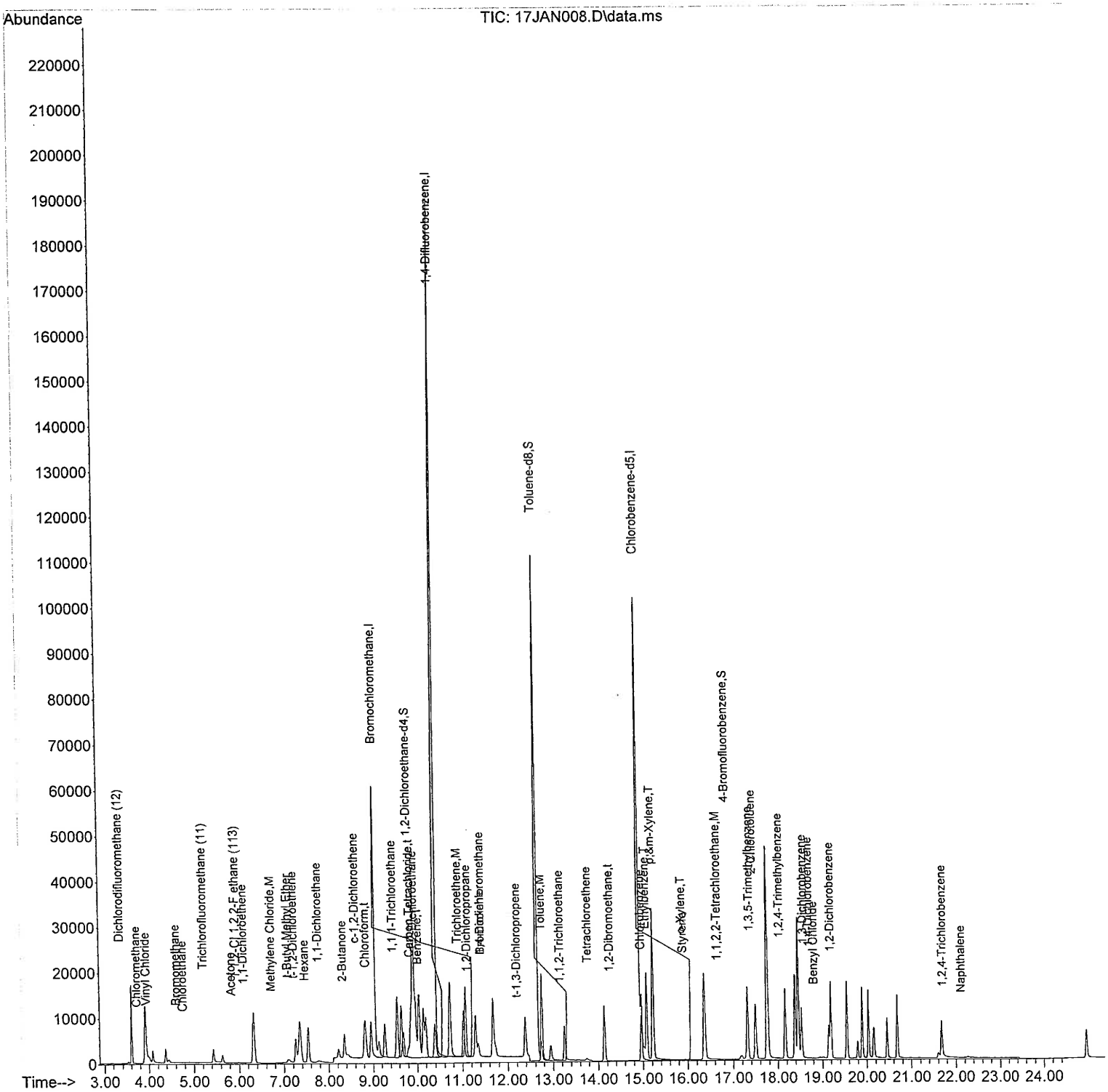
Quant Time: Jan 17 23:11:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.580	146	18257	169.16 pptv	100
44) 1,4-Dichlorobenzene	18.708	146	16675	151.64 pptv	98
45) Benzyl Chloride	18.813	91	11214	188.65 pptv	93
46) 1,2-Dichlorobenzene	19.192	146	17106	165.30 pptv	100
47) 1,2,4-Trichlorobenzene	21.700	180	8346	151.44 pptv	100
48) Naphthalene	22.123	128	13783	135.43 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	24665	179.62 pptv	80
50) 2-Chlorotoluene	17.450	91	19760	212.68 pptv	80
51) 1,2,4-Trimethylbenzene	18.042	105	23042	183.06 pptv	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN008.D
Acq On : 17 Jan 2020 10:47 pm
Operator : DT
Sample : 200 PPTV ICAL
Misc : 50 ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 17 23:11:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN009.D
Acq On : 17 Jan 2020 11:23 pm
Operator : DT
Sample : 500 PPTV ICAL
Misc : 125 ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 17 23:48:11 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.022	130	64565	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	303939	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	234744	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	79193	1900.50	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 95.03%			
29) Toluene-d8	12.632	98	266860	1973.32	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 98.67%			
42) 4-Bromofluorobenzene	16.858	95	119899	1730.92	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 86.55%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.349	85	44533	503.51	pptv	99
3) Chloromethane	3.719	50	9531	515.05	pptv	99
4) Vinyl Chloride	3.937	62	11366	546.72	pptv	99
5) Bromomethane	4.609	96	7474	578.64	pptv	99
6) Chloroethane	4.757	64	5537	546.39	pptv	92
7) Trichlorofluoromethane...	5.217	101	46413	536.01	pptv	100
8) 1,1,2-Cl 1,2,2-F ethan...	5.939	151	38213	544.05	pptv	92
9) Acetone	5.832	43	20800	460.37	pptv	97
10) 1,1-Dichloroethene	6.100	96	16209	474.80	pptv	94
11) Methylene Chloride	6.722	49	14706	527.39	pptv	95
12) t-Butyl Methyl Ether	7.082	73	45850	521.30	pptv	97
13) t-1,2-Dichloroethene	7.216	96	14558	434.32	pptv	90
14) Hexane	7.475	57	21950	507.01	pptv	98
15) 1,1-Dichloroethane	7.765	63	27557	529.88	pptv	97
16) 2-Butanone	8.314	72	7539	508.92	pptv	86
17) c-1,2-Dichloroethene	8.607	96	16642	449.55	pptv	75
18) Chloroform	8.835	83	35437	517.47	pptv	98
19) 1,1,1-Trichloroethane	9.452	97	38652	547.61	pptv	99
20) Carbon Tetrachloride	9.839	117	36325	559.49	pptv	100
22) Benzene	10.016	78	51788	448.22	pptv	100
24) 1,2-Dichloroethane	9.918	62	20207	463.66	pptv	99
25) Trichloroethene	10.907	130	24665	422.53	pptv	97
26) 1,2-Dichloropropane	11.105	63	16823	496.62	pptv	99
27) 1,4-Dioxane	11.404	88	12744	444.62	pptv	88
28) Bromodichloromethane	11.413	83	33457	519.56	pptv	99
30) Toluene	12.749	91	69464	474.26	pptv	100
32) t-1,3-Dichloropropene	12.198	75	21623	487.29	pptv	99
33) 1,1,2-Trichloroethane	13.152	97	22831	558.96	pptv	97
34) Tetrachloroethene	13.773	166	40461	569.03	pptv	97
35) 1,2-Dibromoethane	14.259	107	31370	504.71	pptv	98
36) Chlorobenzene	14.959	112	59569	532.77	pptv	99
37) Ethylbenzene	15.071	91	85001	544.29	pptv	98
38) p,&m-Xylene	15.199	91	127809	1024.89	pptv	99
39) o-Xylene	15.876	91	61160	503.26	pptv	95
40) Styrene	15.899	104	41532	422.91	pptv	94
41) 1,1,2,2-Tetrachloroethane	16.651	83	43286	565.23	pptv	97

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN009.D
Acq On : 17 Jan 2020 11:23 pm
Operator : DT
Sample : 500 PPTV ICAL
Misc : 125 ML
ALS Vial : 5 Sample Multiplier: 1

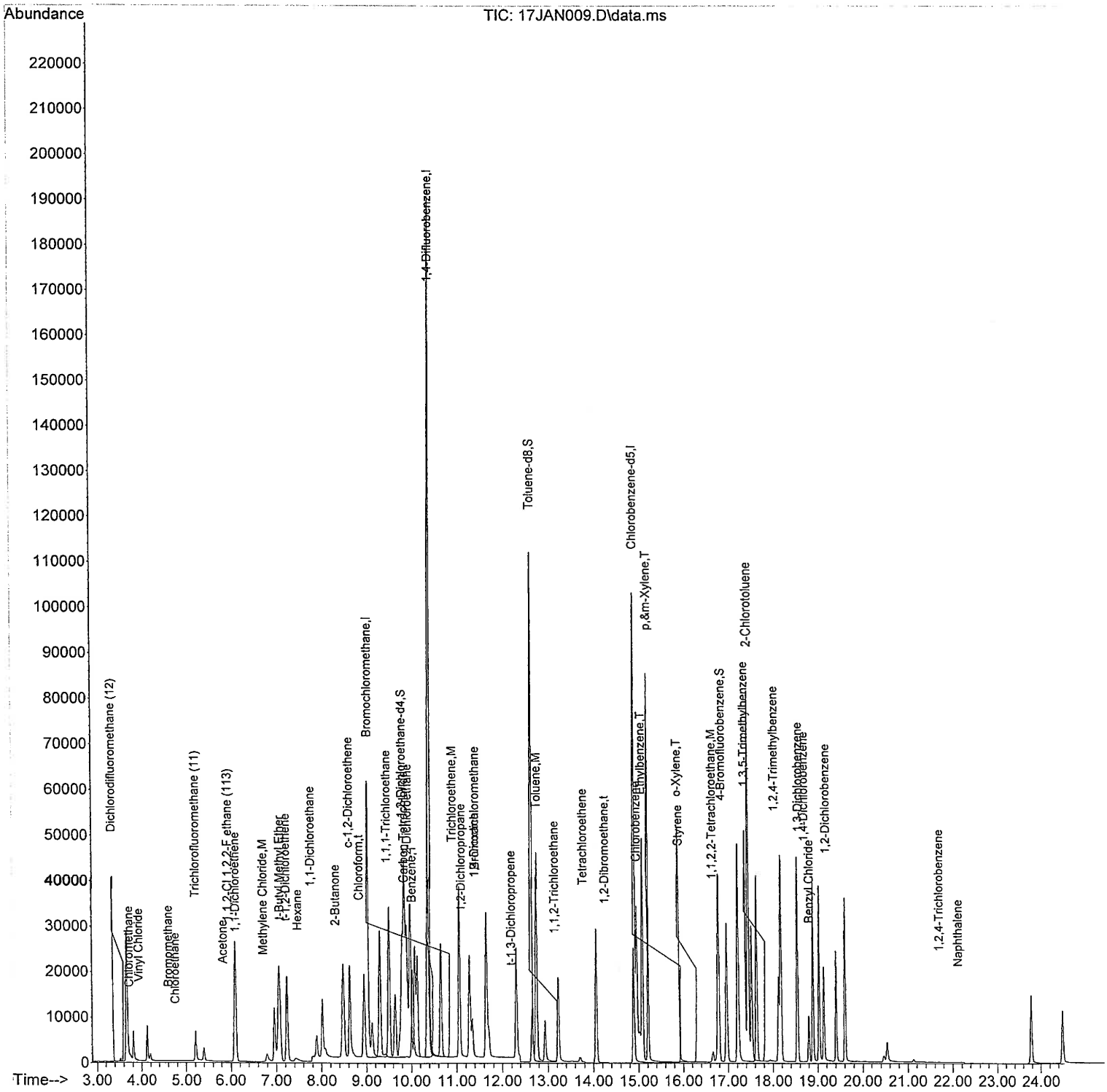
Quant Time: Jan 17 23:48:11 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	46568	429.55	pptv	99
44) 1,4-Dichlorobenzene	18.708	146	42958	388.90	pptv	99
45) Benzyl Chloride	18.816	91	33075	553.94	pptv	95
46) 1,2-Dichlorobenzene	19.189	146	43090	414.54	pptv	100
47) 1,2,4-Trichlorobenzene	21.700	180	19841	358.42	pptv	100
48) Naphthalene	22.125	128	31405	307.20	pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	65919	477.91	pptv	80
50) 2-Chlorotoluene	17.446	91	51095	547.48	pptv	81
51) 1,2,4-Trimethylbenzene	18.039	105	60742	480.42	pptv	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN009.D
Acq On : 17 Jan 2020 11:23 pm
Operator : DT
Sample : 500 PPTV ICAL
Misc : 125 ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 17 23:48:11 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN010.D
Acq On : 18 Jan 2020 12:01 am
Operator : DT
Sample : 100 PPTV ICAL
Misc : 250 ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 00:25:45 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.021	130	64261	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	303310	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.901	117	236249	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	79178	1904.08	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 95.20%			
29) Toluene-d8	12.628	98	267782	1984.24	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 99.21%			
42) 4-Bromofluorobenzene	16.857	95	121870	1748.17	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 87.41%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.334	85	87366	992.47	pptv	98
3) Chloromethane	3.704	50	17927	973.35	pptv	100
4) Vinyl Chloride	3.919	62	22376	1081.41	pptv	99
5) Bromomethane	4.594	96	12854	999.86	pptv	98
6) Chloroethane	4.739	64	10216	1012.89	pptv	91
7) Trichlorofluoromethane...	5.202	101	91619	1063.09	pptv	100
8) 1,1,2-Cl 1,2,2-F ethan...	5.929	151	75420	1078.86	pptv	92
9) Acetone	5.818	43	41357	919.69	pptv	98
10) 1,1-Dichloroethene	6.089	96	32052	943.33	pptv	93
11) Methylene Chloride	6.712	49	28953	1043.23	pptv	95
12) t-Butyl Methyl Ether	7.072	73	92894	1061.18	pptv	96
13) t-1,2-Dichloroethene	7.209	96	29266	877.25	pptv	92
14) Hexane	7.469	57	44410	1030.66	pptv	99
15) 1,1-Dichloroethane	7.764	63	54578	1054.41	pptv	99
16) 2-Butanone	8.307	72	15349	1041.03	pptv	90
17) c-1,2-Dichloroethene	8.603	96	33329	904.58	pptv	79
18) Chloroform	8.835	83	70533	1034.83	pptv	100
19) 1,1,1-Trichloroethane	9.451	97	77679	1105.74	pptv	98
20) Carbon Tetrachloride	9.833	117	74477	1152.55	pptv	99
22) Benzene	10.013	78	100233	869.30	pptv	100
24) 1,2-Dichloroethane	9.915	62	40269	925.91	pptv	98
25) Trichloroethene	10.906	130	48306	829.24	pptv	96
26) 1,2-Dichloropropane	11.105	63	33708	997.14	pptv	100
27) 1,4-Dioxane	11.400	88	25799	901.96	pptv	88
28) Bromodichloromethane	11.413	83	68598	1067.49	pptv	99
30) Toluene	12.745	91	138237	945.76	pptv	100
32) t-1,3-Dichloropropene	12.195	75	44998	1007.60	pptv	99
33) 1,1,2-Trichloroethane	13.152	97	45346	1103.11	pptv	98
34) Tetrachloroethene	13.774	166	80215	1120.93	pptv	98
35) 1,2-Dibromoethane	14.258	107	63469	1014.65	pptv	98
36) Chlorobenzene	14.958	112	118963	1057.19	pptv	99
37) Ethylbenzene	15.070	91	173862	1106.21	pptv	99
38) p,&m-Xylene	15.198	91	261393	2082.73	pptv	100
39) o-Xylene	15.875	91	127568	1043.02	pptv	95
40) Styrene	15.898	104	90050	911.12	pptv	94
41) 1,1,2,2-Tetrachloroethane	16.650	83	87551	1135.96	pptv	98

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN010.D
Acq On : 18 Jan 2020 12:01 am
Operator : DT
Sample : 100 PPTV ICAL
Misc : 250 ML
ALS Vial : 5 Sample Multiplier: 1

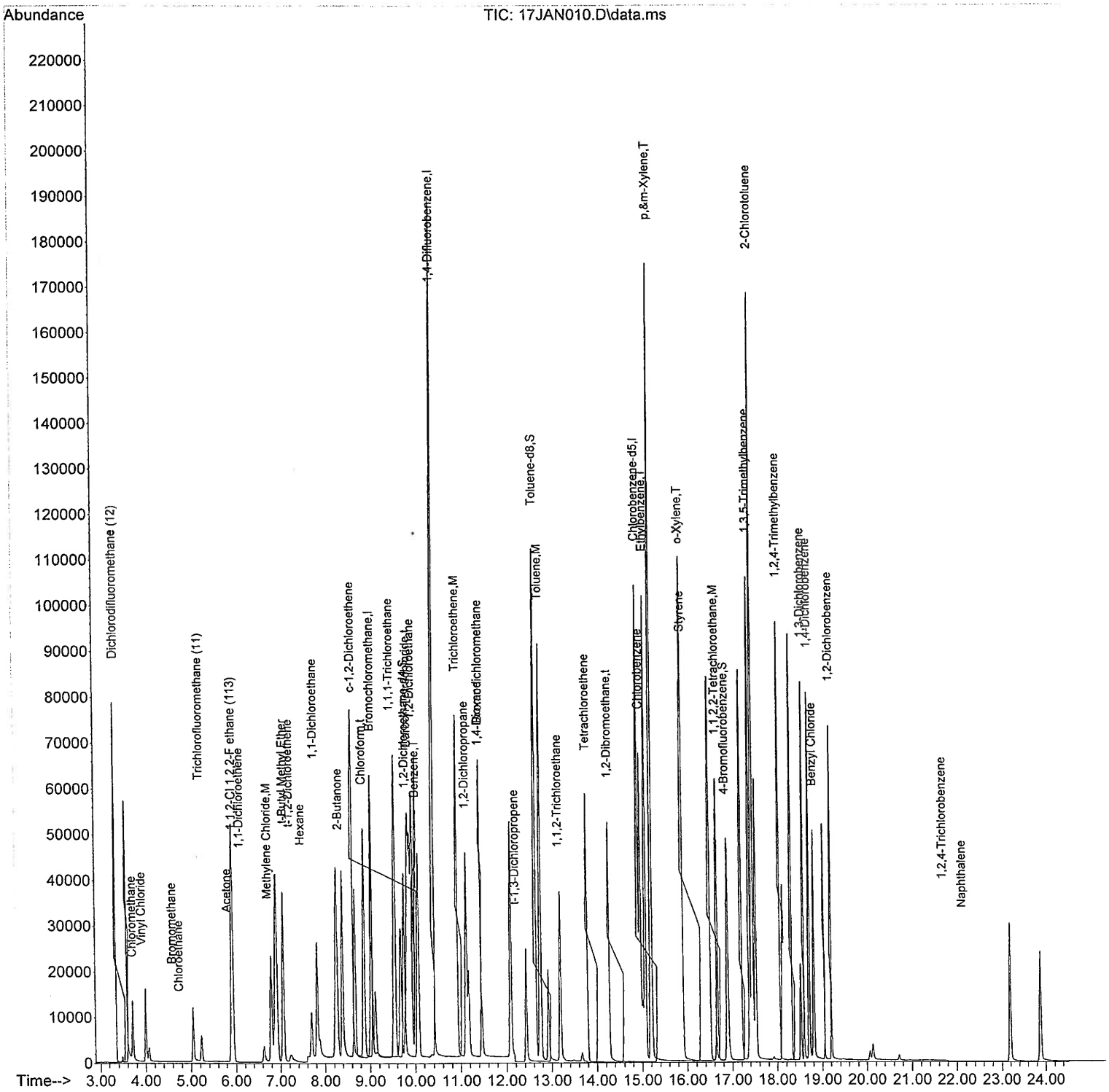
Quant Time: Jan 18 00:25:45 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.576	146	95078	871.43	pptv	99
44) 1,4-Dichlorobenzene	18.707	146	88411	795.29	pptv	98
45) Benzyl Chloride	18.815	91	77605	1291.45	pptv	96
46) 1,2-Dichlorobenzene	19.191	146	87419	835.65	pptv	99
47) 1,2,4-Trichlorobenzene	21.699	180	39426	707.68	pptv	100
48) Naphthalene	22.123	128	63228	614.55	pptv	100
49) 1,3,5-Trimethylbenzene	17.375	105	141653	1020.44	pptv	80
50) 2-Chlorotoluene	17.448	91	104782	1115.58	pptv	80
51) 1,2,4-Trimethylbenzene	18.041	105	127495	1001.96	pptv	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN010.D
Acq On : 18 Jan 2020 12:01 am
Operator : DT
Sample : 100 PPTV ICAL
Misc : 250 ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 00:25:45 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN011.D
Acq On : 18 Jan 2020 12:37 am
Operator : DT
Sample : 2000 PPTV ICAL
Misc : 50 ML
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 01:02:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.021	130	66606	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	306647	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	238676	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	79994	1902.77	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	95.14%		
29) Toluene-d8	12.632	98	269654	1976.37	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	98.82%		
42) 4-Bromofluorobenzene	16.858	95	123968	1760.18	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery =	88.01%		
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.314	85	176226	1931.44	pptv	99
3) Chloromethane	3.681	50	39042	2045.15	pptv	100
4) Vinyl Chloride	3.902	62	46622	2173.87	pptv	99
5) Bromomethane	4.577	96	34710	2604.90	pptv	99
6) Chloroethane	4.725	64	23169	2216.27	pptv	92
7) Trichlorofluoromethane...	5.191	101	185653	2078.36	pptv	99
8) 1,1,2-Cl 1,2,2-F ethan...	5.919	151	151648	2092.91	pptv	92
9) Acetone	5.808	43	85648	1837.56	pptv	99
10) 1,1-Dichloroethene	6.079	96	66050	1875.49	pptv	93
11) Methylene Chloride	6.703	49	58851	2045.86	pptv	93
12) t-Butyl Methyl Ether	7.069	73	191427	2109.79	pptv	98
13) t-1,2-Dichloroethene	7.203	96	61671	1783.51	pptv	91
14) Hexane	7.463	57	91889	2057.46	pptv	98
15) 1,1-Dichloroethane	7.758	63	111145	2071.66	pptv	98
16) 2-Butanone	8.305	72	32695	2139.42	pptv	92
17) c-1,2-Dichloroethene	8.603	96	68588	1796.01	pptv	82
18) Chloroform	8.835	83	143197	2026.95	pptv	100
19) 1,1,1-Trichloroethane	9.448	97	158060	2170.73	pptv	99
20) Carbon Tetrachloride	9.836	117	155101	2315.73	pptv	100
22) Benzene	10.013	78	200923	1723.61	pptv	100
24) 1,2-Dichloroethane	9.915	62	81783	1859.98	pptv	98
25) Trichloroethene	10.906	130	98759	1676.88	pptv	97
26) 1,2-Dichloropropane	11.102	63	67885	1986.29	pptv	99
27) 1,4-Dioxane	11.398	88	52069	1800.57	pptv	91
28) Bromodichloromethane	11.410	83	141962	2185.11	pptv	99
30) Toluene	12.745	91	279398	1890.73	pptv	100
32) t-1,3-Dichloropropene	12.195	75	95611	2119.15	pptv	99
33) 1,1,2-Trichloroethane	13.152	97	89723	2160.46	pptv	97
34) Tetrachloroethene	13.773	166	160932	2226.01	pptv	97
35) 1,2-Dibromoethane	14.259	107	128336	2030.78	pptv	98
36) Chlorobenzene	14.959	112	236212	2077.81	pptv	99
37) Ethylbenzene	15.070	91	350871	2209.74	pptv	98
38) p,&m-Xylene	15.199	91	525044	4140.91	pptv	100
39) o-Xylene	15.876	91	257137	2081.02	pptv	94
40) Styrene	15.897	104	189850	1901.36	pptv	94
41) 1,1,2,2-Tetrachloroethane	16.651	83	168664	2166.14	pptv	98

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN011.D
Acq On : 18 Jan 2020 12:37 am
Operator : DT
Sample : 2000 PPTV ICAL
Misc : 50 ML
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 01:02:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	198154	1797.71 pptv	100
44) 1,4-Dichlorobenzene	18.708	146	188404	1677.52 pptv	99
45) Benzyl Chloride	18.813	91	179101	2950.17 pptv	96
46) 1,2-Dichlorobenzene	19.189	146	182423	1726.07 pptv	100
47) 1,2,4-Trichlorobenzene	21.698	180	88089	1565.07 pptv	99
48) Naphthalene	22.123	128	147968	1423.57 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	288330	2055.95 pptv	80
50) 2-Chlorotoluene	17.446	91	207314	2184.76 pptv	81
51) 1,2,4-Trimethylbenzene	18.039	105	256049	1991.79 pptv	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN011.D
Acq On    : 18 Jan 2020  12:37 am
Operator  : DT
Sample    : 2000 PPTV ICAL
Misc      : 50 ML
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Jan 18 01:02:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title  : EPA TO-15 SIM  MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration
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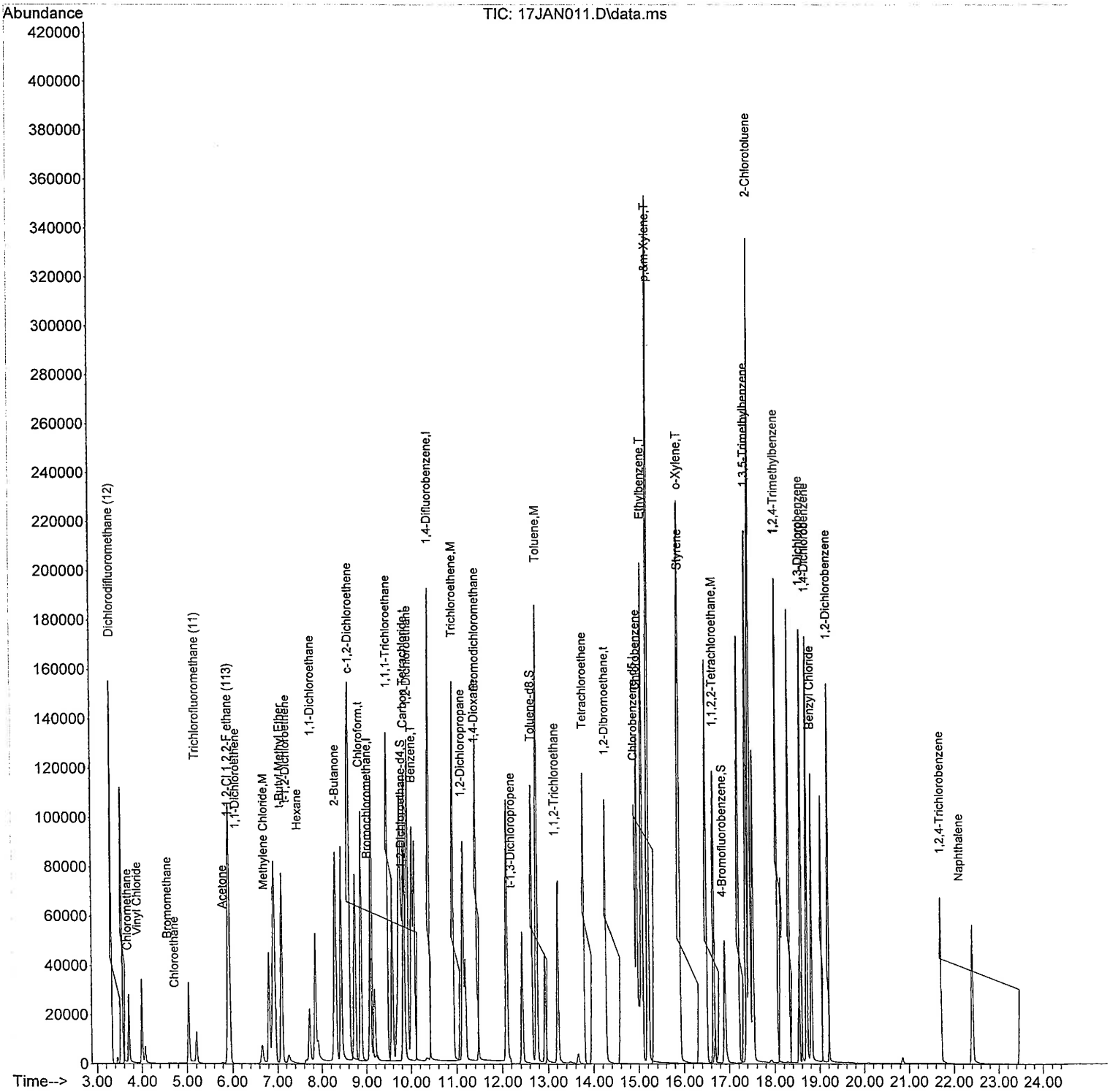


Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN012.D
Acq On : 18 Jan 2020 1:14 am
Operator : DT
Sample : 10000 PPTV ICAL
Misc : 250 ML
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 01:39:16 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	9.034	130	65813	2000.00 pptv	0.02
21) 1,4-Difluorobenzene	10.391	114	299050	2000.00 pptv	0.00
31) Chlorobenzene-d5	14.905	117	240628	2000.00 pptv	0.00
System Monitoring Compounds					
23) 1,2-Dichloroethane-d4	9.799	65	80155	1955.03 pptv	0.01
Spiked Amount 2000.000	Range 70 - 130		Recovery = 97.75%		
29) Toluene-d8	12.635	98	268913	2021.01 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 101.05%		
42) 4-Bromofluorobenzene	16.862	95	127732	1798.91 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 89.95%		
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	3.314	85	847119	9396.29 pptv	100
3) Chloromethane	3.684	50	184567	9784.75 pptv	100
4) Vinyl Chloride	3.902	62	227806	10750.02 pptv	99
5) Bromomethane	4.585	96	138659	10531.39 pptv	98
6) Chloroethane	4.734	64	98944	9578.68 pptv	93
7) Trichlorofluoromethane...	5.202	101	887819	10058.75 pptv	100
8) 1,1,2-Cl 1,2,2-F ethan...	5.929	151	722467	10090.97 pptv	93
9) Acetone	5.818	43	384490	8348.56 pptv	99
10) 1,1-Dichloroethene	6.090	96	315881	9077.49 pptv	94
11) Methylene Chloride	6.715	49	274645	9662.62 pptv	94
12) t-Butyl Methyl Ether	7.078	73	942228	10509.78 pptv	100
13) t-1,2-Dichloroethene	7.216	96	296503	8678.11 pptv	93
14) Hexane	7.472	57	437959	9924.36 pptv	100
15) 1,1-Dichloroethane	7.774	63	521353	9834.70 pptv	99
16) 2-Butanone	8.317	72	151969	10064.04 pptv	94
17) c-1,2-Dichloroethene	8.616	96	324660	8603.82 pptv	83
18) Chloroform	8.851	83	681098	9757.11 pptv	100
19) 1,1,1-Trichloroethane	9.461	97	776338	10790.36 pptv	99
20) Carbon Tetrachloride	9.845	117	789363	11927.55 pptv	100
22) Benzene	10.022	78	924575	8132.91 pptv	99
24) 1,2-Dichloroethane	9.924	62	389378	9080.53 pptv	98
25) Trichloroethene	10.913	130	469326	8171.37 pptv	96
26) 1,2-Dichloropropane	11.111	63	322475	9675.20 pptv	99
27) 1,4-Dioxane	11.401	88	253788	8999.07 pptv	92
28) Bromodichloromethane	11.419	83	706460	11150.21 pptv	99
30) Toluene	12.752	91	1357084	9416.88 pptv	100
32) t-1,3-Dichloropropene	12.198	75	484107	10642.86 pptv	100
33) 1,1,2-Trichloroethane	13.156	97	421414	10065.00 pptv	98
34) Tetrachloroethene	13.777	166	792034	10866.52 pptv	98
35) 1,2-Dibromoethane	14.261	107	618868	9713.51 pptv	97
36) Chlorobenzene	14.962	112	1142675	9969.85 pptv	100
37) Ethylbenzene	15.071	91	1740727	10873.96 pptv	100
38) p,&m-Xylene	15.202	91	2587086	20238.26 pptv	99
39) o-Xylene	15.876	91	1271930	10210.28 pptv	96
40) Styrene	15.899	104	995203	9886.19 pptv	97
41) 1,1,2,2-Tetrachloroethane	16.651	83	806597	10275.05 pptv	99

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN012.D
Acq On : 18 Jan 2020 1:14 am
Operator : DT
Sample : 10000 PPTV ICAL
Misc : 250 ML
ALS Vial : 12 Sample Multiplier: 1

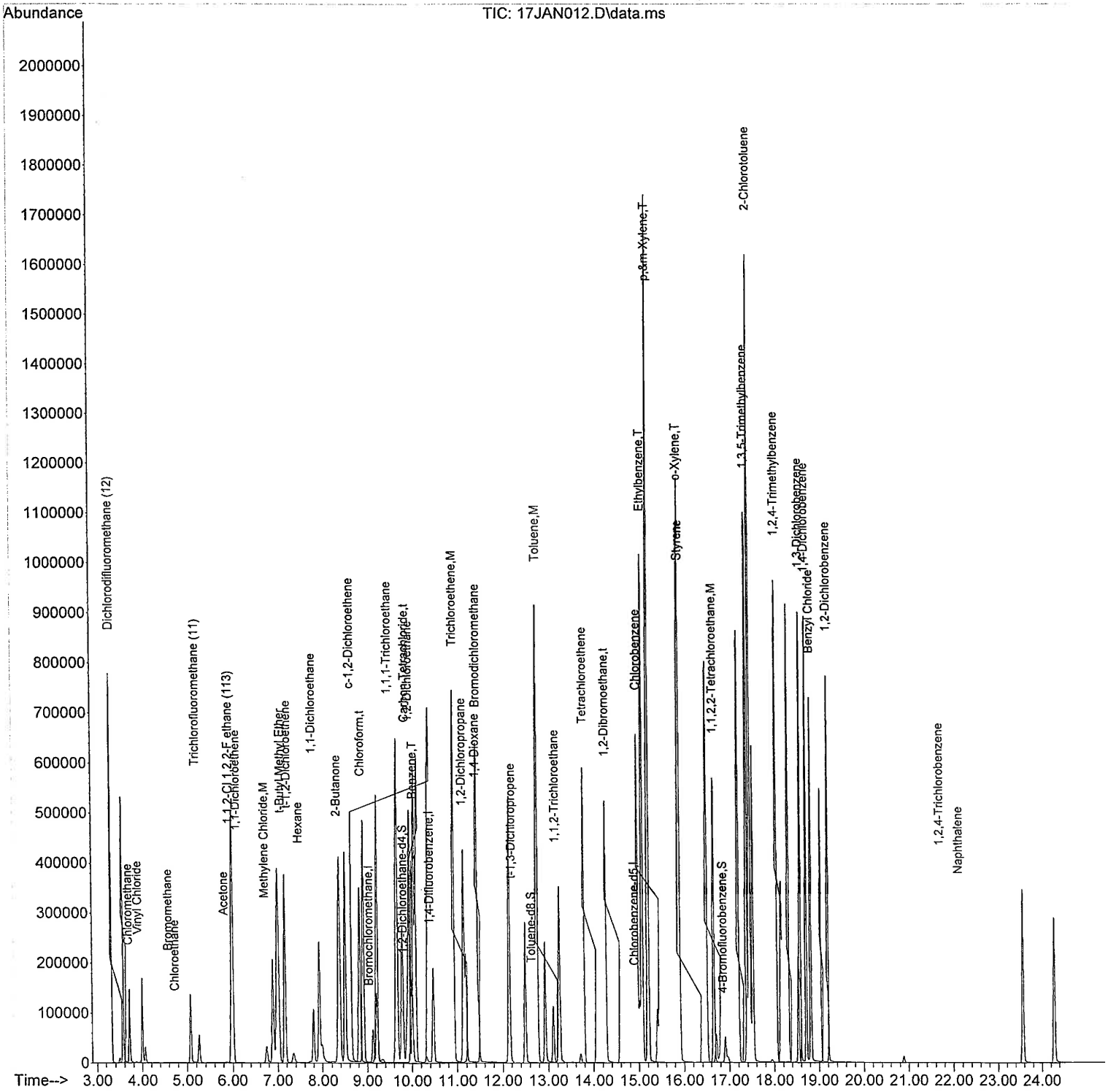
Quant Time: Jan 18 01:39:16 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	995760	8960.52 pptv	99
44) 1,4-Dichlorobenzene	18.708	146	963452	8508.86 pptv	97
45) Benzyl Chloride	18.813	91	1072874	17529.13 pptv	98
46) 1,2-Dichlorobenzene	19.189	146	902781	8472.76 pptv	99
47) 1,2,4-Trichlorobenzene	21.698	180	432317	7618.66 pptv	99
48) Naphthalene	22.120	128	738578	7048.06 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	1470922	10403.37 pptv	79
50) 2-Chlorotoluene	17.449	91	987144	10318.56 pptv	80
51) 1,2,4-Trimethylbenzene	18.042	105	1269213	9793.03 pptv	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\200113\
Data File : 17JAN012.D
Acq On : 18 Jan 2020 1:14 am
Operator : DT
Sample : 10000 PPTV ICAL
Misc : 250 ML
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 01:39:16 2020
Quant Method : C:\MSDCHEM\1\METHODS\SL191224.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Dec 25 08:28:36 2019
Response via : Initial Calibration



4. Initial Calibration Verification

a. ICV Summary
b. Results/Chromatograms

Default Initial Calibration Criteria:

Target compounds must have %Diff <30%

(This criteria may be superseded by project specific criteria)

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\200113\
Data File : 19JAN009.D
Acq On : 19 Jan 2020 1:40 pm
Operator : MJ
Sample : ICV/LCS
Misc : 125 ML AW1319512
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 18 08:18:17 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Thu Feb 13 07:43:35 2020
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 175%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	109	0.00
2		Dichlorodifluoromethane (12	2.872	2.779	3.2	109	0.00
3		Chloromethane	0.639	0.575	10.0	106	0.00
4		Vinyl Chloride	0.659	0.684	-3.8	105	-0.01
5		Bromomethane	0.443	0.510	-15.1	120	-0.01
6		Chloroethane	0.356	0.366	-2.8	116	0.00
7		Trichlorofluoromethane (11)	2.811	2.877	-2.3	109	0.00
8		1,1,2-Cl 1,2,2-F ethane (11	2.296	2.198	4.3	101	0.00
9		Acetone	1.463	1.662	-13.6	140	-0.01
10		1,1-Dichloroethene	0.995	0.912	8.3	99	0.00
11	M	Methylene Chloride	0.908	0.915	-0.8	109	0.00
12		t-Butyl Methyl Ether	2.719	2.657	2.3	102	0.00
13		t-1,2-Dichloroethene	0.853	0.873	-2.3	105	0.00
14		Hexane	1.390	1.259	9.4	100	0.00
15		1,1-Dichloroethane	1.648	1.672	-1.5	106	0.00
16		2-Butanone	0.466	0.487	-4.5	113	0.00
17		c-1,2-Dichloroethene	1.007	0.966	4.1	102	0.00
18	t	Chloroform	2.088	2.144	-2.7	106	0.00
19		1,1,1-Trichloroethane	2.297	2.330	-1.4	106	0.00
20	t	Carbon Tetrachloride	2.087	2.231	-6.9	108	0.00
21	I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
22	T	Benzene	0.719	0.668	7.1	104	0.00
23	S	1,2-Dichloroethane-d4	0.263	0.283	-7.6	115	0.00
24		1,2-Dichloroethane	0.257	0.276	-7.4	110	0.00
25	M	Trichloroethene	0.316	0.306	3.2	100	0.00
26		1,2-Dichloropropane	0.217	0.221	-1.8	105	0.00
27		1,4-Dioxane	0.170	0.157	7.6	99	0.00
28		Bromodichloromethane	0.404	0.442	-9.4	106	0.00
29	S	Toluene-d8	0.876	0.888	-1.4	107	0.00
30	M	Toluene	0.957	0.878	8.3	102	0.00
31	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
32		t-1,3-Dichloropropene	0.333	0.364	-9.3	106	0.00
33		1,1,2-Trichloroethane	0.356	0.372	-4.5	102	0.00
34		Tetrachloroethene	0.662	0.639	3.5	99	0.00
35	t	1,2-Dibromoethane	0.478	0.515	-7.7	103	0.00
36		Chlorobenzene	0.975	0.963	1.2	102	0.00
37	T	Ethylbenzene	1.386	1.347	2.8	100	0.00
38	T	p,&m-Xylene	1.163	1.007	13.4	99	0.00
39	T	o-Xylene	0.959	0.959	0.0	99	0.00
40		Styrene	0.615	0.636	-3.4	96	0.00
41	M	1,1,2,2-Tetrachloroethane	0.629	0.753	-19.7	110	0.00
42	S	4-Bromofluorobenzene	0.500	0.531	-6.2	112	0.00
43		1,3-Dichlorobenzene	0.713	0.861	-20.8	116	0.00
44		1,4-Dichlorobenzene	0.682	0.810	-18.8	119	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\200113\
Data File : 19JAN009.D
Acq On : 19 Jan 2020 1:40 pm
Operator : MJ
Sample : ICV/LCS
Misc : 125 ML AW1319512
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 18 08:18:17 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Thu Feb 13 07:43:35 2020
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 175%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
45	Benzyl Chloride	0.478	0.695	-45.4#	132	0.00
46	1,2-Dichlorobenzene	0.656	0.825	-25.8	121	0.00
47	1,2,4-Trichlorobenzene	0.322	0.576	-78.9#	183#	0.00
48	Naphthalene	0.520	0.911	-75.2#	183#	0.00
49	1,3,5-Trimethylbenzene	0.941	1.059	-12.5	101	0.00
50	2-Chlorotoluene	0.703	0.771	-9.7	95	0.00
51	1,2,4-Trimethylbenzene	0.827	1.027	-24.2	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200113\
Data File : 19JAN009.D
Acq On : 19 Jan 2020 1:40 pm
Operator : MJ
Sample : ICV/LCS
Misc : 125 ML AW1319512
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 18 08:18:17 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Thu Feb 13 07:43:35 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	9.021	130	70077	2000.00 pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	321330	2000.00 pptv	0.00
31) Chlorobenzene-d5	14.902	117	251829	2000.00 pptv	0.00
System Monitoring Compounds					
23) 1,2-Dichloroethane-d4	9.787	65	90851	2153.16 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 107.66%		
29) Toluene-d8	12.632	98	285422	2027.70 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 101.38%		
42) 4-Bromofluorobenzene	16.858	95	133712	2121.87 pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 106.09%		
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	3.341	85	48688	483.91 pptv	99
3) Chloromethane	3.710	50	10077	450.05 pptv	100
4) Vinyl Chloride	3.925	62	11991	519.18 pptv	100
5) Bromomethane	4.597	96	8936	575.99 pptv	99
6) Chloroethane	4.748	64	6412	514.43 pptv	92
7) Trichlorofluoromethane...	5.208	101	50406	511.68 pptv	100
8) 1,1,2-Cl 1,2,2-F ethan...	5.932	151	38515	478.71 pptv	90
9) Acetone	5.822	43	29120	568.09 pptv	99
10) 1,1-Dichloroethene	6.093	96	15972	458.06 pptv	90
11) Methylene Chloride	6.715	49	16038	504.22 pptv	87
12) t-Butyl Methyl Ether	7.078	73	46552	488.55 pptv	93
13) t-1,2-Dichloroethene	7.210	96	15295	511.83 pptv	86
14) Hexane	7.469	57	22054	452.67 pptv	93
15) 1,1-Dichloroethane	7.765	63	29294	507.27 pptv	100
16) 2-Butanone	8.311	72	8526	522.16 pptv	88
17) c-1,2-Dichloroethene	8.604	96	16920	479.35 pptv	74
18) Chloroform	8.832	83	37559	513.37 pptv	100
19) 1,1,1-Trichloroethane	9.449	97	40818	507.19 pptv	99
20) Carbon Tetrachloride	9.836	117	39080	534.35 pptv	99
22) Benzene	10.013	78	53696	464.97 pptv	98
24) 1,2-Dichloroethane	9.915	62	22209	536.92 pptv	99
25) Trichloroethene	10.907	130	24564	484.13 pptv	95
26) 1,2-Dichloropropane	11.105	63	17741	509.21 pptv	98
27) 1,4-Dioxane	11.404	88	12615	461.32 pptv #	84
28) Bromodichloromethane	11.413	83	35491	546.92 pptv	99
30) Toluene	12.749	91	70534	458.74 pptv	100
32) t-1,3-Dichloropropene	12.195	75	22902	545.41 pptv	100
33) 1,1,2-Trichloroethane	13.152	97	23393	522.59 pptv	96
34) Tetrachloroethene	13.773	166	40244	482.62 pptv	97
35) 1,2-Dibromoethane	14.259	107	32454	539.51 pptv	98
36) Chlorobenzene	14.962	112	60641	494.19 pptv	99
37) Ethylbenzene	15.071	91	84775	485.73 pptv	99
38) p,&m-Xylene	15.199	91	126816	866.31 pptv	99
39) o-Xylene	15.876	91	60378	499.97 pptv	96
40) Styrene	15.899	104	40061	517.51 pptv	93
41) 1,1,2,2-Tetrachloroethane	16.651	83	47428	598.57 pptv	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200113\
Data File : 19JAN009.D
Acq On : 19 Jan 2020 1:40 pm
Operator : MJ
Sample : ICV/LCS
Misc : 125 ML AW1319512
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 18 08:18:17 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Thu Feb 13 07:43:35 2020
Response via : Initial Calibration

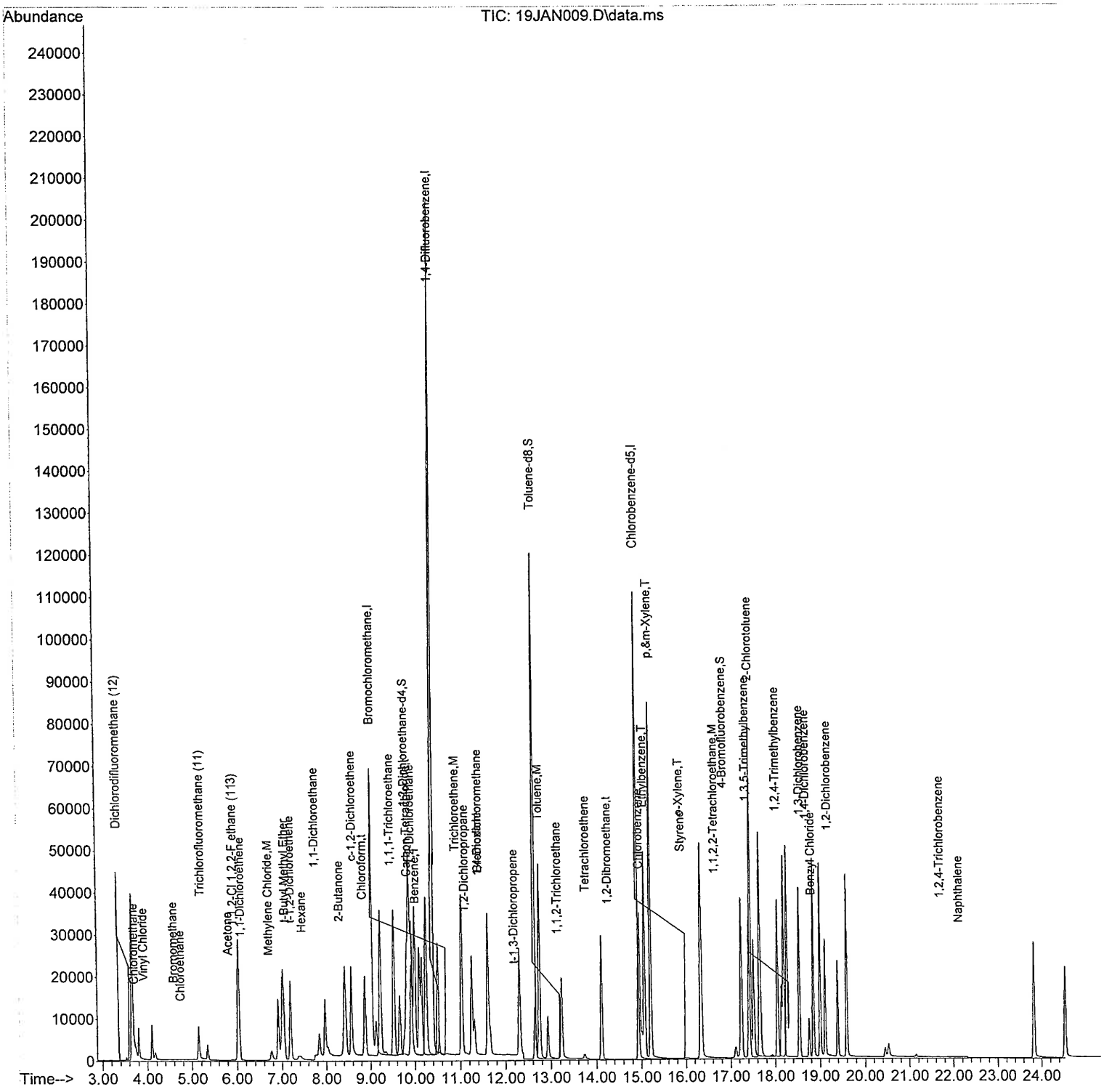
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	54198	603.70 pptv	100
44) 1,4-Dichlorobenzene	18.708	146	50982	593.98 pptv	98
45) Benzyl Chloride	18.816	91	43753	726.42 pptv	95
46) 1,2-Dichlorobenzene	19.192	146	51957	628.81 pptv	99
47) 1,2,4-Trichlorobenzene	21.700	180	36257	894.64 pptv	99
48) Naphthalene	22.126	128	57329	874.93 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	66656	562.77 pptv	79
50) 2-Chlorotoluene	17.450	91	48544	548.26 pptv	81
51) 1,2,4-Trimethylbenzene	18.042	105	64663	620.83 pptv	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200113\
Data File : 19JAN009.D
Acq On : 19 Jan 2020 1:40 pm
Operator : MJ
Sample : ICV/LCS
Misc : 125 ML AW1319512
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 18 08:18:17 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Thu Feb 13 07:43:35 2020
Response via : Initial Calibration



5. Continuing Calibration Verification

a. CCV Summary
b. Results/Chromatograms

Default Continuing Calibration Criteria:

Target compounds must have %Diff <30%

(This criteria may be superseded by project specific criteria)

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN001.D
Acq On : 22 Jan 2020 8:45 am
Operator : DT
Sample : SIM CCV
Misc : 125 ML, EM 1729-1706
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 09:18:34 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 175%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	95	0.00
2		Dichlorodifluoromethane (12	2.872	2.844	1.0	98	0.00
3		Chloromethane	0.639	0.561	12.2	90	0.00
4		Vinyl Chloride	0.659	0.755	-14.6	101	-0.01
5		Bromomethane	0.443	0.466	-5.2	95	0.00
6		Chloroethane	0.356	0.338	5.1	93	0.00
7		Trichlorofluoromethane (11)	2.811	2.902	-3.2	96	0.00
8		1,1,2-Cl 1,2,2-F ethane (11	2.296	2.403	-4.7	96	0.00
9		Acetone	1.463	1.393	4.8	102	0.00
10		1,1-Dichloroethene	0.995	1.038	-4.3	98	0.00
11	M	Methylene Chloride	0.908	0.928	-2.2	96	0.00
12		t-Butyl Methyl Ether	2.719	2.779	-2.2	93	0.00
13		t-1,2-Dichloroethene	0.853	0.933	-9.4	98	0.00
14		Hexane	1.390	1.360	2.2	95	0.00
15		1,1-Dichloroethane	1.648	1.714	-4.0	95	0.00
16		2-Butanone	0.466	0.495	-6.2	100	0.00
17		c-1,2-Dichloroethene	1.007	1.067	-6.0	98	0.00
18	t	Chloroform	2.088	2.239	-7.2	97	0.00
19		1,1,1-Trichloroethane	2.297	2.409	-4.9	95	0.00
20	t	Carbon Tetrachloride	2.087	2.284	-9.4	96	0.00
21	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
22	T	Benzene	0.719	0.708	1.5	99	0.00
23	S	1,2-Dichloroethane-d4	0.263	0.259	1.5	94	0.00
24		1,2-Dichloroethane	0.257	0.269	-4.7	96	0.00
25	M	Trichloroethene	0.316	0.335	-6.0	98	0.00
26		1,2-Dichloropropane	0.217	0.225	-3.7	96	0.00
27		1,4-Dioxane	0.170	0.170	0.0	97	0.00
28		Bromodichloromethane	0.404	0.450	-11.4	97	0.00
29	S	Toluene-d8	0.876	0.858	2.1	93	0.00
30	M	Toluene	0.957	0.912	4.7	95	0.00
31	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
32		t-1,3-Dichloropropene	0.333	0.388	-16.5	100	0.00
33		1,1,2-Trichloroethane	0.356	0.407	-14.3	99	0.00
34		Tetrachloroethene	0.662	0.704	-6.3	97	0.00
35	t	1,2-Dibromoethane	0.478	0.584	-22.2	103	0.00
36		Chlorobenzene	0.975	1.021	-4.7	95	0.00
37	T	Ethylbenzene	1.386	1.431	-3.2	93	0.00
38	T	p,&m-Xylene	1.163	1.064	8.5	92	0.00
39	T	o-Xylene	0.959	1.144	-19.3	104	0.00
40		Styrene	0.615	0.794	-29.1	106	0.00
41	M	1,1,2,2-Tetrachloroethane	0.629	0.745	-18.4	95	0.00
42	S	4-Bromofluorobenzene	0.500	0.519	-3.8	96	0.00
43		1,3-Dichlorobenzene	0.713	0.790	-10.8	94	0.00
44		1,4-Dichlorobenzene	0.682	0.731	-7.2	94	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN001.D
Acq On : 22 Jan 2020 8:45 am
Operator : DT
Sample : SIM CCV
Misc : 125 ML, EM 1729-1706
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 09:18:34 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 175%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
45	Benzyl Chloride	0.478	0.542	-13.4	91	0.00
46	1,2-Dichlorobenzene	0.656	0.732	-11.6	94	0.00
47	1,2,4-Trichlorobenzene	0.322	0.362	-12.4	101	0.00
48	Naphthalene	0.520	0.626	-20.4	111	0.00
49	1,3,5-Trimethylbenzene	0.941	1.088	-15.6	92	0.00
50	2-Chlorotoluene	0.703	0.865	-23.0	94	0.00
51	1,2,4-Trimethylbenzene	0.827	1.036	-25.3	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN001.D
Acq On : 22 Jan 2020 8:45 am
Operator : DT
Sample : SIM CCV
Misc : 125 ML, EM 1729-1706
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 09:18:34 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.018	130	61133	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	289002	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	221916	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	74738	1969.42	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 98.47%			
29) Toluene-d8	12.629	98	247887	1958.04	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 97.90%			
42) 4-Bromofluorobenzene	16.858	95	115098	2072.69	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 103.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.341	85	43472	495.28	pptv	99
3) Chloromethane	3.713	50	8578	439.15	pptv	99
4) Vinyl Chloride	3.925	62	11533	572.41	pptv	99
5) Bromomethane	4.600	96	7123	526.31	pptv	98
6) Chloroethane	4.748	64	5169	475.38	pptv	93
7) Trichlorofluoromethane...	5.208	101	44353	516.11	pptv	99
8) 1,1,2-Cl 1,2,2-F ethan...	5.932	151	36732	523.34	pptv	93
9) Acetone	5.825	43	21282	475.92	pptv	96
10) 1,1-Dichloroethene	6.093	96	15867	521.62	pptv	95
11) Methylene Chloride	6.715	49	14182	511.10	pptv	98
12) t-Butyl Methyl Ether	7.075	73	42474	510.97	pptv	94
13) t-1,2-Dichloroethene	7.210	96	14260	547.01	pptv	91
14) Hexane	7.469	57	20781	488.94	pptv	99
15) 1,1-Dichloroethane	7.762	63	26196	519.99	pptv	99
16) 2-Butanone	8.311	72	7568	531.30	pptv	90
17) c-1,2-Dichloroethene	8.604	96	16306	529.54	pptv	77
18) Chloroform	8.835	83	34213	536.05	pptv	99
19) 1,1,1-Trichloroethane	9.446	97	36824	524.51	pptv	99
20) Carbon Tetrachloride	9.833	117	34914	547.23	pptv	99
22) Benzene	10.013	78	51137	492.35	pptv	98
24) 1,2-Dichloroethane	9.915	62	19439	522.52	pptv	98
25) Trichloroethene	10.904	130	24230	530.97	pptv	96
26) 1,2-Dichloropropane	11.102	63	16232	518.01	pptv	100
27) 1,4-Dioxane	11.401	88	12303	500.24	pptv	90
28) Bromodichloromethane	11.410	83	32547	557.66	pptv	98
30) Toluene	12.745	91	65912	476.63	pptv	99
32) t-1,3-Dichloropropene	12.195	75	21520	581.58	pptv	100
33) 1,1,2-Trichloroethane	13.152	97	22555	571.79	pptv	98
34) Tetrachloroethene	13.773	166	39081	531.85	pptv	98
35) 1,2-Dibromoethane	14.257	107	32383	610.90	pptv	98
36) Chlorobenzene	14.959	112	56650	523.90	pptv	99
37) Ethylbenzene	15.068	91	79409	516.32	pptv	98
38) p,&m-Xylene	15.197	91	118093	915.46	pptv	100
39) o-Xylene	15.874	91	63463	596.35	pptv	94
40) Styrene	15.897	104	44068	646.01	pptv	95
41) 1,1,2,2-Tetrachloroethane	16.651	83	41335	591.99	pptv	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN001.D
Acq On : 22 Jan 2020 8:45 am
Operator : DT
Sample : SIM CCV
Misc : 125 ML, EM 1729-1706
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 09:18:34 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

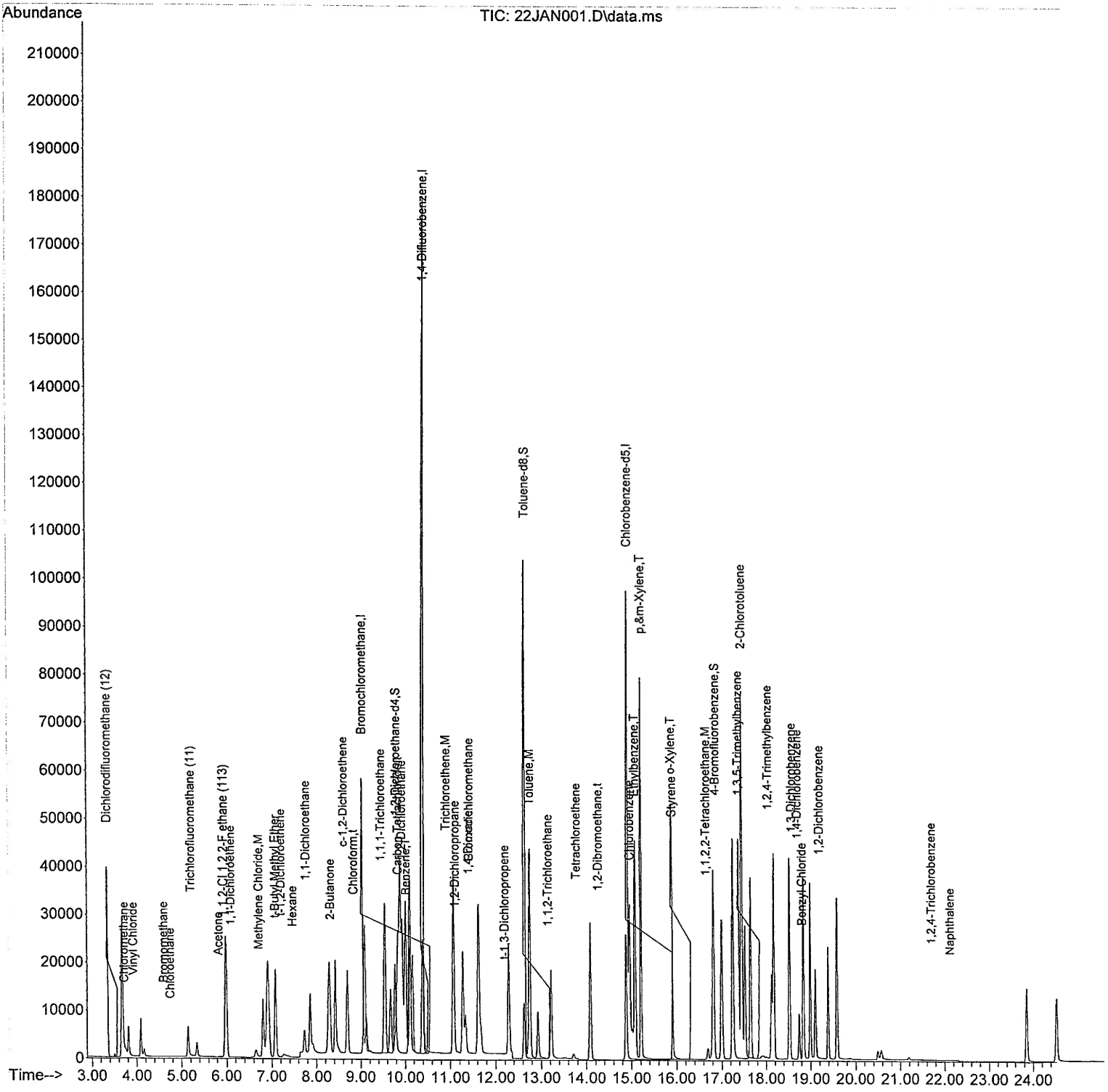
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	43828	554.00 pptv	100
44) 1,4-Dichlorobenzene	18.708	146	40564	536.31 pptv	98
45) Benzyl Chloride	18.813	91	30069	566.52 pptv	94
46) 1,2-Dichlorobenzene	19.192	146	40592	557.49 pptv	100
47) 1,2,4-Trichlorobenzene	21.700	180	20072	562.03 pptv	99
48) Naphthalene	22.123	128	34725	601.39 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	60334	578.06 pptv	80
50) 2-Chlorotoluene	17.446	91	47979	614.93 pptv	81
51) 1,2,4-Trimethylbenzene	18.039	105	57458	626.02 pptv	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN001.D
Acq On : 22 Jan 2020 8:45 am
Operator : DT
Sample : SIM CCV
Misc : 125 ML, EM 1729-1706
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 09:18:34 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration



6. Tune Summaries N/A

a. ICAL Summary
b. QC batch Tune Summary

Criteria as listed in report

7. Method Blank

a. Results/Chromatograms

Method Blank Criteria:

All compounds < Reporting Limit

(This criteria may be superseded by any project specific criteria)

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN004.D
Acq On : 22 Jan 2020 11:00 am
Operator : DT
Sample : METHOD BLANK
Misc : 250 ML
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 22 14:24:01 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

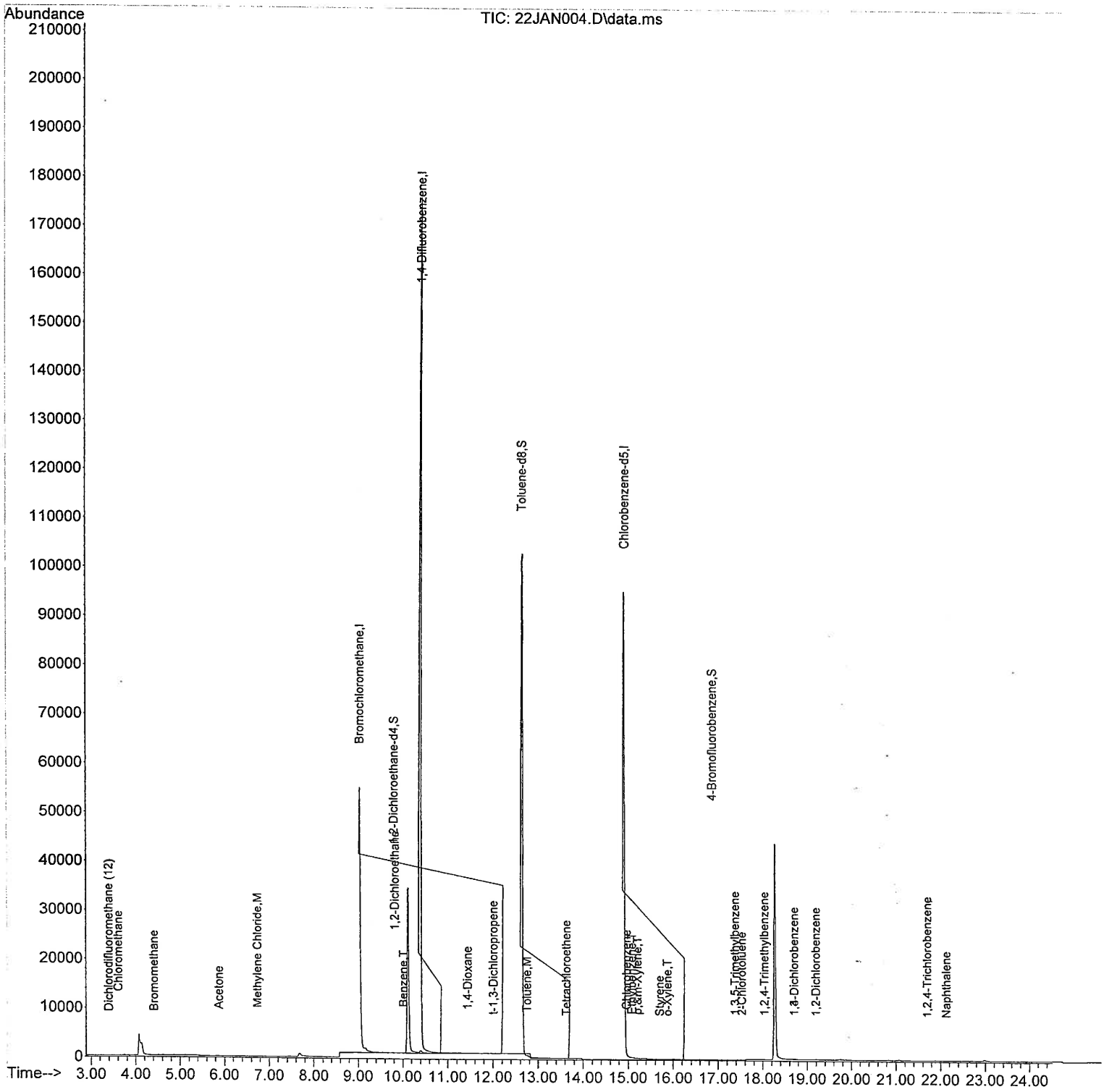
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.024	130	62254	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	282543	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.904	117	225333	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	78303	2110.53	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 105.53%			
29) Toluene-d8	12.632	98	246231	1989.42	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 99.47%			
42) 4-Bromofluorobenzene	16.861	95	111203	1972.18	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 98.61%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.393	85	106	1.19	pptv	99
3) Chloromethane	3.608	50	343	17.24	pptv	48
5) Bromomethane	4.414	96	134	9.72	pptv	59
9) Acetone	5.875	43	1432	31.45	pptv	84
11) Methylene Chloride	6.737	49	119	4.21	pptv	61
22) Benzene	10.013	78	969	9.54	pptv	90
24) 1,2-Dichloroethane	9.811	62	74	2.03	pptv #	1
27) 1,4-Dioxane	11.440	88	87	3.62	pptv	91
30) Toluene	12.748	91	320	2.37	pptv	91
32) t-1,3-Dichloropropene	12.011	75	63	1.68	pptv #	1
34) Tetrachloroethene	13.630	166	105	1.41	pptv	74
36) Chlorobenzene	14.965	112	59	0.54	pptv	88
37) Ethylbenzene	15.079	91	84	0.54	pptv	76
38) p,&m-Xylene	15.208	91	168	1.28	pptv	89
39) o-Xylene	15.881	91	64	0.59	pptv	93
40) Styrene	15.703	104	92	1.33	pptv #	1
43) 1,3-Dichlorobenzene	18.711	146	349	4.34	pptv	92
44) 1,4-Dichlorobenzene	18.711	146	349	4.54	pptv	90
46) 1,2-Dichlorobenzene	19.197	146	101	1.37	pptv	89
47) 1,2,4-Trichlorobenzene	21.704	180	141	3.89	pptv	86
48) Naphthalene	22.134	128	321	5.47	pptv	100
49) 1,3,5-Trimethylbenzene	17.378	105	90	0.85	pptv	69
50) 2-Chlorotoluene	17.528	91	60	0.76	pptv	91
51) 1,2,4-Trimethylbenzene	18.041	105	116	1.24	pptv #	34

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN004.D
Acq On : 22 Jan 2020 11:00 am
Operator : DT
Sample : METHOD BLANK
Misc : 250 ML
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 22 14:24:01 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration



8. LCS/LCSD

a. Results/Chromatograms

Criteria as listed on report

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN002.D
Acq On : 22 Jan 2020 9:44 am
Operator : DT
Sample : SIM LCS
Misc : 125 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 14:23:53 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.024	130	61262	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.385	114	287891	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	221832	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.790	65	75182	1988.77	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 99.44%			
29) Toluene-d8	12.632	98	249144	1975.56	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 98.78%			
42) 4-Bromofluorobenzene	16.862	95	114371	2060.37	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 103.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.349	85	44340	504.11	pptv	98
3) Chloromethane	3.716	50	8548	436.69	pptv	99
4) Vinyl Chloride	3.931	62	11567	572.89	pptv	99
5) Bromomethane	4.603	96	7192	530.28	pptv	99
6) Chloroethane	4.748	64	5046	463.09	pptv	93
7) Trichlorofluoromethane...	5.211	101	44534	517.13	pptv	99
8) 1,1,2-Cl 1,2,2-F ethan...	5.935	151	37371	531.33	pptv	92
9) Acetone	5.828	43	47273	1054.93	pptv	96
10) 1,1-Dichloroethene	6.096	96	15909	521.90	pptv	93
11) Methylene Chloride	6.721	49	13957	501.93	pptv	93
12) t-Butyl Methyl Ether	7.081	73	41083	493.19	pptv	94
13) t-1,2-Dichloroethene	7.213	96	13848	530.09	pptv	92
14) Hexane	7.475	57	20156	473.24	pptv	98
15) 1,1-Dichloroethane	7.768	63	26384	522.62	pptv	99
16) 2-Butanone	8.314	72	9648	675.89	pptv	97
17) c-1,2-Dichloroethene	8.610	96	15464	501.14	pptv	81
18) Chloroform	8.838	83	33319	520.95	pptv	99
19) 1,1,1-Trichloroethane	9.454	97	36050	512.40	pptv	100
20) Carbon Tetrachloride	9.839	117	33508	524.09	pptv	99
22) Benzene	10.016	78	48054	464.45	pptv	100
24) 1,2-Dichloroethane	9.918	62	18487	498.85	pptv	96
25) Trichloroethene	10.910	130	22631	497.84	pptv	96
26) 1,2-Dichloropropane	11.105	63	15386	492.91	pptv	97
27) 1,4-Dioxane	11.404	88	11580	472.66	pptv	91
28) Bromodichloromethane	11.413	83	29714	511.08	pptv	99
30) Toluene	12.749	91	60960	442.52	pptv	100
32) t-1,3-Dichloropropene	12.198	75	15876	429.21	pptv	100
33) 1,1,2-Trichloroethane	13.156	97	20167	511.45	pptv	99
34) Tetrachloroethene	13.775	166	34477	469.37	pptv	98
35) 1,2-Dibromoethane	14.261	107	26926	508.15	pptv	97
36) Chlorobenzene	14.961	112	48793	451.41	pptv	99
37) Ethylbenzene	15.070	91	69568	452.50	pptv	99
38) p,&m-Xylene	15.202	91	103657	803.86	pptv	100
39) o-Xylene	15.878	91	53561	503.49	pptv	94
40) Styrene	15.899	104	35509	520.73	pptv	94
41) 1,1,2,2-Tetrachloroethane	16.651	83	39830	570.65	pptv	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN002.D
Acq On : 22 Jan 2020 9:44 am
Operator : DT
Sample : SIM LCS
Misc : 125 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 14:23:53 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

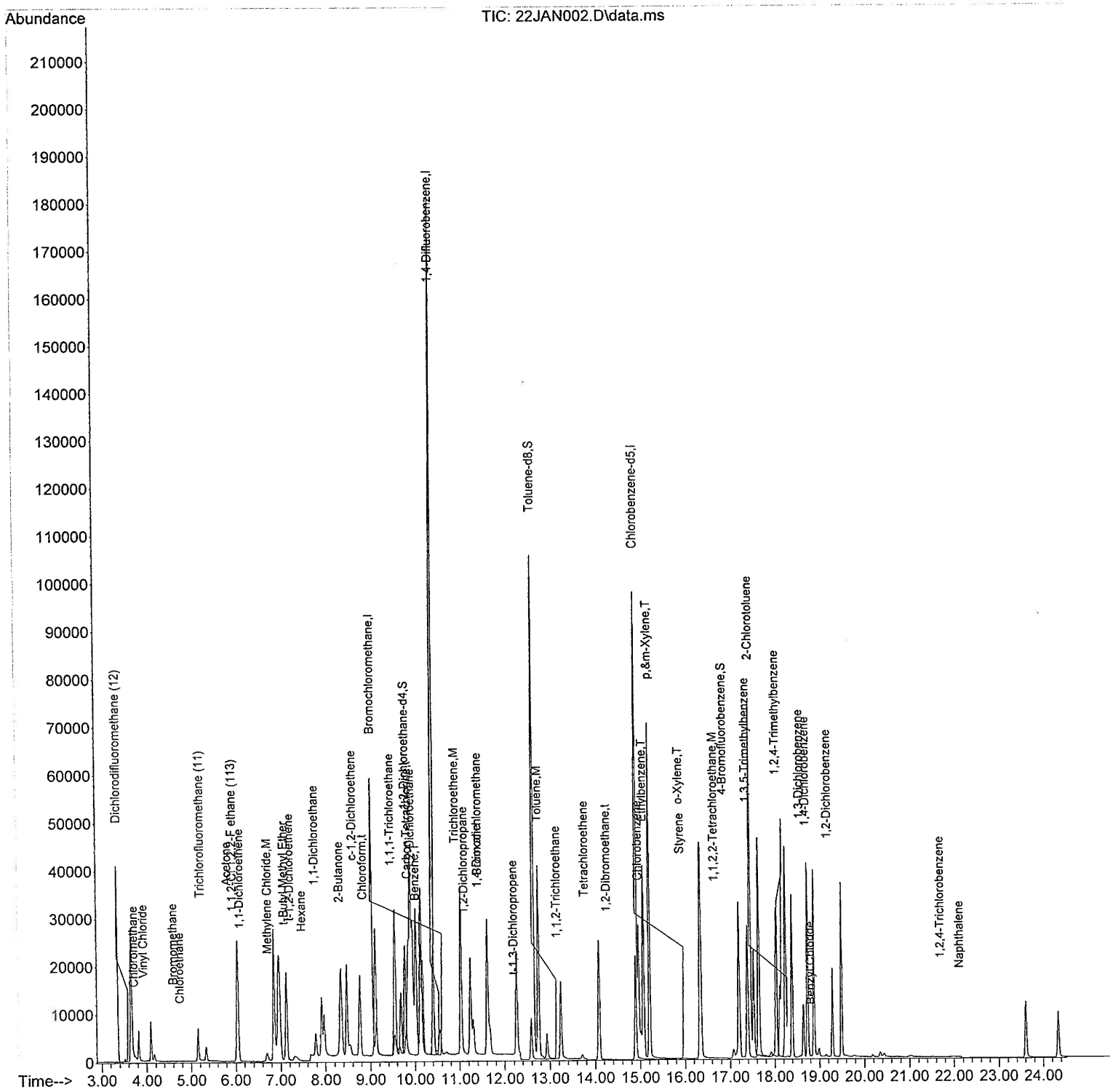
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	46140	583.44 pptv	100
44) 1,4-Dichlorobenzene	18.708	146	43325	573.03 pptv	98
45) Benzyl Chloride	18.807	91	2993	56.41 pptv #	68
46) 1,2-Dichlorobenzene	19.191	146	44044	605.13 pptv	100
47) 1,2,4-Trichlorobenzene	21.698	180	15330	429.42 pptv	100
48) Naphthalene	22.124	128	26000	450.46 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	58873	564.27 pptv	80
50) 2-Chlorotoluene	17.449	91	40558	520.01 pptv	82
51) 1,2,4-Trimethylbenzene	18.042	105	68106	742.31 pptv	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN002.D
Acq On : 22 Jan 2020 9:44 am
Operator : DT
Sample : SIM LCS
Misc : 125 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 14:23:53 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN003.D
Acq On : 22 Jan 2020 10:20 am
Operator : DT
Sample : SIM LCSD
Misc : 125 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 14:23:57 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.021	130	61768	2000.00	pptv	0.00
21) 1,4-Difluorobenzene	10.382	114	288545	2000.00	pptv	0.00
31) Chlorobenzene-d5	14.902	117	224705	2000.00	pptv	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	9.787	65	75851	2001.92	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 100.10%			
29) Toluene-d8	12.632	98	252185	1995.14	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 99.76%			
42) 4-Bromofluorobenzene	16.858	95	117721	2093.61	pptv	0.00
Spiked Amount 2000.000	Range 70 - 130		Recovery = 104.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	3.341	85	40215	453.47	pptv	99
3) Chloromethane	3.710	50	8435	427.39	pptv	99
4) Vinyl Chloride	3.922	62	10386	510.18	pptv	100
5) Bromomethane	4.597	96	7247	529.96	pptv	97
6) Chloroethane	4.740	64	4890	445.10	pptv	92
7) Trichlorofluoromethane...	5.205	101	41571	478.77	pptv	100
8) 1,1,2-Cl 1,2,2-F ethan...	5.932	151	34131	481.29	pptv	91
9) Acetone	5.822	43	43543	963.73	pptv	97
10) 1,1-Dichloroethene	6.093	96	14623	475.79	pptv	94
11) Methylene Chloride	6.715	49	12941	461.58	pptv	93
12) t-Butyl Methyl Ether	7.078	73	40666	484.19	pptv	96
13) t-1,2-Dichloroethene	7.213	96	13401	508.78	pptv	94
14) Hexane	7.466	57	19544	455.11	pptv	97
15) 1,1-Dichloroethane	7.762	63	24279	476.98	pptv	100
16) 2-Butanone	8.311	72	9196	638.95	pptv	95
17) c-1,2-Dichloroethene	8.607	96	14572	468.36	pptv	80
18) Chloroform	8.835	83	30979	480.39	pptv	100
19) 1,1,1-Trichloroethane	9.449	97	33979	479.01	pptv	100
20) Carbon Tetrachloride	9.833	117	31681	491.45	pptv	99
22) Benzene	10.013	78	46475	448.17	pptv	99
24) 1,2-Dichloroethane	9.918	62	17437	469.45	pptv	98
25) Trichloroethene	10.907	130	21491	471.69	pptv	96
26) 1,2-Dichloropropane	11.102	63	14706	470.05	pptv	99
27) 1,4-Dioxane	11.401	88	10548	429.56	pptv	89
28) Bromodichloromethane	11.413	83	28009	480.67	pptv	99
30) Toluene	12.745	91	59484	430.83	pptv	100
32) t-1,3-Dichloropropene	12.195	75	15401	411.05	pptv	100
33) 1,1,2-Trichloroethane	13.152	97	19209	480.92	pptv	96
34) Tetrachloroethene	13.773	166	33336	448.03	pptv	97
35) 1,2-Dibromoethane	14.259	107	26140	487.00	pptv	98
36) Chlorobenzene	14.959	112	47552	434.30	pptv	99
37) Ethylbenzene	15.068	91	67945	436.29	pptv	99
38) p,&m-Xylene	15.199	91	101377	776.13	pptv	100
39) o-Xylene	15.876	91	50053	464.50	pptv	95
40) Styrene	15.897	104	33369	483.10	pptv	93
41) 1,1,2,2-Tetrachloroethane	16.651	83	38672	546.97	pptv	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN003.D
Acq On : 22 Jan 2020 10:20 am
Operator : DT
Sample : SIM LCSD
Misc : 125 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 14:23:57 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration

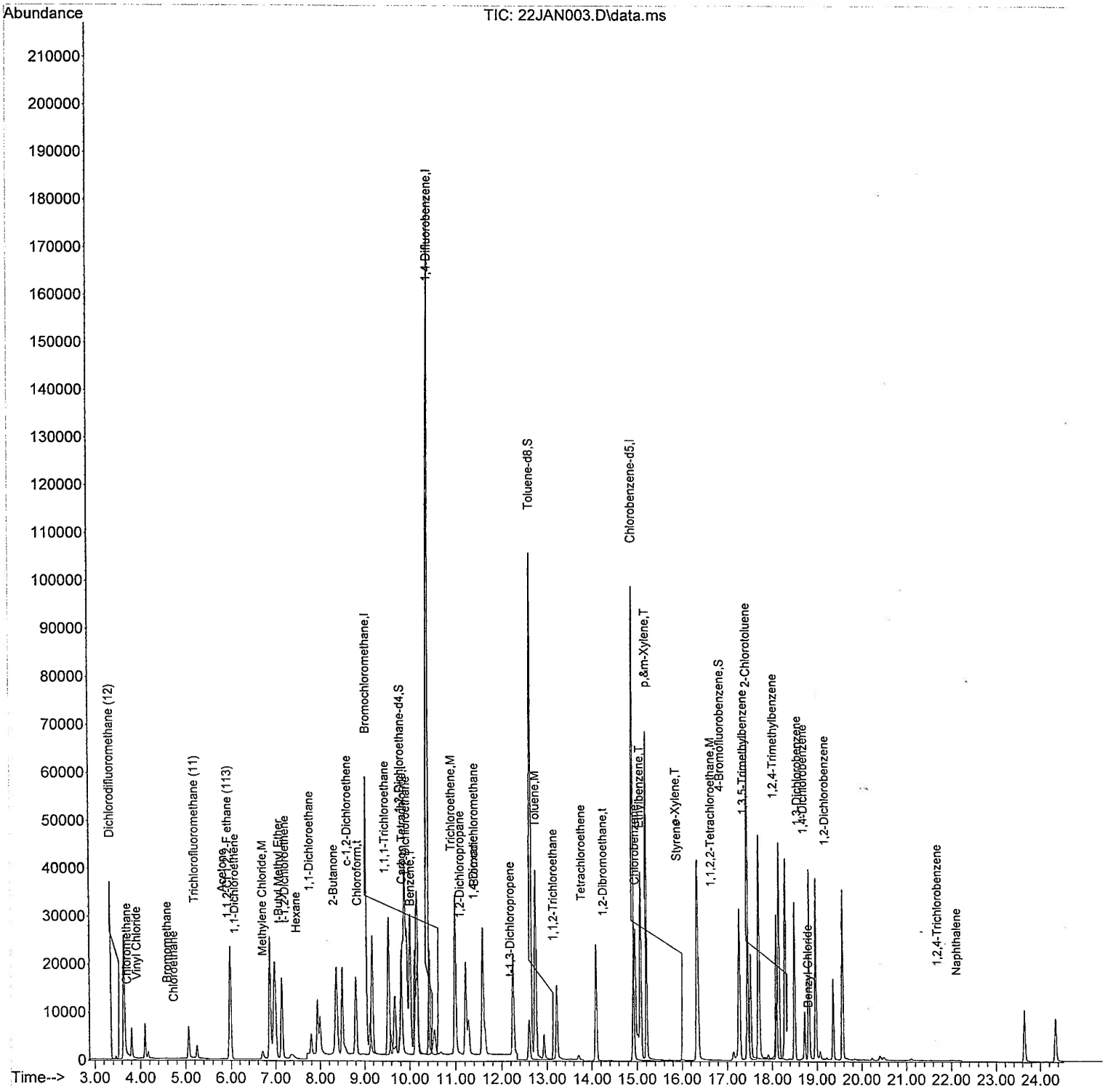
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-Dichlorobenzene	18.577	146	44859	559.99 pptv	99
44) 1,4-Dichlorobenzene	18.708	146	41940	547.62 pptv	99
45) Benzyl Chloride	18.804	91	2977	55.39 pptv #	67
46) 1,2-Dichlorobenzene	19.189	146	42812	580.68 pptv	100
47) 1,2,4-Trichlorobenzene	21.699	180	14314	395.83 pptv	99
48) Naphthalene	22.123	128	23889	408.59 pptv	100
49) 1,3,5-Trimethylbenzene	17.376	105	55252	522.80 pptv	80
50) 2-Chlorotoluene	17.446	91	39149	495.53 pptv	83
51) 1,2,4-Trimethylbenzene	18.039	105	61643	663.28 pptv	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\200120\
Data File : 22JAN003.D
Acq On : 22 Jan 2020 10:20 am
Operator : DT
Sample : SIM LCSD
Misc : 125 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 14:23:57 2020
Quant Method : C:\msdchem\1\methods\SL200118A.M
Quant Title : EPA TO-15 SIM MS2 RTxVolatiles 0.32mm
QLast Update : Wed Jan 22 09:17:51 2020
Response via : Initial Calibration



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1/16/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling
Project #:
Workorder #: 2001138

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/9/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2001138

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 SVE Monthly GAC Sampling
DATE RECEIVED:	01/09/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/15/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_EFF_GAC_010620	TO-15	4.9 "Hg	15.8 psi
02A	OC_SVE_MID_GAC_010620	TO-15	5.1 "Hg	14.9 psi
03A	OC_SVE_INF_GAC_010620	TO-15	5.3 "Hg	15.1 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 01/15/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2001138

Three 1 Liter Summa Canister samples were received on January 09, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_EFF_GAC_010620

Lab ID#: 2001138-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.3	7.0	7.3
1,1-Dichloroethene	1.2	2.5	4.9	10
2-Butanone (Methyl Ethyl Ketone)	5.0	17	15	51
TNMOC ref. to Heptane (MW=100)	25	84	100	340

Client Sample ID: OC_SVE_MID_GAC_010620

Lab ID#: 2001138-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.4	6.8	7.7
Freon 113	1.2	2.1	9.3	16
1,1-Dichloroethene	1.2	2.7	4.8	11
2-Butanone (Methyl Ethyl Ketone)	4.9	15	14	45
TNMOC ref. to Heptane (MW=100)	24	120	99	490

Client Sample ID: OC_SVE_INF_GAC_010620

Lab ID#: 2001138-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.3	6.9	7.3
Freon 113	1.2	4.4	9.4	34
1,1-Dichloroethene	1.2	2.1	4.9	8.5
1,1,1-Trichloroethane	1.2	2.4	6.7	13
Trichloroethene	1.2	4.4	6.6	23
Tetrachloroethene	1.2	72	8.3	490
TNMOC ref. to Heptane (MW=100)	25	380	100	1600

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Client Sample ID: OC_SVE_EFF_GAC_010620

Lab ID#: 2001138-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3011017**	**Date of Collection:**	**1/6/20 9:46:00 AM**
Dil. Factor:	**2.48**	**Date of Analysis:**	**1/10/20 06:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	1.3	7.0	7.3
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	2.5	4.9	10
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	17	15	51
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.7	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Toluene	1.2	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
TNMOC ref. to Heptane (MW=100)	25	84	100	340

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: OC_SVE_MID_GAC_010620

Lab ID#: 2001138-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3011020**	**Date of Collection:**	**1/6/20 9:46:00 AM**
Dil. Factor:	**2.43**	**Date of Analysis:**	**1/10/20 08:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	1.4	6.8	7.7
Freon 113	1.2	2.1	9.3	16
1,1-Dichloroethene	1.2	2.7	4.8	11
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	15	14	45
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected
TNMOC ref. to Heptane (MW=100)	24	120	99	490

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: OC_SVE_INF_GAC_010620

Lab ID#: 2001138-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3011021**	**Date of Collection:**	**1/6/20 9:48:00 AM**
Dil. Factor:	**2.46**	**Date of Analysis:**	**1/10/20 08:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	1.3	6.9	7.3
Freon 113	1.2	4.4	9.4	34
1,1-Dichloroethene	1.2	2.1	4.9	8.5
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	2.4	6.7	13
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	4.4	6.6	23
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	72	8.3	490
o-Xylene	1.2	Not Detected	5.3	Not Detected
TNMOC ref. to Heptane (MW=100)	25	380	100	1600

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001138-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3011006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/10/20 12:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 2001138-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3011002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/10/20 09:02 AM**

Compound	%Recovery
Freon 12	98
Vinyl Chloride	89
Freon 11	100
Freon 113	98
1,1-Dichloroethene	97
2-Propanol	96
Carbon Disulfide	94
Methylene Chloride	98
Hexane	93
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	95
Chloroform	95
1,1,1-Trichloroethane	96
Carbon Tetrachloride	103
Benzene	98
1,2-Dichloroethane	101
Trichloroethene	101
1,4-Dioxane	96
Toluene	91
1,1,2-Trichloroethane	101
Tetrachloroethene	102
o-Xylene	99
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCS

Lab ID#: 2001138-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3011003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/10/20 09:27 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	93	70-130
Vinyl Chloride	88	70-130
Freon 11	98	70-130
Freon 113	98	70-130
1,1-Dichloroethene	99	70-130
2-Propanol	90	70-130
Carbon Disulfide	89	70-130
Methylene Chloride	97	70-130
Hexane	91	70-130
1,1-Dichloroethane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	102	70-130
Benzene	93	70-130
1,2-Dichloroethane	98	70-130
Trichloroethene	101	70-130
1,4-Dioxane	92	70-130
Toluene	90	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	98	70-130
o-Xylene	95	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCSD

Lab ID#: 2001138-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3011004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/10/20 09:51 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	94	70-130
Vinyl Chloride	88	70-130
Freon 11	97	70-130
Freon 113	97	70-130
1,1-Dichloroethene	97	70-130
2-Propanol	90	70-130
Carbon Disulfide	89	70-130
Methylene Chloride	96	70-130
Hexane	91	70-130
1,1-Dichloroethane	96	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	94	70-130
Carbon Tetrachloride	100	70-130
Benzene	92	70-130
1,2-Dichloroethane	99	70-130
Trichloroethene	100	70-130
1,4-Dioxane	92	70-130
Toluene	89	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	98	70-130
o-Xylene	96	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	99	70-130

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

2001138

AIR CHAIN OF CUSTODY RECORD

DATE: 01/06/20
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis	CLIENT PROJECT NAME / NUMBER: Omega - OU1 SVE Monthly GAC Sampling
ADDRESS: 1322 Scott St., Suite 104	PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: San Diego STATE: CA ZIP: 92106	CITY: Whittier STATE: CA ZIP: 90602
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com	PROJECT CONTACT: Trent henderson thenderson@jacobandhefner.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS	SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) ☑ EDD	
SPECIAL INSTRUCTIONS:	

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.3)
01A	1	OC_SVE_EFF_GAC_010620	SP-EFF-GAC	SV	1L1936	1 L	23740	1/6/2020	0941	-26	1/6/2020	0946	-5	X
02A	2	OC_SVE_MID_GAC_010620	SP-MID-GAC	SV	1L2685	1 L	24242	1/6/2020	0942	-26	1/6/2020	0946	-5	X
03A	3	OC_SVE_INF_GAC_010620	SP-INF-GAC	SV	1L2671	1 L	23625	1/6/2020	0943	-26	1/6/2020	0948	-5	X
	4													
	5													
	6													
	7													
	8													
	9													
	10													
	11													
	12													
	13													
	14													
	15													

Custody Seal Intact?
Y N None Temp
FEDEX

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FAIL	01/09/20	0943
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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2/17/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling
Project #:
Workorder #: 2002236

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 2/10/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2002236

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 SVE Monthly GAC Sampling
DATE RECEIVED:	02/10/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/17/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_EFF_GAC_020720	TO-15	3.5 "Hg	15.7 psi
02A	OC_SVE_MID_GAC_020720	TO-15	4.7 "Hg	15.5 psi
03A	OC_SVE_INF_GAC_020720	TO-15	3.7 "Hg	15.6 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/17/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2002236

Three 1 Liter Summa Canister samples were received on February 10, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_EFF_GAC_020720

Lab ID#: 2002236-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.6	6.6	9.1
1,1-Dichloroethene	1.2	2.3	4.6	9.2
2-Butanone (Methyl Ethyl Ketone)	4.7	6.0	14	18
TNMOC ref. to Heptane (MW=100)	23	52	96	210

Client Sample ID: OC_SVE_MID_GAC_020720

Lab ID#: 2002236-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.9	6.8	11
Freon 113	1.2	2.6	9.4	20
1,1-Dichloroethene	1.2	2.4	4.8	9.6
TNMOC ref. to Heptane (MW=100)	24	42	100	170

Client Sample ID: OC_SVE_INF_GAC_020720

Lab ID#: 2002236-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.9	6.6	10
Freon 113	1.2	5.8	9.0	45
1,1-Dichloroethene	1.2	2.4	4.6	9.5
1,1,1-Trichloroethane	1.2	2.6	6.4	14
Benzene	1.2	6.5	3.8	21
Trichloroethene	1.2	5.0	6.3	27
Toluene	1.2	31	4.4	120
Tetrachloroethene	1.2	63	8.0	430
o-Xylene	1.2	9.6	5.1	42
TNMOC ref. to Heptane (MW=100)	24	550	96	2200

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Client Sample ID: OC_SVE_EFF_GAC_020720

Lab ID#: 2002236-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17021406**	**Date of Collection:**	**2/7/20 8:18:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**2/14/20 03:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Freon 11	1.2	1.6	6.6	9.1
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	2.3	4.6	9.2
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	6.0	14	18
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
TNMOC ref. to Heptane (MW=100)	23	52	96	210

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	127	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_MID_GAC_020720

Lab ID#: 2002236-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17021407**	**Date of Collection:**	**2/7/20 8:18:00 AM**
Dil. Factor:	**2.44**	**Date of Analysis:**	**2/14/20 03:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	1.9	6.8	11
Freon 113	1.2	2.6	9.4	20
1,1-Dichloroethene	1.2	2.4	4.8	9.6
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected
TNMOC ref. to Heptane (MW=100)	24	42	100	170

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	126	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_INF_GAC_020720

Lab ID#: 2002236-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17021408**	**Date of Collection:**	**2/7/20 8:19:00 AM**
Dil. Factor:	**2.35**	**Date of Analysis:**	**2/14/20 04:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Freon 11	1.2	1.9	6.6	10
Freon 113	1.2	5.8	9.0	45
1,1-Dichloroethene	1.2	2.4	4.6	9.5
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	2.6	6.4	14
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	6.5	3.8	21
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	5.0	6.3	27
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Toluene	1.2	31	4.4	120
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	63	8.0	430
o-Xylene	1.2	9.6	5.1	42
TNMOC ref. to Heptane (MW=100)	24	550	96	2200

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2002236-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17021405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/14/20 12:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 2002236-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17021402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/14/20 11:32 AM**

Compound	%Recovery
Freon 12	121
Vinyl Chloride	86
Freon 11	129
Freon 113	109
1,1-Dichloroethene	101
2-Propanol	77
Carbon Disulfide	90
Methylene Chloride	84
Hexane	84
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	84
Chloroform	110
1,1,1-Trichloroethane	117
Carbon Tetrachloride	123
Benzene	87
1,2-Dichloroethane	116
Trichloroethene	99
1,4-Dioxane	84
Toluene	88
1,1,2-Trichloroethane	86
Tetrachloroethene	100
o-Xylene	95
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	126	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCS

Lab ID#: 2002236-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17021403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/14/20 11:58 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	122	70-130
Vinyl Chloride	87	70-130
Freon 11	130	70-130
Freon 113	112	70-130
1,1-Dichloroethene	100	70-130
2-Propanol	88	70-130
Carbon Disulfide	90	70-130
Methylene Chloride	80	70-130
Hexane	85	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	86	70-130
Chloroform	109	70-130
1,1,1-Trichloroethane	121	70-130
Carbon Tetrachloride	127	70-130
Benzene	83	70-130
1,2-Dichloroethane	109	70-130
Trichloroethene	95	70-130
1,4-Dioxane	88	70-130
Toluene	85	70-130
1,1,2-Trichloroethane	85	70-130
Tetrachloroethene	100	70-130
o-Xylene	92	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	126	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 2002236-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17021404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/14/20 12:25 PM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	125	70-130
Vinyl Chloride	90	70-130
Freon 11	129	70-130
Freon 113	109	70-130
1,1-Dichloroethene	93	70-130
2-Propanol	82	70-130
Carbon Disulfide	90	70-130
Methylene Chloride	80	70-130
Hexane	82	70-130
1,1-Dichloroethane	93	70-130
2-Butanone (Methyl Ethyl Ketone)	86	70-130
Chloroform	108	70-130
1,1,1-Trichloroethane	120	70-130
Carbon Tetrachloride	127	70-130
Benzene	85	70-130
1,2-Dichloroethane	115	70-130
Trichloroethene	95	70-130
1,4-Dioxane	85	70-130
Toluene	88	70-130
1,1,2-Trichloroethane	88	70-130
Tetrachloroethene	100	70-130
o-Xylene	94	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	128	70-130
4-Bromofluorobenzene	106	70-130

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

2002236

AIR CHAIN OF CUSTODY RECORD

DATE: 2/ 7 /2020
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☒ EDD
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: Omega - OU1 SVE Monthly GAC Sampling
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent henderson thenderson@jacobandhefner.com
SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.3)
01A 1	OC_SVE_EFF_GAC_020720	SP-EFF-GAC	SV	1L2349	1 L	23780	2/ 7/2020	0813	-26	2/ 7/2020	0818	-5	X
02A 2	OC_SVE_MID_GAC_020720	SP-MID-GAC	SV	40899	1 L	24356	2/ 7/2020	0814	-26	2/ 7/2020	0818	-5	X
03A 3	OC_SVE_INF_GAC_020720	SP-INF-GAC	SV	1L3256	1 L	24316	2/ 7/2020	0815	-27	2/ 7/2020	0819	-5	X
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

Custody Seal Intact? Y N None Temp N/A

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		2/10/20	0925
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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3/24/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling
Project #:
Workorder #: 2003458

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 3/17/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2003458

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 SVE Monthly GAC Sampling
DATE RECEIVED:	03/17/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/24/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_EFF_GAC_031320	TO-15	4.5 "Hg	15.3 psi
02A	OC_SVE_MID_GAC_031320	TO-15	3.9 "Hg	15.6 psi
03A	OC_SVE_INF_GAC_031320	TO-15	3.5 "Hg	15.8 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/24/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2003458

Three 1 Liter Summa Canister samples were received on March 17, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_EFF_GAC_031320

Lab ID#: 2003458-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.7	6.7	9.3
Freon 113	1.2	1.7	9.2	13
1,1-Dichloroethene	1.2	2.1	4.8	8.2

Client Sample ID: OC_SVE_MID_GAC_031320

Lab ID#: 2003458-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.6	6.6	8.9
Freon 113	1.2	3.3	9.1	25
1,1-Dichloroethene	1.2	2.3	4.7	9.1
Carbon Disulfide	4.7	8.9	15	28
1,4-Dioxane	4.7	12	17	42

Client Sample ID: OC_SVE_INF_GAC_031320

Lab ID#: 2003458-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.7	6.6	9.3
Freon 113	1.2	4.5	9.0	34
1,1-Dichloroethene	1.2	1.9	4.6	7.7
1,1,1-Trichloroethane	1.2	1.8	6.4	9.8
Trichloroethene	1.2	4.8	6.3	26
Tetrachloroethene	1.2	56	8.0	380
TNMOC ref. to Heptane (MW=100)	24	340	96	1400

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Client Sample ID: OC_SVE_EFF_GAC_031320

Lab ID#: 2003458-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032016**	**Date of Collection:**	**3/13/20 8:56:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**3/20/20 05:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	1.7	6.7	9.3
Freon 113	1.2	1.7	9.2	13
1,1-Dichloroethene	1.2	2.1	4.8	8.2
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	98	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: OC_SVE_MID_GAC_031320

Lab ID#: 2003458-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032007**	**Date of Collection:**	**3/13/20 8:56:00 AM**
Dil. Factor:	**2.37**	**Date of Analysis:**	**3/20/20 12:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Freon 11	1.2	1.6	6.6	8.9
Freon 113	1.2	3.3	9.1	25
1,1-Dichloroethene	1.2	2.3	4.7	9.1
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	8.9	15	28
Methylene Chloride	12	Not Detected	41	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,4-Dioxane	4.7	12	17	42
Toluene	1.2	Not Detected	4.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.0	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	97	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: OC_SVE_INF_GAC_031320

Lab ID#: 2003458-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032006**	**Date of Collection:**	**3/13/20 8:56:00 AM**
Dil. Factor:	**2.35**	**Date of Analysis:**	**3/20/20 12:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Freon 11	1.2	1.7	6.6	9.3
Freon 113	1.2	4.5	9.0	34
1,1-Dichloroethene	1.2	1.9	4.6	7.7
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	1.8	6.4	9.8
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	4.8	6.3	26
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	56	8.0	380
o-Xylene	1.2	Not Detected	5.1	Not Detected
TNMOC ref. to Heptane (MW=100)	24	340	96	1400

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2003458-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032005a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/20 11:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 2003458-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/20 09:56 AM**

Compound	%Recovery
Freon 12	104
Vinyl Chloride	90
Freon 11	116
Freon 113	101
1,1-Dichloroethene	84
2-Propanol	90
Carbon Disulfide	77
Methylene Chloride	97
Hexane	85
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	81
Chloroform	96
1,1,1-Trichloroethane	108
Carbon Tetrachloride	122
Benzene	85
1,2-Dichloroethane	116
Trichloroethene	100
1,4-Dioxane	89
Toluene	88
1,1,2-Trichloroethane	93
Tetrachloroethene	106
o-Xylene	95
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCS

Lab ID#: 2003458-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/20 10:21 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	96	70-130
Vinyl Chloride	86	70-130
Freon 11	109	70-130
Freon 113	97	70-130
1,1-Dichloroethene	82	70-130
2-Propanol	82	70-130
Carbon Disulfide	71	70-130
Methylene Chloride	92	70-130
Hexane	81	70-130
1,1-Dichloroethane	87	70-130
2-Butanone (Methyl Ethyl Ketone)	74	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	101	70-130
Carbon Tetrachloride	110	70-130
Benzene	82	70-130
1,2-Dichloroethane	109	70-130
Trichloroethene	97	70-130
1,4-Dioxane	86	70-130
Toluene	87	70-130
1,1,2-Trichloroethane	88	70-130
Tetrachloroethene	100	70-130
o-Xylene	94	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 2003458-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/20 10:45 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	97	70-130
Vinyl Chloride	84	70-130
Freon 11	108	70-130
Freon 113	97	70-130
1,1-Dichloroethene	82	70-130
2-Propanol	82	70-130
Carbon Disulfide	71	70-130
Methylene Chloride	92	70-130
Hexane	81	70-130
1,1-Dichloroethane	87	70-130
2-Butanone (Methyl Ethyl Ketone)	76	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	100	70-130
Carbon Tetrachloride	109	70-130
Benzene	80	70-130
1,2-Dichloroethane	108	70-130
Trichloroethene	95	70-130
1,4-Dioxane	84	70-130
Toluene	86	70-130
1,1,2-Trichloroethane	88	70-130
Tetrachloroethene	100	70-130
o-Xylene	93	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	105	70-130

2003458

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

AIR CHAIN OF CUSTODY RECORD

DATE: 03/13/20
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - OU1 SVE Monthly GAC Sampling
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS
SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ EDD
SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.3)				
01A	1	OC_SVE_EFF_GAC_031320	SP-EFF-GAC	SV	1L2524	1 L	23673	3/13/2020	0850	-26	3/13/2020	0856	-5	X				
02A	2	OC_SVE_MID_GAC_031320	SP-MID-GAC	SV	1L2851	1 L	23519	3/13/2020	0850	-26	3/13/2020	0856	-5	X				
03A	3	OC_SVE_INF_GAC_031320	SP-INF-GAC	SV	1L2721	1 L	23678	3/13/2020	0851	-28	3/13/2020	0856	-5	X				
	4																	
	5																	
	6																	
	7																	
	8																	
	9																	
	10																	
	11																	
	12																	
	13																	
	14																	
	15																	

FedEx
Custody Seal Intact?
Y N None Temp NA

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	SATC	3/17/20	0956
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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1/23/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - Annual VMP January 2020
Project #:
Workorder #: 2001311

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/16/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2001311

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - Annual VMP January 2020
DATE RECEIVED:	01/16/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/23/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_VMP-94-24_011320	TO-15	4.0 "Hg	15 psi
02A	OC_SVE_VMP-94-60_011320	TO-15	3.5 "Hg	15 psi
03A	OC_SVE_VMP-94-60_011320K	TO-15	4.5 "Hg	15 psi
04A	OC_SVE_VMP-43-24_011320	TO-15	4.0 "Hg	15 psi
05A	OC_SVE_VMP-95-61_011320	TO-15	4.5 "Hg	15 psi
06A	OC_SVE_VMP-24_011320	TO-15	3.5 "Hg	15 psi
07A	OC_SVE_VMP-31-24_011320	TO-15	4.0 "Hg	15 psi
08A	OC_SVE_VMP-31-70_011320	TO-15	14.5 "Hg	15 psi
09A	OC_SVE_VMP-32-24_011320	TO-15	4.5 "Hg	15 psi
10A	OC_SVE_VMP-32-60_011320	TO-15	2.0 "Hg	15 psi
11A	OC_SVE_VMP-20_011320	TO-15	5.0 "Hg	15 psi
12A	OC_SVE_VMP-21_011320	TO-15	6.0 "Hg	15 psi
13A	OC_SVE_VMP-26_011320	TO-15	5.5 "Hg	15 psi
14A	OC_SVE_VMP-27_011320	TO-15	5.0 "Hg	15 psi
15A	OC_SVE_VMP-18_011420	TO-15	2.5 "Hg	15 psi
16A	OC_SVE_VMP-18_011420K	TO-15	2.5 "Hg	15 psi
17A	OC_SVE_VMP-93-60_011420	TO-15	3.5 "Hg	15 psi
18A	OC_SVE_VMP-11_011420	TO-15	3.5 "Hg	15 psi
19A	OC_SVE_VMP-12_011420	TO-15	2.0 "Hg	15 psi
20A	OC_SVE_VMP-15_011420	TO-15	4.0 "Hg	15 psi
21A	OC_SVE_VMP-15_011420K	TO-15	5.5 "Hg	15 psi
22A	OC_SVE_VMP-17_011420	TO-15	4.0 "Hg	15 psi
23A	OC_SVE_VMP-16_011420	TO-15	4.5 "Hg	15 psi

Continued on next page

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WORK ORDER #: 2001311

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - Annual VMP January 2020
DATE RECEIVED:	01/16/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/23/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
24A	OC_SVE_VMP-92-69_011420	TO-15	5.0 "Hg	15 psi
25A	OC_SVE_VMP-22_011420	TO-15	4.5 "Hg	15 psi
26A	OC_SVE_VMP-5_011420	TO-15	5.5 "Hg	15 psi
27A	Lab Blank	TO-15	NA	NA
27B	Lab Blank	TO-15	NA	NA
27C	Lab Blank	TO-15	NA	NA
28A	CCV	TO-15	NA	NA
28B	CCV	TO-15	NA	NA
28C	CCV	TO-15	NA	NA
29A	LCS	TO-15	NA	NA
29AA	LCSD	TO-15	NA	NA
29B	LCS	TO-15	NA	NA
29BB	LCSD	TO-15	NA	NA
29C	LCS	TO-15	NA	NA
29CC	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 01/23/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2001311

Twenty-six 1 Liter Summa Canister samples were received on January 16, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds. Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Dilution was performed on samples OC_SVE_VMP-31-70_011320, OC_SVE_VMP-93-60_011420, OC_SVE_VMP-16_011420, OC_SVE_VMP-92-69_011420, OC_SVE_VMP-22_011420 and OC_SVE_VMP-5_011420 due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-94-24_011320

Lab ID#: 2001311-01A

No Detections Were Found.

Client Sample ID: OC_SVE_VMP-94-60_011320

Lab ID#: 2001311-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	11	14	27	33
2-Butanone (Methyl Ethyl Ketone)	4.6	320	14	940
m,p-Xylene	1.1	2.1	5.0	8.9
1,1-Difluoroethane	4.6	260	12	710
TNMOC ref. to Heptane (MW=100)	23	250	94	1000

Client Sample ID: OC_SVE_VMP-94-60_011320K

Lab ID#: 2001311-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.8	230	14	690
Toluene	1.2	1.4	4.5	5.4
m,p-Xylene	1.2	1.6	5.2	7.1
1,1-Difluoroethane	4.8	350	13	950
TNMOC ref. to Heptane (MW=100)	24	250	97	1000

Client Sample ID: OC_SVE_VMP-43-24_011320

Lab ID#: 2001311-04A

No Detections Were Found.

Client Sample ID: OC_SVE_VMP-95-61_011320

Lab ID#: 2001311-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	7.9	8.1	54
1,1-Difluoroethane	4.8	120	13	320
TNMOC ref. to Heptane (MW=100)	24	190	97	780

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-24_011320

Lab ID#: 2001311-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.1	36	7.8	250

Client Sample ID: OC_SVE_VMP-31-24_011320

Lab ID#: 2001311-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.7	6.0	14	18
Tetrachloroethene	1.2	2.6	7.9	17
1,1-Difluoroethane	4.7	86	12	230

Client Sample ID: OC_SVE_VMP-31-70_011320

Lab ID#: 2001311-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	13	47	73	260
Freon 113	13	1200	100	9600
1,1-Dichloroethene	13	15	52	58
Tetrachloroethene	13	2600	88	17000
TNMOC ref. to Heptane (MW=100)	260	7500	1100	31000

Client Sample ID: OC_SVE_VMP-32-24_011320

Lab ID#: 2001311-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	1.2	2.4	9.1	19
Acetone	12	14	28	32
2-Butanone (Methyl Ethyl Ketone)	4.8	13	14	37
Tetrachloroethene	1.2	300	8.1	2000
1,1-Difluoroethane	4.8	63	13	170
TNMOC ref. to Heptane (MW=100)	24	540	97	2200

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-32-60_011320

Lab ID#: 2001311-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.3	6.3	13	18
Tetrachloroethene	1.1	88	7.3	600
TNMOC ref. to Heptane (MW=100)	22	94	88	380

Client Sample ID: OC_SVE_VMP-20_011320

Lab ID#: 2001311-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.8	8.2	14	24
Tetrachloroethene	1.2	16	8.2	110
1,1-Difluoroethane	4.8	840 E	13	2300 E
TNMOC ref. to Heptane (MW=100)	24	250	99	1000

Client Sample ID: OC_SVE_VMP-21_011320

Lab ID#: 2001311-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	5.0	9.4	15	28
Trichloroethene	1.3	2.4	6.8	13
Tetrachloroethene	1.3	28	8.5	190
1,1-Difluoroethane	5.0	990 E	14	2700 E
TNMOC ref. to Heptane (MW=100)	25	320	100	1300

Client Sample ID: OC_SVE_VMP-26_011320

Lab ID#: 2001311-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.9	5.5	14	16
Tetrachloroethene	1.2	6.3	8.4	43
1,1-Difluoroethane	4.9	76	13	200

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-27_011320

Lab ID#: 2001311-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	120	29	280
2-Butanone (Methyl Ethyl Ketone)	4.8	13	14	38
Tetrachloroethene	1.2	3.8	8.2	26
1,1-Difluoroethane	4.8	990 E	13	2700 E
TNMOC ref. to Heptane (MW=100)	24	290	99	1200

Client Sample ID: OC_SVE_VMP-18_011420

Lab ID#: 2001311-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	1.6	5.9	8.9
Tetrachloroethene	1.1	6.9	7.5	47

Client Sample ID: OC_SVE_VMP-18_011420K

Lab ID#: 2001311-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	11	11	26	27
2-Butanone (Methyl Ethyl Ketone)	4.4	9.8	13	29
Trichloroethene	1.1	1.4	5.9	7.4
Tetrachloroethene	1.1	5.5	7.5	38

Client Sample ID: OC_SVE_VMP-93-60_011420

Lab ID#: 2001311-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	2.3	2.5	18	19
Chloroform	2.3	3.1	11	15
Trichloroethene	2.3	6.6	12	36
Tetrachloroethene	2.3	450	15	3000
1,1-Difluoroethane	9.1	34	25	92
TNMOC ref. to Heptane (MW=100)	46	900	190	3700

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-11_011420

Lab ID#: 2001311-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	4.5	6.2	24
Tetrachloroethene	1.1	93	7.8	630
TNMOC ref. to Heptane (MW=100)	23	210	94	860

Client Sample ID: OC_SVE_VMP-12_011420

Lab ID#: 2001311-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.3	14	13	42
Tetrachloroethene	1.1	6.9	7.3	47
TNMOC ref. to Heptane (MW=100)	22	130	88	530

Client Sample ID: OC_SVE_VMP-15_011420

Lab ID#: 2001311-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.7	12	14	36
Tetrachloroethene	1.2	7.5	7.9	51
1,1-Difluoroethane	4.7	5.5	12	15
TNMOC ref. to Heptane (MW=100)	23	70	95	290

Client Sample ID: OC_SVE_VMP-15_011420K

Lab ID#: 2001311-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	30	29	71
2-Butanone (Methyl Ethyl Ketone)	4.9	38	14	110
Tetrachloroethene	1.2	7.3	8.4	49
1,1-Difluoroethane	4.9	5.5	13	15
TNMOC ref. to Heptane (MW=100)	25	120	100	490

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-17_011420

Lab ID#: 2001311-22A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	17	28	41
2-Butanone (Methyl Ethyl Ketone)	4.7	20	14	59
Tetrachloroethene	1.2	2.4	7.9	16
1,1-Difluoroethane	4.7	23	12	62
TNMOC ref. to Heptane (MW=100)	23	85	95	350

Client Sample ID: OC_SVE_VMP-16_011420

Lab ID#: 2001311-23A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	1200	3200000 E	3200	8600000 E
TNMOC ref. to Heptane (MW=100)	5900	790000	24000	3200000

Client Sample ID: OC_SVE_VMP-92-69_011420

Lab ID#: 2001311-24A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	2.4	59	14	330
Freon 113	2.4	220	18	1700
1,1-Dichloroethene	2.4	200	9.6	770
2-Butanone (Methyl Ethyl Ketone)	9.7	9.8	29	29
Chloroform	2.4	3.0	12	15
Trichloroethene	2.4	29	13	160
Tetrachloroethene	2.4	480	16	3200
1,1-Difluoroethane	9.7	1100 E	26	3000 E
TNMOC ref. to Heptane (MW=100)	48	2000	200	8200

Client Sample ID: OC_SVE_VMP-22_011420

Lab ID#: 2001311-25A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	4.8	10	32	70

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-22_011420

Lab ID#: 2001311-25A

1,1-Difluoroethane	19	99000 E	51	270000 E
TNMOC ref. to Heptane (MW=100)	95	28000	390	110000

Client Sample ID: OC_SVE_VMP-5_011420

Lab ID#: 2001311-26A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	12	57	49	220
Acetone	49	3500	120	8200
trans-1,2-Dichloroethene	12	13	49	51
Hexane	12	52	44	180
2-Butanone (Methyl Ethyl Ketone)	49	6400 E	140	19000 E
Benzene	12	13	39	41
Trichloroethene	12	76	66	410
Tetrachloroethene	12	450	84	3000
1,1-Difluoroethane	49	400	130	1100
TNMOC ref. to Heptane (MW=100)	250	26000	1000	110000

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Client Sample ID: OC_SVE_VMP-94-24_011320

Lab ID#: 2001311-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011707**	**Date of Collection:**	**1/13/20 7:25:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/17/20 02:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-94-24_011320

Lab ID#: 2001311-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011707**	**Date of Collection:**	**1/13/20 7:25:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/17/20 02:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	Not Detected	95	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: OC_SVE_VMP-94-60_011320

Lab ID#: 2001311-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011708**	**Date of Collection:**	**1/13/20 7:40:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/17/20 02:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	14	27	33
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	320	14	940
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	2.1	5.0	8.9
o-Xylene	1.1	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-94-60_011320

Lab ID#: 2001311-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011708**	**Date of Collection:**	**1/13/20 7:40:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/17/20 02:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
1,1-Difluoroethane	4.6	260	12	710
Vinyl Acetate	4.6	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	250	94	1000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: OC_SVE_VMP-94-60_011320K

Lab ID#: 2001311-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011709**	**Date of Collection:**	**1/13/20 7:40:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/17/20 03:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	230	14	690
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	1.4	4.5	5.4
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	1.6	5.2	7.1
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-94-60_011320K

Lab ID#: 2001311-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011709**	**Date of Collection:**	**1/13/20 7:40:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/17/20 03:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	350	13	950
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	250	97	1000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: OC_SVE_VMP-43-24_011320

Lab ID#: 2001311-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011710**	**Date of Collection:**	**1/13/20 8:10:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/17/20 03:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-43-24_011320

Lab ID#: 2001311-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011710**	**Date of Collection:**	**1/13/20 8:10:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/17/20 03:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	Not Detected	95	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: OC_SVE_VMP-95-61_011320

Lab ID#: 2001311-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011711**	**Date of Collection:**	**1/13/20 8:19:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/17/20 03:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	7.9	8.1	54
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-95-61_011320

Lab ID#: 2001311-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011711**	**Date of Collection:**	**1/13/20 8:19:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/17/20 03:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	120	13	320
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	190	97	780

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: OC_SVE_VMP-24_011320

Lab ID#: 2001311-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011712**	**Date of Collection:**	**1/13/20 8:58:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/17/20 04:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	36	7.8	250
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-24_011320

Lab ID#: 2001311-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011712**	**Date of Collection:**	**1/13/20 8:58:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/17/20 04:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	Not Detected	94	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: OC_SVE_VMP-31-24_011320

Lab ID#: 2001311-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011713**	**Date of Collection:**	**1/13/20 9:29:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/17/20 04:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	6.0	14	18
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	2.6	7.9	17
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-31-24_011320

Lab ID#: 2001311-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011713**	**Date of Collection:**	**1/13/20 9:29:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/17/20 04:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	86	12	230
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	Not Detected	95	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: OC_SVE_VMP-31-70_011320

Lab ID#: 2001311-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011718**	**Date of Collection:**	**1/13/20 9:49:00 AM**
Dil. Factor:	**26.1**	**Date of Analysis:**	**1/17/20 07:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	64	Not Detected
Freon 114	13	Not Detected	91	Not Detected
Chloromethane	130	Not Detected	270	Not Detected
Vinyl Chloride	13	Not Detected	33	Not Detected
Bromomethane	130	Not Detected	510	Not Detected
Chloroethane	52	Not Detected	140	Not Detected
Freon 11	13	47	73	260
Freon 113	13	1200	100	9600
1,1-Dichloroethene	13	15	52	58
Acetone	130	Not Detected	310	Not Detected
2-Propanol	52	Not Detected	130	Not Detected
Carbon Disulfide	52	Not Detected	160	Not Detected
3-Chloropropene	52	Not Detected	160	Not Detected
Methylene Chloride	130	Not Detected	450	Not Detected
Methyl tert-butyl ether	52	Not Detected	190	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Hexane	13	Not Detected	46	Not Detected
1,1-Dichloroethane	13	Not Detected	53	Not Detected
2-Butanone (Methyl Ethyl Ketone)	52	Not Detected	150	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Chloroform	13	Not Detected	64	Not Detected
1,1,1-Trichloroethane	13	Not Detected	71	Not Detected
Carbon Tetrachloride	13	Not Detected	82	Not Detected
Benzene	13	Not Detected	42	Not Detected
1,2-Dichloroethane	13	Not Detected	53	Not Detected
Trichloroethene	13	Not Detected	70	Not Detected
1,2-Dichloropropane	13	Not Detected	60	Not Detected
1,4-Dioxane	52	Not Detected	190	Not Detected
Bromodichloromethane	13	Not Detected	87	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	59	Not Detected
4-Methyl-2-pentanone	13	Not Detected	53	Not Detected
Toluene	13	Not Detected	49	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	59	Not Detected
1,1,2-Trichloroethane	13	Not Detected	71	Not Detected
Tetrachloroethene	13	2600	88	17000
2-Hexanone	52	Not Detected	210	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	60	Not Detected
Ethyl Benzene	13	Not Detected	57	Not Detected
m,p-Xylene	13	Not Detected	57	Not Detected
o-Xylene	13	Not Detected	57	Not Detected

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Client Sample ID: OC_SVE_VMP-31-70_011320

Lab ID#: 2001311-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011718**	**Date of Collection:**	**1/13/20 9:49:00 AM**
Dil. Factor:	**26.1**	**Date of Analysis:**	**1/17/20 07:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	13	Not Detected	56	Not Detected
Bromoform	13	Not Detected	130	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	90	Not Detected
4-Ethyltoluene	13	Not Detected	64	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	64	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	64	Not Detected
1,3-Dichlorobenzene	13	Not Detected	78	Not Detected
1,4-Dichlorobenzene	13	Not Detected	78	Not Detected
alpha-Chlorotoluene	13	Not Detected	68	Not Detected
1,2-Dichlorobenzene	13	Not Detected	78	Not Detected
1,2,4-Trichlorobenzene	52	Not Detected	390	Not Detected
Hexachlorobutadiene	52	Not Detected	560	Not Detected
1,1-Difluoroethane	52	Not Detected	140	Not Detected
Vinyl Acetate	52	Not Detected	180	Not Detected
TNMOC ref. to Heptane (MW=100)	260	7500	1100	31000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: OC_SVE_VMP-32-24_011320

Lab ID#: 2001311-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011719**	**Date of Collection:**	**1/13/20 10:05:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/17/20 07:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	2.4	9.1	19
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	14	28	32
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	13	14	37
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	300	8.1	2000
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

eurofins | Air Toxics

Client Sample ID: OC_SVE_VMP-32-24_011320

Lab ID#: 2001311-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011719**	**Date of Collection:**	**1/13/20 10:05:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/17/20 07:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	63	13	170
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	540	97	2200

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: OC_SVE_VMP-32-60_011320

Lab ID#: 2001311-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011720**	**Date of Collection:**	**1/13/20 10:16:00 AM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**1/17/20 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	Not Detected	26	Not Detected
2-Propanol	4.3	Not Detected	11	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	6.3	13	18
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	88	7.3	600
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected

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Client Sample ID: OC_SVE_VMP-32-60_011320

Lab ID#: 2001311-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011720**	**Date of Collection:**	**1/13/20 10:16:00 AM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**1/17/20 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
1,1-Difluoroethane	4.3	Not Detected	12	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
TNMOC ref. to Heptane (MW=100)	22	94	88	380

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: OC_SVE_VMP-20_011320

Lab ID#: 2001311-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011721**	**Date of Collection:**	**1/13/20 11:46:00 AM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**1/17/20 10:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	8.2	14	24
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	16	8.2	110
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

eurofins | Air Toxics

Client Sample ID: OC_SVE_VMP-20_011320

Lab ID#: 2001311-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011721**	**Date of Collection:**	**1/13/20 11:46:00 AM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**1/17/20 10:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
1,1-Difluoroethane	4.8	840 E	13	2300 E
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	250	99	1000

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: OC_SVE_VMP-21_011320

Lab ID#: 2001311-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011722**	**Date of Collection:**	**1/13/20 12:10:00 PM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**1/17/20 10:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	Not Detected	30	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	9.4	15	28
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Trichloroethene	1.3	2.4	6.8	13
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.7	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	28	8.5	190
2-Hexanone	5.0	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected

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Client Sample ID: OC_SVE_VMP-21_011320

Lab ID#: 2001311-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011722**	**Date of Collection:**	**1/13/20 12:10:00 PM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**1/17/20 10:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
1,1-Difluoroethane	5.0	990 E	14	2700 E
Vinyl Acetate	5.0	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	25	320	100	1300

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: OC_SVE_VMP-26_011320

Lab ID#: 2001311-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011723**	**Date of Collection:**	**1/13/20 12:27:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/17/20 11:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	5.5	14	16
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	6.3	8.4	43
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected

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Client Sample ID: OC_SVE_VMP-26_011320

Lab ID#: 2001311-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011723**	**Date of Collection:**	**1/13/20 12:27:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/17/20 11:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected
1,1-Difluoroethane	4.9	76	13	200
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	25	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: OC_SVE_VMP-27_011320

Lab ID#: 2001311-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011724**	**Date of Collection:**	**1/13/20 12:53:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**1/17/20 11:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	120	29	280
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	13	14	38
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	3.8	8.2	26
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-27_011320

Lab ID#: 2001311-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011724**	**Date of Collection:**	**1/13/20 12:53:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**1/17/20 11:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
1,1-Difluoroethane	4.8	990 E	13	2700 E
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	290	99	1200

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: OC_SVE_VMP-18_011420

Lab ID#: 2001311-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011725**	**Date of Collection:**	**1/14/20 7:27:00 AM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/17/20 11:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	26	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	1.6	5.9	8.9
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	6.9	7.5	47
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected

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Client Sample ID: OC_SVE_VMP-18_011420

Lab ID#: 2001311-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011725**	**Date of Collection:**	**1/14/20 7:27:00 AM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/17/20 11:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
1,1-Difluoroethane	4.4	Not Detected	12	Not Detected
Vinyl Acetate	4.4	Not Detected	15	Not Detected
TNMOC ref. to Heptane (MW=100)	22	Not Detected	90	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: OC_SVE_VMP-18_011420K

Lab ID#: 2001311-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011726**	**Date of Collection:**	**1/14/20 7:28:00 AM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/18/20 12:24 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	11	26	27
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	9.8	13	29
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	1.4	5.9	7.4
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	5.5	7.5	38
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected

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Client Sample ID: OC_SVE_VMP-18_011420K

Lab ID#: 2001311-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011726**	**Date of Collection:**	**1/14/20 7:28:00 AM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**1/18/20 12:24 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
1,1-Difluoroethane	4.4	Not Detected	12	Not Detected
Vinyl Acetate	4.4	Not Detected	15	Not Detected
TNMOC ref. to Heptane (MW=100)	22	Not Detected	90	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: OC_SVE_VMP-93-60_011420

Lab ID#: 2001311-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012008**	**Date of Collection:**	**1/14/20 8:35:00 AM**
Dil. Factor:	**4.57**	**Date of Analysis:**	**1/20/20 03:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.3	Not Detected	11	Not Detected
Freon 114	2.3	Not Detected	16	Not Detected
Chloromethane	23	Not Detected	47	Not Detected
Vinyl Chloride	2.3	Not Detected	5.8	Not Detected
Bromomethane	23	Not Detected	89	Not Detected
Chloroethane	9.1	Not Detected	24	Not Detected
Freon 11	2.3	Not Detected	13	Not Detected
Freon 113	2.3	2.5	18	19
1,1-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Acetone	23	Not Detected	54	Not Detected
2-Propanol	9.1	Not Detected	22	Not Detected
Carbon Disulfide	9.1	Not Detected	28	Not Detected
3-Chloropropene	9.1	Not Detected	29	Not Detected
Methylene Chloride	23	Not Detected	79	Not Detected
Methyl tert-butyl ether	9.1	Not Detected	33	Not Detected
trans-1,2-Dichloroethene	2.3	Not Detected	9.0	Not Detected
Hexane	2.3	Not Detected	8.0	Not Detected
1,1-Dichloroethane	2.3	Not Detected	9.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.1	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	2.3	Not Detected	9.0	Not Detected
Chloroform	2.3	3.1	11	15
1,1,1-Trichloroethane	2.3	Not Detected	12	Not Detected
Carbon Tetrachloride	2.3	Not Detected	14	Not Detected
Benzene	2.3	Not Detected	7.3	Not Detected
1,2-Dichloroethane	2.3	Not Detected	9.2	Not Detected
Trichloroethene	2.3	6.6	12	36
1,2-Dichloropropane	2.3	Not Detected	10	Not Detected
1,4-Dioxane	9.1	Not Detected	33	Not Detected
Bromodichloromethane	2.3	Not Detected	15	Not Detected
cis-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
4-Methyl-2-pentanone	2.3	Not Detected	9.4	Not Detected
Toluene	2.3	Not Detected	8.6	Not Detected
trans-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
1,1,2-Trichloroethane	2.3	Not Detected	12	Not Detected
Tetrachloroethene	2.3	450	15	3000
2-Hexanone	9.1	Not Detected	37	Not Detected
Dibromochloromethane	2.3	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	2.3	Not Detected	18	Not Detected
Chlorobenzene	2.3	Not Detected	10	Not Detected
Ethyl Benzene	2.3	Not Detected	9.9	Not Detected
m,p-Xylene	2.3	Not Detected	9.9	Not Detected
o-Xylene	2.3	Not Detected	9.9	Not Detected

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Client Sample ID: OC_SVE_VMP-93-60_011420

Lab ID#: 2001311-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012008**	**Date of Collection:**	**1/14/20 8:35:00 AM**
Dil. Factor:	**4.57**	**Date of Analysis:**	**1/20/20 03:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	2.3	Not Detected	9.7	Not Detected
Bromoform	2.3	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	2.3	Not Detected	16	Not Detected
4-Ethyltoluene	2.3	Not Detected	11	Not Detected
1,3,5-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,2,4-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,3-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,4-Dichlorobenzene	2.3	Not Detected	14	Not Detected
alpha-Chlorotoluene	2.3	Not Detected	12	Not Detected
1,2-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,2,4-Trichlorobenzene	9.1	Not Detected	68	Not Detected
Hexachlorobutadiene	9.1	Not Detected	97	Not Detected
1,1-Difluoroethane	9.1	34	25	92
Vinyl Acetate	9.1	Not Detected	32	Not Detected
TNMOC ref. to Heptane (MW=100)	46	900	190	3700

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: OC_SVE_VMP-11_011420

Lab ID#: 2001311-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012009**	**Date of Collection:**	**1/14/20 9:05:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/20/20 03:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	4.5	6.2	24
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	93	7.8	630
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-11_011420

Lab ID#: 2001311-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012009**	**Date of Collection:**	**1/14/20 9:05:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/20/20 03:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	210	94	860

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: OC_SVE_VMP-12_011420

Lab ID#: 2001311-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012010**	**Date of Collection:**	**1/14/20 9:44:00 AM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**1/20/20 04:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	Not Detected	26	Not Detected
2-Propanol	4.3	Not Detected	11	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	14	13	42
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	6.9	7.3	47
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected

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Client Sample ID: OC_SVE_VMP-12_011420

Lab ID#: 2001311-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012010**	**Date of Collection:**	**1/14/20 9:44:00 AM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**1/20/20 04:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
1,1-Difluoroethane	4.3	Not Detected	12	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
TNMOC ref. to Heptane (MW=100)	22	130	88	530

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: OC_SVE_VMP-15_011420

Lab ID#: 2001311-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012018**	**Date of Collection:**	**1/14/20 10:09:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/20/20 07:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	12	14	36
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	7.5	7.9	51
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-15_011420

Lab ID#: 2001311-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012018**	**Date of Collection:**	**1/14/20 10:09:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/20/20 07:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	5.5	12	15
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	70	95	290

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: OC_SVE_VMP-15_011420K

Lab ID#: 2001311-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012011**	**Date of Collection:**	**1/14/20 10:09:00 AM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/20/20 04:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	30	29	71
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	38	14	110
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	7.3	8.4	49
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected

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Client Sample ID: OC_SVE_VMP-15_011420K

Lab ID#: 2001311-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012011**	**Date of Collection:**	**1/14/20 10:09:00 AM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/20/20 04:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected
1,1-Difluoroethane	4.9	5.5	13	15
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	25	120	100	490

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: OC_SVE_VMP-17_011420

Lab ID#: 2001311-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012012**	**Date of Collection:**	**1/14/20 10:31:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/20/20 05:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	17	28	41
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	20	14	59
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	2.4	7.9	16
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-17_011420

Lab ID#: 2001311-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012012**	**Date of Collection:**	**1/14/20 10:31:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/20/20 05:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	23	12	62
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	85	95	350

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: OC_SVE_VMP-16_011420

Lab ID#: 2001311-23A

EPA METHOD TO-15 GC/MS

File Name:	**14012109**	**Date of Collection:**	**1/14/20 10:51:00 AM**
Dil. Factor:	**59.4**	**Date of Analysis:**	**1/21/20 02:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	300	Not Detected	1500	Not Detected
Freon 114	300	Not Detected	2100	Not Detected
Chloromethane	1200	Not Detected	2400	Not Detected
Vinyl Chloride	300	Not Detected	760	Not Detected
Bromomethane	1200	Not Detected	4600	Not Detected
Chloroethane	1200	Not Detected	3100	Not Detected
Freon 11	300	Not Detected	1700	Not Detected
Freon 113	300	Not Detected	2300	Not Detected
1,1-Dichloroethene	300	Not Detected	1200	Not Detected
Acetone	1200	Not Detected	2800	Not Detected
2-Propanol	1200	Not Detected	2900	Not Detected
Carbon Disulfide	1200	Not Detected	3700	Not Detected
3-Chloropropene	1200	Not Detected	3700	Not Detected
Methylene Chloride	1200	Not Detected	4100	Not Detected
Methyl tert-butyl ether	300	Not Detected	1100	Not Detected
trans-1,2-Dichloroethene	300	Not Detected	1200	Not Detected
Hexane	300	Not Detected	1000	Not Detected
1,1-Dichloroethane	300	Not Detected	1200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1200	Not Detected	3500	Not Detected
cis-1,2-Dichloroethene	300	Not Detected	1200	Not Detected
Chloroform	300	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	300	Not Detected	1600	Not Detected
Carbon Tetrachloride	300	Not Detected	1900	Not Detected
Benzene	300	Not Detected	950	Not Detected
1,2-Dichloroethane	300	Not Detected	1200	Not Detected
Trichloroethene	300	Not Detected	1600	Not Detected
1,2-Dichloropropane	300	Not Detected	1400	Not Detected
1,4-Dioxane	1200	Not Detected	4300	Not Detected
Bromodichloromethane	300	Not Detected	2000	Not Detected
cis-1,3-Dichloropropene	300	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	300	Not Detected	1200	Not Detected
Toluene	300	Not Detected	1100	Not Detected
trans-1,3-Dichloropropene	300	Not Detected	1300	Not Detected
1,1,2-Trichloroethane	300	Not Detected	1600	Not Detected
Tetrachloroethene	300	Not Detected	2000	Not Detected
2-Hexanone	1200	Not Detected	4900	Not Detected
Dibromochloromethane	300	Not Detected	2500	Not Detected
1,2-Dibromoethane (EDB)	300	Not Detected	2300	Not Detected
Chlorobenzene	300	Not Detected	1400	Not Detected
Ethyl Benzene	300	Not Detected	1300	Not Detected
m,p-Xylene	300	Not Detected	1300	Not Detected
o-Xylene	300	Not Detected	1300	Not Detected

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Client Sample ID: OC_SVE_VMP-16_011420

Lab ID#: 2001311-23A

EPA METHOD TO-15 GC/MS

File Name:	**14012109**	**Date of Collection:**	**1/14/20 10:51:00 AM**
Dil. Factor:	**59.4**	**Date of Analysis:**	**1/21/20 02:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	300	Not Detected	1300	Not Detected
Bromoform	300	Not Detected	3100	Not Detected
1,1,2,2-Tetrachloroethane	300	Not Detected	2000	Not Detected
4-Ethyltoluene	300	Not Detected	1500	Not Detected
1,3,5-Trimethylbenzene	300	Not Detected	1500	Not Detected
1,2,4-Trimethylbenzene	300	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,4-Dichlorobenzene	300	Not Detected	1800	Not Detected
alpha-Chlorotoluene	300	Not Detected	1500	Not Detected
1,2-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,2,4-Trichlorobenzene	1200	Not Detected	8800	Not Detected
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected
1,1-Difluoroethane	1200	3200000 E	3200	8600000 E
TNMOC ref. to Heptane (MW=100)	5900	790000	24000	3200000
Vinyl Acetate	1200	Not Detected	4200	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: OC_SVE_VMP-92-69_011420

Lab ID#: 2001311-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012013**	**Date of Collection:**	**1/14/20 11:14:00 AM**
Dil. Factor:	**4.85**	**Date of Analysis:**	**1/20/20 05:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.4	Not Detected	12	Not Detected
Freon 114	2.4	Not Detected	17	Not Detected
Chloromethane	24	Not Detected	50	Not Detected
Vinyl Chloride	2.4	Not Detected	6.2	Not Detected
Bromomethane	24	Not Detected	94	Not Detected
Chloroethane	9.7	Not Detected	26	Not Detected
Freon 11	2.4	59	14	330
Freon 113	2.4	220	18	1700
1,1-Dichloroethene	2.4	200	9.6	770
Acetone	24	Not Detected	58	Not Detected
2-Propanol	9.7	Not Detected	24	Not Detected
Carbon Disulfide	9.7	Not Detected	30	Not Detected
3-Chloropropene	9.7	Not Detected	30	Not Detected
Methylene Chloride	24	Not Detected	84	Not Detected
Methyl tert-butyl ether	9.7	Not Detected	35	Not Detected
trans-1,2-Dichloroethene	2.4	Not Detected	9.6	Not Detected
Hexane	2.4	Not Detected	8.5	Not Detected
1,1-Dichloroethane	2.4	Not Detected	9.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.7	9.8	29	29
cis-1,2-Dichloroethene	2.4	Not Detected	9.6	Not Detected
Chloroform	2.4	3.0	12	15
1,1,1-Trichloroethane	2.4	Not Detected	13	Not Detected
Carbon Tetrachloride	2.4	Not Detected	15	Not Detected
Benzene	2.4	Not Detected	7.7	Not Detected
1,2-Dichloroethane	2.4	Not Detected	9.8	Not Detected
Trichloroethene	2.4	29	13	160
1,2-Dichloropropane	2.4	Not Detected	11	Not Detected
1,4-Dioxane	9.7	Not Detected	35	Not Detected
Bromodichloromethane	2.4	Not Detected	16	Not Detected
cis-1,3-Dichloropropene	2.4	Not Detected	11	Not Detected
4-Methyl-2-pentanone	2.4	Not Detected	9.9	Not Detected
Toluene	2.4	Not Detected	9.1	Not Detected
trans-1,3-Dichloropropene	2.4	Not Detected	11	Not Detected
1,1,2-Trichloroethane	2.4	Not Detected	13	Not Detected
Tetrachloroethene	2.4	480	16	3200
2-Hexanone	9.7	Not Detected	40	Not Detected
Dibromochloromethane	2.4	Not Detected	21	Not Detected
1,2-Dibromoethane (EDB)	2.4	Not Detected	19	Not Detected
Chlorobenzene	2.4	Not Detected	11	Not Detected
Ethyl Benzene	2.4	Not Detected	10	Not Detected
m,p-Xylene	2.4	Not Detected	10	Not Detected
o-Xylene	2.4	Not Detected	10	Not Detected

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Client Sample ID: OC_SVE_VMP-92-69_011420

Lab ID#: 2001311-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012013**	**Date of Collection:**	**1/14/20 11:14:00 AM**
Dil. Factor:	**4.85**	**Date of Analysis:**	**1/20/20 05:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	2.4	Not Detected	10	Not Detected
Bromoform	2.4	Not Detected	25	Not Detected
1,1,2,2-Tetrachloroethane	2.4	Not Detected	17	Not Detected
4-Ethyltoluene	2.4	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	2.4	Not Detected	12	Not Detected
1,2,4-Trimethylbenzene	2.4	Not Detected	12	Not Detected
1,3-Dichlorobenzene	2.4	Not Detected	14	Not Detected
1,4-Dichlorobenzene	2.4	Not Detected	14	Not Detected
alpha-Chlorotoluene	2.4	Not Detected	12	Not Detected
1,2-Dichlorobenzene	2.4	Not Detected	14	Not Detected
1,2,4-Trichlorobenzene	9.7	Not Detected	72	Not Detected
Hexachlorobutadiene	9.7	Not Detected	100	Not Detected
1,1-Difluoroethane	9.7	1100 E	26	3000 E
Vinyl Acetate	9.7	Not Detected	34	Not Detected
TNMOC ref. to Heptane (MW=100)	48	2000	200	8200

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: OC_SVE_VMP-22_011420

Lab ID#: 2001311-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012014**	**Date of Collection:**	**1/14/20 12:29:00 PM**
Dil. Factor:	**9.51**	**Date of Analysis:**	**1/20/20 05:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.8	Not Detected	24	Not Detected
Freon 114	4.8	Not Detected	33	Not Detected
Chloromethane	48	Not Detected	98	Not Detected
Vinyl Chloride	4.8	Not Detected	12	Not Detected
Bromomethane	48	Not Detected	180	Not Detected
Chloroethane	19	Not Detected	50	Not Detected
Freon 11	4.8	Not Detected	27	Not Detected
Freon 113	4.8	Not Detected	36	Not Detected
1,1-Dichloroethene	4.8	Not Detected	19	Not Detected
Acetone	48	Not Detected	110	Not Detected
2-Propanol	19	Not Detected	47	Not Detected
Carbon Disulfide	19	Not Detected	59	Not Detected
3-Chloropropene	19	Not Detected	60	Not Detected
Methylene Chloride	48	Not Detected	160	Not Detected
Methyl tert-butyl ether	19	Not Detected	68	Not Detected
trans-1,2-Dichloroethene	4.8	Not Detected	19	Not Detected
Hexane	4.8	Not Detected	17	Not Detected
1,1-Dichloroethane	4.8	Not Detected	19	Not Detected
2-Butanone (Methyl Ethyl Ketone)	19	Not Detected	56	Not Detected
cis-1,2-Dichloroethene	4.8	Not Detected	19	Not Detected
Chloroform	4.8	Not Detected	23	Not Detected
1,1,1-Trichloroethane	4.8	Not Detected	26	Not Detected
Carbon Tetrachloride	4.8	Not Detected	30	Not Detected
Benzene	4.8	Not Detected	15	Not Detected
1,2-Dichloroethane	4.8	Not Detected	19	Not Detected
Trichloroethene	4.8	Not Detected	26	Not Detected
1,2-Dichloropropane	4.8	Not Detected	22	Not Detected
1,4-Dioxane	19	Not Detected	68	Not Detected
Bromodichloromethane	4.8	Not Detected	32	Not Detected
cis-1,3-Dichloropropene	4.8	Not Detected	22	Not Detected
4-Methyl-2-pentanone	4.8	Not Detected	19	Not Detected
Toluene	4.8	Not Detected	18	Not Detected
trans-1,3-Dichloropropene	4.8	Not Detected	22	Not Detected
1,1,2-Trichloroethane	4.8	Not Detected	26	Not Detected
Tetrachloroethene	4.8	10	32	70
2-Hexanone	19	Not Detected	78	Not Detected
Dibromochloromethane	4.8	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	4.8	Not Detected	36	Not Detected
Chlorobenzene	4.8	Not Detected	22	Not Detected
Ethyl Benzene	4.8	Not Detected	21	Not Detected
m,p-Xylene	4.8	Not Detected	21	Not Detected
o-Xylene	4.8	Not Detected	21	Not Detected

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Client Sample ID: OC_SVE_VMP-22_011420

Lab ID#: 2001311-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012014**	**Date of Collection:**	**1/14/20 12:29:00 PM**
Dil. Factor:	**9.51**	**Date of Analysis:**	**1/20/20 05:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	4.8	Not Detected	20	Not Detected
Bromoform	4.8	Not Detected	49	Not Detected
1,1,2,2-Tetrachloroethane	4.8	Not Detected	33	Not Detected
4-Ethyltoluene	4.8	Not Detected	23	Not Detected
1,3,5-Trimethylbenzene	4.8	Not Detected	23	Not Detected
1,2,4-Trimethylbenzene	4.8	Not Detected	23	Not Detected
1,3-Dichlorobenzene	4.8	Not Detected	28	Not Detected
1,4-Dichlorobenzene	4.8	Not Detected	28	Not Detected
alpha-Chlorotoluene	4.8	Not Detected	25	Not Detected
1,2-Dichlorobenzene	4.8	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	19	Not Detected	140	Not Detected
Hexachlorobutadiene	19	Not Detected	200	Not Detected
1,1-Difluoroethane	19	99000 E	51	270000 E
Vinyl Acetate	19	Not Detected	67	Not Detected
TNMOC ref. to Heptane (MW=100)	95	28000	390	110000

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: OC_SVE_VMP-5_011420

Lab ID#: 2001311-26A

EPA METHOD TO-15 GC/MS

File Name:	**14012107**	**Date of Collection:**	**1/14/20 12:40:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/21/20 12:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12	Not Detected	61	Not Detected
Freon 114	12	Not Detected	86	Not Detected
Chloromethane	49	Not Detected	100	Not Detected
Vinyl Chloride	12	Not Detected	32	Not Detected
Bromomethane	49	Not Detected	190	Not Detected
Chloroethane	49	Not Detected	130	Not Detected
Freon 11	12	Not Detected	69	Not Detected
Freon 113	12	Not Detected	95	Not Detected
1,1-Dichloroethene	12	57	49	220
Acetone	49	3500	120	8200
2-Propanol	49	Not Detected	120	Not Detected
Carbon Disulfide	49	Not Detected	150	Not Detected
3-Chloropropene	49	Not Detected	150	Not Detected
Methylene Chloride	49	Not Detected	170	Not Detected
Methyl tert-butyl ether	12	Not Detected	44	Not Detected
trans-1,2-Dichloroethene	12	13	49	51
Hexane	12	52	44	180
1,1-Dichloroethane	12	Not Detected	50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	49	6400 E	140	19000 E
cis-1,2-Dichloroethene	12	Not Detected	49	Not Detected
Chloroform	12	Not Detected	60	Not Detected
1,1,1-Trichloroethane	12	Not Detected	67	Not Detected
Carbon Tetrachloride	12	Not Detected	78	Not Detected
Benzene	12	13	39	41
1,2-Dichloroethane	12	Not Detected	50	Not Detected
Trichloroethene	12	76	66	410
1,2-Dichloropropane	12	Not Detected	57	Not Detected
1,4-Dioxane	49	Not Detected	180	Not Detected
Bromodichloromethane	12	Not Detected	83	Not Detected
cis-1,3-Dichloropropene	12	Not Detected	56	Not Detected
4-Methyl-2-pentanone	12	Not Detected	50	Not Detected
Toluene	12	Not Detected	46	Not Detected
trans-1,3-Dichloropropene	12	Not Detected	56	Not Detected
1,1,2-Trichloroethane	12	Not Detected	67	Not Detected
Tetrachloroethene	12	450	84	3000
2-Hexanone	49	Not Detected	200	Not Detected
Dibromochloromethane	12	Not Detected	100	Not Detected
1,2-Dibromoethane (EDB)	12	Not Detected	95	Not Detected
Chlorobenzene	12	Not Detected	57	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected

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Client Sample ID: OC_SVE_VMP-5_011420

Lab ID#: 2001311-26A

EPA METHOD TO-15 GC/MS

File Name:	**14012107**	**Date of Collection:**	**1/14/20 12:40:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/21/20 12:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	12	Not Detected	53	Not Detected
Bromoform	12	Not Detected	130	Not Detected
1,1,2,2-Tetrachloroethane	12	Not Detected	85	Not Detected
4-Ethyltoluene	12	Not Detected	61	Not Detected
1,3,5-Trimethylbenzene	12	Not Detected	61	Not Detected
1,2,4-Trimethylbenzene	12	Not Detected	61	Not Detected
1,3-Dichlorobenzene	12	Not Detected	74	Not Detected
1,4-Dichlorobenzene	12	Not Detected	74	Not Detected
alpha-Chlorotoluene	12	Not Detected	64	Not Detected
1,2-Dichlorobenzene	12	Not Detected	74	Not Detected
1,2,4-Trichlorobenzene	49	Not Detected	370	Not Detected
Hexachlorobutadiene	49	Not Detected	530	Not Detected
1,1-Difluoroethane	49	400	130	1100
TNMOC ref. to Heptane (MW=100)	250	26000	1000	110000
Vinyl Acetate	49	Not Detected	170	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001311-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011706a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 12:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2001311-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011706a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 12:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001311-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012007a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 01:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2001311-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012007a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 01:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2001311-27C

EPA METHOD TO-15 GC/MS

File Name:	**14012106a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 11:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2001311-27C

EPA METHOD TO-15 GC/MS

File Name:	**14012106a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 11:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
1,1-Difluoroethane	20	Not Detected	54	Not Detected
TNMOC ref. to Heptane (MW=100)	100	Not Detected	410	Not Detected
Vinyl Acetate	20	Not Detected	70	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 2001311-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011702**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 10:08 AM**

Compound	%Recovery
Freon 12	96
Freon 114	99
Chloromethane	92
Vinyl Chloride	95
Bromomethane	105
Chloroethane	96
Freon 11	99
Freon 113	98
1,1-Dichloroethene	103
Acetone	96
2-Propanol	94
Carbon Disulfide	96
3-Chloropropene	99
Methylene Chloride	95
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	101
Hexane	93
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	103
Chloroform	101
1,1,1-Trichloroethane	99
Carbon Tetrachloride	100
Benzene	96
1,2-Dichloroethane	100
Trichloroethene	99
1,2-Dichloropropane	96
1,4-Dioxane	97
Bromodichloromethane	99
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	93
Toluene	95
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	100
Tetrachloroethene	98
2-Hexanone	94
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	101
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	100
o-Xylene	99

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Client Sample ID: CCV

Lab ID#: 2001311-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 10:08 AM**	

Compound	**%Recovery**
Styrene	100
Bromoform	106
1,1,2,2-Tetrachloroethane	100
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	92
1,1-Difluoroethane	84
Vinyl Acetate	98
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 2001311-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 09:54 AM**

Compound	%Recovery
Freon 12	98
Freon 114	98
Chloromethane	90
Vinyl Chloride	95
Bromomethane	102
Chloroethane	94
Freon 11	97
Freon 113	96
1,1-Dichloroethene	104
Acetone	97
2-Propanol	92
Carbon Disulfide	94
3-Chloropropene	97
Methylene Chloride	94
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	100
Hexane	93
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	102
Chloroform	98
1,1,1-Trichloroethane	98
Carbon Tetrachloride	100
Benzene	95
1,2-Dichloroethane	97
Trichloroethene	98
1,2-Dichloropropane	95
1,4-Dioxane	95
Bromodichloromethane	99
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	90
Toluene	95
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	98
Tetrachloroethene	98
2-Hexanone	90
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	100
Chlorobenzene	99
Ethyl Benzene	101
m,p-Xylene	99
o-Xylene	98

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Client Sample ID: CCV

Lab ID#: 2001311-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 09:54 AM**	

Compound	**%Recovery**
Styrene	98
Bromoform	110
1,1,2,2-Tetrachloroethane	99
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	92
1,1-Difluoroethane	87
Vinyl Acetate	100
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 2001311-28C

EPA METHOD TO-15 GC/MS

File Name:	**14012102**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 10:08 AM**

Compound	%Recovery
Freon 12	102
Freon 114	100
Chloromethane	104
Vinyl Chloride	98
Bromomethane	97
Chloroethane	93
Freon 11	115
Freon 113	105
1,1-Dichloroethene	109
Acetone	106
2-Propanol	104
Carbon Disulfide	99
3-Chloropropene	96
Methylene Chloride	107
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	93
Hexane	106
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	105
Chloroform	103
1,1,1-Trichloroethane	106
Carbon Tetrachloride	108
Benzene	97
1,2-Dichloroethane	102
Trichloroethene	100
1,2-Dichloropropane	97
1,4-Dioxane	96
Bromodichloromethane	97
cis-1,3-Dichloropropene	95
4-Methyl-2-pentanone	85
Toluene	95
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	88
Tetrachloroethene	94
2-Hexanone	92
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	96
Chlorobenzene	91
Ethyl Benzene	94
m,p-Xylene	94
o-Xylene	92

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Client Sample ID: CCV

Lab ID#: 2001311-28C

EPA METHOD TO-15 GC/MS

File Name:	**14012102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 10:08 AM**	

Compound	**%Recovery**
Styrene	97
Bromoform	94
1,1,2,2-Tetrachloroethane	92
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	86
1,1-Difluoroethane	101
TNMOC ref. to Heptane (MW=100)	100
Vinyl Acetate	97

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCS

Lab ID#: 2001311-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 10:48 AM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	96	70-130
Chloromethane	91	70-130
Vinyl Chloride	95	70-130
Bromomethane	92	70-130
Chloroethane	95	70-130
Freon 11	95	70-130
Freon 113	93	70-130
1,1-Dichloroethene	98	70-130
Acetone	90	70-130
2-Propanol	95	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	93	70-130
Methylene Chloride	93	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	107	70-130
Hexane	95	70-130
1,1-Dichloroethane	93	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	92	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	96	70-130
Carbon Tetrachloride	97	70-130
Benzene	94	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	102	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	94	70-130
2-Hexanone	92	70-130
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	97	70-130
o-Xylene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2001311-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 10:48 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	98	70-130
Bromoform	107	70-130
1,1,2,2-Tetrachloroethane	96	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	96	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	96	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	94	70-130
1,2,4-Trichlorobenzene	84	70-130
Hexachlorobutadiene	88	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	98	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCSD

Lab ID#: 2001311-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 11:19 AM**	

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	97	70-130
Chloromethane	90	70-130
Vinyl Chloride	97	70-130
Bromomethane	105	70-130
Chloroethane	97	70-130
Freon 11	97	70-130
Freon 113	95	70-130
1,1-Dichloroethene	98	70-130
Acetone	95	70-130
2-Propanol	93	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	99	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	109	70-130
Hexane	93	70-130
1,1-Dichloroethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	96	70-130
cis-1,2-Dichloroethene	92	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	98	70-130
Carbon Tetrachloride	98	70-130
Benzene	96	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	94	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	92	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	100	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	96	70-130
2-Hexanone	96	70-130
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	99	70-130
o-Xylene	99	70-130

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Client Sample ID: LCSD

Lab ID#: 2001311-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/17/20 11:19 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	100	70-130
Bromoform	111	70-130
1,1,2,2-Tetrachloroethane	99	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	92	70-130
Hexachlorobutadiene	95	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	94	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2001311-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 10:19 AM**	

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	98	70-130
Chloromethane	91	70-130
Vinyl Chloride	96	70-130
Bromomethane	103	70-130
Chloroethane	95	70-130
Freon 11	97	70-130
Freon 113	96	70-130
1,1-Dichloroethene	101	70-130
Acetone	94	70-130
2-Propanol	92	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	100	70-130
Methylene Chloride	94	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	108	70-130
Hexane	94	70-130
1,1-Dichloroethane	96	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	96	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	98	70-130
Carbon Tetrachloride	100	70-130
Benzene	96	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	95	70-130
2-Hexanone	94	70-130
Dibromochloromethane	106	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	98	70-130
o-Xylene	97	70-130

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Client Sample ID: LCS

Lab ID#: 2001311-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 10:19 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	100	70-130
Bromoform	112	70-130
1,1,2,2-Tetrachloroethane	97	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	93	70-130
Hexachlorobutadiene	95	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	99	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2001311-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 12:11 PM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	97	70-130
Chloromethane	88	70-130
Vinyl Chloride	92	70-130
Bromomethane	101	70-130
Chloroethane	95	70-130
Freon 11	94	70-130
Freon 113	92	70-130
1,1-Dichloroethene	98	70-130
Acetone	92	70-130
2-Propanol	88	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	97	70-130
Methylene Chloride	90	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	90	70-130
1,1-Dichloroethane	92	70-130
2-Butanone (Methyl Ethyl Ketone)	96	70-130
cis-1,2-Dichloroethene	92	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	98	70-130
Benzene	94	70-130
1,2-Dichloroethane	95	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	93	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	103	70-130
4-Methyl-2-pentanone	91	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	100	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	94	70-130
2-Hexanone	92	70-130
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	97	70-130
o-Xylene	96	70-130

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Client Sample ID: LCSD

Lab ID#: 2001311-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/20/20 12:11 PM**	

Compound	**%Recovery**	**Method Limits**
Styrene	99	70-130
Bromoform	110	70-130
1,1,2,2-Tetrachloroethane	95	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	96	70-130
1,2,4-Trichlorobenzene	91	70-130
Hexachlorobutadiene	94	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	94	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2001311-29C

EPA METHOD TO-15 GC/MS

File Name:	**14012103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 10:32 AM**	

Compound	%Recovery	Method Limits
Freon 12	107	70-130
Freon 114	105	70-130
Chloromethane	110	70-130
Vinyl Chloride	103	70-130
Bromomethane	106	70-130
Chloroethane	100	70-130
Freon 11	119	70-130
Freon 113	110	70-130
1,1-Dichloroethene	111	70-130
Acetone	110	70-130
2-Propanol	109	70-130
Carbon Disulfide	104	70-130
3-Chloropropene	100	70-130
Methylene Chloride	112	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	103	70-130
Hexane	110	70-130
1,1-Dichloroethane	107	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
cis-1,2-Dichloroethene	100	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	111	70-130
Carbon Tetrachloride	112	70-130
Benzene	99	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	100	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	106	70-130
4-Methyl-2-pentanone	86	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	98	70-130
2-Hexanone	98	70-130
Dibromochloromethane	101	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	99	70-130
o-Xylene	99	70-130

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Client Sample ID: LCS

Lab ID#: 2001311-29C

EPA METHOD TO-15 GC/MS

File Name:	**14012103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 10:32 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	102	70-130
Bromoform	102	70-130
1,1,2,2-Tetrachloroethane	99	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	96	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	99	70-130
Hexachlorobutadiene	97	70-130
1,1-Difluoroethane	Not Spiked	
TNMOC ref. to Heptane (MW=100)	Not Spiked	
Vinyl Acetate	94	60-140

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2001311-29CC

EPA METHOD TO-15 GC/MS

File Name:	**14012104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 10:55 AM**	

Compound	%Recovery	Method Limits
Freon 12	107	70-130
Freon 114	107	70-130
Chloromethane	110	70-130
Vinyl Chloride	106	70-130
Bromomethane	104	70-130
Chloroethane	101	70-130
Freon 11	120	70-130
Freon 113	109	70-130
1,1-Dichloroethene	114	70-130
Acetone	111	70-130
2-Propanol	112	70-130
Carbon Disulfide	105	70-130
3-Chloropropene	102	70-130
Methylene Chloride	114	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	107	70-130
Hexane	112	70-130
1,1-Dichloroethane	109	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	103	70-130
Chloroform	108	70-130
1,1,1-Trichloroethane	113	70-130
Carbon Tetrachloride	116	70-130
Benzene	100	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	102	70-130
4-Methyl-2-pentanone	93	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	101	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	100	70-130
2-Hexanone	100	70-130
Dibromochloromethane	101	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	98	70-130
o-Xylene	98	70-130

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Client Sample ID: LCSD

Lab ID#: 2001311-29CC

EPA METHOD TO-15 GC/MS

File Name:	**14012104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/20 10:55 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	102	70-130
Bromoform	102	70-130
1,1,2,2-Tetrachloroethane	97	70-130
4-Ethyltoluene	100	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	97	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	96	70-130
1,2,4-Trichlorobenzene	92	70-130
Hexachlorobutadiene	90	70-130
1,1-Difluoroethane	Not Spiked	
TNMOC ref. to Heptane (MW=100)	Not Spiked	
Vinyl Acetate	95	60-140

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	97	70-130

Calscience Environmental Laboratories, Inc.

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

2001311

AIR CHAIN OF CUSTODY RECORD

DATE: 1/13/20
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - Annual VMP January 2020
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☒ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES: TO-15 (TAL 2.4)

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)
01A	1	OC_SVE_VMP-94-24_01 13 20	VMP-94-24	SV	1L3024	1 L	34546	1/13 /2020	0720	-27	1/13 /2020	0725	-5	X
02A	2	OC_SVE_VMP-94-60_01 13 20	VMP-94-60	SV	1L2869	1 L	23296	1/13 /2020	0735	-28	1/13 /2020	0740	-5	X
03A	3	OC_SVE_VMP-94-60_01 13 20 K	VMP-94-60	SV	~~1L3136~~	1 L	~~23510~~	1/13 /2020	0735	-26	1/13 /2020	0740	-5	X
04A	4	OC_SVE_VMP-43-24_01 13 20	VMP-43-24	SV	1L2382	1 L	24372	1/13 /2020	0803	-26	1/13 /2020	0810	-5	X
05A	5	OC_SVE_VMP-95-61_01 13 20	VMP-95-61	SV	1L1692	1 L	24236	1/13/2020	0814	-27	1/13/2020	0819	-5	X
06A	6	OC_SVE_VMP-24_01 13 20	VMP-24	SV	3547	1 L	23767	1/13/2020	0851	-27	1/13/2020	0858	-5	X
07A	7	OC_SVE_VMP-31-24_01 13 20	VMP-31-24	SV	1L3818	1 L	24153	1/13/2020	0924	-27	1/13/2020	0929	-5	X
08A	8	OC_SVE_VMP-31-70_01 13 20	VMP-31-70	SV	40869	1 L	23270	1/13/2020	0934	-26	1/13/2020	0944	-15	X
09A	9	OC_SVE_VMP-32-24_01 13 20	VMP-32-24	SV	1L1901	1 L	24356	1/13/2020	0955	-26	1/13/2020	1005	-5	X
10A	10	OC_SVE_VMP-32-60_01 13 20	VMP-32-60	SV	1L2875	1 L	23614	1/13/2020	1010	-28	1/13/2020	1016	-4	X
11A	11	OC_SVE_VMP-20_01 13 20	VMP-20	SV	1L2417	1 L	23642	1/13/2020	1141	-27	1/13/2020	1146	-5	X
12A	12	OC_SVE_VMP-21_01 13 20	VMP-21	SV	1L2771	1 L	23503	1/13/2020	1204	-25	1/13/2020	1210	-5	X
13A	13	OC_SVE_VMP-26_01 13 20	VMP-26	SV	1L1756	1 L	24697	1/13/2020	1223	-25	1/13/2020	1227	-4.5	X
14A	14	OC_SVE_VMP-27_01 13 20	VMP-27	SV	1L3020	1 L	23478	1/13/2020	1248	-25	1/13/2020	1253	-5	X
~~15A~~	15	OC_SVE_VMP-_01 20		SV		1 L		1/ /2020			1/ /2020			X
~~16A~~	16	OC_SVE_VMP-_01 20		SV		1 L		1/ /2020			1/ /2020			X

1L2822/23222

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	ZATV	01/16/20	0932
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

HW 01/16/20

Custody Seal Intact? Y N None Temp NA

X1027

Custody Seal Intact? Y N None Temp

01/16/20 MH

~~2001312~~ 2001311

HW 01/16/20

Calscience Environmental Laboratories, Inc.

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

AIR CHAIN OF CUSTODY RECORD

DATE: 1/14/20
PAGE: 2 OF 2

LABORATORY CLIENT: de maximis	CLIENT PROJECT NAME / NUMBER: Omega - Annual VMP January 2020
ADDRESS: 1322 Scott St., Suite 104	PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: San Diego; STATE: CA; ZIP: 92106	CITY: Whittier; STATE: CA; ZIP: 90602
TEL: (562) 756-8149; EMAIL: jdinello@demaximis.com	PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS	SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☑ EDD	P.O. NO.:
SPECIAL INSTRUCTIONS:	LAB CONTACT OR QUOTE NO.:
	LAB USE ONLY: ☐☐-☐☐☐☐

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)				
15A 01A	1	OC_SVE_VMP-18_01 14 20	VMP-18	SV	12827	1 L	23290	1/14/2020	0722	-27	1/14/2020	0727	-3	X				
16A 02A	2	OC_SVE_VMP-18_01 14 20 K	VMP-18	SV	40966	1 L	23621	1/14/2020	0722	-28.5	1/14/2020	0728	-5	X				
17A 03A	3	OC_SVE_VMP-93-60_01 14 20	VMP-93-60	SV	12795	1 L	22194	1/14/2020	0825	-27.5	1/14/2020	0835	-5	X				
18A 04A	4	OC_SVE_VMP-11_01 14 20	VMP-11	SV	40896	1 L	24734	1/14/2020	0900	-26	1/14/2020	0905	-5	X				
05A	5	~~OC_SVE_VMP-12_01 14 20~~	~~VMP-12~~	~~SV~~	~~12349~~	~~1 L~~	~~23445~~	~~1/14/2020~~	NA		1/14/2020			X				
19A 06A	6	OC_SVE_VMP-12_01 14 20	VMP-12	SV	12577	1 L	24141	1/14/2020	0937	-27	1/14/2020	0944	-2	X				
20A 07A	7	OC_SVE_VMP-15_01 14 20	VMP-15	SV	12366	1 L	23230	1/14/2020	1004	-29	1/14/2020	1009	-5	X				
21A 08A	8	OC_SVE_VMP-15_01 14 20 K	VMP-15	SV	12836	1 L	23433	1/14/2020	1004	-27	1/14/2020	1009	-5	X				
22A 09A	9	OC_SVE_VMP-17_01 14 20	VMP-17	SV	12754	1 L	23806	1/14/2020	1027	-28	1/14/2020	1031	-5	X				
23A 10A	10	OC_SVE_VMP-16_01 14 20	VMP-16	SV	12899	1 L	23352	1/14/2020	1046	-26	1/14/2020	1051	-5	X				
24A 11A	11	OC_SVE_VMP-92-69_01 14 20	VMP-92-69	SV	12158	1 L	24150	1/14/2020	1105	-27	1/14/2020	1114	-5	X				
25A 12A	12	OC_SVE_VMP-22_01 14 20	VMP-22	SV	8518	1 L	24118	1/14/2020	1224	-27	1/14/2020	1229	-5	X				
26A 13A	13	OC_SVE_VMP-5_01 14 20	VMP-5	SV	12884	1 L	23276	1/14/2020	1235	-26	1/14/2020	1240	-5	X				
14A	14	OC_SVE_VMP-_01 20		SV		1 L		1/ /2020			1/ /2020			X				
15A	15	OC_SVE_VMP-_01 20		SV		1 L		1/ /2020			1/ /2020			X				
16A	16	OC_SVE_VMP-_01 20		SV		1 L		1/ /2020			1/ /2020			X				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	TAL	01/16/20	0932
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

HW 01/16/20

Custody Seal Intact? Y N None Temp N.A

Custody Seal Intact? Y N None Temp ___ HW 01/16/20

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3/3/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 VMP Resampling Feb. 2020
Project #:
Workorder #: 2002782

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 2/29/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2002782

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	GL6433
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 VMP Resampling Feb. 2020
DATE RECEIVED:	02/29/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/03/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_VMP-94-60_022820	TO-15	5.3 "Hg	14.4 psi
02A	OC_SVE_VMP-95-60_022820	TO-15	4.7 "Hg	15.1 psi
03A	OC_SVE_VMP-16_022820	TO-15	3.3 "Hg	15.9 psi
04A	OC_SVE_VMP-92-70_022820	TO-15	5.3 "Hg	15.1 psi
05A	OC_SVE_VMp-21_022820	TO-15	2 "Hg	15 psi
06A	Lab Blank	TO-15	NA	NA
07A	CCV	TO-15	NA	NA
08A	LCS	TO-15	NA	NA
08AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/03/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2002782

Five 1 Liter Summa Canister samples were received on February 29, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Dilution was performed on samples OC_SVE_VMP-16_022820 and OC_SVE_VMP-92-70_022820 due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-94-60_022820

Lab ID#: 2002782-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	4.3	8.1	29

Client Sample ID: OC_SVE_VMP-95-60_022820

Lab ID#: 2002782-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.2	3.6	6.4	20
Tetrachloroethene	1.2	30	8.1	200
1,1-Difluoroethane	4.8	11	13	29

Client Sample ID: OC_SVE_VMP-16_022820

Lab ID#: 2002782-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	94	490000 E	250	1300000 E
TNMOC ref. to Heptane (MW=100)	470	72000	1900	290000

Client Sample ID: OC_SVE_VMP-92-70_022820

Lab ID#: 2002782-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.6	44	9.2	250
Freon 113	1.6	150	12	1200
1,1-Dichloroethene	1.6	140	6.5	550
Chloroform	1.6	3.0	8.0	14
1,1,1-Trichloroethane	1.6	2.0	8.9	11
Trichloroethene	1.6	30	8.8	160
Tetrachloroethene	1.6	570	11	3900
1,1-Difluoroethane	6.6	7.1	18	19
TNMOC ref. to Heptane (MW=100)	33	1300	130	5300

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMp-21_022820

Lab ID#: 2002782-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	2.0	5.8	11
Tetrachloroethene	1.1	9.0	7.3	61
1,1-Difluoroethane	4.3	4.4	12	12
TNMOC ref. to Heptane (MW=100)	22	80	88	330

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Client Sample ID: OC_SVE_VMP-94-60_022820

Lab ID#: 2002782-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030212**	**Date of Collection:**	**2/28/20 10:38:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**3/2/20 05:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	4.3	8.1	29
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-94-60_022820

Lab ID#: 2002782-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030212**	**Date of Collection:**	**2/28/20 10:38:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**3/2/20 05:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	98	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: OC_SVE_VMP-95-60_022820

Lab ID#: 2002782-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030213**	**Date of Collection:**	**2/28/20 11:27:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**3/2/20 06:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	3.6	6.4	20
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	30	8.1	200
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-95-60_022820

Lab ID#: 2002782-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030213**	**Date of Collection:**	**2/28/20 11:27:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**3/2/20 06:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	11	13	29
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	98	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: OC_SVE_VMP-16_022820

Lab ID#: 2002782-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030217**	**Date of Collection:**	**2/28/20 12:30:00 PM**
Dil. Factor:	**46.8**	**Date of Analysis:**	**3/2/20 08:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	23	Not Detected	120	Not Detected
Freon 114	23	Not Detected	160	Not Detected
Chloromethane	230	Not Detected	480	Not Detected
Vinyl Chloride	23	Not Detected	60	Not Detected
Bromomethane	230	Not Detected	910	Not Detected
Chloroethane	94	Not Detected	250	Not Detected
Freon 11	23	Not Detected	130	Not Detected
Freon 113	23	Not Detected	180	Not Detected
1,1-Dichloroethene	23	Not Detected	93	Not Detected
Acetone	230	Not Detected	560	Not Detected
2-Propanol	94	Not Detected	230	Not Detected
Carbon Disulfide	94	Not Detected	290	Not Detected
3-Chloropropene	94	Not Detected	290	Not Detected
Methylene Chloride	230	Not Detected	810	Not Detected
Methyl tert-butyl ether	94	Not Detected	340	Not Detected
trans-1,2-Dichloroethene	23	Not Detected	93	Not Detected
Hexane	23	Not Detected	82	Not Detected
1,1-Dichloroethane	23	Not Detected	95	Not Detected
2-Butanone (Methyl Ethyl Ketone)	94	Not Detected	280	Not Detected
cis-1,2-Dichloroethene	23	Not Detected	93	Not Detected
Chloroform	23	Not Detected	110	Not Detected
1,1,1-Trichloroethane	23	Not Detected	130	Not Detected
Carbon Tetrachloride	23	Not Detected	150	Not Detected
Benzene	23	Not Detected	75	Not Detected
1,2-Dichloroethane	23	Not Detected	95	Not Detected
Trichloroethene	23	Not Detected	120	Not Detected
1,2-Dichloropropane	23	Not Detected	110	Not Detected
1,4-Dioxane	94	Not Detected	340	Not Detected
Bromodichloromethane	23	Not Detected	160	Not Detected
cis-1,3-Dichloropropene	23	Not Detected	110	Not Detected
4-Methyl-2-pentanone	23	Not Detected	96	Not Detected
Toluene	23	Not Detected	88	Not Detected
trans-1,3-Dichloropropene	23	Not Detected	110	Not Detected
1,1,2-Trichloroethane	23	Not Detected	130	Not Detected
Tetrachloroethene	23	Not Detected	160	Not Detected
2-Hexanone	94	Not Detected	380	Not Detected
Dibromochloromethane	23	Not Detected	200	Not Detected
1,2-Dibromoethane (EDB)	23	Not Detected	180	Not Detected
Chlorobenzene	23	Not Detected	110	Not Detected
Ethyl Benzene	23	Not Detected	100	Not Detected
m,p-Xylene	23	Not Detected	100	Not Detected
o-Xylene	23	Not Detected	100	Not Detected

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Client Sample ID: OC_SVE_VMP-16_022820

Lab ID#: 2002782-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030217**	**Date of Collection:**	**2/28/20 12:30:00 PM**
Dil. Factor:	**46.8**	**Date of Analysis:**	**3/2/20 08:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	23	Not Detected	100	Not Detected
Bromoform	23	Not Detected	240	Not Detected
1,1,2,2-Tetrachloroethane	23	Not Detected	160	Not Detected
4-Ethyltoluene	23	Not Detected	120	Not Detected
1,3,5-Trimethylbenzene	23	Not Detected	120	Not Detected
1,2,4-Trimethylbenzene	23	Not Detected	120	Not Detected
1,3-Dichlorobenzene	23	Not Detected	140	Not Detected
1,4-Dichlorobenzene	23	Not Detected	140	Not Detected
alpha-Chlorotoluene	23	Not Detected	120	Not Detected
1,2-Dichlorobenzene	23	Not Detected	140	Not Detected
1,2,4-Trichlorobenzene	94	Not Detected	690	Not Detected
Hexachlorobutadiene	94	Not Detected	1000	Not Detected
1,1-Difluoroethane	94	490000 E	250	1300000 E
Vinyl Acetate	94	Not Detected	330	Not Detected
TNMOC ref. to Heptane (MW=100)	470	72000	1900	290000

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-92-70_022820

Lab ID#: 2002782-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030214**	**Date of Collection:**	**2/28/20 1:17:00 PM**
Dil. Factor:	**3.28**	**Date of Analysis:**	**3/2/20 07:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	8.1	Not Detected
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	34	Not Detected
Vinyl Chloride	1.6	Not Detected	4.2	Not Detected
Bromomethane	16	Not Detected	64	Not Detected
Chloroethane	6.6	Not Detected	17	Not Detected
Freon 11	1.6	44	9.2	250
Freon 113	1.6	150	12	1200
1,1-Dichloroethene	1.6	140	6.5	550
Acetone	16	Not Detected	39	Not Detected
2-Propanol	6.6	Not Detected	16	Not Detected
Carbon Disulfide	6.6	Not Detected	20	Not Detected
3-Chloropropene	6.6	Not Detected	20	Not Detected
Methylene Chloride	16	Not Detected	57	Not Detected
Methyl tert-butyl ether	6.6	Not Detected	24	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.5	Not Detected
Hexane	1.6	Not Detected	5.8	Not Detected
1,1-Dichloroethane	1.6	Not Detected	6.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.6	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	1.6	Not Detected	6.5	Not Detected
Chloroform	1.6	3.0	8.0	14
1,1,1-Trichloroethane	1.6	2.0	8.9	11
Carbon Tetrachloride	1.6	Not Detected	10	Not Detected
Benzene	1.6	Not Detected	5.2	Not Detected
1,2-Dichloroethane	1.6	Not Detected	6.6	Not Detected
Trichloroethene	1.6	30	8.8	160
1,2-Dichloropropane	1.6	Not Detected	7.6	Not Detected
1,4-Dioxane	6.6	Not Detected	24	Not Detected
Bromodichloromethane	1.6	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.4	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.7	Not Detected
Toluene	1.6	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	1.6	Not Detected	7.4	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.9	Not Detected
Tetrachloroethene	1.6	570	11	3900
2-Hexanone	6.6	Not Detected	27	Not Detected
Dibromochloromethane	1.6	Not Detected	14	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	13	Not Detected
Chlorobenzene	1.6	Not Detected	7.6	Not Detected
Ethyl Benzene	1.6	Not Detected	7.1	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	1.6	Not Detected	7.1	Not Detected

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Client Sample ID: OC_SVE_VMP-92-70_022820

Lab ID#: 2002782-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030214**	**Date of Collection:**	**2/28/20 1:17:00 PM**
Dil. Factor:	**3.28**	**Date of Analysis:**	**3/2/20 07:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.6	Not Detected	7.0	Not Detected
Bromoform	1.6	Not Detected	17	Not Detected
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
4-Ethyltoluene	1.6	Not Detected	8.1	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	8.1	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected	8.1	Not Detected
1,3-Dichlorobenzene	1.6	Not Detected	9.9	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.9	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.5	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.9	Not Detected
1,2,4-Trichlorobenzene	6.6	Not Detected	49	Not Detected
Hexachlorobutadiene	6.6	Not Detected	70	Not Detected
1,1-Difluoroethane	6.6	7.1	18	19
Vinyl Acetate	6.6	Not Detected	23	Not Detected
TNMOC ref. to Heptane (MW=100)	33	1300	130	5300

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: OC_SVE_VMp-21_022820

Lab ID#: 2002782-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030215**	**Date of Collection:**	**2/28/20 2:15:00 PM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**3/2/20 07:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	Not Detected	26	Not Detected
2-Propanol	4.3	Not Detected	11	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	2.0	5.8	11
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	9.0	7.3	61
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected

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Client Sample ID: OC_SVE_VMp-21_022820

Lab ID#: 2002782-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030215**	**Date of Collection:**	**2/28/20 2:15:00 PM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**3/2/20 07:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
1,1-Difluoroethane	4.3	4.4	12	12
Vinyl Acetate	4.3	Not Detected	15	Not Detected
TNMOC ref. to Heptane (MW=100)	22	80	88	330

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2002782-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030211a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 04:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2002782-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030211a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 04:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 2002782-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 09:22 AM**

Compound	%Recovery
Freon 12	96
Freon 114	97
Chloromethane	91
Vinyl Chloride	85
Bromomethane	95
Chloroethane	80
Freon 11	96
Freon 113	94
1,1-Dichloroethene	88
Acetone	79
2-Propanol	80
Carbon Disulfide	84
3-Chloropropene	88
Methylene Chloride	84
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	93
Hexane	88
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	97
Chloroform	97
1,1,1-Trichloroethane	94
Carbon Tetrachloride	111
Benzene	94
1,2-Dichloroethane	97
Trichloroethene	100
1,2-Dichloropropane	92
1,4-Dioxane	93
Bromodichloromethane	101
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	90
Toluene	96
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	101
Tetrachloroethene	107
2-Hexanone	89
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	100
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	100
o-Xylene	102

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Client Sample ID: CCV

Lab ID#: 2002782-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 09:22 AM**

Compound	**%Recovery**
Styrene	103
Bromoform	107
1,1,2,2-Tetrachloroethane	97
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	104
1,1-Difluoroethane	95
Vinyl Acetate	95
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCS

Lab ID#: 2002782-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 11:14 AM**	

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	104	70-130
Chloromethane	80	70-130
Vinyl Chloride	89	70-130
Bromomethane	80	70-130
Chloroethane	86	70-130
Freon 11	102	70-130
Freon 113	100	70-130
1,1-Dichloroethene	97	70-130
Acetone	89	70-130
2-Propanol	81	70-130
Carbon Disulfide	86	70-130
3-Chloropropene	88	70-130
Methylene Chloride	87	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	90	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	90	70-130
cis-1,2-Dichloroethene	112	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	98	70-130
Carbon Tetrachloride	111	70-130
Benzene	92	70-130
1,2-Dichloroethane	97	70-130
Trichloroethene	105	70-130
1,2-Dichloropropane	90	70-130
1,4-Dioxane	89	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	84	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	95	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	104	70-130
2-Hexanone	81	70-130
Dibromochloromethane	103	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	95	70-130
o-Xylene	97	70-130

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Client Sample ID: LCS

Lab ID#: 2002782-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 11:14 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	90	70-130
Bromoform	99	70-130
1,1,2,2-Tetrachloroethane	85	70-130
4-Ethyltoluene	90	70-130
1,3,5-Trimethylbenzene	93	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	90	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	89	70-130
Hexachlorobutadiene	93	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	104	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 2002782-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 11:42 AM**	

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	102	70-130
Chloromethane	78	70-130
Vinyl Chloride	88	70-130
Bromomethane	84	70-130
Chloroethane	87	70-130
Freon 11	102	70-130
Freon 113	98	70-130
1,1-Dichloroethene	97	70-130
Acetone	88	70-130
2-Propanol	81	70-130
Carbon Disulfide	86	70-130
3-Chloropropene	88	70-130
Methylene Chloride	89	70-130
Methyl tert-butyl ether	89	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	90	70-130
1,1-Dichloroethane	99	70-130
2-Butanone (Methyl Ethyl Ketone)	88	70-130
cis-1,2-Dichloroethene	113	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	97	70-130
Carbon Tetrachloride	117	70-130
Benzene	94	70-130
1,2-Dichloroethane	97	70-130
Trichloroethene	106	70-130
1,2-Dichloropropane	92	70-130
1,4-Dioxane	92	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	99	70-130
4-Methyl-2-pentanone	84	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	96	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	104	70-130
2-Hexanone	81	70-130
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	96	70-130
m,p-Xylene	96	70-130
o-Xylene	98	70-130

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Client Sample ID: LCSD

Lab ID#: 2002782-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/20 11:42 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	90	70-130
Bromoform	101	70-130
1,1,2,2-Tetrachloroethane	86	70-130
4-Ethyltoluene	91	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	90	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	91	70-130
Hexachlorobutadiene	94	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	107	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	105	70-130

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

2002782

AIR CHAIN OF CUSTODY RECORD

DATE: 2/28/2020
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - OU1 VMP Resampling Feb. 2020
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☑ 24 HR ☑ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☑ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)
01A	1	OC_SVE_VMP-94-60_02 28 20	VMP-94-60	SV	1L2793	1L	21436	2/28/20	1031	-27	2/28/20	1038	-5	X
02A	2	OC_SVE_VMP-95-60_02 28 20	VMP-95-60	SV	1L2320	1L	20425	"	1119	-29.5	"	1127	-5	X
03A	3	OC_SVE_VMP- 16 _02 28 20	VMP-16	SV	1L3853	1L	30995	"	1222	-29	"	1230	-5	X
04A	4	OC_SVE_VMP-92-70_02 28 20	VMP-92-70	SV	1L3219	1L	21428	"	1308	-27.5	"	1317	-5	X
	5	~~OC_SVE_VMP-92-70_02 28 20N~~	~~EB~~	SV	~~1L2015~~	1L	~~21428~~	~~"~~			~~"~~			~~X~~
05A	6	OC_SVE_VMP- 21 _02 28 20	VMP-21	SV	1L2697	1L	22655	"	1407	-29	"	1415	-2	X
	7	OC_SVE_VMP- _02 20		SV		1L								X
	8	OC_SVE_VMP- _02 20		SV		1L								X
	9	OC_SVE_VMP- _02 20		SV		1L								X
	10	OC_SVE_VMP- _02 20		SV		1L								X
	11	OC_SVE_VMP- _02 20		SV		1L								X
	12	OC_SVE_VMP- _02 20		SV		1L								X
	13													
	14													
	15													
	16													

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	JW FATL	02/29/20	0945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Custody Seal Intact?
Y N None Temp NA
FZDX

~~Y N None Temp~~
~~Custody Seal Intact?~~
NW 02/29/20

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3/5/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 VMP Resampling Feb. 2020
Project #:
Workorder #: 2003029

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 3/3/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2003029

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	GL6433
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 VMP Resampling Feb. 2020
DATE RECEIVED:	03/03/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/05/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_VMP-27_030220	TO-15	3.9 "Hg	15.2 psi
02A	OC_SVE_VMP-27_030220K	TO-15	4.7 "Hg	15.2 psi
03A	OC_SVE_VMP-32-24_030220	TO-15	3.7 "Hg	15.4 psi
04A	OC_SVE_VMP-31-24_030220	TO-15	4.7 "Hg	15.6 psi
05A	OC_SVE_VMP-22_030220	TO-15	4.3 "Hg	15.5 psi
06A	OC_SVE_VMP-92-70_030220	TO-15	5.7 "Hg	15 psi
07A	Lab Blank	TO-15	NA	NA
08A	CCV	TO-15	NA	NA
09A	LCS	TO-15	NA	NA
09AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

DATE: 03/05/20

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2003029

Six 1 Liter Summa Canister samples were received on March 03, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-27_030220

Lab ID#: 2003029-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	340	28	810
2-Butanone (Methyl Ethyl Ketone)	4.7	28	14	82
1,1-Difluoroethane	4.7	190	13	510
TNMOC ref. to Heptane (MW=100)	23	220	96	900

Client Sample ID: OC_SVE_VMP-27_030220K

Lab ID#: 2003029-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	280	29	650
2-Butanone (Methyl Ethyl Ketone)	4.8	22	14	65
1,1-Difluoroethane	4.8	170	13	450
TNMOC ref. to Heptane (MW=100)	24	170	98	700

Client Sample ID: OC_SVE_VMP-32-24_030220

Lab ID#: 2003029-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	19	28	45
Tetrachloroethene	1.2	3.4	7.9	23

Client Sample ID: OC_SVE_VMP-31-24_030220

Lab ID#: 2003029-04A

No Detections Were Found.

Client Sample ID: OC_SVE_VMP-22_030220

Lab ID#: 2003029-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	3.1	8.1	21
1,1-Difluoroethane	4.8	9.2	13	25
TNMOC ref. to Heptane (MW=100)	24	31	98	130

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-92-70_030220

Lab ID#: 2003029-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	2.1	9.1	12	51
Freon 113	2.1	21	16	160
1,1-Dichloroethene	2.1	120	8.2	470
Chloroform	2.1	3.2	10	16
Trichloroethene	2.1	34	11	180
Tetrachloroethene	2.1	600	14	4100
1,1-Difluoroethane	8.3	25	22	67
TNMOC ref. to Heptane (MW=100)	42	1100	170	4500

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Client Sample ID: OC_SVE_VMP-27_030220

Lab ID#: 2003029-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030407**	**Date of Collection:**	**3/2/20 7:58:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**3/4/20 01:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	340	28	810
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	28	14	82
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected

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Client Sample ID: OC_SVE_VMP-27_030220

Lab ID#: 2003029-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030407**	**Date of Collection:**	**3/2/20 7:58:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**3/4/20 01:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	190	13	510
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	220	96	900

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: OC_SVE_VMP-27_030220K

Lab ID#: 2003029-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030408**	**Date of Collection:**	**3/2/20 7:58:00 AM**
Dil. Factor:	**2.41**	**Date of Analysis:**	**3/4/20 01:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	280	29	650
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	22	14	65
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-27_030220K

Lab ID#: 2003029-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030408**	**Date of Collection:**	**3/2/20 7:58:00 AM**
Dil. Factor:	**2.41**	**Date of Analysis:**	**3/4/20 01:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	170	13	450
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	170	98	700

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: OC_SVE_VMP-32-24_030220

Lab ID#: 2003029-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030409**	**Date of Collection:**	**3/2/20 8:46:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**3/4/20 02:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	19	28	45
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	3.4	7.9	23
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected

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Client Sample ID: OC_SVE_VMP-32-24_030220

Lab ID#: 2003029-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030409**	**Date of Collection:**	**3/2/20 8:46:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**3/4/20 02:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	Not Detected	13	Not Detected
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	Not Detected	96	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: OC_SVE_VMP-31-24_030220

Lab ID#: 2003029-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030410**	**Date of Collection:**	**3/2/20 9:17:00 AM**
Dil. Factor:	**2.44**	**Date of Analysis:**	**3/4/20 02:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.5	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.3	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected

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Client Sample ID: OC_SVE_VMP-31-24_030220

Lab ID#: 2003029-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030410**	**Date of Collection:**	**3/2/20 9:17:00 AM**
Dil. Factor:	**2.44**	**Date of Analysis:**	**3/4/20 02:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: OC_SVE_VMP-22_030220

Lab ID#: 2003029-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030411**	**Date of Collection:**	**3/2/20 10:04:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**3/4/20 03:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	3.1	8.1	21
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-22_030220

Lab ID#: 2003029-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030411**	**Date of Collection:**	**3/2/20 10:04:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**3/4/20 03:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	9.2	13	25
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	31	98	130

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: OC_SVE_VMP-92-70_030220

Lab ID#: 2003029-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030412**	**Date of Collection:**	**3/2/20 10:45:00 AM**
Dil. Factor:	**4.16**	**Date of Analysis:**	**3/4/20 03:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.1	Not Detected	10	Not Detected
Freon 114	2.1	Not Detected	14	Not Detected
Chloromethane	21	Not Detected	43	Not Detected
Vinyl Chloride	2.1	Not Detected	5.3	Not Detected
Bromomethane	21	Not Detected	81	Not Detected
Chloroethane	8.3	Not Detected	22	Not Detected
Freon 11	2.1	9.1	12	51
Freon 113	2.1	21	16	160
1,1-Dichloroethene	2.1	120	8.2	470
Acetone	21	Not Detected	49	Not Detected
2-Propanol	8.3	Not Detected	20	Not Detected
Carbon Disulfide	8.3	Not Detected	26	Not Detected
3-Chloropropene	8.3	Not Detected	26	Not Detected
Methylene Chloride	21	Not Detected	72	Not Detected
Methyl tert-butyl ether	8.3	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	2.1	Not Detected	8.2	Not Detected
Hexane	2.1	Not Detected	7.3	Not Detected
1,1-Dichloroethane	2.1	Not Detected	8.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.3	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	2.1	Not Detected	8.2	Not Detected
Chloroform	2.1	3.2	10	16
1,1,1-Trichloroethane	2.1	Not Detected	11	Not Detected
Carbon Tetrachloride	2.1	Not Detected	13	Not Detected
Benzene	2.1	Not Detected	6.6	Not Detected
1,2-Dichloroethane	2.1	Not Detected	8.4	Not Detected
Trichloroethene	2.1	34	11	180
1,2-Dichloropropane	2.1	Not Detected	9.6	Not Detected
1,4-Dioxane	8.3	Not Detected	30	Not Detected
Bromodichloromethane	2.1	Not Detected	14	Not Detected
cis-1,3-Dichloropropene	2.1	Not Detected	9.4	Not Detected
4-Methyl-2-pentanone	2.1	Not Detected	8.5	Not Detected
Toluene	2.1	Not Detected	7.8	Not Detected
trans-1,3-Dichloropropene	2.1	Not Detected	9.4	Not Detected
1,1,2-Trichloroethane	2.1	Not Detected	11	Not Detected
Tetrachloroethene	2.1	600	14	4100
2-Hexanone	8.3	Not Detected	34	Not Detected
Dibromochloromethane	2.1	Not Detected	18	Not Detected
1,2-Dibromoethane (EDB)	2.1	Not Detected	16	Not Detected
Chlorobenzene	2.1	Not Detected	9.6	Not Detected
Ethyl Benzene	2.1	Not Detected	9.0	Not Detected
m,p-Xylene	2.1	Not Detected	9.0	Not Detected
o-Xylene	2.1	Not Detected	9.0	Not Detected

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Client Sample ID: OC_SVE_VMP-92-70_030220

Lab ID#: 2003029-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030412**	**Date of Collection:**	**3/2/20 10:45:00 AM**
Dil. Factor:	**4.16**	**Date of Analysis:**	**3/4/20 03:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	2.1	Not Detected	8.8	Not Detected
Bromoform	2.1	Not Detected	22	Not Detected
1,1,2,2-Tetrachloroethane	2.1	Not Detected	14	Not Detected
4-Ethyltoluene	2.1	Not Detected	10	Not Detected
1,3,5-Trimethylbenzene	2.1	Not Detected	10	Not Detected
1,2,4-Trimethylbenzene	2.1	Not Detected	10	Not Detected
1,3-Dichlorobenzene	2.1	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.1	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.1	Not Detected	11	Not Detected
1,2-Dichlorobenzene	2.1	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.3	Not Detected	62	Not Detected
Hexachlorobutadiene	8.3	Not Detected	89	Not Detected
1,1-Difluoroethane	8.3	25	22	67
Vinyl Acetate	8.3	Not Detected	29	Not Detected
TNMOC ref. to Heptane (MW=100)	42	1100	170	4500

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2003029-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030406a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 11:56 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2003029-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030406a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 11:56 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: CCV

Lab ID#: 2003029-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 10:15 AM**

Compound	%Recovery
Freon 12	108
Freon 114	106
Chloromethane	98
Vinyl Chloride	99
Bromomethane	114
Chloroethane	102
Freon 11	107
Freon 113	101
1,1-Dichloroethene	111
Acetone	107
2-Propanol	100
Carbon Disulfide	101
3-Chloropropene	99
Methylene Chloride	106
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	110
Hexane	101
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	108
Chloroform	99
1,1,1-Trichloroethane	98
Carbon Tetrachloride	95
Benzene	100
1,2-Dichloroethane	105
Trichloroethene	96
1,2-Dichloropropane	92
1,4-Dioxane	91
Bromodichloromethane	95
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	84
Toluene	92
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	99
Tetrachloroethene	100
2-Hexanone	88
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	99
Chlorobenzene	99
Ethyl Benzene	99
m,p-Xylene	99
o-Xylene	97

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Client Sample ID: CCV

Lab ID#: 2003029-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 10:15 AM**	

Compound	**%Recovery**
Styrene	98
Bromoform	110
1,1,2,2-Tetrachloroethane	95
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	106
1,1-Difluoroethane	98
Vinyl Acetate	101
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS

Lab ID#: 2003029-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 10:40 AM**	

Compound	%Recovery	Method Limits
Freon 12	115	70-130
Freon 114	115	70-130
Chloromethane	103	70-130
Vinyl Chloride	110	70-130
Bromomethane	121	70-130
Chloroethane	110	70-130
Freon 11	115	70-130
Freon 113	105	70-130
1,1-Dichloroethene	118	70-130
Acetone	108	70-130
2-Propanol	107	70-130
Carbon Disulfide	110	70-130
3-Chloropropene	113	70-130
Methylene Chloride	114	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	124	70-130
Hexane	108	70-130
1,1-Dichloroethane	107	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	104	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	102	70-130
Carbon Tetrachloride	100	70-130
Benzene	104	70-130
1,2-Dichloroethane	110	70-130
Trichloroethene	112	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	94	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	102	70-130
2-Hexanone	99	70-130
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	105	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	103	70-130
o-Xylene	101	70-130

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Client Sample ID: LCS

Lab ID#: 2003029-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 10:40 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	104	70-130
Bromoform	116	70-130
1,1,2,2-Tetrachloroethane	92	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	102	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	112	70-130
Hexachlorobutadiene	124	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	106	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: LCSD

Lab ID#: 2003029-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 11:04 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	116	70-130
Freon 114	116	70-130
Chloromethane	104	70-130
Vinyl Chloride	112	70-130
Bromomethane	124	70-130
Chloroethane	112	70-130
Freon 11	114	70-130
Freon 113	106	70-130
1,1-Dichloroethene	117	70-130
Acetone	105	70-130
2-Propanol	111	70-130
Carbon Disulfide	110	70-130
3-Chloropropene	111	70-130
Methylene Chloride	113	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	127	70-130
Hexane	109	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	105	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	104	70-130
Carbon Tetrachloride	99	70-130
Benzene	104	70-130
1,2-Dichloroethane	110	70-130
Trichloroethene	115	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	88	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	104	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	102	70-130
2-Hexanone	98	70-130
Dibromochloromethane	110	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	103	70-130
o-Xylene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2003029-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a030404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/20 11:04 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	103	70-130
Bromoform	116	70-130
1,1,2,2-Tetrachloroethane	91	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	103	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	113	70-130
Hexachlorobutadiene	128	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	103	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	106	70-130

Calscience Environmental Laboratories, Inc.

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

2003029

AIR CHAIN OF CUSTODY RECORD

DATE: 3/2/2020
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - OU1 VMP Resampling Feb. 2020
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☒ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☒ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)				
01A	1	OC_SVE_VMP-27_0302 20	VMP-27	SV	1L2556	1L	22630	3/2/20	0753	-27	3/2/20	0758	-5	X				
02A	2	OC_SVE_VMP-27_0302 20K	VMP-27	SV	1L2445	1L	23266	"	0753	-25.5	"	0758	-4	X				
03A	3	OC_SVE_VMP-32-24_0302 20	VMP-32-24	SV	1L2615	1L	21432	"	0834	-27	"	0846	-5	X				
04A	4	OC_SVE_VMP-31-24_0302 20	VMP-31-24	SV	1L2629	1L	21438	"	0910	-28	"	0917	-5	X				
05A	5	OC_SVE_VMP-22_0302 20	VMP-22	SV	1L1847	1L	30554	"	0955	-25.5	"	1004	-5	X				
06A	6	OC_SVE_VMP-42-70_0302 20	VMP-42-70	SV	1L1677	1L	21428	"	1035	-27	"	1045	-5	X				
	7	OC_SVE_VMP- _02 20		SV		1L								X				
	8	OC_SVE_VMP- _02 20		SV		1L								X				
	9	OC_SVE_VMP- _02 20		SV		1L								X				
	10	OC_SVE_VMP- _02 20		SV		1L								X				
	11	OC_SVE_VMP- _02 20		SV		1L								X				
	12	OC_SVE_VMP- _02 20		SV		1L								X				
	13																	
	14																	
	15																	
	16																	

Relinquished by: (Signature) Received by: (Signature) Date: 3/03/20 Time: 1035
Relinquished by: (Signature) Received by: (Signature) Date: Time:
Relinquished by: (Signature) Received by: (Signature) Date: Time:

Custody Seal Intact? Y N None Temp N/A

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3/9/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega-OU1 Resampling Feb. 2020
Project #:
Workorder #: 2003116

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 3/5/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2003116

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	GL6413
FAX:	949.679.9078	**PROJECT #**	Omega-OU1 Resampling Feb. 2020
DATE RECEIVED:	03/05/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/09/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_VMP-26_030420	TO-15	3.5 "Hg	15 psi
02A	OC_SVE_VMP-20_030420	TO-15	4.5 "Hg	15 psi
03A	OC_SVE_VMP-32-24_030420N	TO-15	4.5 "Hg	15 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/09/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2003116

Three 1 Liter Summa Canister samples were received on March 05, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-26_030420

Lab ID#: 2003116-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	11	14	27	32
1,1-Difluoroethane	4.6	350	12	950
TNMOC ref. to Heptane (MW=100)	23	85	94	350

Client Sample ID: OC_SVE_VMP-20_030420

Lab ID#: 2003116-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	1.6	8.1	10
1,1-Difluoroethane	4.8	14	13	37

Client Sample ID: OC_SVE_VMP-32-24_030420N

Lab ID#: 2003116-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	29	28	68
TNMOC ref. to Heptane (MW=100)	24	130	97	530

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Client Sample ID: OC_SVE_VMP-26_030420

Lab ID#: 2003116-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030607**	**Date of Collection:**	**3/4/20 6:40:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**3/6/20 03:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	14	27	32
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-26_030420

Lab ID#: 2003116-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030607**	**Date of Collection:**	**3/4/20 6:40:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**3/6/20 03:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
1,1-Difluoroethane	4.6	350	12	950
Vinyl Acetate	4.6	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	85	94	350

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: OC_SVE_VMP-20_030420

Lab ID#: 2003116-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030608**	**Date of Collection:**	**3/4/20 7:32:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**3/6/20 04:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	1.6	8.1	10
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-20_030420

Lab ID#: 2003116-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030608**	**Date of Collection:**	**3/4/20 7:32:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**3/6/20 04:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	14	13	37
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	97	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: OC_SVE_VMP-32-24_030420N

Lab ID#: 2003116-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030609**	**Date of Collection:**	**3/4/20 9:18:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**3/6/20 04:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	29	28	68
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-32-24_030420N

Lab ID#: 2003116-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030609**	**Date of Collection:**	**3/4/20 9:18:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**3/6/20 04:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	130	97	530

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2003116-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030606a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 01:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2003116-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030606a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 01:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: CCV

Lab ID#: 2003116-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 10:49 AM**

Compound	%Recovery
Freon 12	114
Freon 114	108
Chloromethane	105
Vinyl Chloride	104
Bromomethane	106
Chloroethane	105
Freon 11	112
Freon 113	102
1,1-Dichloroethene	107
Acetone	98
2-Propanol	108
Carbon Disulfide	103
3-Chloropropene	106
Methylene Chloride	108
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	110
Hexane	112
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	105
Chloroform	106
1,1,1-Trichloroethane	107
Carbon Tetrachloride	109
Benzene	100
1,2-Dichloroethane	106
Trichloroethene	101
1,2-Dichloropropane	103
1,4-Dioxane	100
Bromodichloromethane	103
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	108
Toluene	101
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	101
Tetrachloroethene	102
2-Hexanone	103
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	100
Chlorobenzene	100
Ethyl Benzene	106
m,p-Xylene	103
o-Xylene	107

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Client Sample ID: CCV

Lab ID#: 2003116-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 10:49 AM**	

Compound	**%Recovery**
Styrene	109
Bromoform	101
1,1,2,2-Tetrachloroethane	96
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	98
1,1-Difluoroethane	101
Vinyl Acetate	107
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 2003116-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 11:16 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	104	70-130
Chloromethane	103	70-130
Vinyl Chloride	103	70-130
Bromomethane	101	70-130
Chloroethane	106	70-130
Freon 11	108	70-130
Freon 113	98	70-130
1,1-Dichloroethene	105	70-130
Acetone	99	70-130
2-Propanol	106	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	99	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	105	70-130
trans-1,2-Dichloroethene	115	70-130
Hexane	112	70-130
1,1-Dichloroethane	99	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	92	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	104	70-130
Carbon Tetrachloride	105	70-130
Benzene	100	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	113	70-130
4-Methyl-2-pentanone	112	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	110	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	100	70-130
2-Hexanone	108	70-130
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	105	70-130
o-Xylene	109	70-130

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Client Sample ID: LCS

Lab ID#: 2003116-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 11:16 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	112	70-130
Bromoform	104	70-130
1,1,2,2-Tetrachloroethane	98	70-130
4-Ethyltoluene	116	70-130
1,3,5-Trimethylbenzene	111	70-130
1,2,4-Trimethylbenzene	111	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	105	70-130
alpha-Chlorotoluene	118	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	104	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	98	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 2003116-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 11:53 AM**	

Compound	%Recovery	Method Limits
Freon 12	112	70-130
Freon 114	104	70-130
Chloromethane	104	70-130
Vinyl Chloride	105	70-130
Bromomethane	104	70-130
Chloroethane	107	70-130
Freon 11	110	70-130
Freon 113	99	70-130
1,1-Dichloroethene	108	70-130
Acetone	101	70-130
2-Propanol	110	70-130
Carbon Disulfide	103	70-130
3-Chloropropene	105	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	119	70-130
Hexane	113	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	95	70-130
Chloroform	103	70-130
1,1,1-Trichloroethane	107	70-130
Carbon Tetrachloride	106	70-130
Benzene	97	70-130
1,2-Dichloroethane	105	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	100	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	108	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	109	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	102	70-130
2-Hexanone	110	70-130
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	106	70-130
o-Xylene	110	70-130

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Client Sample ID: LCSD

Lab ID#: 2003116-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17030604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/20 11:53 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	111	70-130
Bromoform	106	70-130
1,1,2,2-Tetrachloroethane	99	70-130
4-Ethyltoluene	115	70-130
1,3,5-Trimethylbenzene	112	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	122	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	98	70-130
Hexachlorobutadiene	107	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	105	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	101	70-130

2003116

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

AIR CHAIN OF CUSTODY RECORD

DATE: 3/4/20
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - OU1 Resampling Feb. 2020
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☑ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☑ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES: TO-15 (TAL 2.4)

LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)
01A 1	OC_SVE_VMP-26 _030420	VMP-26	SV	1L3247	1L	20288	3/4/20	0634	-28	3/4/20	0640	-5	X
02A 2	OC_SVE_VMP-20_030420	VMP-20	SV	1L1905	1L	100503	"	0722	-27	"	0732	-5	X
03A 3	OC_SVE_VMP-32-24_030420N	VMP-32-24EB	AIR	1L1796	1L	24500	"	0914	-26	"	0918	-5	X
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													

FedEx
Custody Seal Intact?
Y N None Temp N/A

Relinquished by: (Signature)	Received by: (Signature)	Date: 3/05/20	Time: 1012
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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3/12/2020
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 VMP Resampling Mar. 2020
Project #:
Workorder #: 2003242

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 3/10/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2003242

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	GL6433
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 VMP Resampling Mar. 2020
DATE RECEIVED:	03/10/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/12/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_VMP-16_030920	TO-15	3.5 "Hg	15 psi
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/12/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2003242

One 1 Liter Summa Canister sample was received on March 10, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds. Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-16_030920

Lab ID#: 2003242-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	11	25	27	60

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Client Sample ID: OC_SVE_VMP-16_030920

Lab ID#: 2003242-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031020**	**Date of Collection:**	**3/9/20 2:16:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**3/10/20 11:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	25	27	60
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-16_030920

Lab ID#: 2003242-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031020**	**Date of Collection:**	**3/9/20 2:16:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**3/10/20 11:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	Not Detected	94	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2003242-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031007c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 02:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2003242-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031007c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 02:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 2003242-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 11:00 AM**

Compound	%Recovery
Freon 12	113
Freon 114	108
Chloromethane	108
Vinyl Chloride	106
Bromomethane	110
Chloroethane	108
Freon 11	112
Freon 113	103
1,1-Dichloroethene	113
Acetone	108
2-Propanol	107
Carbon Disulfide	104
3-Chloropropene	104
Methylene Chloride	110
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	113
Hexane	113
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	107
Chloroform	105
1,1,1-Trichloroethane	105
Carbon Tetrachloride	108
Benzene	101
1,2-Dichloroethane	112
Trichloroethene	103
1,2-Dichloropropane	101
1,4-Dioxane	99
Bromodichloromethane	104
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	108
Toluene	101
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	103
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	100
Chlorobenzene	98
Ethyl Benzene	106
m,p-Xylene	102
o-Xylene	105

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Client Sample ID: CCV

Lab ID#: 2003242-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 11:00 AM**

Compound	**%Recovery**
Styrene	106
Bromoform	100
1,1,2,2-Tetrachloroethane	94
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	100
1,1-Difluoroethane	104
Vinyl Acetate	108
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 2003242-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 11:26 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	105	70-130
Chloromethane	106	70-130
Vinyl Chloride	106	70-130
Bromomethane	105	70-130
Chloroethane	109	70-130
Freon 11	109	70-130
Freon 113	100	70-130
1,1-Dichloroethene	109	70-130
Acetone	101	70-130
2-Propanol	106	70-130
Carbon Disulfide	103	70-130
3-Chloropropene	107	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	117	70-130
Hexane	112	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	90	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	106	70-130
Carbon Tetrachloride	103	70-130
Benzene	96	70-130
1,2-Dichloroethane	105	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	94	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	106	70-130
4-Methyl-2-pentanone	106	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	103	70-130
2-Hexanone	108	70-130
Dibromochloromethane	103	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130

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Client Sample ID: LCS

Lab ID#: 2003242-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 11:26 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	109	70-130
Bromoform	105	70-130
1,1,2,2-Tetrachloroethane	98	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	111	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	105	70-130
alpha-Chlorotoluene	118	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	104	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	106	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2003242-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 11:53 AM**	

Compound	%Recovery	Method Limits
Freon 12	111	70-130
Freon 114	101	70-130
Chloromethane	106	70-130
Vinyl Chloride	109	70-130
Bromomethane	104	70-130
Chloroethane	113	70-130
Freon 11	108	70-130
Freon 113	100	70-130
1,1-Dichloroethene	106	70-130
Acetone	99	70-130
2-Propanol	111	70-130
Carbon Disulfide	104	70-130
3-Chloropropene	107	70-130
Methylene Chloride	106	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	118	70-130
Hexane	113	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	94	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	103	70-130
Carbon Tetrachloride	106	70-130
Benzene	99	70-130
1,2-Dichloroethane	104	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	108	70-130
4-Methyl-2-pentanone	112	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	107	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	100	70-130
2-Hexanone	109	70-130
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	104	70-130
o-Xylene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 2003242-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17031004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/10/20 11:53 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	109	70-130
Bromoform	103	70-130
1,1,2,2-Tetrachloroethane	96	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	111	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	106	70-130
alpha-Chlorotoluene	117	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	97	70-130
Hexachlorobutadiene	106	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	101	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	102	70-130

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL.: (714) 895-5494 . FAX: (714) 894-7501

2003242

AIR CHAIN OF CUSTODY RECORD

DATE: 03/09/20
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - OU1 VMP Resampling Mar. 2020
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☑ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS
SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☑ EDD
SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)
1	OC_SVE_VMP-16_030920	VMP-16	SV	1L3223	1L	22444	3/9/2020	14:10	-28	3/9/2020	14:16	-5	X
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													

01A

Fed Ex
Custody Seal Intact?
Y N None Temp NA

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	CATL	3/10/20	1036
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

ATTACHMENT G

Data Validation Repots

Data Quality Assessment
Vapor Phase GAC
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

SDG Number	Sample ID	Collection Date	Number of Samples	Analysis Method	QC Reviewed	Data Usability
2001138	OC_SVE_EFF_GAC_010620	01/06/2020	3	TO15	IC, CCB, Holding Times, Sample Receipt Conditions, Surrogates, MB, LCS/LCSD	The TNMOC value reported should not be used as TVOC as it is not the sum of the reported concentrations. No other qualification of sample results was warranted.
	OC_SVE_INF_GAC_010620					
	OC_SVE_MID_GAC_010620					
2002236	OC_SVE_EFF_GAC_020720	02/07/2020	3	TO15	IC, CCB, Holding Times, Sample Receipt Conditions, Surrogates, MB, LCS/LCSD	The TNMOC value reported should not be used as TVOC as it is not the sum of the reported concentrations. No other qualification of sample results was warranted.
	OC_SVE_INF_GAC_020720					
	OC_SVE_MID_GAC_020720					
2003458	OC_SVE_EFF_GAC_031320	03/13/2020	3	TO15	IC, CCB, Holding Times, Sample Receipt Conditions, Surrogates, MB, LCS/LCSD	The TNMOC value reported should not be used as TVOC as it is not the sum of the reported concentrations. No other qualification of sample results was warranted.
	OC_SVE_INF_GAC_031320					
	OC_SVE_MID_GAC_031320					

DATA VALIDATION

FOR

INDOOR AIR QUALITY
OMEGA CHEMICAL SITE
WHITTIER, CALIFORNIA

ORGANIC ANALYSIS DATA
Volatiles in Air

Laboratory Job No.
2001476A
2001476B
L012004

Analyses Performed
By:

Eurofins/Air Toxics, Inc.
Folsom, CA

and

Air Technology Laboratories, Inc.
City of Industry, CA

For:

de maximis, Inc.
1322 Scott Street
Suite 104
San Diego, CA 92106

Data Validation By:

ddms, Inc.
St. Paul, Minnesota 55108

April 23, 2020

1547-3139C/JLR
Omega/1st Qtr. IAQ.docx

EXECUTIVE SUMMARY

The validation of the volatile organics analysis data for 16 air quality samples prepared by Eurofins Air Toxics and one split sample prepared by Air Technology Laboratories from the Omega Chemical Site has been completed by de maximis Data Management Solutions, Inc. (ddms). Full (Stage 4) validation was performed on two samples (**bolded below**), which represents 10% of the total number of samples received and analyzed. A Stage 2B validation was performed on the remaining samples. The data were reported under Laboratory Job Nos. 2001476A, 2001476B and L012004. The following samples were reported:

2001476A

IAQ_B1_011620	IAQ_B1_011620K	IAQ_B2_011620
IAQ_B3_011620	IAQ_MR1_011720	IAQ_SC1_011620
IAQ_SC2_011620	IAQ_SC2_011620K	IAQ_SC3_011620
IAQ_AA3_011620	IAQ_SUN1_011720	IAQ_SUN2_011720

2001476B

IAQ_AA95_011720	**IAQ_TP1_011620**	IAQ_TP3_011620
IAQ_AA1_011620		

L012004

IAQ_TP1_011620K2

Based on the validation effort, the following data qualifiers were applied:

- The results for acetone and chloroform in all samples were qualified as estimated (J, UJ).
- The following sample results were qualified as estimated (J) and presumptively present (N):
  - Chloroform:
    - IAQ_B1_011620K
    - IAQ_B2_011620
    - IAQ_B3_011620
    - IAQ_SC2_011620
    - IAQ_SC2_011620K
    - IAQ_TP1_011620

- Ethylbenzene
  - IAQ_SUN1_011720
  - IAQ_SUN2_011720

All other results were determined to be valid as reported. Brief explanations of the reasons for the actions taken above may be found in the Overall Assessment (Section IV). Details of the validation findings and conclusions based on review of the results for each quality control requirement are provided in the remaining sections of this report.

This validation report should be considered an integral part of the data package. Results, as qualified by the validator and recommended for use, supersede the sample results reported by the laboratory in the originally provided laboratory analysis reports (Form 1s).

INTRODUCTION

Analyses were performed in accordance with USEPA Method TO-15 and Method TO-15 using Selective Ion Monitoring (SIM). The laboratory provided a Level IV data package for review.

ddms' validation was performed, to the extent possible, in conformance with the "Omega Chemical Superfund Site Sampling and Analysis Plan for Remedial Action/Remedial Design October 4, 2010", ddms Standard Operating Procedure ESC-001 'Validation of Volatile Organics in Air Samples by Method TO-15 and TO-17' and the analytical method. Professional judgment was applied as necessary and appropriate.

The data validation process is intended to evaluate data on a technical basis rather than a contract compliance basis for chemical analyses conducted under the referenced methods. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate quality review prior to submission for validation.

During the validation process, laboratory data are verified against all available supporting documentation. Based on the findings of the evaluation, qualifier codes may be added by the data validator. Validated results are, therefore, either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Final validated results are annotated with the following codes as defined by the National Functional Guidelines:

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

JN The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

These codes are recorded on the data summary forms contained in Attachment A.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is unusable. In other words, due to significant quality control problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Rejected values should not appear on data tables because they cannot be relied upon, even as a last resort. Second, no concentration is guaranteed to be accurate even if all associated quality control is acceptable. Strict quality control conformance serves only to increase confidence in reported results; any analytical result will always contain some error.

The data user is also cautioned that the validation effort is based on the raw data printouts as provided by the laboratory. Software manipulation cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

I. Holding Times, Preservation and Sample Integrity

Copies of the applicable chain of custody (COC) records were included in the data packages documenting sample collection dates of January 16 and 17, 2020. The samples were shipped via FedEx and received on January 21 and 22, 2020. All samples were analyzed within the method specified hold time.

II. Documentation

No documentation issues were observed during the validation effort.

The remainder of this report is divided into two sections, one reporting the review effort for each of the parameters and the other the Overall Evaluation, summarizing the reason for the qualifications made to sample results as a result of the validation effort. The table below documents the Quality Control (QC) parameters reviewed. Only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact to sample results are not discussed. Where a result was qualified J+ or J- and J, the J qualifier takes precedence. Where a result was qualified biased high and low for differing data quality excursions, the final qualifier is J with an indeterminate bias.

III. VOCs

Review Element	Acceptable?
GC/MS Instrument Tunes	Y
Calibration (Initial Calibration [IC], IC Verification [ICV], Continuing Calibration [CC])	Y
Laboratory and Field Blanks	Y
Surrogates	Y
Laboratory Control Samples (LCS)	N
Duplicate/Split Samples	N
Matrix Spike (MS)/Matrix Spike Duplicate (MSD)	n/a
Internal Standard Responses	Y
Compound Identification	N
Compound Quantitation	N

n/a-not applicable

Laboratory Control Samples (LCS)

The recoveries of acetone in the LCS and LCS Duplicate (LCSD) reported by the Air Technology Laboratories were high (211 / 193% R). The result for acetone in IAQ_TP1_011620K2 was qualified as estimated (J+) due to the high LCS/LCSD recoveries.

Duplicate/Split Samples

IAQ_B1_011620K and IAQ_SC2_011620K were submitted as field duplicates of IAQ_B1_011620 and IAQ_SC2_011620, respectively. Precision between paired samples was acceptable (<20 RPD or <2x the reporting limit for the analytes detected at concentrations less than 5x the RL).

IAQ_TP1_011620K2 was submitted as a split sample of IAQ_TP1_011620. Precision between paired samples was acceptable (<20 RPD or <2x the reporting limit for the analytes detected at concentrations less than 5x the RL) with the exception of acetone (58.8 RPD) and chloroform (39.1 RPD). The results for acetone and chloroform in all samples were qualified as estimated (J, UJ) due to imprecision in split samples.

Compound Identification

For SIM analysis, ratios must be determined during initial calibration using the integrated areas for the primary and secondary ions and confirmation from their respective mass chromatograms. Identification in samples is made by verifying the ratio of the secondary ion to the primary. Sample results were qualified as estimated (J) and presumptively present (N) because the ion ratios were outside laboratory acceptance limits as detailed below:

- Chloroform:
  - IAQ_B1_011620K
  - IAQ_B2_011620
  - IAQ_B3_011620
  - IAQ_SC2_011620
  - IAQ_SC2_011620K
  - IAQ_TP1_011620
- Ethylbenzene
  - IAQ_SUN1_011720
  - IAQ_SUN2_011720

Compound Quantitation

The results for acetone in the following samples were qualified as estimated (J) because the concentration was outside the calibration range:

- IAQ_SC1_011620
- IAQ_SC2_011620
- IAQ_SC2_011620K
- IAQ_SC3_011620

IV. Overall Assessment

Based on the validation effort, the following qualifiers were applied:

- The result for acetone in IAQ_TP1_011620K2 was qualified as estimated (J+) due to the high LCS/LCSD recoveries.

- The results for acetone and chloroform in all samples were qualified as estimated (J, UJ) due to imprecision in split samples.

- The following sample results were qualified as estimated (J) and presumptively present (N) because the ion ratios were outside laboratory acceptance limits:

    - Chloroform:
        - IAQ_B1_011620K
        - IAQ_B2_011620
        - IAQ_B3_011620
        - IAQ_SC2_011620
        - IAQ_SC2_011620K
        - IAQ_TP1_011620
    - Ethylbenzene
        - IAQ_SUN1_011720
        - IAQ_SUN2_011720

- The results for acetone in IAQ_SC1_011620, IAQ_SC2_011620, IAQ_SC2_011620K and IAQ_SC3_011620 were qualified as estimated (J) because the concentrations were outside the calibration range.

All other results were determined to be valid as reported.

ATTACHMENT A

DATA SUMMARY FORMS
Volatiles in Air
2001476A
2001476B
L012004

Data Summary Form
Omega Chemical
IAQ
(ppbv)

	Field Sample ID	IAQ_AA3_011620		IAQ_B1_011620		IAQ_B1_011620K		IAQ_B2_011620	
	Sample Type	N		N		FD		N	
	Lab Sample ID	2001476A-10A		2001476A-01A		2001476A-02A		2001476A-03A	
RL	Dilution Factor	1.59		1.64		1.68		1.62	
1	Acetone	12	J	17	J	14	J	49	J
0.2	Methylene chloride	0.94		0.33	U	0.34	U	0.32	U
0.02	1,1,1-Trichloroethane (TCA)	0.032	U	0.033	U	0.034	U	0.032	U
0.02	1,1,2,2-Tetrachloroethane	0.032	U	0.033	U	0.034	U	0.032	U
0.02	1,1,2-Trichloroethane	0.032	U	0.033	U	0.034	U	0.032	U
0.02	1,1-Dichloroethane	0.032	U	0.033	U	0.034	U	0.032	U
0.01	1,1-Dichloroethene	0.016	U	0.016	U	0.017	U	0.016	U
0.02	1,2-Dichlorobenzene	0.032	U	0.033	U	0.034	U	0.032	U
0.02	1,2-Dichloroethane	0.032	U	0.033	U	0.034	U	0.032	
0.02	1,4-Dichlorobenzene	0.032	U	0.033	U	0.034	U	0.032	U
0.05	Benzene	0.45		0.43		0.45		0.53	
0.02	Carbon tetrachloride	0.075		0.077		0.073		0.07	
0.02	Chlorobenzene	0.032	U	0.033	U	0.034	U	0.032	U
0.02	Chloroform	0.032	UJ	0.034	J	0.035	J,N	0.037	J,N
0.02	cis-1,2-Dichloroethene	0.032	U	0.033	U	0.034	U	0.032	U
0.02	Ethylbenzene	0.11		0.12		0.12		0.23	
0.02	Freon 11	0.24		0.24		0.24		0.24	
0.02	Freon 113	0.064		0.065		0.065		0.066	
0.02	Freon 12	0.51		0.5		0.51		0.5	
0.04	m,p-Xylene	0.33		0.37		0.37		0.73	
0.1	Methyl Tert-Butyl Ether	0.16	U	0.16	U	0.17	U	0.16	U
0.02	o-Xylene	0.13		0.15		0.15		0.28	
0.02	Tetrachloroethene (PCE)	0.032	U	0.054		0.034	U	0.044	
0.05	Toluene	0.67		0.82		0.85		2.4	
0.1	trans-1,2-Dichloroethene	0.16	U	0.16	U	0.17	U	0.16	U
0.02	trans-1,3-Dichloropropene	0.032	U	0.033	U	0.034	U	0.032	U
0.02	Trichloroethene (TCE)	0.032	U	0.033	U	0.034	U	0.032	U
0.01	Vinyl chloride	0.016	U	0.016	U	0.017	U	0.016	U

Data Summary Form
Omega Chemical
IAQ
(ppbv)

	Field Sample ID	IAQ_B3_011620		IAQ_MR1_011720		IAQ_SC1_011620		IAQ_SC2_011620	
	Sample Type	N		N		N		N	
	Lab Sample ID	2001476A-04A		2001476A-05A		2001476A-06A		2001476A-07A	
RL	Dilution Factor	1.58		1.67		1.65		1.6	
1	Acetone	**19**	**J**	**44**	**J**	**140**	**J**	**260**	**J**
0.2	Methylene chloride	0.32	U	0.33	U	**0.67**		**1**	
0.02	1,1,1-Trichloroethane (TCA)	0.032	U	0.033	U	0.033	U	0.032	U
0.02	1,1,2,2-Tetrachloroethane	0.032	U	0.033	U	0.033	U	0.032	U
0.02	1,1,2-Trichloroethane	0.032	U	0.033	U	0.033	U	0.032	U
0.02	1,1-Dichloroethane	0.032	U	0.033	U	0.033	U	0.032	U
0.01	1,1-Dichloroethene	0.016	U	0.017	U	0.016	U	0.016	U
0.02	1,2-Dichlorobenzene	0.032	U	0.033	U	0.033	U	0.032	U
0.02	1,2-Dichloroethane	0.032	U	0.033	U	0.033	U	**0.031**	**J**
0.02	1,4-Dichlorobenzene	0.032	U	0.033	U	0.033	U	0.032	U
0.05	Benzene	**0.47**		**0.49**		**1.2**		**1.1**	
0.02	Carbon tetrachloride	**0.076**		**0.068**		**0.073**		**0.074**	
0.02	Chlorobenzene	0.032	U	0.033	U	0.033	U	**0.13**	
0.02	Chloroform	**0.032**	**J,N**	0.033	UJ	0.033	UJ	**0.034**	**J,N**
0.02	cis-1,2-Dichloroethene	0.032	U	0.033	U	0.033	U	0.032	U
0.02	Ethylbenzene	**0.17**		**0.16**		**0.51**		**1**	
0.02	Freon 11	**0.24**		**0.24**		**0.24**		**0.24**	
0.02	Freon 113	**0.066**		**0.064**		**0.062**		**0.063**	
0.02	Freon 12	**0.51**		**0.49**		**0.49**		**0.49**	
0.04	m,p-Xylene	**0.53**		**0.56**		**1.8**		**3.7**	
0.1	Methyl Tert-Butyl Ether	0.16	U	0.17	U	0.16	U	0.16	U
0.02	o-Xylene	**0.2**		**0.21**		**0.61**		**1.1**	
0.02	Tetrachloroethene (PCE)	0.032	U	**0.041**		0.033	U	0.032	U
0.05	Toluene	**1.4**		**1.5**		**3.2**		**3.8**	
0.1	trans-1,2-Dichloroethene	0.16	U	0.17	U	0.16	U	0.16	U
0.02	trans-1,3-Dichloropropene	0.032	U	0.033	U	0.033	U	0.032	U
0.02	Trichloroethene (TCE)	0.032	U	0.033	U	0.033	U	0.032	U
0.01	Vinyl chloride	0.016	U	0.017	U	0.016	U	0.016	U

Data Summary Form
Omega Chemical
IAQ
(ppbv)

	Field Sample ID	IAQ_SC2_011620K		IAQ_SC3_011620		IAQ_SUN1_011720		IAQ_SUN2_011720	
	Sample Type	FD		N		N		N	
	Lab Sample ID	2001476A-08A		2001476A-09A		2001476A-11A		2001476A-12A	
RL	Dilution Factor	1.58		1.63		1.59		1.67	
1	Acetone	**260**	**J**	**160**	**J**	**7.9**	**J**	**7.4**	**J**
0.2	Methylene chloride	**0.71**		**0.68**		0.32	U	0.33	U
0.02	1,1,1-Trichloroethane (TCA)	0.032	U	0.033	U	0.032	U	0.033	U
0.02	1,1,2,2-Tetrachloroethane	0.032	U	0.033	U	0.032	U	0.033	U
0.02	1,1,2-Trichloroethane	0.032	U	0.033	U	0.032	U	0.033	U
0.02	1,1-Dichloroethane	0.032	U	0.033	U	0.032	U	0.033	U
0.01	1,1-Dichloroethene	0.016	U	0.016	U	0.016	U	0.017	U
0.02	1,2-Dichlorobenzene	0.032	U	0.033	U	0.032	U	0.033	U
0.02	1,2-Dichloroethane	0.032	U	0.033	U	0.032	U	0.033	U
0.02	1,4-Dichlorobenzene	0.032	U	0.033	U	0.032	U	0.033	U
0.05	Benzene	**1.2**		**1.1**		**0.29**		**0.24**	
0.02	Carbon tetrachloride	**0.088**		**0.074**		**0.063**		**0.076**	
0.02	Chlorobenzene	**0.16**		**0.036**		0.032	U	0.033	U
0.02	Chloroform	**0.032**	**J,N**	**0.036**	**J**	0.032	UJ	0.033	UJ
0.02	cis-1,2-Dichloroethene	0.032	U	0.033	U	0.032	U	0.033	U
0.02	Ethylbenzene	**1.1**		**0.59**		**0.055**	**J,N**	**0.052**	**J,N**
0.02	Freon 11	**0.24**		**0.24**		**0.23**		**0.24**	
0.02	Freon 113	**0.064**		**0.063**		**0.063**		**0.064**	
0.02	Freon 12	**0.5**		**0.5**		**0.49**		**0.5**	
0.04	m,p-Xylene	**4**		**2.1**		**0.18**		**0.17**	
0.1	Methyl Tert-Butyl Ether	0.16	U	0.16	U	0.16	U	0.17	U
0.02	o-Xylene	**1.2**		**0.69**		**0.072**		**0.067**	
0.02	Tetrachloroethene (PCE)	0.032	U	0.033	U	**0.069**		0.033	U
0.05	Toluene	**3.1**		**2.9**		**0.44**		**0.39**	
0.1	trans-1,2-Dichloroethene	0.16	U	0.16	U	0.16	U	0.17	U
0.02	trans-1,3-Dichloropropene	0.032	U	0.033	U	0.032	U	0.033	U
0.02	Trichloroethene (TCE)	0.032	U	0.033	U	0.032	U	0.033	U
0.01	Vinyl chloride	0.016	U	0.016	U	0.016	U	0.017	U

Data Summary Form
Omega Chemical
IAQ
(ppbv)

	Field Sample ID	IAQ_AA1_011620		IAQ_AA95_011720		IAQ_TP1_011620		IAQ_TP3_011620	
	Sample Type	N		N		N		N	
	Lab Sample ID	2001476B-16A		2001476B-13A		2001476B-14A		2001476B-15A	
RL	Dilution Factor	1.63		1.49		1.58		7.85	
1	Acetone	16	J	3.6	J	44	J	73	J
0.2	Methylene chloride	0.33	U	0.3	U	1.4		10	
0.02	1,1,1-Trichloroethane (TCA)	0.033	U	0.03	U	0.032	U	0.16	U
0.02	1,1,2,2-Tetrachloroethane	0.033	U	0.03	U	0.032	U	0.16	U
0.02	1,1,2-Trichloroethane	0.033	U	0.03	U	0.032	U	0.16	U
0.02	1,1-Dichloroethane	0.033	U	0.03	U	0.032	U	0.16	U
0.01	1,1-Dichloroethene	0.016	U	0.015	U	0.016	U	0.078	U
0.02	1,2-Dichlorobenzene	0.033	U	0.03	U	0.032	U	0.16	U
0.02	1,2-Dichloroethane	0.033	U	0.03	U	0.034		0.16	U
0.02	1,4-Dichlorobenzene	0.033	U	0.03	U	0.032	U	0.16	U
0.05	Benzene	0.35		0.24		2.2		15	
0.02	Carbon tetrachloride	0.073		0.079		0.073		0.16	U
0.02	Chlorobenzene	0.033	U	0.03	U	0.032	U	0.16	U
0.02	Chloroform	0.033	UJ	0.03	UJ	0.055	J,N	0.16	UJ
0.02	cis-1,2-Dichloroethene	0.033	U	0.03	U	0.032	U	0.16	U
0.02	Ethylbenzene	0.11		0.064		2.2		16	
0.02	Freon 11	0.23		0.24		0.24		0.24	
0.02	Freon 113	0.063		0.064		0.06		0.16	U
0.02	Freon 12	0.5		0.5		0.48		0.49	
0.04	m,p-Xylene	0.32		0.21		8.6		63	
0.1	Methyl Tert-Butyl Ether	0.16	U	0.15	U	0.16	U	0.78	U
0.02	o-Xylene	0.13		0.078		3.3		24	
0.02	Tetrachloroethene (PCE)	0.033	U	0.03	U	0.078		0.7	
0.05	Toluene	1.1		0.42		13		100	
0.1	trans-1,2-Dichloroethene	0.16	U	0.15	U	0.16	U	0.78	U
0.02	trans-1,3-Dichloropropene	0.033	U	0.03	U	0.032	U	0.16	U
0.02	Trichloroethene (TCE)	0.033	U	0.03	U	0.032	U	0.16	U
0.01	Vinyl chloride	0.016	U	0.015	U	0.016	U	0.078	U

Data Summary Form
Omega Chemical
IAQ
(ppbv)

	Field Sample ID	IAQ_TP1_011620K2	
	Sample Type	KD	
	Lab Sample ID	L012004-01	
RL	Dilution Factor	1	
0.02	1,1,1-Trichloroethane (TCA)	0.01	U
0.01	1,1,2,2-Tetrachloroethane	0.02	U
0.01	1,1,2-Trichloroethane	0.01	U
0.01	1,1-Dichloroethane	0.01	U
0.005	1,1-Dichloroethene	0.005	U
0.02	1,2-Dichlorobenzene	0.02	U
0.02	1,2-Dichloroethane	0.01	U
0.02	1,4-Dichlorobenzene	0.026	
0.5	Acetone	24	J
0.05	Benzene	1.9	
0.01	Carbon tetrachloride	0.073	
0.02	Chlorobenzene	0.02	U
0.01	Chloroform	0.037	J,N
0.01	cis-1,2-Dichloroethene	0.01	U
0.02	Ethylbenzene	2.3	
0.02	Freon 11	0.21	
0.02	Freon 113	0.065	
0.01	Freon 12	0.42	
0.02	m,p-Xylene	8.2	
0.1	Methyl Tert-Butyl Ether	0.1	U
0.05	Methylene chloride	0.93	
0.02	o-Xylene	3.9	
0.01	Tetrachloroethene (PCE)	0.071	
0.02	Toluene	12	
0.01	trans-1,2-Dichloroethene	0.01	U
0.01	trans-1,3-Dichloropropene	0.01	U
0.01	Trichloroethene (TCE)	0.01	U
0.005	Vinyl chloride	0.005	U

DATA VALIDATION

FOR

SOIL VAPOR EXTRACTION SYSTEM
OMEGA CHEMICAL SITE
WHITTIER, CALIFORNIA

ORGANIC ANALYSIS DATA
Volatiles in Air
Laboratory Job Nos.

2001311
2002782
2003029
2003116
2003242

Analyses Performed
By:

Eurofins Air Toxics
Folsom, CA

For:

de maximis, inc.
1322 Scott Street
Suite 104
San Diego, CA 92106

Data Validation By:

ddms, inc.
St. Paul, Minnesota 55108

April 16, 2020

1547-3139-1/jlr
Omega\Q1VMP_1908512_1908541.docx

EXECUTIVE SUMMARY

Validation of the volatile organics analysis data prepared by Eurofins Air Toxics for 41 SVE air samples from the Omega Chemical Site has been completed by de maximis Data Management Solutions, Inc. (ddms). Full (Stage 4) validation was performed on 5 samples (**bolded below**), which represents 10% of the total number of samples received and analyzed by Eurofins Air Toxics. A Stage 2B validation was performed on the remaining samples. The data were reported under Laboratory Job Nos. 2001311, 2002782, 2003029, 2003116, and 2003242. The following samples were reported.

SDG 2001311

OC_SVE_VMP-94-24_011320
OC_SVE_VMP-94-60_011320K
OC_SVE_VMP-95-61_011320
OC_SVE_VMP-31-24_011320
OC_SVE_VMP-32-24_011320
OC_SVE_VMP-20_011320
OC_SVE_VMP-26_011320
OC_SVE_VMP-18_011420
OC_SVE_VMP-93-60_011420
OC_SVE_VMP-12_011420
OC_SVE_VMP-15_011420K
OC_SVE_VMP-16_011420
OC_SVE_VMP-22_011420
OC_SVE_VMP-94-60_011320
OC_SVE_VMP-43-24_011320
OC_SVE_VMP-24_011320
OC_SVE_VMP-31-70_011320
OC_SVE_VMP-32-60_011320
OC_SVE_VMP-21_011320
OC_SVE_VMP-27_011320
OC_SVE_VMP-18_011420K
OC_SVE_VMP-11_011420
OC_SVE_VMP-15_011420
OC_SVE_VMP-17_011420
OC_SVE_VMP-92-69_011420
OC_SVE_VMP-5_011420

SDG 2002782

OC_SVE_VMP-94-60_022820 (resample)
OC_SVE_VMP-95-60_022820 (resample)
OC_SVE_VMP-16_022820 (resample)
OC_SVE_VMP-92-70_022820 (resample)
OC_SVE_VMP-21_022820 (resample)

SDG 2003029

OC_SVE_VMP-27_030220 (resample)
OC_SVE_VMP-27_030220K
OC_SVE_VMP-32-24_030220 (resample)
OC_SVE_VMP-92-70_030220 (2nd resample)
OC_SVE_VMP-31-24_030220 (resample)
OC_SVE_VMP-22_030220 (resample)

SDG 2003116

OC_SVE_VMP-26_030420 (resample)

OC_SVE_VMP-20_030420 (resample)
OC_SVE_VMP-32-24_030420N

SDG 2003242

OC_SVE_VMP-16_030920 (2nd resample)

Based on the validation effort, sample results were qualified as follows:

- Based on professional judgment, the results for all target compounds in the following samples were rejected (R) due to significant leaks during sample collection:
  - OC_SVE_VMP-16_011420
  - OC_SVE_VMP-22_011420
  - OC_SVE_VMP-16_022820
  - OC_SVE_VMP-92-69_011420

- Results for all target compounds in the following samples were qualified as tentatively present and/or estimated (NJ, UJ) based on detection of the leak tracer at concentrations greater than ten times the reporting limit (RL) but less than 1000 ppbv. There is a potential for dilution of the sample with ambient air and for introduction of artifacts to the collected samples.

  - OC_SVE_VMP-26_011320
  - OC_SVE_VMP-27_011320
  - OC_SVE_VMP-5_011420
  - OC_SVE_VMP-94-60_011320
  - OC_SVE_VMP-94-60_011320K
  - OC_SVE_VMP-95-61_011320
  - OC_SVE_VMP-27_030220K
  - OC_SVE_VMP-20_011320
  - OC_SVE_VMP-21_011320
  - OC_SVE_VMP-27_030220
  - OC_SVE_VMP-31-24_011320
  - OC_SVE_VMP-32-24_011320
  - OC_SVE_VMP-26_030420
  - OC_SVE_VMP-92-69_011420

- Results for all non-detected compounds were qualified as estimated (UJ) and results for detected compounds <10X the RL were qualified as tentatively present and estimated (NJ) due to leaks indicated during sample collection of samples detailed in the 'Sample Integrity' section.

- The results for tetrachloroethene and 2-butanone in all samples in SDG 2001311 except OC_SVE_VMP-16_011420, OC_SVE_VMP-22_011420, and

OC_SVE_VMP-92-69_011420 were qualified as estimated (J, UJ) due to imprecision in field duplicate samples.

- The result for 2-butanone in OC_SVE_VMP-5_011420 was qualified as estimated (J) because the concentration exceeded the upper limit of the instrument calibration range.

- Where target compounds were detected, the results for total non-methane organic carbon (TNMOC) in all samples were qualified as estimated (J+) because surrogate and internal standard compound peak area counts were inappropriately included in the equation used to calculate these results.

All other results were determined to be valid as reported.

Documentation issues are discussed in Section II.

This validation report should be considered an integral part of the data package. Results, as qualified by the validator and recommended for use, supersede the sample results reported by the laboratory in the originally provided laboratory analysis reports (Form 1s).

INTRODUCTION

Analyses were performed in accordance with USEPA TO-15. The laboratory provided "CLP-type" data packages for review of the samples receiving full data validation.

The data validation and review were performed, to the extent possible, in conformance with the “Omega Chemical Superfund Site Sampling and Analysis Plan for Remedial Action/Remedial Design October 4, 2010” and ddms’ Standard Operating Procedure: ‘Validation of Volatile Organics in Air Samples by Method TO-15 and TO-17 (ECS-SOP-001)’. Professional judgment was applied as necessary and appropriate.

The data validation process is intended to evaluate data on a technical basis rather than a contract compliance basis for chemical analyses conducted under the referenced methods. An initial assumption is that the data package is presented in accordance with the CLP requirements (or "CLP-like," as in this case). It is also assumed that the data package represents the best efforts of the laboratory and has already been subjected to sufficient quality review prior to submission for validation.

During the validation process, laboratory data are verified against all available supporting documentation. Based on the findings of the evaluation, qualifier codes may be added by the data validator. Validated results are, therefore, either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Final validated results are annotated with the following codes as defined by the USEPA National Functional Guidelines:

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

These codes are recorded on the Data Summary Forms contained in Attachment A to indicate qualifications placed on the results based on the data review.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is unusable. In other words, due to significant quality control problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Rejected values should not appear on data tables because they cannot be relied upon, even as a last resort. Second, no concentration is guaranteed to be accurate even if all associated quality control is acceptable. Strict quality control conformance serves only to increase confidence in reported results; any analytical result will always contain some error.

The data user is also cautioned that the validation effort is based on the raw data printouts as provided by the laboratory. Software manipulation cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

I. Holding Times, Preservation and Sample Integrity

Copies of the applicable chain of custody (COC) records were included in the data packages documenting sample collection dates of January 13, 14, February 28 and March 2, 4 and 9, 2020. The samples were received at Eurofins Air Toxics on January 16, February 29 and March 3, 5 and 10, 2020. All samples were analyzed within the method specified hold time. See discussion below regarding sample integrity.

II. Documentation

No documentation issues were observed during the validation effort.

The table below documents the Quality Control (QC) elements reviewed. Only those QC excursions resulting in qualified data are discussed in the remainder of this report. QC excursions having no impact to sample results are not discussed. Where a result was qualified J+ or J- and J, the J qualifier takes precedence. Where a result was qualified biased high and low for differing QC excursions, the final qualifier is J, with an indeterminate bias. An R qualifier (rejected) takes precedence over any other qualifier.

III. VOCs

Review Element	Acceptable?
Sample Integrity	N
GC/MS Instrument Tunes	Y
Calibration (Initial Calibration [IC], IC Verification [ICV], Continuing Calibration [CC])	Y
Internal Standard Responses	Y
Laboratory and Field Blanks	Y
Surrogates	Y
Laboratory Control Samples (LCS)/ LCS Duplicates (LCSD)	Y
Field Duplicates	N
Matrix Spike (MS)/Matrix Spike Duplicate (MSD)	n/a
Compound Identification	Y
Compound Quantitation	N
Overall Evaluation	N

n/a-not applicable

A. Sample Integrity

According to the documentation provided, all samples submitted were subjected to leak testing during the sample collection process, using 1,1-difluoroethane (1,1-DFA) as an indicator, or tracer, compound. The following table summarizes the concentrations of 1,1-DFA in the samples.

Sample	1,1-DFA conc (ppbv)	Comments
SDG 2001311		
OC_SVE_VMP-15_011420	5.5	
OC_SVE_VMP-15_011420K	5.5	
OC_SVE_VMP-16_011420	3200000	Resampled in SDGs 2002782 and 2003242
OC_SVE_VMP-17_011420	23	
OC_SVE_VMP-20_011320	840	Resampled in SDG 2003116
OC_SVE_VMP-21_011320	990	Resampled in SDG 2002782
OC_SVE_VMP-22_011420	99000	Resampled in SDG 2003029
OC_SVE_VMP-26_011320	76	Resampled in SDG 2003116 but 1,1-DFA higher in resample
OC_SVE_VMP-27_011320	990	Resampled in SDG 2003029
OC_SVE_VMP-31-24_011320	86	Resampled in SDG 2003029
OC_SVE_VMP-32-24_011320	63	Resampled in SDG 2003029
OC_SVE_VMP-5_011420	400	
OC_SVE_VMP-92-69_011420	1100	Resampled in SDGs 2002782 and 2003029
OC_SVE_VMP-93-60_011420	34	
OC_SVE_VMP-94-60_011320	260	Resampled in SDG 2002782
OC_SVE_VMP-94-60_011320K	350	
OC_SVE_VMP-95-61_011320	120	Resampled in SDG 2002782
OC_SVE_VMP-11_011420	ND	
OC_SVE_VMP-12_011420	ND	
OC_SVE_VMP-18_011420	ND	
OC_SVE_VMP-18_011420K	ND	
OC_SVE_VMP-24_011320	ND	
OC_SVE_VMP-31-70_011320	ND	
OC_SVE_VMP-32-60_011320	ND	
OC_SVE_VMP-43-24_011320	ND	
OC_SVE_VMP-94-24_011320	ND	
SDG 2002782		
OC_SVE_VMP-95-60_022820 (resample)	11	
OC_SVE_VMP-16_022820 (resample)	490000	Resampled again in SDG 2003242

Sample	1,1-DFA conc (ppbv)	Comments
OC_SVE_VMP-92-70_022820 (resample)	7.1	Resampled again in SDG 2003029
OC_SVE_VMP-21_022820 (resample)	4.4	
OC_SVE_VMP-94-60_022820 (resample)	ND	
SDG 2003029		
OC_SVE_VMP-27_030220 (resample)	190	1,1-DFA lower
OC_SVE_VMP-27_030220K	170	
OC_SVE_VMP-22_030220 (resample)	9.2	
OC_SVE_VMP-92-70_030220 (2nd resample)	25	
OC_SVE_VMP-31-24_030220 (resample)	ND	
OC_SVE_VMP-32-24_030220 (resample)	ND	
SDG 2003116		
OC_SVE_VMP-26_030420 (resample)	350	1,1-DFA lower in original sample
OC_SVE_VMP-20_030420 (resample)	14	
OC_SVE_VMP-32-24_030220N	ND	
SDG 2003242		
OC_SVE_VMP-16_030920 (2nd resample)	ND	

Guidance on the sampling process[1] recommends that concentrations of the tracer compound that exceed ten times the target compound RLs should be considered significant leaks in the sampling apparatus and trigger the need for corrective action. Results for all target compounds in the following samples were qualified as tentatively present and/or estimated (NJ, UJ) based on detection of the leak tracer at concentrations greater than ten times the RL but less than 1,000 ppbv. There is a potential for dilution of the sample with ambient air and for introduction of artifacts to the collected samples.

SDG 2001311
OC_SVE_VMP-26_011320
OC_SVE_VMP-5_011420
OC_SVE_VMP-94-60_011320
OC_SVE_VMP-94-60_011320K
OC_SVE_VMP-95-61_011320
OC_SVE_VMP-20_011320
OC_SVE_VMP-21_011320
OC_SVE_VMP-27_011320

1 Advisory Active Soil Gas Investigations, California Protection Agency Department of Toxic Substances Control Los Angeles Regional Water Quality Control Board San Francisco Regional Water Quality Control Board, July 2015.

OC_SVE_VMP-31-24_011320
OC_SVE_VMP-32-24_011320
SDG 2003029
OC_SVE_VMP-27_030220
OC_SVE_VMP-27_030220K
SDG 2003116
OC_SVE_VMP-26_030420

Based on professional judgment, the results for all target compounds in the following samples were rejected (R) due to significant leaks (1,1-DFA >1,000 ppbv) during the sample collection:

SDG 2001311
OC_SVE_VMP-16_011420
OC_SVE_VMP-22_011420
OC_SVE_VMP-92-69_011420
SDG 2002782
OC_SVE_VMP-16_022820

Detections of 1,1-DFA in the samples listed below were less than ten times the RLs and did not represent significant leaks in the collection system. Results for all non-detects were qualified as estimated (UJ). Results for detected compounds <10X the RL were qualified as tentatively present and estimated (NJ) and detected compounds >10X the RL were not qualified because the effect of the low level leak is insignificant for the high concentrations detected. Affected samples are detailed below:

Sample	Analytes <10xRL	Analytes >10xRL	Qualifier applied
SDG 2001311			
OC_SVE_VMP-15_011420	2-Butanone		NJ
	Tetrachloroethene		
OC_SVE_VMP-15_011420K	2-Butanone		NJ
	Tetrachloroethene		
	Acetone		
OC_SVE_VMP-17_011420	Acetone		NJ
	2-Butanone		
	Tetrachloroethene		
OC_SVE_VMP-93-60_011420	Chloroform		NJ
	Freon 113		
	Trichloroethene		
		Tetrachloroethene	none
SDG 2002782			
OC_SVE_VMP-21_022820	Tetrachloroethene		NJ
	Trichloroethene		
OC_SVE_VMP-92-70_022820	Chloroform		

	1,1,1-Trichloroethane		
		Tetrachloroethene	none
		1,1-Dichloroethene	
		Freon 11	
		Freon 113	
		Trichloroethene	
OC_SVE_VMP-95-60_022820	Trichloroethene		NJ
		Tetrachloroethene	None
SDG 2003029			
OC_SVE_VMP-22_030220	Tetrachloroethene		NJ
OC_SVE_VMP-92-70_030220	Chloroform		NJ
	Freon 11		
		Tetrachloroethene	None
		1,1-Dichloroethene	
		Trichloroethene	
		Freon 113	
SDG 2003116			
OC_SVE_VMP-20_030420	Tetrachloroethene		NJ

B. Duplicate Samples

Four sets of field duplicates were submitted with the samples:

- OC_SVE_VMP-94-60_011320 / OC_SVE_VMP-94-60_011320K
- OC_SVE_VMP-18_011420 / OC_SVE_VMP-18_011420K
- OC_SVE_VMP-15_011420 / OC_SVE_VMP-15_011420K
- OC_SVE_VMP-27_030220 / OC_SVE_VMP-27_030220K

Precision between the remaining paired samples was acceptable (<20 RPD for compounds detected at concentrations >5x the RL or difference <2x the RL for analytes detected at concentrations less than 5x the RL), except as summarized below.

Compound	Conc. (ppbv)	Conc. (ppbv)	RPD	Affected Samples	Qualifiers Applied
Field Duplicate: OC_SVE_VMP-18_011420 / OC_SVE_VMP-18_011420K					
Tetrachloroethene	6.9	5.5	22.6	All samples in SDG 2001311 except OC_SVE_VMP-16_011420, OC_SVE_VMP-22_011420, and OC_SVE_VMP-92-69_011420	J, UJ
Field Duplicate: OC_SVE_VMP-15_011420 / OC_SVE_VMP-15_011420K					
2-Butanone	12	38	104	All samples in SDG 2001311 except OC_SVE_VMP-	J, UJ

				16_011420, OC_SVE_VMP-22_011420, and OC_SVE_VMP-92-69_011420	
Field Duplicate: OC_SVE_VMP-94-60_011320 / OC_SVE_VMP-94-60_011320K					
2-Butanone	320	230	32.7	All samples in SDG 2001311 except OC_SVE_VMP-16_011420, OC_SVE_VMP-22_011420, and OC_SVE_VMP-92-69_011420	J, UJ

C. Compound Quantitation

The result for 2-butanone in OC_SVE_VMP-5_011420 was qualified as estimated (J) because the concentration exceeded the upper limit of the instrument calibration range.

A result for TNMOC (total non-methane organic carbon) was reported for each sample. The total of all peak area counts in a sample is one of the variables included in the equation used to calculate the TNMOC result. The laboratory included area counts for the surrogate and internal standard compound peaks in the total area count for each sample. Since the surrogates and internal standards are added by the laboratory, they are not true components, and including the surrogate and internal standard compound peak area counts overestimates the total area count. Where target compounds were detected, the results for TNMOC in all samples were qualified as estimated (J+) because surrogate and internal standard compound peak area counts were inappropriately included in the equation used to calculate these results. The validator does not recommend the use of the TNMOC results as these are not reliable values.

ATTACHMENT A

DATA SUMMARY FORMS
Volatiles in Air
Laboratory Job Nos.
2001311
2002782
2003029
2003116
2003242

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-11_011420		OC_SVE_VMP-12_011420		OC_SVE_VMP-15_011420	
	Sample Type	N		N		N	
	Lab Sample ID	2001311-18A		2001311-19A		2001311-20A	
RL	Dilution Factor	2.29		2.16		2.33	
5	1,1,1-Trichloroethane (TCA)	1.1	U	1.1	U	1.2	UJ
5	1,1,2,2-Tetrachloroethane	1.1	U	1.1	U	1.2	UJ
5	1,1,2-Trichloroethane	1.1	U	1.1	U	1.2	UJ
5	1,1-Dichloroethane	1.1	U	1.1	U	1.2	UJ
5	1,1-Dichloroethene	1.1	U	1.1	U	1.2	UJ
20	1,1-Difluoroethane	4.6	U	4.3	U	**5.5**	
20	1,2,4-Trichlorobenzene	4.6	U	4.3	U	4.7	UJ
5	1,2,4-Trimethylbenzene	1.1	U	1.1	U	1.2	UJ
5	1,2-Dibromoethane (EDB)	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichlorobenzene	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichloroethane	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichloropropane	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichlorotetrafluoroethane	1.1	U	1.1	U	1.2	UJ
5	1,3,5-Trimethylbenzene	1.1	U	1.1	U	1.2	UJ
5	1,3-Dichlorobenzene	1.1	U	1.1	U	1.2	UJ
5	1,4-Dichlorobenzene	1.1	U	1.1	U	1.2	UJ
20	1,4-Dioxane	4.6	U	4.3	U	4.7	UJ
20	2-Hexanone	4.6	U	4.3	U	4.7	UJ
20	3-Chloropropene	4.6	U	4.3	U	4.7	UJ
5	4-Ethyltoluene	1.1	U	1.1	U	1.2	UJ
20	Acetone	11	U	11	U	12	UJ
5	Benzene	1.1	U	1.1	U	1.2	UJ
5	Benzyl chloride	1.1	U	1.1	U	1.2	UJ
5	Bromodichloromethane	1.1	U	1.1	U	1.2	UJ
5	Bromoform	1.1	U	1.1	U	1.2	UJ
20	Bromomethane	11	U	11	U	12	UJ
20	Carbon disulfide	4.6	U	4.3	U	4.7	UJ
5	Carbon tetrachloride	1.1	U	1.1	U	1.2	UJ
5	Chlorobenzene	1.1	U	1.1	U	1.2	UJ
20	Chloroethane	4.6	U	4.3	U	4.7	UJ
5	Chloroform	1.1	U	1.1	U	1.2	UJ
20	Chloromethane	11	U	11	U	12	UJ
5	cis-1,2-Dichloroethene	1.1	U	1.1	U	1.2	UJ
5	cis-1,3-Dichloropropene	1.1	U	1.1	U	1.2	UJ
5	Dibromochloromethane	1.1	U	1.1	U	1.2	UJ
5	Ethylbenzene	1.1	U	1.1	U	1.2	UJ
5	Freon 11	1.1	U	1.1	U	1.2	UJ
5	Freon 113	1.1	U	1.1	U	1.2	UJ
5	Freon 12	1.1	U	1.1	U	1.2	UJ
20	Hexachlorobutadiene	4.6	U	4.3	U	4.7	UJ
5	Hexane (N-Hexane)	1.1	U	1.1	U	1.2	UJ
20	Isopropyl Alcohol (Isopropanol)	4.6	U	4.3	U	4.7	UJ
5	m,p-Xylene	1.1	U	1.1	U	1.2	UJ
20	Methyl ethyl ketone	4.6	UJ	**14**	**J**	**12**	**J,N**
5	Methyl isobutyl ketone	1.1	U	1.1	U	1.2	UJ
5	Methyl Tert-Butyl Ether	4.6	U	4.3	U	4.7	UJ
20	Methylene chloride	11	U	11	U	12	UJ
5	o-Xylene	1.1	U	1.1	U	1.2	UJ
5	Styrene	1.1	U	1.1	U	1.2	UJ
5	Tetrachloroethene (PCE)	**93**	**J**	**6.9**	**J**	**7.5**	**J,N**
100	TNMOC ref. to Heptane (MW=100)	**210**	**J+**	**130**	**J+**	**70**	**J+**
5	Toluene	1.1	U	1.1	U	1.2	UJ
5	trans-1,2-Dichloroethene	1.1	U	1.1	U	1.2	UJ
5	trans-1,3-Dichloropropene	1.1	U	1.1	U	1.2	UJ
5	Trichloroethene (TCE)	**4.5**		1.1	U	1.2	UJ
20	Vinyl acetate	4.6	U	4.3	U	4.7	UJ
5	Vinyl chloride	1.1	U	1.1	U	1.2	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-15_011420K		OC_SVE_VMP-16_011420		OC_SVE_VMP-17_011420	
	Sample Type	FD		N		N	
	Lab Sample ID	2001311-21A		2001311-23A		2001311-22A	
RL	Dilution Factor	2.47		59.4		2.33	
5	1,1,1-Trichloroethane (TCA)	1.2	UJ	300	R	1.2	UJ
5	1,1,2,2-Tetrachloroethane	1.2	UJ	300	R	1.2	UJ
5	1,1,2-Trichloroethane	1.2	UJ	300	R	1.2	UJ
5	1,1-Dichloroethane	1.2	UJ	300	R	1.2	UJ
5	1,1-Dichloroethene	1.2	UJ	300	R	1.2	UJ
20	1,1-Difluoroethane	**5.5**		**3200000**	E	**23**	
20	1,2,4-Trichlorobenzene	4.9	UJ	1200	R	4.7	UJ
5	1,2,4-Trimethylbenzene	1.2	UJ	300	R	1.2	UJ
5	1,2-Dibromoethane (EDB)	1.2	UJ	300	R	1.2	UJ
5	1,2-Dichlorobenzene	1.2	UJ	300	R	1.2	UJ
5	1,2-Dichloroethane	1.2	UJ	300	R	1.2	UJ
5	1,2-Dichloropropane	1.2	UJ	300	R	1.2	UJ
5	1,2-Dichlorotetrafluoroethane	1.2	UJ	300	R	1.2	UJ
5	1,3,5-Trimethylbenzene	1.2	UJ	300	R	1.2	UJ
5	1,3-Dichlorobenzene	1.2	UJ	300	R	1.2	UJ
5	1,4-Dichlorobenzene	1.2	UJ	300	R	1.2	UJ
20	1,4-Dioxane	4.9	UJ	1200	R	4.7	UJ
20	2-Hexanone	4.9	UJ	1200	R	4.7	UJ
20	3-Chloropropene	4.9	UJ	1200	R	4.7	UJ
5	4-Ethyltoluene	1.2	UJ	300	R	1.2	UJ
20	Acetone	**30**	J,N	1200	R	**17**	J,N
5	Benzene	1.2	UJ	300	R	1.2	UJ
5	Benzyl chloride	1.2	UJ	300	R	1.2	UJ
5	Bromodichloromethane	1.2	UJ	300	R	1.2	UJ
5	Bromoform	1.2	UJ	300	R	1.2	UJ
20	Bromomethane	12	UJ	1200	R	12	UJ
20	Carbon disulfide	4.9	UJ	1200	R	4.7	UJ
5	Carbon tetrachloride	1.2	UJ	300	R	1.2	UJ
5	Chlorobenzene	1.2	UJ	300	R	1.2	UJ
20	Chloroethane	4.9	UJ	1200	R	4.7	UJ
5	Chloroform	1.2	UJ	300	R	1.2	UJ
20	Chloromethane	12	UJ	1200	R	12	UJ
5	cis-1,2-Dichloroethene	1.2	UJ	300	R	1.2	UJ
5	cis-1,3-Dichloropropene	1.2	UJ	300	R	1.2	UJ
5	Dibromochloromethane	1.2	UJ	300	R	1.2	UJ
5	Ethylbenzene	1.2	UJ	300	R	1.2	UJ
5	Freon 11	1.2	UJ	300	R	1.2	UJ
5	Freon 113	1.2	UJ	300	R	1.2	UJ
5	Freon 12	1.2	UJ	300	R	1.2	UJ
20	Hexachlorobutadiene	4.9	UJ	1200	R	4.7	UJ
5	Hexane (N-Hexane)	1.2	UJ	300	R	1.2	UJ
20	Isopropyl Alcohol (Isopropanol)	4.9	UJ	1200	R	4.7	UJ
5	m,p-Xylene	1.2	UJ	300	R	1.2	UJ
20	Methyl ethyl ketone	**38**	J,N	1200	R	**20**	J,N
5	Methyl isobutyl ketone	1.2	UJ	300	R	1.2	UJ
5	Methyl Tert-Butyl Ether	4.9	UJ	300	R	4.7	UJ
20	Methylene chloride	12	UJ	1200	R	12	UJ
5	o-Xylene	1.2	UJ	300	R	1.2	UJ
5	Styrene	1.2	UJ	300	R	1.2	UJ
5	Tetrachloroethene (PCE)	**7.3**	J,N	300	R	**2.4**	J,N
100	TNMOC ref. to Heptane (MW=100)	**120**	J+	5900	R	**85**	J+
5	Toluene	1.2	UJ	300	R	1.2	UJ
5	trans-1,2-Dichloroethene	1.2	UJ	300	R	1.2	UJ
5	trans-1,3-Dichloropropene	1.2	UJ	300	R	1.2	UJ
5	Trichloroethene (TCE)	1.2	UJ	300	R	1.2	UJ
20	Vinyl acetate	4.9	UJ	1200	R	4.7	UJ
5	Vinyl chloride	1.2	UJ	300	R	1.2	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-18_011420		OC_SVE_VMP-18_011420K		OC_SVE_VMP-20_011320	
	Sample Type	N		FD		N	
	Lab Sample ID	2001311-15A		2001311-16A		2001311-11A	
RL	Dilution Factor	2.2		2.2		2.42	
5	1,1,1-Trichloroethane (TCA)	1.1	U	1.1	U	1.2	UJ
5	1,1,2,2-Tetrachloroethane	1.1	U	1.1	U	1.2	UJ
5	1,1,2-Trichloroethane	1.1	U	1.1	U	1.2	UJ
5	1,1-Dichloroethane	1.1	U	1.1	U	1.2	UJ
5	1,1-Dichloroethene	1.1	U	1.1	U	1.2	UJ
20	1,1-Difluoroethane	4.4	U	4.4	U	**840**	E
20	1,2,4-Trichlorobenzene	4.4	U	4.4	U	4.8	UJ
5	1,2,4-Trimethylbenzene	1.1	U	1.1	U	1.2	UJ
5	1,2-Dibromoethane (EDB)	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichlorobenzene	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichloroethane	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichloropropane	1.1	U	1.1	U	1.2	UJ
5	1,2-Dichlorotetrafluoroethane	1.1	U	1.1	U	1.2	UJ
5	1,3,5-Trimethylbenzene	1.1	U	1.1	U	1.2	UJ
5	1,3-Dichlorobenzene	1.1	U	1.1	U	1.2	UJ
5	1,4-Dichlorobenzene	1.1	U	1.1	U	1.2	UJ
20	1,4-Dioxane	4.4	U	4.4	U	4.8	UJ
20	2-Hexanone	4.4	U	4.4	U	4.8	UJ
20	3-Chloropropene	4.4	U	4.4	U	4.8	UJ
5	4-Ethyltoluene	1.1	U	1.1	U	1.2	UJ
20	Acetone	11	U	**11**		12	UJ
5	Benzene	1.1	U	1.1	U	1.2	UJ
5	Benzyl chloride	1.1	U	1.1	U	1.2	UJ
5	Bromodichloromethane	1.1	U	1.1	U	1.2	UJ
5	Bromoform	1.1	U	1.1	U	1.2	UJ
20	Bromomethane	11	U	11	U	12	UJ
20	Carbon disulfide	4.4	U	4.4	U	4.8	UJ
5	Carbon tetrachloride	1.1	U	1.1	U	1.2	UJ
5	Chlorobenzene	1.1	U	1.1	U	1.2	UJ
20	Chloroethane	4.4	U	4.4	U	4.8	UJ
5	Chloroform	1.1	U	1.1	U	1.2	UJ
20	Chloromethane	11	U	11	U	12	UJ
5	cis-1,2-Dichloroethene	1.1	U	1.1	U	1.2	UJ
5	cis-1,3-Dichloropropene	1.1	U	1.1	U	1.2	UJ
5	Dibromochloromethane	1.1	U	1.1	U	1.2	UJ
5	Ethylbenzene	1.1	U	1.1	U	1.2	UJ
5	Freon 11	1.1	U	1.1	U	1.2	UJ
5	Freon 113	1.1	U	1.1	U	1.2	UJ
5	Freon 12	1.1	U	1.1	U	1.2	UJ
20	Hexachlorobutadiene	4.4	U	4.4	U	4.8	UJ
5	Hexane (N-Hexane)	1.1	U	1.1	U	1.2	UJ
20	Isopropyl Alcohol (Isopropanol)	4.4	U	4.4	U	4.8	UJ
5	m,p-Xylene	1.1	U	1.1	U	1.2	UJ
20	Methyl ethyl ketone	4.4	UJ	**9.8**	J	**8.2**	J,N
5	Methyl isobutyl ketone	1.1	U	1.1	U	1.2	UJ
5	Methyl Tert-Butyl Ether	4.4	U	4.4	U	4.8	UJ
20	Methylene chloride	11	U	11	U	12	UJ
5	o-Xylene	1.1	U	1.1	U	1.2	UJ
5	Styrene	1.1	U	1.1	U	1.2	UJ
5	Tetrachloroethene (PCE)	**6.9**	J	**5.5**	J	**16**	J,N
100	TNMOC ref. to Heptane (MW=100)	22	U	22	U	**250**	J+
5	Toluene	1.1	U	1.1	U	1.2	UJ
5	trans-1,2-Dichloroethene	1.1	U	1.1	U	1.2	UJ
5	trans-1,3-Dichloropropene	1.1	U	1.1	U	1.2	UJ
5	Trichloroethene (TCE)	**1.6**		**1.4**		1.2	UJ
20	Vinyl acetate	4.4	U	4.4	U	4.8	UJ
5	Vinyl chloride	1.1	U	1.1	U	1.2	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-21_011320		OC_SVE_VMP-22_011420		OC_SVE_VMP-24_011320	
	Sample Type	N		N		N	
	Lab Sample ID	2001311-12A		2001311-25A		2001311-06A	
RL	Dilution Factor	2.52		9.51		2.29	
5	1,1,1-Trichloroethane (TCA)	1.3	UJ	4.8	R	1.1	U
5	1,1,2,2-Tetrachloroethane	1.3	UJ	4.8	R	1.1	U
5	1,1,2-Trichloroethane	1.3	UJ	4.8	R	1.1	U
5	1,1-Dichloroethane	1.3	UJ	4.8	R	1.1	U
5	1,1-Dichloroethene	1.3	UJ	4.8	R	1.1	U
20	1,1-Difluoroethane	**990**	E	**99000**	E	4.6	U
20	1,2,4-Trichlorobenzene	5	UJ	19	R	4.6	U
5	1,2,4-Trimethylbenzene	1.3	UJ	4.8	R	1.1	U
5	1,2-Dibromoethane (EDB)	1.3	UJ	4.8	R	1.1	U
5	1,2-Dichlorobenzene	1.3	UJ	4.8	R	1.1	U
5	1,2-Dichloroethane	1.3	UJ	4.8	R	1.1	U
5	1,2-Dichloropropane	1.3	UJ	4.8	R	1.1	U
5	1,2-Dichlorotetrafluoroethane	1.3	UJ	4.8	R	1.1	U
5	1,3,5-Trimethylbenzene	1.3	UJ	4.8	R	1.1	U
5	1,3-Dichlorobenzene	1.3	UJ	4.8	R	1.1	U
5	1,4-Dichlorobenzene	1.3	UJ	4.8	R	1.1	U
20	1,4-Dioxane	5	UJ	19	R	4.6	U
20	2-Hexanone	5	UJ	19	R	4.6	U
20	3-Chloropropene	5	UJ	19	R	4.6	U
5	4-Ethyltoluene	1.3	UJ	4.8	R	1.1	U
20	Acetone	13	UJ	48	R	11	U
5	Benzene	1.3	UJ	4.8	R	1.1	U
5	Benzyl chloride	1.3	UJ	4.8	R	1.1	U
5	Bromodichloromethane	1.3	UJ	4.8	R	1.1	U
5	Bromoform	1.3	UJ	4.8	R	1.1	U
20	Bromomethane	13	UJ	48	R	11	U
20	Carbon disulfide	5	UJ	19	R	4.6	U
5	Carbon tetrachloride	1.3	UJ	4.8	R	1.1	U
5	Chlorobenzene	1.3	UJ	4.8	R	1.1	U
20	Chloroethane	5	UJ	19	R	4.6	U
5	Chloroform	1.3	UJ	4.8	R	1.1	U
20	Chloromethane	13	UJ	48	R	11	U
5	cis-1,2-Dichloroethene	1.3	UJ	4.8	R	1.1	U
5	cis-1,3-Dichloropropene	1.3	UJ	4.8	R	1.1	U
5	Dibromochloromethane	1.3	UJ	4.8	R	1.1	U
5	Ethylbenzene	1.3	UJ	4.8	R	1.1	U
5	Freon 11	1.3	UJ	4.8	R	1.1	U
5	Freon 113	1.3	UJ	4.8	R	1.1	U
5	Freon 12	1.3	UJ	4.8	R	1.1	U
20	Hexachlorobutadiene	5	UJ	19	R	4.6	U
5	Hexane (N-Hexane)	1.3	UJ	4.8	R	1.1	U
20	Isopropyl Alcohol (Isopropanol)	5	UJ	19	R	4.6	U
5	m,p-Xylene	1.3	UJ	4.8	R	1.1	U
20	Methyl ethyl ketone	**9.4**	J,N	19	R	4.6	UJ
5	Methyl isobutyl ketone	1.3	UJ	4.8	R	1.1	U
5	Methyl Tert-Butyl Ether	5	UJ	19	R	4.6	U
20	Methylene chloride	13	UJ	48	R	11	U
5	o-Xylene	1.3	UJ	4.8	R	1.1	U
5	Styrene	1.3	UJ	4.8	R	1.1	U
5	Tetrachloroethene (PCE)	**28**	J,N	4.8	R	**36**	J
100	TNMOC ref. to Heptane (MW=100)	**320**	J+	95	R	23	U
5	Toluene	1.3	UJ	4.8	R	1.1	U
5	trans-1,2-Dichloroethene	1.3	UJ	4.8	R	1.1	U
5	trans-1,3-Dichloropropene	1.3	UJ	4.8	R	1.1	U
5	Trichloroethene (TCE)	**2.4**	J,N	4.8	R	1.1	U
20	Vinyl acetate	5	UJ	19	R	4.6	U
5	Vinyl chloride	1.3	UJ	4.8	R	1.1	U

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-26_011320		OC_SVE_VMP-27_011320		OC_SVE_VMP-31-24_011320	
	Sample Type	N		N		N	
	Lab Sample ID	2001311-13A		2001311-14A		2001311-07A	
RL	Dilution Factor	2.47		2.42		2.33	
5	1,1,1-Trichloroethane (TCA)	1.2	UJ	1.2	UJ	1.2	UJ
5	1,1,2,2-Tetrachloroethane	1.2	UJ	1.2	UJ	1.2	UJ
5	1,1,2-Trichloroethane	1.2	UJ	1.2	UJ	1.2	UJ
5	1,1-Dichloroethane	1.2	UJ	1.2	UJ	1.2	UJ
5	1,1-Dichloroethene	1.2	UJ	1.2	UJ	1.2	UJ
20	1,1-Difluoroethane	**76**		**990**	**E**	**86**	
20	1,2,4-Trichlorobenzene	4.9	UJ	4.8	UJ	4.7	UJ
5	1,2,4-Trimethylbenzene	1.2	UJ	1.2	UJ	1.2	UJ
5	1,2-Dibromoethane (EDB)	1.2	UJ	1.2	UJ	1.2	UJ
5	1,2-Dichlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
5	1,2-Dichloroethane	1.2	UJ	1.2	UJ	1.2	UJ
5	1,2-Dichloropropane	1.2	UJ	1.2	UJ	1.2	UJ
5	1,2-Dichlorotetrafluoroethane	1.2	UJ	1.2	UJ	1.2	UJ
5	1,3,5-Trimethylbenzene	1.2	UJ	1.2	UJ	1.2	UJ
5	1,3-Dichlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
5	1,4-Dichlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
20	1,4-Dioxane	4.9	UJ	4.8	UJ	4.7	UJ
20	2-Hexanone	4.9	UJ	4.8	UJ	4.7	UJ
20	3-Chloropropene	4.9	UJ	4.8	UJ	4.7	UJ
5	4-Ethyltoluene	1.2	UJ	1.2	UJ	1.2	UJ
20	Acetone	12	UJ	**120**	J,N	12	UJ
5	Benzene	1.2	UJ	1.2	UJ	1.2	UJ
5	Benzyl chloride	1.2	UJ	1.2	UJ	1.2	UJ
5	Bromodichloromethane	1.2	UJ	1.2	UJ	1.2	UJ
5	Bromoform	1.2	UJ	1.2	UJ	1.2	UJ
20	Bromomethane	12	UJ	12	UJ	12	UJ
20	Carbon disulfide	4.9	UJ	4.8	UJ	4.7	UJ
5	Carbon tetrachloride	1.2	UJ	1.2	UJ	1.2	UJ
5	Chlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
20	Chloroethane	4.9	UJ	4.8	UJ	4.7	UJ
5	Chloroform	1.2	UJ	1.2	UJ	1.2	UJ
20	Chloromethane	12	UJ	12	UJ	12	UJ
5	cis-1,2-Dichloroethene	1.2	UJ	1.2	UJ	1.2	UJ
5	cis-1,3-Dichloropropene	1.2	UJ	1.2	UJ	1.2	UJ
5	Dibromochloromethane	1.2	UJ	1.2	UJ	1.2	UJ
5	Ethylbenzene	1.2	UJ	1.2	UJ	1.2	UJ
5	Freon 11	1.2	UJ	1.2	UJ	1.2	UJ
5	Freon 113	1.2	UJ	1.2	UJ	1.2	UJ
5	Freon 12	1.2	UJ	1.2	UJ	1.2	UJ
20	Hexachlorobutadiene	4.9	UJ	4.8	UJ	4.7	UJ
5	Hexane (N-Hexane)	1.2	UJ	1.2	UJ	1.2	UJ
20	Isopropyl Alcohol (Isopropanol)	4.9	UJ	4.8	UJ	4.7	UJ
5	m,p-Xylene	1.2	UJ	1.2	UJ	1.2	UJ
20	Methyl ethyl ketone	**5.5**	J,N	**13**	J,N	**6**	J,N
5	Methyl isobutyl ketone	1.2	UJ	1.2	UJ	1.2	UJ
5	Methyl Tert-Butyl Ether	4.9	UJ	4.8	UJ	4.7	UJ
20	Methylene chloride	12	UJ	12	UJ	12	UJ
5	o-Xylene	1.2	UJ	1.2	UJ	1.2	UJ
5	Styrene	1.2	UJ	1.2	UJ	1.2	UJ
5	Tetrachloroethene (PCE)	**6.3**	J,N	**3.8**	J,N	**2.6**	J,N
100	TNMOC ref. to Heptane (MW=100)	25	UJ	**290**	J+	23	UJ
5	Toluene	1.2	UJ	1.2	UJ	1.2	UJ
5	trans-1,2-Dichloroethene	1.2	UJ	1.2	UJ	1.2	UJ
5	trans-1,3-Dichloropropene	1.2	UJ	1.2	UJ	1.2	UJ
5	Trichloroethene (TCE)	1.2	UJ	1.2	UJ	1.2	UJ
20	Vinyl acetate	4.9	UJ	4.8	UJ	4.7	UJ
5	Vinyl chloride	1.2	UJ	1.2	UJ	1.2	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-31-70_011320		OC_SVE_VMP-32-24_011320		OC_SVE_VMP-32-60_011320	
	Sample Type	N		N		N	
	Lab Sample ID	2001311-08A		2001311-09A		2001311-10A	
RL	Dilution Factor	26.1		2.38		2.16	
5	1,1,1-Trichloroethane (TCA)	13	U	1.2	UJ	1.1	U
5	1,1,2,2-Tetrachloroethane	13	U	1.2	UJ	1.1	U
5	1,1,2-Trichloroethane	13	U	1.2	UJ	1.1	U
5	1,1-Dichloroethane	13	U	1.2	UJ	1.1	U
5	1,1-Dichloroethene	**15**		1.2	UJ	1.1	U
20	1,1-Difluoroethane	52	U	**63**		4.3	U
20	1,2,4-Trichlorobenzene	52	U	4.8	UJ	4.3	U
5	1,2,4-Trimethylbenzene	13	U	1.2	UJ	1.1	U
5	1,2-Dibromoethane (EDB)	13	U	1.2	UJ	1.1	U
5	1,2-Dichlorobenzene	13	U	1.2	UJ	1.1	U
5	1,2-Dichloroethane	13	U	1.2	UJ	1.1	U
5	1,2-Dichloropropane	13	U	1.2	UJ	1.1	U
5	1,2-Dichlorotetrafluoroethane	13	U	1.2	UJ	1.1	U
5	1,3,5-Trimethylbenzene	13	U	1.2	UJ	1.1	U
5	1,3-Dichlorobenzene	13	U	1.2	UJ	1.1	U
5	1,4-Dichlorobenzene	13	U	1.2	UJ	1.1	U
20	1,4-Dioxane	52	U	4.8	UJ	4.3	U
20	2-Hexanone	52	U	4.8	UJ	4.3	U
20	3-Chloropropene	52	U	4.8	UJ	4.3	U
5	4-Ethyltoluene	13	U	1.2	UJ	1.1	U
20	Acetone	130	U	**14**	J,N	11	U
5	Benzene	13	U	1.2	UJ	1.1	U
5	Benzyl chloride	13	U	1.2	UJ	1.1	U
5	Bromodichloromethane	13	U	1.2	UJ	1.1	U
5	Bromoform	13	U	1.2	UJ	1.1	U
20	Bromomethane	130	U	12	UJ	11	U
20	Carbon disulfide	52	U	4.8	UJ	4.3	U
5	Carbon tetrachloride	13	U	1.2	UJ	1.1	U
5	Chlorobenzene	13	U	1.2	UJ	1.1	U
20	Chloroethane	52	U	4.8	UJ	4.3	U
5	Chloroform	13	U	1.2	UJ	1.1	U
20	Chloromethane	130	U	12	UJ	11	U
5	cis-1,2-Dichloroethene	13	U	1.2	UJ	1.1	U
5	cis-1,3-Dichloropropene	13	U	1.2	UJ	1.1	U
5	Dibromochloromethane	13	U	1.2	UJ	1.1	U
5	Ethylbenzene	13	U	1.2	UJ	1.1	U
5	Freon 11	**47**		1.2	UJ	1.1	U
5	Freon 113	**1200**		**2.4**	J,N	1.1	U
5	Freon 12	13	U	1.2	UJ	1.1	U
20	Hexachlorobutadiene	52	U	4.8	UJ	4.3	U
5	Hexane (N-Hexane)	13	U	1.2	UJ	1.1	U
20	Isopropyl Alcohol (Isopropanol)	52	U	4.8	UJ	4.3	U
5	m,p-Xylene	13	U	1.2	UJ	1.1	U
20	Methyl ethyl ketone	52	UJ	**13**	J,N	**6.3**	J
5	Methyl isobutyl ketone	13	U	1.2	UJ	1.1	U
5	Methyl Tert-Butyl Ether	52	U	4.8	UJ	4.3	U
20	Methylene chloride	130	U	12	UJ	11	U
5	o-Xylene	13	U	1.2	UJ	1.1	U
5	Styrene	13	U	1.2	UJ	1.1	U
5	Tetrachloroethene (PCE)	**2600**	J	**300**	J,N	**88**	J
100	TNMOC ref. to Heptane (MW=100)	**7500**	J+	**540**	J+	**94**	J+
5	Toluene	13	U	1.2	UJ	1.1	U
5	trans-1,2-Dichloroethene	13	U	1.2	UJ	1.1	U
5	trans-1,3-Dichloropropene	13	U	1.2	UJ	1.1	U
5	Trichloroethene (TCE)	13	U	1.2	UJ	1.1	U
20	Vinyl acetate	52	U	4.8	UJ	4.3	U
5	Vinyl chloride	13	U	1.2	UJ	1.1	U

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-43-24_011320		OC_SVE_VMP-5_011420		OC_SVE_VMP-92-69_011420	
	Sample Type	N		N		N	
	Lab Sample ID	2001311-04A		2001311-26A		2001311-24A	
RL	Dilution Factor	2.33		2.47		4.85	
5	1,1,1-Trichloroethane (TCA)	1.2	U	12	UJ	2.4	R
5	1,1,2,2-Tetrachloroethane	1.2	U	12	UJ	2.4	R
5	1,1,2-Trichloroethane	1.2	U	12	UJ	2.4	R
5	1,1-Dichloroethane	1.2	U	12	UJ	2.4	R
5	1,1-Dichloroethene	1.2	U	**57**	J,N	2.4	R
20	1,1-Difluoroethane	4.7	U	**400**		**1100**	E
20	1,2,4-Trichlorobenzene	4.7	U	49	UJ	9.7	R
5	1,2,4-Trimethylbenzene	1.2	U	12	UJ	2.4	R
5	1,2-Dibromoethane (EDB)	1.2	U	12	UJ	2.4	R
5	1,2-Dichlorobenzene	1.2	U	12	UJ	2.4	R
5	1,2-Dichloroethane	1.2	U	12	UJ	2.4	R
5	1,2-Dichloropropane	1.2	U	12	UJ	2.4	R
5	1,2-Dichlorotetrafluoroethane	1.2	U	12	UJ	2.4	R
5	1,3,5-Trimethylbenzene	1.2	U	12	UJ	2.4	R
5	1,3-Dichlorobenzene	1.2	U	12	UJ	2.4	R
5	1,4-Dichlorobenzene	1.2	U	12	UJ	2.4	R
20	1,4-Dioxane	4.7	U	49	UJ	9.7	R
20	2-Hexanone	4.7	U	49	UJ	9.7	R
20	3-Chloropropene	4.7	U	49	UJ	9.7	R
5	4-Ethyltoluene	1.2	U	12	UJ	2.4	R
20	Acetone	12	U	**3500**	J,N	24	R
5	Benzene	1.2	U	**13**	J,N	2.4	R
5	Benzyl chloride	1.2	U	12	UJ	2.4	R
5	Bromodichloromethane	1.2	U	12	UJ	2.4	R
5	Bromoform	1.2	U	12	UJ	2.4	R
20	Bromomethane	12	U	49	UJ	24	R
20	Carbon disulfide	4.7	U	49	UJ	9.7	R
5	Carbon tetrachloride	1.2	U	12	UJ	2.4	R
5	Chlorobenzene	1.2	U	12	UJ	2.4	R
20	Chloroethane	4.7	U	49	UJ	9.7	R
5	Chloroform	1.2	U	12	UJ	2.4	R
20	Chloromethane	12	U	49	UJ	24	R
5	cis-1,2-Dichloroethene	1.2	U	12	UJ	2.4	R
5	cis-1,3-Dichloropropene	1.2	U	12	UJ	2.4	R
5	Dibromochloromethane	1.2	U	12	UJ	2.4	R
5	Ethylbenzene	1.2	U	12	UJ	2.4	R
5	Freon 11	1.2	U	12	UJ	2.4	R
5	Freon 113	1.2	U	12	UJ	2.4	R
5	Freon 12	1.2	U	12	UJ	2.4	R
20	Hexachlorobutadiene	4.7	U	49	UJ	9.7	R
5	Hexane (N-Hexane)	1.2	U	**52**	J,N	2.4	R
20	Isopropyl Alcohol (Isopropanol)	4.7	U	49	UJ	9.7	R
5	m,p-Xylene	1.2	U	12	UJ	2.4	R
20	Methyl ethyl ketone	4.7	UJ	**6400**	J,N	9.7	R
5	Methyl isobutyl ketone	1.2	U	12	UJ	2.4	R
5	Methyl Tert-Butyl Ether	4.7	U	12	UJ	9.7	R
20	Methylene chloride	12	U	49	UJ	24	R
5	o-Xylene	1.2	U	12	UJ	2.4	R
5	Styrene	1.2	U	12	UJ	2.4	R
5	Tetrachloroethene (PCE)	1.2	UJ	**450**	J,N	2.4	R
100	TNMOC ref. to Heptane (MW=100)	23	U	**26000**	J+	48	R
5	Toluene	1.2	U	12	UJ	2.4	R
5	trans-1,2-Dichloroethene	1.2	U	**13**	J,N	2.4	R
5	trans-1,3-Dichloropropene	1.2	U	12	UJ	2.4	R
5	Trichloroethene (TCE)	1.2	U	**76**	J,N	2.4	R
20	Vinyl acetate	4.7	U	49	UJ	9.7	R
5	Vinyl chloride	1.2	U	12	UJ	2.4	R

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-93-60_011420		OC_SVE_VMP-94-24_011320		OC_SVE_VMP-94-60_011320	
	Sample Type	N		N		N	
	Lab Sample ID	2001311-17A		2001311-01A		2001311-02A	
RL	Dilution Factor	4.57		2.33		2.29	
5	1,1,1-Trichloroethane (TCA)	2.3	UJ	1.2	U	1.1	UJ
5	1,1,2,2-Tetrachloroethane	2.3	UJ	1.2	U	1.1	UJ
5	1,1,2-Trichloroethane	2.3	UJ	1.2	U	1.1	UJ
5	1,1-Dichloroethane	2.3	UJ	1.2	U	1.1	UJ
5	1,1-Dichloroethene	2.3	UJ	1.2	U	1.1	UJ
20	1,1-Difluoroethane	**34**		4.7	U	**260**	
20	1,2,4-Trichlorobenzene	9.1	UJ	4.7	U	4.6	UJ
5	1,2,4-Trimethylbenzene	2.3	UJ	1.2	U	1.1	UJ
5	1,2-Dibromoethane (EDB)	2.3	UJ	1.2	U	1.1	UJ
5	1,2-Dichlorobenzene	2.3	UJ	1.2	U	1.1	UJ
5	1,2-Dichloroethane	2.3	UJ	1.2	U	1.1	UJ
5	1,2-Dichloropropane	2.3	UJ	1.2	U	1.1	UJ
5	1,2-Dichlorotetrafluoroethane	2.3	UJ	1.2	U	1.1	UJ
5	1,3,5-Trimethylbenzene	2.3	UJ	1.2	U	1.1	UJ
5	1,3-Dichlorobenzene	2.3	UJ	1.2	U	1.1	UJ
5	1,4-Dichlorobenzene	2.3	UJ	1.2	U	1.1	UJ
20	1,4-Dioxane	9.1	UJ	4.7	U	4.6	UJ
20	2-Hexanone	9.1	UJ	4.7	U	4.6	UJ
20	3-Chloropropene	9.1	UJ	4.7	U	4.6	UJ
5	4-Ethyltoluene	2.3	UJ	1.2	U	1.1	UJ
20	Acetone	23	UJ	12	U	**14**	J,N
5	Benzene	2.3	UJ	1.2	U	1.1	UJ
5	Benzyl chloride	2.3	UJ	1.2	U	1.1	UJ
5	Bromodichloromethane	2.3	UJ	1.2	U	1.1	UJ
5	Bromoform	2.3	UJ	1.2	U	1.1	UJ
20	Bromomethane	23	UJ	12	U	11	UJ
20	Carbon disulfide	9.1	UJ	4.7	U	4.6	UJ
5	Carbon tetrachloride	2.3	UJ	1.2	U	1.1	UJ
5	Chlorobenzene	2.3	UJ	1.2	U	1.1	UJ
20	Chloroethane	9.1	UJ	4.7	U	4.6	UJ
5	Chloroform	**3.1**	J,N	1.2	U	1.1	UJ
20	Chloromethane	23	UJ	12	U	11	UJ
5	cis-1,2-Dichloroethene	2.3	UJ	1.2	U	1.1	UJ
5	cis-1,3-Dichloropropene	2.3	UJ	1.2	U	1.1	UJ
5	Dibromochloromethane	2.3	UJ	1.2	U	1.1	UJ
5	Ethylbenzene	2.3	UJ	1.2	U	1.1	UJ
5	Freon 11	2.3	UJ	1.2	U	1.1	UJ
5	Freon 113	**2.5**	J,N	1.2	U	1.1	UJ
5	Freon 12	2.3	UJ	1.2	U	1.1	UJ
20	Hexachlorobutadiene	9.1	UJ	4.7	U	4.6	UJ
5	Hexane (N-Hexane)	2.3	UJ	1.2	U	1.1	UJ
20	Isopropyl Alcohol (Isopropanol)	9.1	UJ	4.7	U	4.6	UJ
5	m,p-Xylene	2.3	UJ	1.2	U	**2.1**	J,N
20	Methyl ethyl ketone	9.1	UJ	4.7	UJ	**320**	J,N
5	Methyl isobutyl ketone	2.3	UJ	1.2	U	1.1	UJ
5	Methyl Tert-Butyl Ether	9.1	UJ	4.7	U	4.6	UJ
20	Methylene chloride	23	UJ	12	U	11	UJ
5	o-Xylene	2.3	UJ	1.2	U	1.1	UJ
5	Styrene	2.3	UJ	1.2	U	1.1	UJ
5	Tetrachloroethene (PCE)	**450**	J	1.2	UJ	1.1	UJ
100	TNMOC ref. to Heptane (MW=100)	**900**	J+	23	U	**250**	J+
5	Toluene	2.3	UJ	1.2	U	1.1	UJ
5	trans-1,2-Dichloroethene	2.3	UJ	1.2	U	1.1	UJ
5	trans-1,3-Dichloropropene	2.3	UJ	1.2	U	1.1	UJ
5	Trichloroethene (TCE)	**6.6**	J,N	1.2	U	1.1	UJ
20	Vinyl acetate	9.1	UJ	4.7	U	4.6	UJ
5	Vinyl chloride	2.3	UJ	1.2	U	1.1	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-94-60_011320K		OC_SVE_VMP-95-61_011320	
	Sample Type	FD		N	
	Lab Sample ID	2001311-03A		2001311-05A	
RL	Dilution Factor	2.38		2.38	
5	1,1,1-Trichloroethane (TCA)	1.2	UJ	1.2	UJ
5	1,1,2,2-Tetrachloroethane	1.2	UJ	1.2	UJ
5	1,1,2-Trichloroethane	1.2	UJ	1.2	UJ
5	1,1-Dichloroethane	1.2	UJ	1.2	UJ
5	1,1-Dichloroethene	1.2	UJ	1.2	UJ
20	1,1-Difluoroethane	**350**		**120**	
20	1,2,4-Trichlorobenzene	4.8	UJ	4.8	UJ
5	1,2,4-Trimethylbenzene	1.2	UJ	1.2	UJ
5	1,2-Dibromoethane (EDB)	1.2	UJ	1.2	UJ
5	1,2-Dichlorobenzene	1.2	UJ	1.2	UJ
5	1,2-Dichloroethane	1.2	UJ	1.2	UJ
5	1,2-Dichloropropane	1.2	UJ	1.2	UJ
5	1,2-Dichlorotetrafluoroethane	1.2	UJ	1.2	UJ
5	1,3,5-Trimethylbenzene	1.2	UJ	1.2	UJ
5	1,3-Dichlorobenzene	1.2	UJ	1.2	UJ
5	1,4-Dichlorobenzene	1.2	UJ	1.2	UJ
20	1,4-Dioxane	4.8	UJ	4.8	UJ
20	2-Hexanone	4.8	UJ	4.8	UJ
20	3-Chloropropene	4.8	UJ	4.8	UJ
5	4-Ethyltoluene	1.2	UJ	1.2	UJ
20	Acetone	12	UJ	12	UJ
5	Benzene	1.2	UJ	1.2	UJ
5	Benzyl chloride	1.2	UJ	1.2	UJ
5	Bromodichloromethane	1.2	UJ	1.2	UJ
5	Bromoform	1.2	UJ	1.2	UJ
20	Bromomethane	12	UJ	12	UJ
20	Carbon disulfide	4.8	UJ	4.8	UJ
5	Carbon tetrachloride	1.2	UJ	1.2	UJ
5	Chlorobenzene	1.2	UJ	1.2	UJ
20	Chloroethane	4.8	UJ	4.8	UJ
5	Chloroform	1.2	UJ	1.2	UJ
20	Chloromethane	12	UJ	12	UJ
5	cis-1,2-Dichloroethene	1.2	UJ	1.2	UJ
5	cis-1,3-Dichloropropene	1.2	UJ	1.2	UJ
5	Dibromochloromethane	1.2	UJ	1.2	UJ
5	Ethylbenzene	1.2	UJ	1.2	UJ
5	Freon 11	1.2	UJ	1.2	UJ
5	Freon 113	1.2	UJ	1.2	UJ
5	Freon 12	1.2	UJ	1.2	UJ
20	Hexachlorobutadiene	4.8	UJ	4.8	UJ
5	Hexane (N-Hexane)	1.2	UJ	1.2	UJ
20	Isopropyl Alcohol (Isopropanol)	4.8	UJ	4.8	UJ
5	m,p-Xylene	**1.6**	J,N	1.2	UJ
20	Methyl ethyl ketone	**230**	J,N	4.8	UJ
5	Methyl isobutyl ketone	1.2	UJ	1.2	UJ
5	Methyl Tert-Butyl Ether	4.8	UJ	4.8	UJ
20	Methylene chloride	12	UJ	12	UJ
5	o-Xylene	1.2	UJ	1.2	UJ
5	Styrene	1.2	UJ	1.2	UJ
5	Tetrachloroethene (PCE)	1.2	UJ	**7.9**	J,N
100	TNMOC ref. to Heptane (MW=100)	**250**	J+	**190**	J+
5	Toluene	**1.4**	J,N	1.2	UJ
5	trans-1,2-Dichloroethene	1.2	UJ	1.2	UJ
5	trans-1,3-Dichloropropene	1.2	UJ	1.2	UJ
5	Trichloroethene (TCE)	1.2	UJ	1.2	UJ
20	Vinyl acetate	4.8	UJ	4.8	UJ
5	Vinyl chloride	1.2	UJ	1.2	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-16_022820		OC_SVE_VMP-21_022820		OC_SVE_VMP-92-70_022820	
	Sample Type	N		N		N	
	Lab Sample ID	2002782-03A		2002782-05A		2002782-04A	
RL	Dilution Factor	46.8		2.16		3.28	
0.5	1,1,1-Trichloroethane (TCA)	23	R	1.1	UJ	2	J,N
0.5	1,1,2,2-Tetrachloroethane	23	R	1.1	UJ	1.6	UJ
0.5	1,1,2-Trichloroethane	23	R	1.1	UJ	1.6	UJ
0.5	1,1-Dichloroethane	23	R	1.1	UJ	1.6	UJ
0.5	1,1-Dichloroethene	23	R	1.1	UJ	140	
2	1,1-Difluoroethane	490000	E	4.4		7.1	
2	1,2,4-Trichlorobenzene	94	R	4.3	UJ	6.6	UJ
0.5	1,2,4-Trimethylbenzene	23	R	1.1	UJ	1.6	UJ
0.5	1,2-Dibromoethane (EDB)	23	R	1.1	UJ	1.6	UJ
0.5	1,2-Dichlorobenzene	23	R	1.1	UJ	1.6	UJ
0.5	1,2-Dichloroethane	23	R	1.1	UJ	1.6	UJ
0.5	1,2-Dichloropropane	23	R	1.1	UJ	1.6	UJ
0.5	1,2-Dichlorotetrafluoroethane	23	R	1.1	UJ	1.6	UJ
0.5	1,3,5-Trimethylbenzene	23	R	1.1	UJ	1.6	UJ
0.5	1,3-Dichlorobenzene	23	R	1.1	UJ	1.6	UJ
0.5	1,4-Dichlorobenzene	23	R	1.1	UJ	1.6	UJ
2	1,4-Dioxane	94	R	4.3	UJ	6.6	UJ
2	2-Hexanone	94	R	4.3	UJ	6.6	UJ
2	3-Chloropropene	94	R	4.3	UJ	6.6	UJ
0.5	4-Ethyltoluene	23	R	1.1	UJ	1.6	UJ
5	Acetone	230	R	11	UJ	16	UJ
0.5	Benzene	23	R	1.1	UJ	1.6	UJ
0.5	Benzyl chloride	23	R	1.1	UJ	1.6	UJ
0.5	Bromodichloromethane	23	R	1.1	UJ	1.6	UJ
0.5	Bromoform	23	R	1.1	UJ	1.6	UJ
5	Bromomethane	230	R	11	UJ	16	UJ
2	Carbon disulfide	94	R	4.3	UJ	6.6	UJ
0.5	Carbon tetrachloride	23	R	1.1	UJ	1.6	UJ
0.5	Chlorobenzene	23	R	1.1	UJ	1.6	UJ
2	Chloroethane	94	R	4.3	UJ	6.6	UJ
0.5	Chloroform	23	R	1.1	UJ	3	J,N
5	Chloromethane	230	R	11	UJ	16	UJ
0.5	cis-1,2-Dichloroethene	23	R	1.1	UJ	1.6	UJ
0.5	cis-1,3-Dichloropropene	23	R	1.1	UJ	1.6	UJ
0.5	Dibromochloromethane	23	R	1.1	UJ	1.6	UJ
0.5	Ethylbenzene	23	R	1.1	UJ	1.6	UJ
0.5	Freon 11	23	R	1.1	UJ	44	
0.5	Freon 113	23	R	1.1	UJ	150	
0.5	Freon 12	23	R	1.1	UJ	1.6	UJ
2	Hexachlorobutadiene	94	R	4.3	UJ	6.6	UJ
0.5	Hexane (N-Hexane)	23	R	1.1	UJ	1.6	UJ
2	Isopropyl Alcohol (Isopropanol)	94	R	4.3	UJ	6.6	UJ
0.5	m,p-Xylene	23	R	1.1	UJ	1.6	UJ
2	Methyl ethyl ketone	94	R	4.3	UJ	6.6	UJ
0.5	Methyl isobutyl ketone	23	R	1.1	UJ	1.6	UJ
2	Methyl Tert-Butyl Ether	94	R	4.3	UJ	6.6	UJ
5	Methylene chloride	230	R	11	UJ	16	UJ
0.5	o-Xylene	23	R	1.1	UJ	1.6	UJ
0.5	Styrene	23	R	1.1	UJ	1.6	UJ
0.5	Tetrachloroethene (PCE)	23	R	9	J,N	570	
10	TNMOC ref. to Heptane (MW=100)	470	R	80	J+	1300	J+
0.5	Toluene	23	R	1.1	UJ	1.6	UJ
0.5	trans-1,2-Dichloroethene	23	R	1.1	UJ	1.6	UJ
0.5	trans-1,3-Dichloropropene	23	R	1.1	UJ	1.6	UJ
0.5	Trichloroethene (TCE)	23	R	2	J,N	30	
2	Vinyl acetate	94	R	4.3	UJ	6.6	UJ
0.5	Vinyl chloride	23	R	1.1	UJ	1.6	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-94-60_022820		OC_SVE_VMP-95-60_022820	
	Sample Type	N		N	
	Lab Sample ID	2002782-01A		2002782-02A	
RL	Dilution Factor	2.4		2.4	
0.5	1,1,1-Trichloroethane (TCA)	1.2	U	1.2	UJ
0.5	1,1,2,2-Tetrachloroethane	1.2	U	1.2	UJ
0.5	1,1,2-Trichloroethane	1.2	U	1.2	UJ
0.5	1,1-Dichloroethane	1.2	U	1.2	UJ
0.5	1,1-Dichloroethene	1.2	U	1.2	UJ
2	1,1-Difluoroethane	4.8	U	**11**	
2	1,2,4-Trichlorobenzene	4.8	U	4.8	UJ
0.5	1,2,4-Trimethylbenzene	1.2	U	1.2	UJ
0.5	1,2-Dibromoethane (EDB)	1.2	U	1.2	UJ
0.5	1,2-Dichlorobenzene	1.2	U	1.2	UJ
0.5	1,2-Dichloroethane	1.2	U	1.2	UJ
0.5	1,2-Dichloropropane	1.2	U	1.2	UJ
0.5	1,2-Dichlorotetrafluoroethane	1.2	U	1.2	UJ
0.5	1,3,5-Trimethylbenzene	1.2	U	1.2	UJ
0.5	1,3-Dichlorobenzene	1.2	U	1.2	UJ
0.5	1,4-Dichlorobenzene	1.2	U	1.2	UJ
2	1,4-Dioxane	4.8	U	4.8	UJ
2	2-Hexanone	4.8	U	4.8	UJ
2	3-Chloropropene	4.8	U	4.8	UJ
0.5	4-Ethyltoluene	1.2	U	1.2	UJ
5	Acetone	12	U	12	UJ
0.5	Benzene	1.2	U	1.2	UJ
0.5	Benzyl chloride	1.2	U	1.2	UJ
0.5	Bromodichloromethane	1.2	U	1.2	UJ
0.5	Bromoform	1.2	U	1.2	UJ
5	Bromomethane	12	U	12	UJ
2	Carbon disulfide	4.8	U	4.8	UJ
0.5	Carbon tetrachloride	1.2	U	1.2	UJ
0.5	Chlorobenzene	1.2	U	1.2	UJ
2	Chloroethane	4.8	U	4.8	UJ
0.5	Chloroform	1.2	U	1.2	UJ
5	Chloromethane	12	U	12	UJ
0.5	cis-1,2-Dichloroethene	1.2	U	1.2	UJ
0.5	cis-1,3-Dichloropropene	1.2	U	1.2	UJ
0.5	Dibromochloromethane	1.2	U	1.2	UJ
0.5	Ethylbenzene	1.2	U	1.2	UJ
0.5	Freon 11	1.2	U	1.2	UJ
0.5	Freon 113	1.2	U	1.2	UJ
0.5	Freon 12	1.2	U	1.2	UJ
2	Hexachlorobutadiene	4.8	U	4.8	UJ
0.5	Hexane (N-Hexane)	1.2	U	1.2	UJ
2	Isopropyl Alcohol (Isopropanol)	4.8	U	4.8	UJ
0.5	m,p-Xylene	1.2	U	1.2	UJ
2	Methyl ethyl ketone	4.8	U	4.8	UJ
0.5	Methyl isobutyl ketone	1.2	U	1.2	UJ
2	Methyl Tert-Butyl Ether	4.8	U	4.8	UJ
5	Methylene chloride	12	U	12	UJ
0.5	o-Xylene	1.2	U	1.2	UJ
0.5	Styrene	1.2	U	1.2	UJ
0.5	Tetrachloroethene (PCE)	**4.3**		**30**	
10	TNMOC ref. to Heptane (MW=100)	24	U	24	UJ
0.5	Toluene	1.2	U	1.2	UJ
0.5	trans-1,2-Dichloroethene	1.2	U	1.2	UJ
0.5	trans-1,3-Dichloropropene	1.2	U	1.2	UJ
0.5	Trichloroethene (TCE)	1.2	U	**3.6**	J,N
2	Vinyl acetate	4.8	U	4.8	UJ
0.5	Vinyl chloride	1.2	U	1.2	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-22_030220		OC_SVE_VMP-27_030220		OC_SVE_VMP-27_030220K	
	Sample Type	N		N		FD	
	Lab Sample ID	2003029-05A		2003029-01A		2003029-02A	
RL	Dilution Factor	2.4		2.34		2.41	
0.5	1,1,1-Trichloroethane (TCA)	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,1,2,2-Tetrachloroethane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,1,2-Trichloroethane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,1-Dichloroethane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,1-Dichloroethene	1.2	UJ	1.2	UJ	1.2	UJ
2	1,1-Difluoroethane	**9.2**		**190**		**170**	
2	1,2,4-Trichlorobenzene	4.8	UJ	4.7	UJ	4.8	UJ
0.5	1,2,4-Trimethylbenzene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,2-Dibromoethane (EDB)	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,2-Dichlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,2-Dichloroethane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,2-Dichloropropane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,2-Dichlorotetrafluoroethane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,3,5-Trimethylbenzene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,3-Dichlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	1,4-Dichlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
2	1,4-Dioxane	4.8	UJ	4.7	UJ	4.8	UJ
2	2-Hexanone	4.8	UJ	4.7	UJ	4.8	UJ
2	3-Chloropropene	4.8	UJ	4.7	UJ	4.8	UJ
0.5	4-Ethyltoluene	1.2	UJ	1.2	UJ	1.2	UJ
5	Acetone	12	UJ	**340**	J,N	**280**	J,N
0.5	Benzene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Benzyl chloride	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Bromodichloromethane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Bromoform	1.2	UJ	1.2	UJ	1.2	UJ
5	Bromomethane	12	UJ	12	UJ	12	UJ
2	Carbon disulfide	4.8	UJ	4.7	UJ	4.8	UJ
0.5	Carbon tetrachloride	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Chlorobenzene	1.2	UJ	1.2	UJ	1.2	UJ
2	Chloroethane	4.8	UJ	4.7	UJ	4.8	UJ
0.5	Chloroform	1.2	UJ	1.2	UJ	1.2	UJ
5	Chloromethane	12	UJ	12	UJ	12	UJ
0.5	cis-1,2-Dichloroethene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	cis-1,3-Dichloropropene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Dibromochloromethane	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Ethylbenzene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Freon 11	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Freon 113	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Freon 12	1.2	UJ	1.2	UJ	1.2	UJ
2	Hexachlorobutadiene	4.8	UJ	4.7	UJ	4.8	UJ
0.5	Hexane (N-Hexane)	1.2	UJ	1.2	UJ	1.2	UJ
2	Isopropyl Alcohol (Isopropanol)	4.8	UJ	4.7	UJ	4.8	UJ
0.5	m,p-Xylene	1.2	UJ	1.2	UJ	1.2	UJ
2	Methyl ethyl ketone	4.8	UJ	**28**	J,N	**22**	J,N
0.5	Methyl isobutyl ketone	1.2	UJ	1.2	UJ	1.2	UJ
2	Methyl Tert-Butyl Ether	4.8	UJ	4.7	UJ	4.8	UJ
5	Methylene chloride	12	UJ	12	UJ	12	UJ
0.5	o-Xylene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Styrene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Tetrachloroethene (PCE)	**3.1**	J,N	1.2	UJ	1.2	UJ
10	TNMOC ref. to Heptane (MW=100)	**31**	J+	**220**	J+	**170**	J+
0.5	Toluene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	trans-1,2-Dichloroethene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	trans-1,3-Dichloropropene	1.2	UJ	1.2	UJ	1.2	UJ
0.5	Trichloroethene (TCE)	1.2	UJ	1.2	UJ	1.2	UJ
2	Vinyl acetate	4.8	UJ	4.7	UJ	4.8	UJ
0.5	Vinyl chloride	1.2	UJ	1.2	UJ	1.2	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-31-24_030220		OC_SVE_VMP-32-24_030220		OC_SVE_VMP-92-70_030220	
	Sample Type	N		N		N	
	Lab Sample ID	2003029-04A		2003029-03A		2003029-06A	
RL	Dilution Factor	2.44		2.34		4.16	
0.5	1,1,1-Trichloroethane (TCA)	1.2	U	1.2	U	2.1	UJ
0.5	1,1,2,2-Tetrachloroethane	1.2	U	1.2	U	2.1	UJ
0.5	1,1,2-Trichloroethane	1.2	U	1.2	U	2.1	UJ
0.5	1,1-Dichloroethane	1.2	U	1.2	U	2.1	UJ
0.5	1,1-Dichloroethene	1.2	U	1.2	U	**120**	
2	1,1-Difluoroethane	4.9	U	4.7	U	**25**	
2	1,2,4-Trichlorobenzene	4.9	U	4.7	U	8.3	UJ
0.5	1,2,4-Trimethylbenzene	1.2	U	1.2	U	2.1	UJ
0.5	1,2-Dibromoethane (EDB)	1.2	U	1.2	U	2.1	UJ
0.5	1,2-Dichlorobenzene	1.2	U	1.2	U	2.1	UJ
0.5	1,2-Dichloroethane	1.2	U	1.2	U	2.1	UJ
0.5	1,2-Dichloropropane	1.2	U	1.2	U	2.1	UJ
0.5	1,2-Dichlorotetrafluoroethane	1.2	U	1.2	U	2.1	UJ
0.5	1,3,5-Trimethylbenzene	1.2	U	1.2	U	2.1	UJ
0.5	1,3-Dichlorobenzene	1.2	U	1.2	U	2.1	UJ
0.5	1,4-Dichlorobenzene	1.2	U	1.2	U	2.1	UJ
2	1,4-Dioxane	4.9	U	4.7	U	8.3	UJ
2	2-Hexanone	4.9	U	4.7	U	8.3	UJ
2	3-Chloropropene	4.9	U	4.7	U	8.3	UJ
0.5	4-Ethyltoluene	1.2	U	1.2	U	2.1	UJ
5	Acetone	12	U	**19**		21	UJ
0.5	Benzene	1.2	U	1.2	U	2.1	UJ
0.5	Benzyl chloride	1.2	U	1.2	U	2.1	UJ
0.5	Bromodichloromethane	1.2	U	1.2	U	2.1	UJ
0.5	Bromoform	1.2	U	1.2	U	2.1	UJ
5	Bromomethane	12	U	12	U	21	UJ
2	Carbon disulfide	4.9	U	4.7	U	8.3	UJ
0.5	Carbon tetrachloride	1.2	U	1.2	U	2.1	UJ
0.5	Chlorobenzene	1.2	U	1.2	U	2.1	UJ
2	Chloroethane	4.9	U	4.7	U	8.3	UJ
0.5	Chloroform	1.2	U	1.2	U	**3.2**	J,N
5	Chloromethane	12	U	12	U	21	UJ
0.5	cis-1,2-Dichloroethene	1.2	U	1.2	U	2.1	UJ
0.5	cis-1,3-Dichloropropene	1.2	U	1.2	U	2.1	UJ
0.5	Dibromochloromethane	1.2	U	1.2	U	2.1	UJ
0.5	Ethylbenzene	1.2	U	1.2	U	2.1	UJ
0.5	Freon 11	1.2	U	1.2	U	**9.1**	J,N
0.5	Freon 113	1.2	U	1.2	U	**21**	
0.5	Freon 12	1.2	U	1.2	U	2.1	UJ
2	Hexachlorobutadiene	4.9	U	4.7	U	8.3	UJ
0.5	Hexane (N-Hexane)	1.2	U	1.2	U	2.1	UJ
2	Isopropyl Alcohol (Isopropanol)	4.9	U	4.7	U	8.3	UJ
0.5	m,p-Xylene	1.2	U	1.2	U	2.1	UJ
2	Methyl ethyl ketone	4.9	U	4.7	U	8.3	UJ
0.5	Methyl isobutyl ketone	1.2	U	1.2	U	2.1	UJ
2	Methyl Tert-Butyl Ether	4.9	U	4.7	U	8.3	UJ
5	Methylene chloride	12	U	12	U	21	UJ
0.5	o-Xylene	1.2	U	1.2	U	2.1	UJ
0.5	Styrene	1.2	U	1.2	U	2.1	UJ
0.5	Tetrachloroethene (PCE)	1.2	U	**3.4**		**600**	
10	TNMOC ref. to Heptane (MW=100)	24	U	23	U	**1100**	J+
0.5	Toluene	1.2	U	1.2	U	2.1	UJ
0.5	trans-1,2-Dichloroethene	1.2	U	1.2	U	2.1	UJ
0.5	trans-1,3-Dichloropropene	1.2	U	1.2	U	2.1	UJ
0.5	Trichloroethene (TCE)	1.2	U	1.2	U	**34**	
2	Vinyl acetate	4.9	U	4.7	U	8.3	UJ
0.5	Vinyl chloride	1.2	U	1.2	U	2.1	UJ

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-20_030420		OC_SVE_VMP-26_030420		OC_SVE_VMP-32-24_030420N	
	Sample Type	N		N		EB	
	Lab Sample ID	2003116-02A		2003116-01A		2003116-03A	
RL	Dilution Factor	2.38		2.29		2.38	
0.5	1,1,1-Trichloroethane (TCA)	1.2	UJ	1.1	UJ	1.2	U
0.5	1,1,2,2-Tetrachloroethane	1.2	UJ	1.1	UJ	1.2	U
0.5	1,1,2-Trichloroethane	1.2	UJ	1.1	UJ	1.2	U
0.5	1,1-Dichloroethane	1.2	UJ	1.1	UJ	1.2	U
0.5	1,1-Dichloroethene	1.2	UJ	1.1	UJ	1.2	U
2	1,1-Difluoroethane	**14**		**350**		4.8	U
2	1,2,4-Trichlorobenzene	4.8	UJ	4.6	UJ	4.8	U
0.5	1,2,4-Trimethylbenzene	1.2	UJ	1.1	UJ	1.2	U
0.5	1,2-Dibromoethane (EDB)	1.2	UJ	1.1	UJ	1.2	U
0.5	1,2-Dichlorobenzene	1.2	UJ	1.1	UJ	1.2	U
0.5	1,2-Dichloroethane	1.2	UJ	1.1	UJ	1.2	U
0.5	1,2-Dichloropropane	1.2	UJ	1.1	UJ	1.2	U
0.5	1,2-Dichlorotetrafluoroethane	1.2	UJ	1.1	UJ	1.2	U
0.5	1,3,5-Trimethylbenzene	1.2	UJ	1.1	UJ	1.2	U
0.5	1,3-Dichlorobenzene	1.2	UJ	1.1	UJ	1.2	U
0.5	1,4-Dichlorobenzene	1.2	UJ	1.1	UJ	1.2	U
2	1,4-Dioxane	4.8	UJ	4.6	UJ	4.8	U
2	2-Hexanone	4.8	UJ	4.6	UJ	4.8	U
2	3-Chloropropene	4.8	UJ	4.6	UJ	4.8	U
0.5	4-Ethyltoluene	1.2	UJ	1.1	UJ	1.2	U
5	Acetone	12	UJ	**14**	J,N	**29**	
0.5	Benzene	1.2	UJ	1.1	UJ	1.2	U
0.5	Benzyl chloride	1.2	UJ	1.1	UJ	1.2	U
0.5	Bromodichloromethane	1.2	UJ	1.1	UJ	1.2	U
0.5	Bromoform	1.2	UJ	1.1	UJ	1.2	U
5	Bromomethane	12	UJ	11	UJ	12	U
2	Carbon disulfide	4.8	UJ	4.6	UJ	4.8	U
0.5	Carbon tetrachloride	1.2	UJ	1.1	UJ	1.2	U
0.5	Chlorobenzene	1.2	UJ	1.1	UJ	1.2	U
2	Chloroethane	4.8	UJ	4.6	UJ	4.8	U
0.5	Chloroform	1.2	UJ	1.1	UJ	1.2	U
5	Chloromethane	12	UJ	11	UJ	12	U
0.5	cis-1,2-Dichloroethene	1.2	UJ	1.1	UJ	1.2	U
0.5	cis-1,3-Dichloropropene	1.2	UJ	1.1	UJ	1.2	U
0.5	Dibromochloromethane	1.2	UJ	1.1	UJ	1.2	U
0.5	Ethylbenzene	1.2	UJ	1.1	UJ	1.2	U
0.5	Freon 11	1.2	UJ	1.1	UJ	1.2	U
0.5	Freon 113	1.2	UJ	1.1	UJ	1.2	U
0.5	Freon 12	1.2	UJ	1.1	UJ	1.2	U
2	Hexachlorobutadiene	4.8	UJ	4.6	UJ	4.8	U
0.5	Hexane (N-Hexane)	1.2	UJ	1.1	UJ	1.2	U
2	Isopropyl Alcohol (Isopropanol)	4.8	UJ	4.6	UJ	4.8	U
0.5	m,p-Xylene	1.2	UJ	1.1	UJ	1.2	U
2	Methyl ethyl ketone	4.8	UJ	4.6	UJ	4.8	U
0.5	Methyl isobutyl ketone	1.2	UJ	1.1	UJ	1.2	U
2	Methyl Tert-Butyl Ether	4.8	UJ	4.6	UJ	4.8	U
5	Methylene chloride	12	UJ	11	UJ	12	U
0.5	o-Xylene	1.2	UJ	1.1	UJ	1.2	U
0.5	Styrene	1.2	UJ	1.1	UJ	1.2	U
0.5	Tetrachloroethene (PCE)	**1.6**	J,N	1.1	UJ	1.2	U
10	TNMOC ref. to Heptane (MW=100)	24	UJ	**85**	J+	**130**	J+
0.5	Toluene	1.2	UJ	1.1	UJ	1.2	U
0.5	trans-1,2-Dichloroethene	1.2	UJ	1.1	UJ	1.2	U
0.5	trans-1,3-Dichloropropene	1.2	UJ	1.1	UJ	1.2	U
0.5	Trichloroethene (TCE)	1.2	UJ	1.1	UJ	1.2	U
2	Vinyl acetate	4.8	UJ	4.6	UJ	4.8	U
0.5	Vinyl chloride	1.2	UJ	1.1	UJ	1.2	U

Data Summary FOrm
Omega Chemical
VMP
(ppbv)

	Field Sample ID	OC_SVE_VMP-16_030920	
	Sample Type	N	
	Lab Sample ID	2003242-01A	
RL	Dilution Factor	2.29	
0.5	1,1,1-Trichloroethane (TCA)	1.1	U
0.5	1,1,2,2-Tetrachloroethane	1.1	U
0.5	1,1,2-Trichloroethane	1.1	U
0.5	1,1-Dichloroethane	1.1	U
0.5	1,1-Dichloroethene	1.1	U
2	1,1-Difluoroethane	4.6	U
2	1,2,4-Trichlorobenzene	4.6	U
0.5	1,2,4-Trimethylbenzene	1.1	U
0.5	1,2-Dibromoethane (EDB)	1.1	U
0.5	1,2-Dichlorobenzene	1.1	U
0.5	1,2-Dichloroethane	1.1	U
0.5	1,2-Dichloropropane	1.1	U
0.5	1,2-Dichlorotetrafluoroethane	1.1	U
0.5	1,3,5-Trimethylbenzene	1.1	U
0.5	1,3-Dichlorobenzene	1.1	U
0.5	1,4-Dichlorobenzene	1.1	U
2	1,4-Dioxane	4.6	U
2	2-Hexanone	4.6	U
2	3-Chloropropene	4.6	U
0.5	4-Ethyltoluene	1.1	U
5	Acetone	**25**	
0.5	Benzene	1.1	U
0.5	Benzyl chloride	1.1	U
0.5	Bromodichloromethane	1.1	U
0.5	Bromoform	1.1	U
5	Bromomethane	11	U
2	Carbon disulfide	4.6	U
0.5	Carbon tetrachloride	1.1	U
0.5	Chlorobenzene	1.1	U
2	Chloroethane	4.6	U
0.5	Chloroform	1.1	U
5	Chloromethane	11	U
0.5	cis-1,2-Dichloroethene	1.1	U
0.5	cis-1,3-Dichloropropene	1.1	U
0.5	Dibromochloromethane	1.1	U
0.5	Ethylbenzene	1.1	U
0.5	Freon 11	1.1	U
0.5	Freon 113	1.1	U
0.5	Freon 12	1.1	U
2	Hexachlorobutadiene	4.6	U
0.5	Hexane (N-Hexane)	1.1	U
2	Isopropyl Alcohol (Isopropanol)	4.6	U
0.5	m,p-Xylene	1.1	U
2	Methyl ethyl ketone	4.6	U
0.5	Methyl isobutyl ketone	1.1	U
2	Methyl Tert-Butyl Ether	4.6	U
5	Methylene chloride	11	U
0.5	o-Xylene	1.1	U
0.5	Styrene	1.1	U
0.5	Tetrachloroethene (PCE)	1.1	U
10	TNMOC ref. to Heptane (MW=100)	23	U
0.5	Toluene	1.1	U
0.5	trans-1,2-Dichloroethene	1.1	U
0.5	trans-1,3-Dichloropropene	1.1	U
0.5	Trichloroethene (TCE)	1.1	U
2	Vinyl acetate	4.6	U
0.5	Vinyl chloride	1.1	U

ATTACHMENT H

Summary of Indoor Air and Ambient Air Concentrations

Attachment H, Table H-1
Indoor Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Sample ID	IAQ_B1_011620 (B1)	IAQ_B1_011620K (B1)	IAQ_B2_011620 (B2)	IAQ_B3_011620 (B3)
SDG	2001476A	2001476A	2001476A	2001476A
Sample Location	IAQ-BISHOP-01	IAQ-BISHOP-01	IAQ-BISHOP-02	IAQ-BISHOP-03
Building ID	BISHOP	BISHOP	BISHOP	BISHOP
Sample Type	ORIG	DUP	ORIG	ORIG
Date	Jan 16, 2020	Jan 16, 2020	Jan 16, 2020	Jan 16, 2020
Parameter				
1,1,2,2-Tetrachloroethane	0.22 U	0.23 U	0.22 U	0.22 U
Tetrachloroethene (PCE)	0.37	0.23 U	0.30	0.21 U
Trichloroethene (TCE)	0.18 U	0.18 U	0.17 U	0.17 U
1,1,1-Trichloroethane (TCA)	0.18 U	0.18 U	0.18 U	0.17 U
1,1,2-Trichloroethane	0.18 U	0.18 U	0.18 U	0.17 U
1,1-Dichloroethene	0.065 U	0.067 U	0.064 U	0.063 U
1,1-Dichloroethane	0.13 U	0.14 U	0.13 U	0.13 U
1,2-Dichloroethane	0.13 U	0.14 U	0.13	0.13 U
cis-1,2-Dichloroethene	0.13 U	0.13 U	0.13 U	0.12 U
trans-1,2-Dichloroethene	0.65 U	0.67 U	0.64 U	0.63 U
trans-1,3-Dichloropropene	0.15 U	0.15 U	0.15 U	0.14 U
Carbon tetrachloride	0.49	0.46	0.44	0.48
Chloroform	0.16 J	0.17 J,N	0.18 J,N	0.16 J,N
Methylene chloride	1.1 U	1.2 U	1.1 U	1.1 U
Freon 11	1.3	1.4	1.4	1.4
Freon 113	0.50	0.50	0.51	0.50
Freon 12	2.5	2.5	2.4	2.5
Vinyl chloride	0.042 U	0.043 U	0.041 U	0.040 U
Acetone	41 J	33 J	120 J	46 J
Benzene	1.4	1.4	1.7	1.5
Toluene	3.1	3.2	8.9	5.5
Ethylbenzene	0.53	0.54	1.0	0.72
m,p-Xylene	1.6	1.6	3.2	2.3
o-Xylene	0.64	0.64	1.2	0.87
1,2-Dichlorobenzene	0.20 U	0.20 U	0.19 U	0.19 U
1,4-Dichlorobenzene	0.20 U	0.20 U	0.19 U	0.19 U
Chlorobenzene	0.15 U	0.15 U	0.15 U	0.14 U
Methyl Tert-Butyl Ether	0.59 U	0.60 U	0.58 U	0.57 U

U = chemical not detected. Lab detection limit for chemical is listed.
J = results are qualified as estimated
J,N = quantitatively estimated and presumptively present

All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample
DUP = field duplicate

Attachment H, Table H-1
Indoor Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Sample ID	IAQ_MR1_011720 (MR1)	IAQ_SC1_011620 (SC1)	IAQ_SC2_011620 (SC2)	IAQ_SC2_011620K (SC2)
SDG	2001476A	2001476A	2001476A	2001476A
Sample Location	IAQ-MR-01	IAQ-SC-01	IAQ-SC-02	IAQ-SC-02
Building ID	MADSEN ROOFING	STAR CITY AUTO BODY	STAR CITY AUTO BODY	STAR CITY AUTO BODY
Sample Type	ORIG	ORIG	ORIG	DUP
Date	Jan 17, 2020	Jan 16, 2020	Jan 16, 2020	Jan 16, 2020
Parameter				
1,1,2,2-Tetrachloroethane	0.23 U	0.23 U	0.22 U	0.22 U
Tetrachloroethene (PCE)	0.28	0.22 U	0.22 U	0.21 U
Trichloroethene (TCE)	0.18 U	0.18 U	0.17 U	0.17 U
1,1,1-Trichloroethane (TCA)	0.18 U	0.18 U	0.17 U	0.17 U
1,1,2-Trichloroethane	0.18 U	0.18 U	0.17 U	0.17 U
1,1-Dichloroethene	0.066 U	0.065 U	0.063 U	0.063 U
1,1-Dichloroethane	0.14 U	0.13 U	0.13 U	0.13 U
1,2-Dichloroethane	0.14 U	0.13 U	0.13 J	0.13 U
cis-1,2-Dichloroethene	0.13 U	0.13 U	0.13 U	0.12 U
trans-1,2-Dichloroethene	0.66 U	0.65 U	0.63 U	0.63 U
trans-1,3-Dichloropropene	0.15 U	0.15 U	0.14 U	0.14 U
Carbon tetrachloride	0.43	0.46	0.47	0.55
Chloroform	0.16 UJ	0.16 UJ	0.17 J,N	0.16 J,N
Methylene chloride	1.2 U	2.3	3.6	2.5
Freon 11	1.3	1.3	1.3	1.3
Freon 113	0.49	0.48	0.48	0.49
Freon 12	2.4	2.4	2.4	2.4
Vinyl chloride	0.043 U	0.042 U	0.041 U	0.040 U
Acetone	100 J	330 J	620 J	610 J
Benzene	1.6	3.8	3.6	3.8
Toluene	5.7	12	14	12
Ethylbenzene	0.72	2.2	4.4	4.7
m,p-Xylene	2.4	7.9	16	17
o-Xylene	0.93	2.6	4.9	5.2
1,2-Dichlorobenzene	0.20 U	0.20 U	0.19 U	0.19 U
1,4-Dichlorobenzene	0.20 U	0.20 U	0.19 U	0.19 U
Chlorobenzene	0.15 U	0.15 U	0.61	0.72
Methyl Tert-Butyl Ether	0.60 U	0.59 U	0.58 U	0.57 U

U = chemical not detected. Lab detection limit for chemical is listed.
J = results are qualified as estimated
J,N = quantitatively estimated and presumptively present
UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample
DUP = field duplicate

Attachment H, Table H-1
Indoor Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Sample ID	IAQ_SC3_011620 (SC3)	IAQ_SUN1_011720 (SUN1)	IAQ_SUN2_011720 (SUN2)	IAQ_TP1_011620 (TP1)
SDG	2001476A	2001476A	2001476A	2001476B
Sample Location	IAQ-SC-03	IAQ-SUN-01	IAQ-SUN-02	IAQ-TP-01
Building ID	STAR CITY AUTO BODY	SUNLAND	SUNLAND	TERRA PAVE
Sample Type	ORIG	ORIG	ORIG	ORIG
Date	Jan 16, 2020	Jan 17, 2020	Jan 17, 2020	Jan 16, 2020
Parameter				
1,1,2,2-Tetrachloroethane	0.22 U	0.22 U	0.23 U	0.22 U
Tetrachloroethene (PCE)	0.22 U	0.47	0.23 U	0.53
Trichloroethene (TCE)	0.18 U	0.17 U	0.18 U	0.17 U
1,1,1-Trichloroethane (TCA)	0.18 U	0.17 U	0.18 U	0.17 U
1,1,2-Trichloroethane	0.18 U	0.17 U	0.18 U	0.17 U
1,1-Dichloroethene	0.065 U	0.063 U	0.066 U	0.063 U
1,1-Dichloroethane	0.13 U	0.13 U	0.14 U	0.13 U
1,2-Dichloroethane	0.13 U	0.13 U	0.14 U	0.14
cis-1,2-Dichloroethene	0.13 U	0.13 U	0.13 U	0.12 U
trans-1,2-Dichloroethene	0.65 U	0.63 U	0.66 U	0.63 U
trans-1,3-Dichloropropene	0.15 U	0.14 U	0.15 U	0.14 U
Carbon tetrachloride	0.47	0.40	0.48	0.46
Chloroform	0.18 J	0.16 UJ	0.16 UJ	0.27 J,N
Methylene chloride	2.4	1.1 U	1.2 U	4.9
Freon 11	1.3	1.3	1.3	1.3
Freon 113	0.48	0.48	0.49	0.46
Freon 12	2.5	2.4	2.5	2.4
Vinyl chloride	0.042 U	0.041 U	0.043 U	0.040 U
Acetone	380 J	19 J	18 J	100 J
Benzene	3.6	0.93	0.78	7.2
Toluene	11	1.7	1.5	50
Ethylbenzene	2.6	0.24 J,N	0.23 J,N	9.6
m,p-Xylene	9.0	0.78	0.74	37
o-Xylene	3.0	0.31	0.29	14
1,2-Dichlorobenzene	0.20 U	0.19 U	0.20 U	0.19 U
1,4-Dichlorobenzene	0.20 U	0.19 U	0.20 U	0.19 U
Chlorobenzene	0.16	0.15 U	0.15 U	0.14 U
Methyl Tert-Butyl Ether	0.59 U	0.57 U	0.60 U	0.57 U

U = chemical not detected. Lab detection limit for chemical is listed.
J = results are qualified as estimated
J,N = quantitatively estimated and presumptively present
UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample

Attachment H, Table H-1
Indoor Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Sample ID	IAQ_TP1_011620K2 (TP1)	IAQ_TP3_011620 (TP3)
SDG	L012004	2001476B
Sample Location	IAQ-TP-01	IAQ-TP-03
Building ID	TERRA PAVE	TERRA PAVE
Sample Type	SPLIT	ORIG
Date	Jan 16, 2020	Jan 16, 2020
Parameter		
1,1,2,2-Tetrachloroethane	0.14 U	1.1 U
Tetrachloroethene (PCE)	0.48	4.8
Trichloroethene (TCE)	0.054 U	0.84 U
1,1,1-Trichloroethane (TCA)	0.055 U	0.86 U
1,1,2-Trichloroethane	0.055 U	0.86 U
1,1-Dichloroethene	0.020 U	0.31 U
1,1-Dichloroethane	0.040 U	0.64 U
1,2-Dichloroethane	0.040 U	0.64 U
cis-1,2-Dichloroethene	0.040 U	0.62 U
trans-1,2-Dichloroethene	0.040 U	3.1 U
trans-1,3-Dichloropropene	0.045 U	0.71 U
Carbon tetrachloride	0.46	0.99 U
Chloroform	0.18 J,N	0.77 UJ
Methylene chloride	3.2	36
Freon 11	1.2	1.3
Freon 113	0.50	1.2 U
Freon 12	2.1	2.4
Vinyl chloride	0.013 U	0.20 U
Acetone	58 J	170 J
Benzene	5.9	48
Toluene	46	380
Ethylbenzene	10	69
m,p-Xylene	36	270
o-Xylene	17	100
1,2-Dichlorobenzene	0.12 U	0.94 U
1,4-Dichlorobenzene	0.16	0.94 U
Chlorobenzene	0.092 U	0.72 U
Methyl Tert-Butyl Ether	0.36 U	2.8 U

U = chemical not detected. Lab detection limit for chemical is listed.
J = results are qualified as estimated
J,N = quantitatively estimated and presumptively present
UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

ORIG = original sample
SPLIT = split sample

Attachment H, Table H-2
Indoor Air Monitoring Record
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Building	IAQ Sample ID	IAQ Sample Date	HVAC Operations (On/Off/No HVAC)	Comments
Bishop Company	IAQ_B1_011620 (B1) IAQ_B1_011620K (B1)	1/16/2020	Off	Carpet floors. Doors closed. One worker and two dogs inside. Typical office shift. No odors.
	IAQ_B2_011620 (B2)	1/16/2020	Off	Carpet floors. Door open. Three workers inside. No odor.
	IAQ_B3_011620 (B3)	1/16/2020	Off	Cement floors. Warehouse gates on east and west sides are open. A few workers inside. No odors.
Madsen Roofing	IAQ_MR1_011720 (MR1)	1/17/2020	Off	Carpet floor. Door closed. Container of glass wipes and small bottle of white out in vicinity. Unidentifiable odor.
Star City Auto Body	IAQ_SC1_011620 (SC1)	1/16/2020	Off	Cement floors. Two warehouse gates open. Several cars nearby. Several spray cans and car parts around. Compressed air hose next to can. Slight odor.
	IAQ_SC2_011620 (SC2) IAQ_SC2_011620K (SC2)	1/16/2020	Off	Cement floors. Warehouse gates open. Several spray cans, containers, and paint cans around. Slight odor.
	IAQ_SC3_011620 (SC3)	1/16/2020	Off	Tile floors. Door closed. Spray can of Fireade next to can. No odor.
Sunland Enterprises	IAQ-SUN-01 (SUN1)	1/17/2020	Off	Cement floors. Door closed. Gate open. Several parts, a welding machine, and large container of soap in vicinity.
	IAQ-SUN-02 (SUN2)	1/17/2020	Off	Cement floors. Several machines around. One worker in area. Machine oil odor.
Terra Pave	IAQ_TP1_011620 (TP1) IAQ_TP1_011620K2 (TP1)	1/16/2020	Off	Carpet floors. Doors closed. Few workers and one dog in area. No odors.
	IAQ_TP3_011620 (TP3)	1/16/2020	Off	Cement floors. Warehouse door partially open. Several machines, containers of hydraulic oil, and spray cans around. Gasoline can in vicinity. Odor of chemicals present.
Ambient Air	IAQ_AA1_011620 (AA1)	1/16/2020	No HVAC	Several trucks, asphalt trailers, and forklifts around. Slight odor.
	IAQ_AA3_011620 (AA3)	1/16/2020	No HVAC	Several cars parked near can. No odors.
	IAQ_AA95_011720 (AA95)	1/17/2020	No HVAC	Forklift, truck, and two dogs around. No odors.

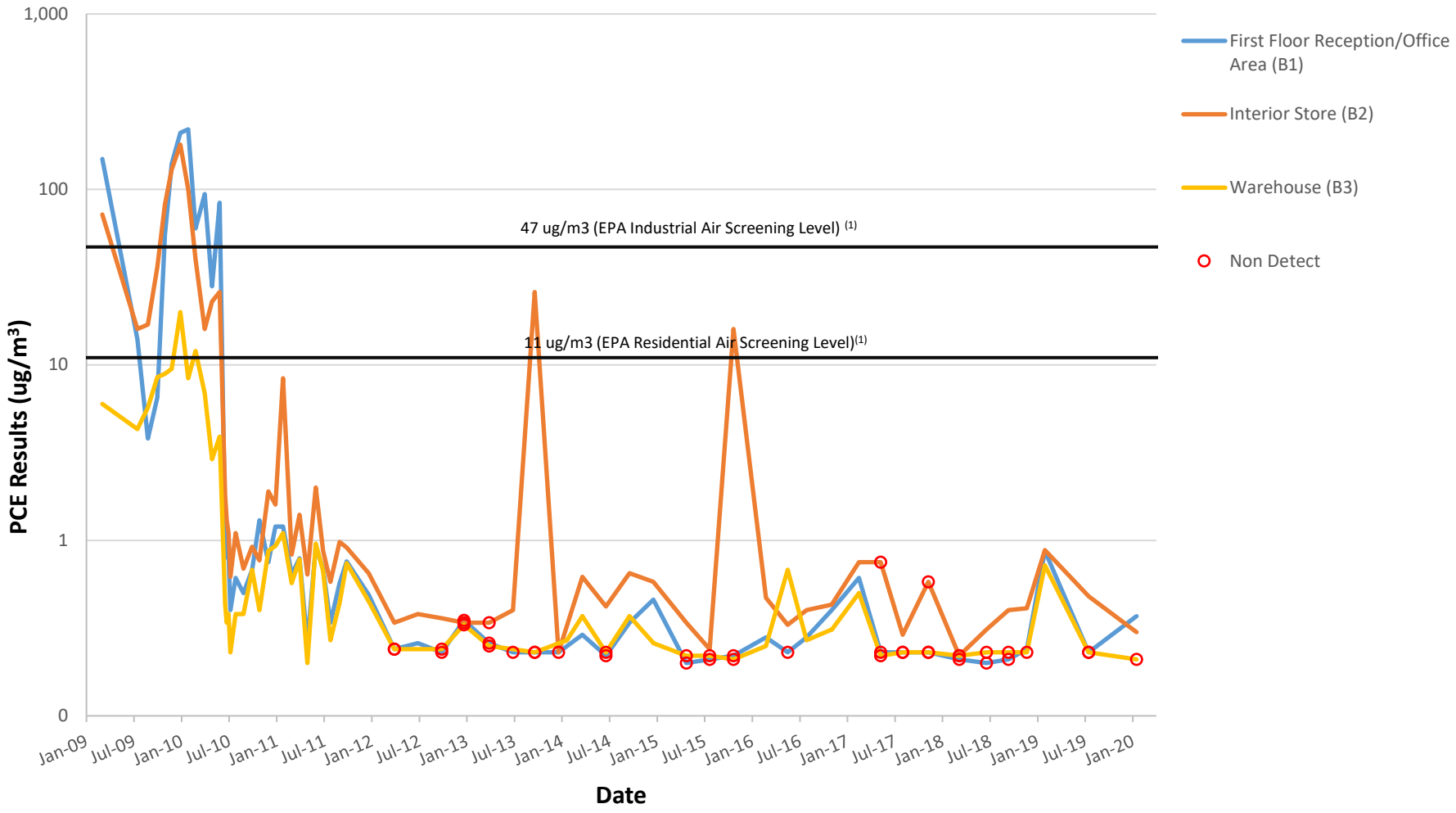
Attachment H, Table H-3
Ambient Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2020

Sample ID	IAQ_AA1_011620 (AA1)	IAQ_AA3_011620 (AA3)	IAQ_AA95_011720 (AA95)
SDG	2001476B	2001476A	2001476B
Sample Location	IAQ-AMB-01	IAQ-AMB-03	IAQ-AMB-95
Building ID	AMBIENT AIR	AMBIENT AIR	SUNLAND
Sample Type	ORIG	ORIG	ORIG
Date	Jan 16, 2020	Jan 16, 2020	Jan 17, 2020
Parameter			
1,1,2,2-Tetrachloroethane	0.22 U	0.22 U	0.20 U
Tetrachloroethene (PCE)	0.22 U	0.22 U	0.20 U
Trichloroethene (TCE)	0.18 U	0.17 U	0.16 U
1,1,1-Trichloroethane (TCA)	0.18 U	0.17 U	0.16 U
1,1,2-Trichloroethane	0.18 U	0.17 U	0.16 U
1,1-Dichloroethene	0.065 U	0.063 U	0.059 U
1,1-Dichloroethane	0.13 U	0.13 U	0.12 U
1,2-Dichloroethane	0.13 U	0.13 U	0.12 U
cis-1,2-Dichloroethene	0.13 U	0.13 U	0.12 U
trans-1,2-Dichloroethene	0.65 U	0.63 U	0.59 U
trans-1,3-Dichloropropene	0.15 U	0.14 U	0.14 U
Carbon tetrachloride	0.46	0.47	0.49
Chloroform	0.16 UJ	0.16 UJ	0.14 UJ
Methylene chloride	1.1 U	3.2	1.0 U
Freon 11	1.3	1.3	1.3
Freon 113	0.48	0.49	0.49
Freon 12	2.4	2.5	2.4
Vinyl chloride	0.042 U	0.041 U	0.038 U
Acetone	38 J	28 J	8.5 J
Benzene	1.1	1.4	0.77
Toluene	4.2	2.5	1.6
Ethylbenzene	0.46	0.47	0.28
m,p-Xylene	1.4	1.4	0.90
o-Xylene	0.56	0.56	0.34
1,2-Dichlorobenzene	0.20 U	0.19 U	0.18 U
1,4-Dichlorobenzene	0.20 U	0.19 U	0.18 U
Chlorobenzene	0.15 U	0.15 U	0.14 U
Methyl Tert-Butyl Ether	0.59 U	0.57 U	0.54 U

U = chemical not detected. Lab detection limit for chemical is listed.
J = results are qualified as estimated
UJ = analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample

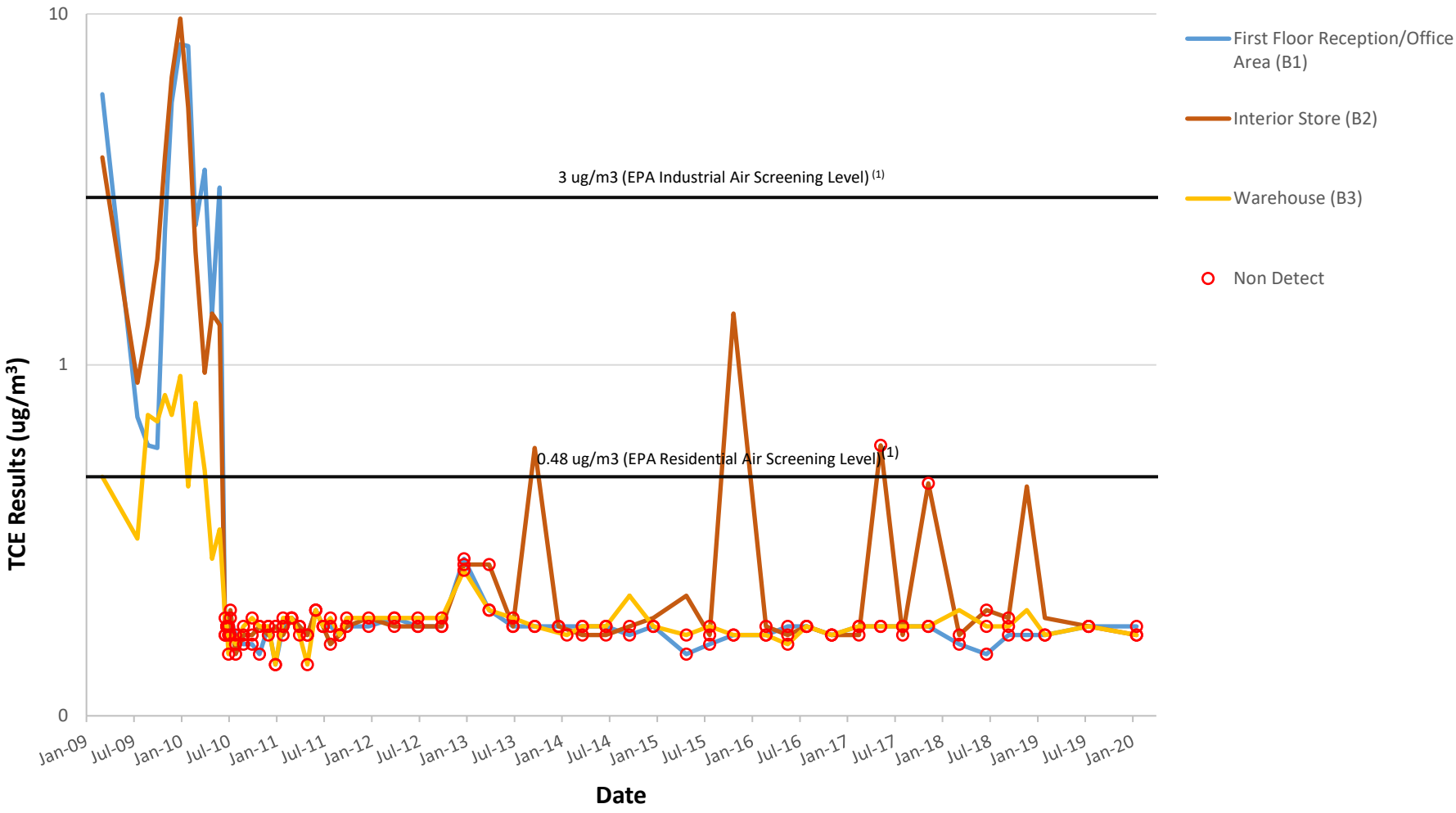
Attachment H, Figure H-1
Indoor Air Quality Tetrachloroethene (PCE) Results
Bishop Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

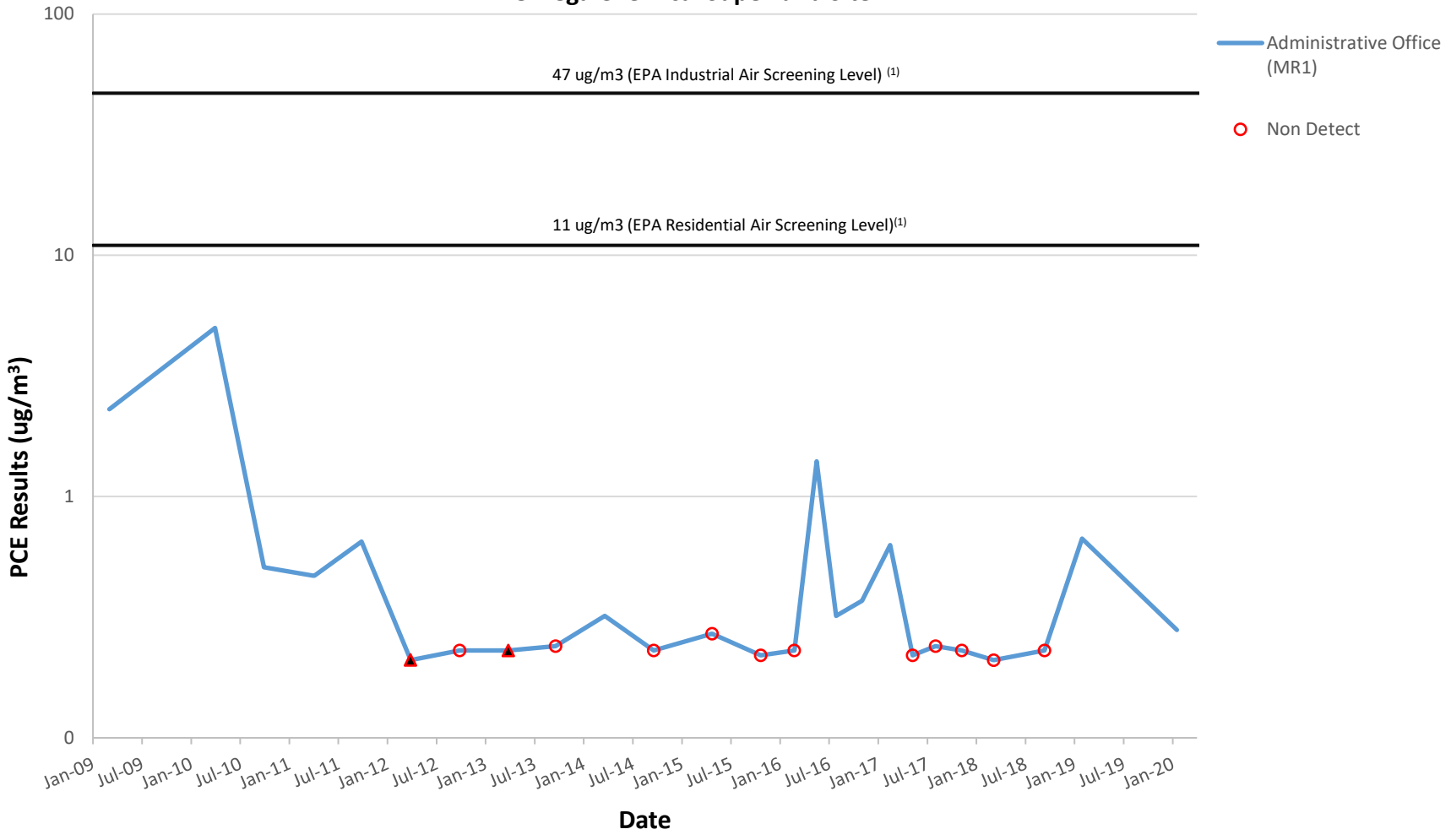
Attachment H, Figure H-2
Indoor Air Quality Trichloroethene (TCE) Results
Bishop Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

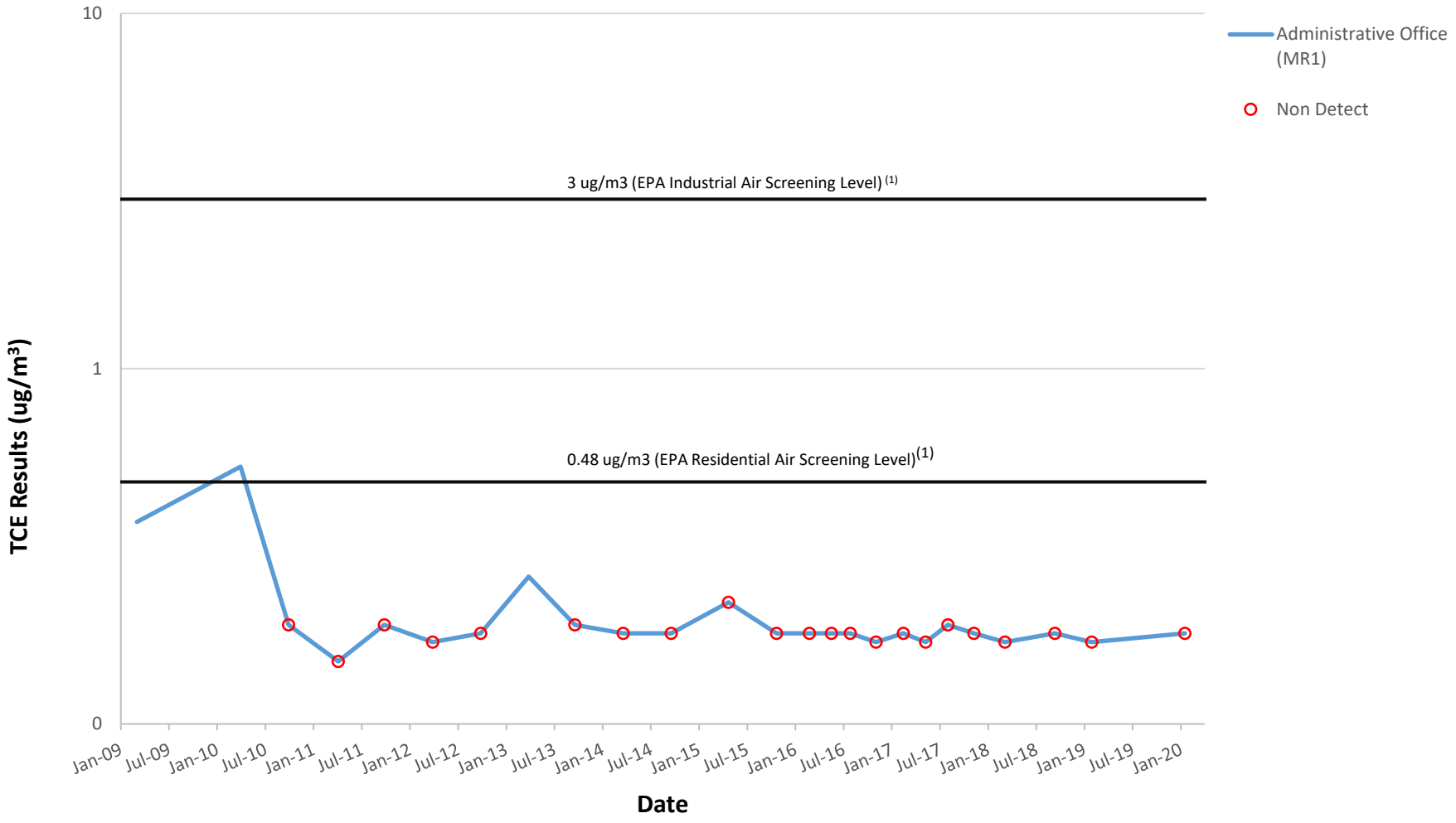
Attachment H, Figure H-3
Indoor Air Quality Tetrachloroethene (PCE) Results
Madsen Roofing Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

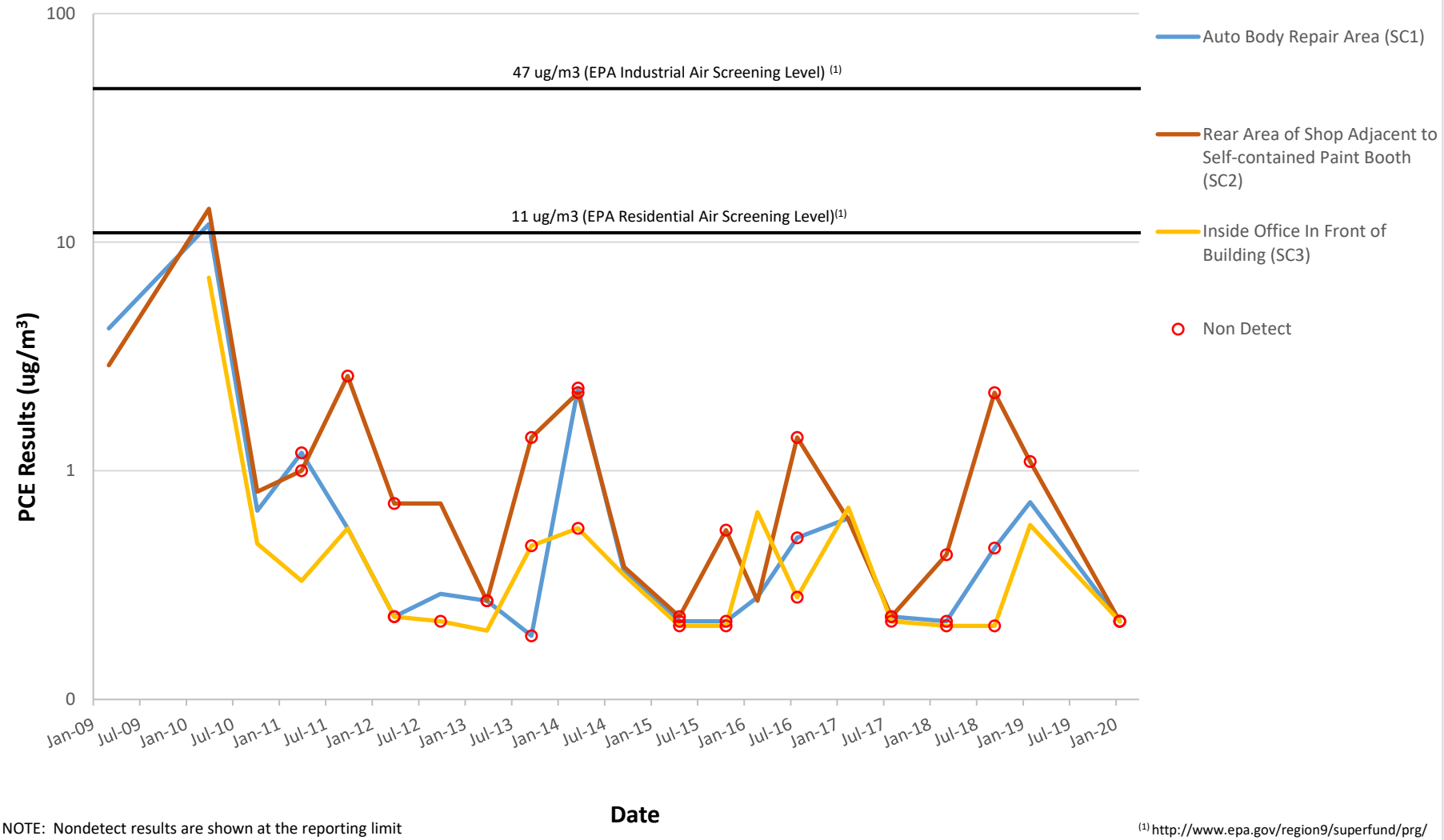
Attachment H, Figure H-4
Indoor Air Quality Tetrachloroethene (TCE) Results
Madsen Roofing Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

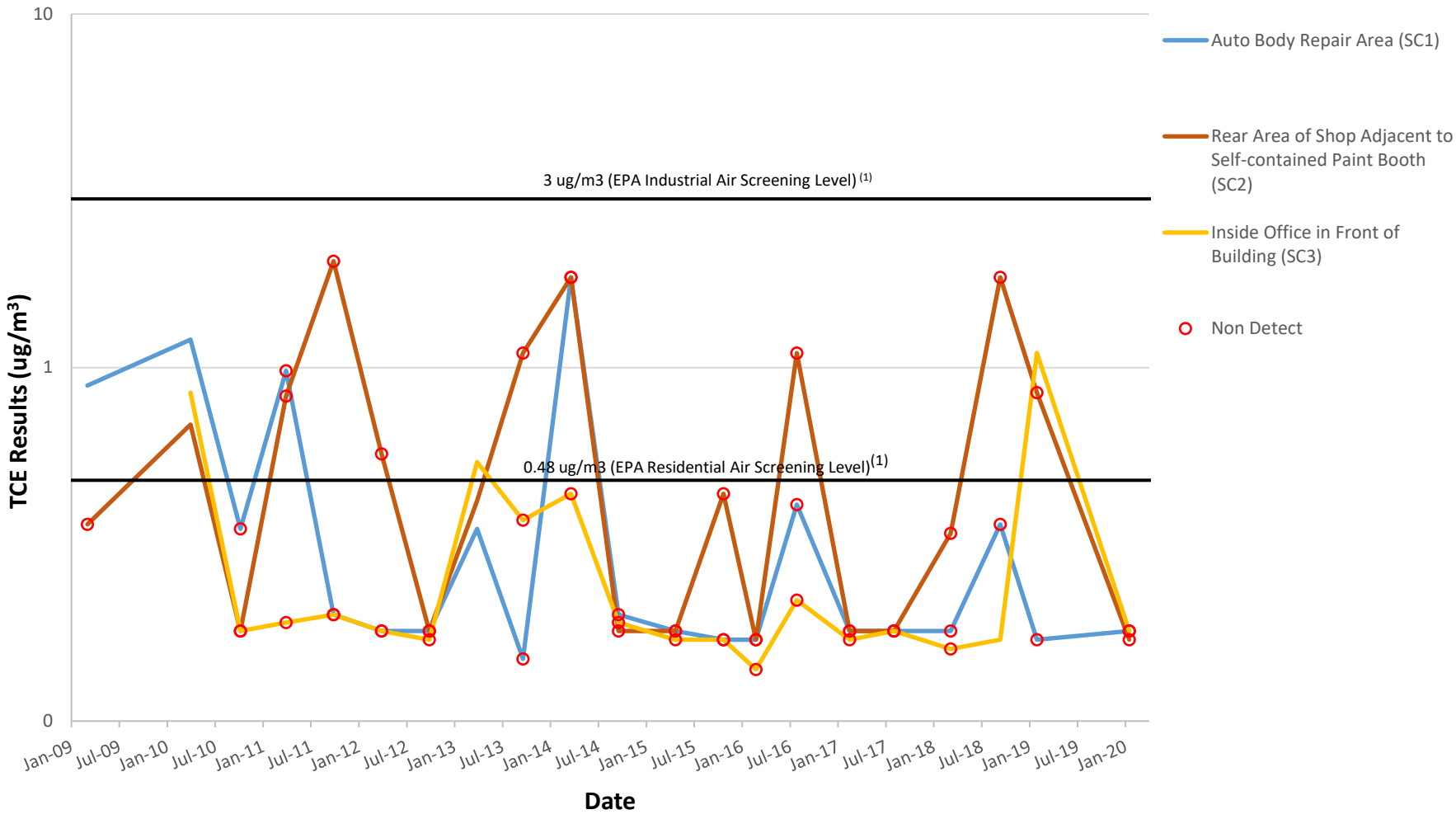
Attachment H, Figure H-5
Indoor Air Quality Tetrachloroethene (PCE) Results
Star City Auto Body Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

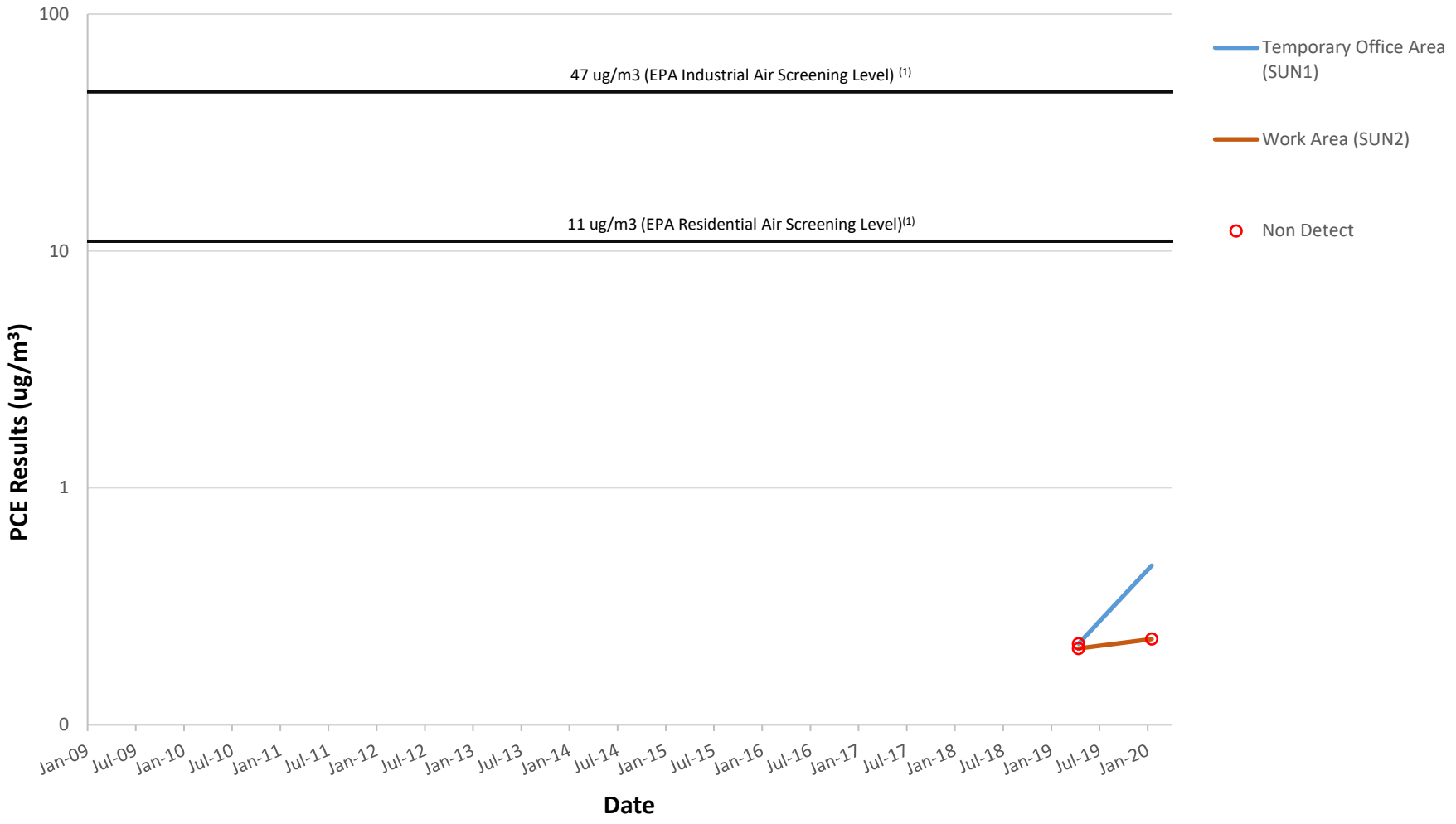
Attachment H, Figure H-6
Indoor Air Quality Trichloroethene (TCE) Results
Star City Auto Body Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

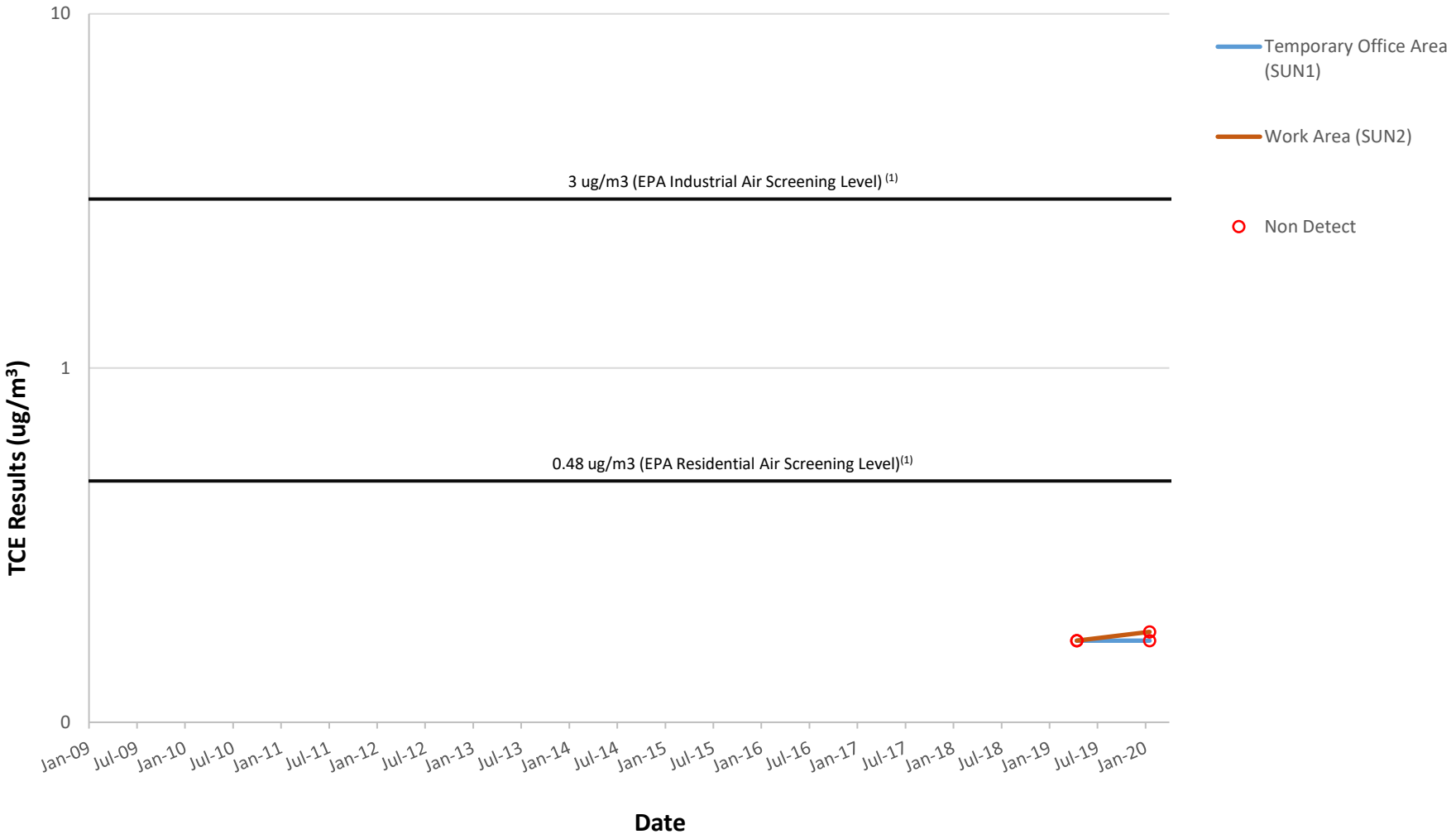
Attachment H, Figure H-7
Indoor Air Quality Tetrachloroethene (PCE) Results
Sunland Enterprises Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

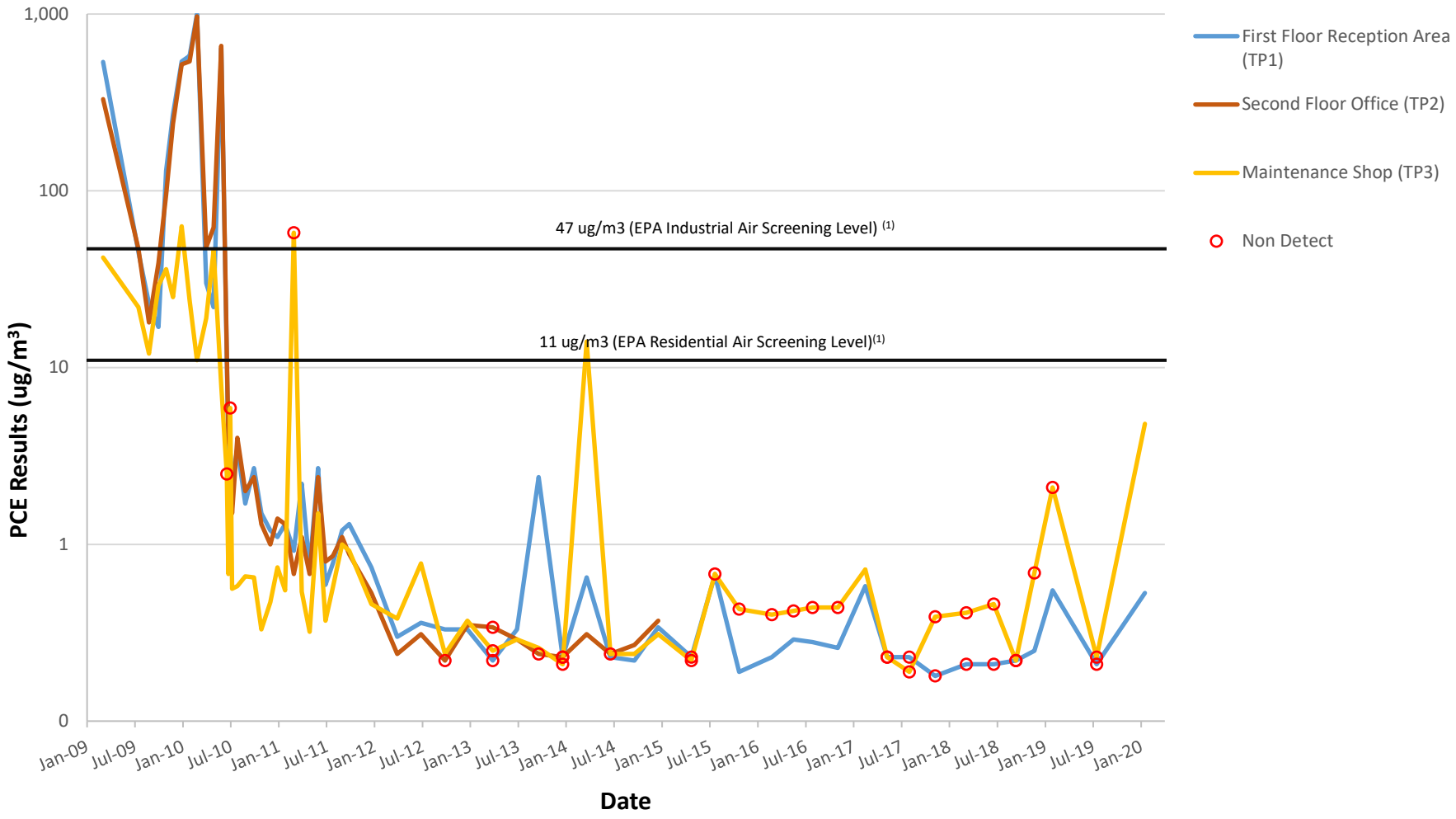
Attachment H, Figure H-8
Indoor Air Quality Trichloroethene (TCE) Results
Sunland Enterprises Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

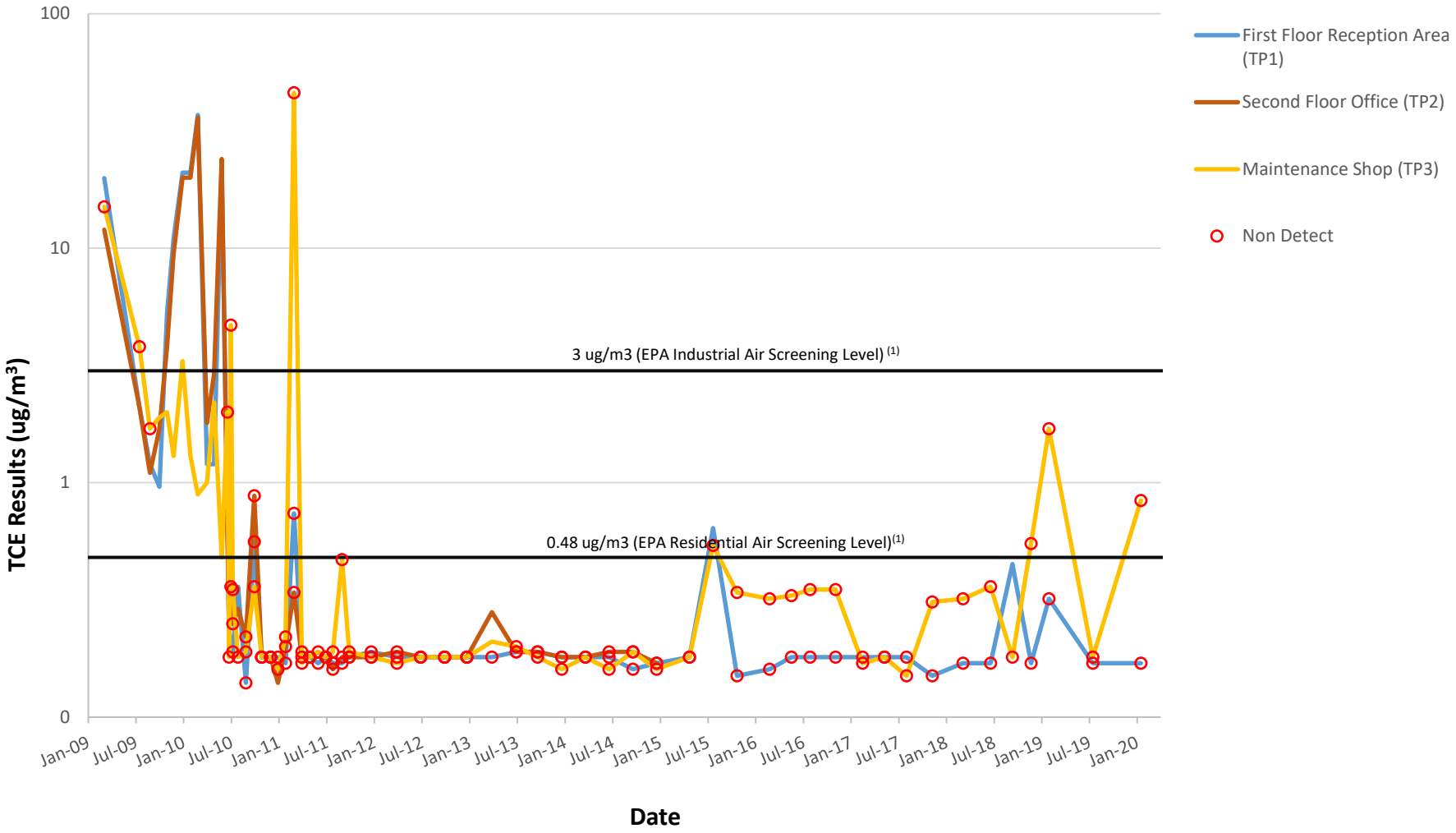
Attachment H, Figure H-9
Indoor Air Quality Tetrachloroethene (PCE) Results
Terra Pave Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

Attachment H, Figure H-10
Indoor Air Quality Trichloroethene (TCE) Results
Terra Pave Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

Ambient Air Sample Results

Sample ID	AA1	AA3	AA95
Sample Type	ORIG	ORIG	ORIG
Date	1/16/2020	1/16/2020	1/17/2020
Parameter			
PCE	0.22 U	0.22 U	0.20 U
TCE	0.18 U	0.17 U	0.16 U

All units in ug/m3
ug/m3 = micrograms per cubic meter of air
PCE = Tetrachloroethene
TCE = Trichloroethene
U = chemical not detected. Lab detection limit for chemical is listed.
ORIG = original sample

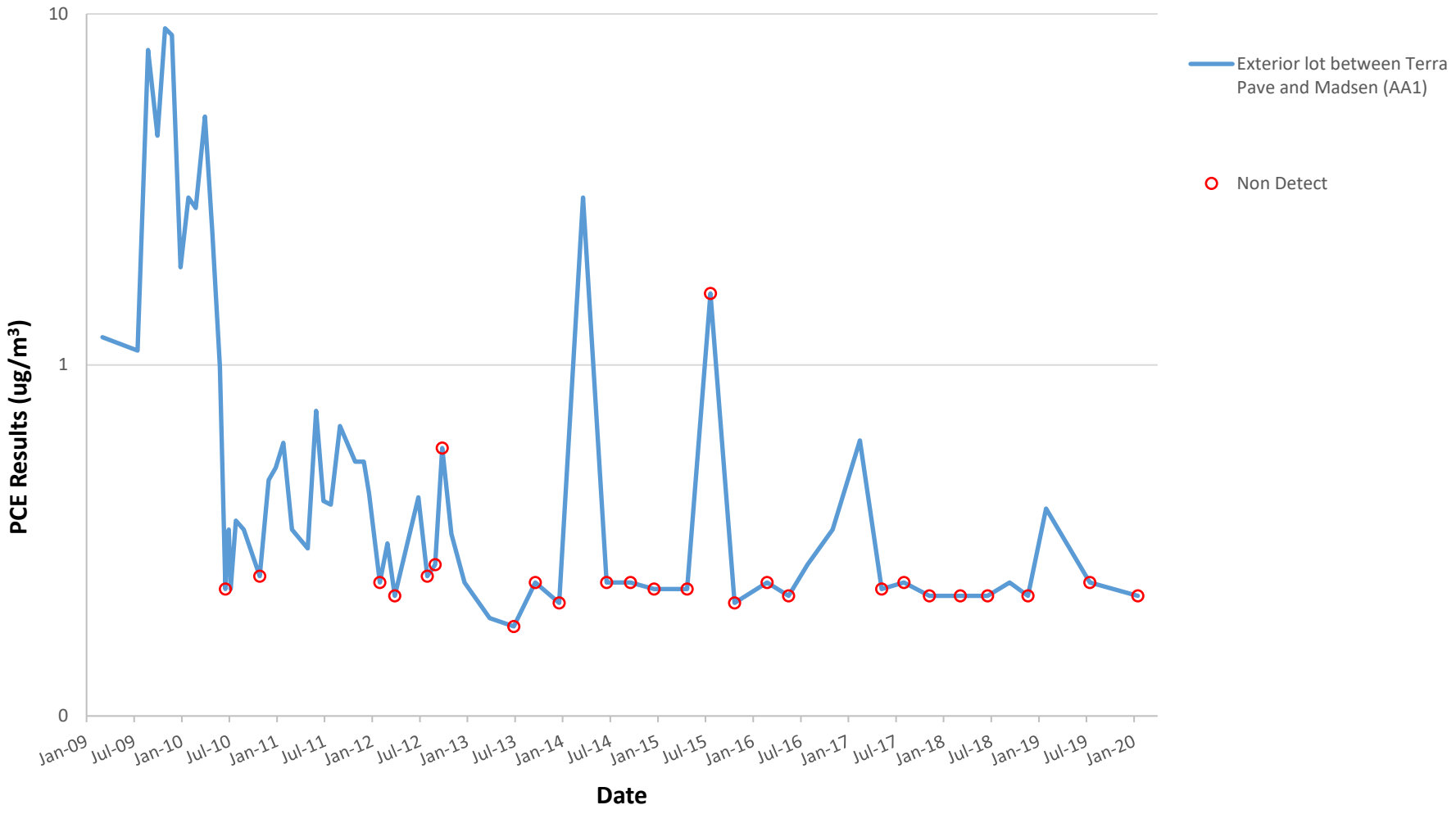
- Ambient Air Sample
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- OU-1 Boundary
- Former Omega Chemical Property Boundary

ddms
de maximis, inc.

Reviewed By: LM
Drawn By: KM
Date: 4/24/2020

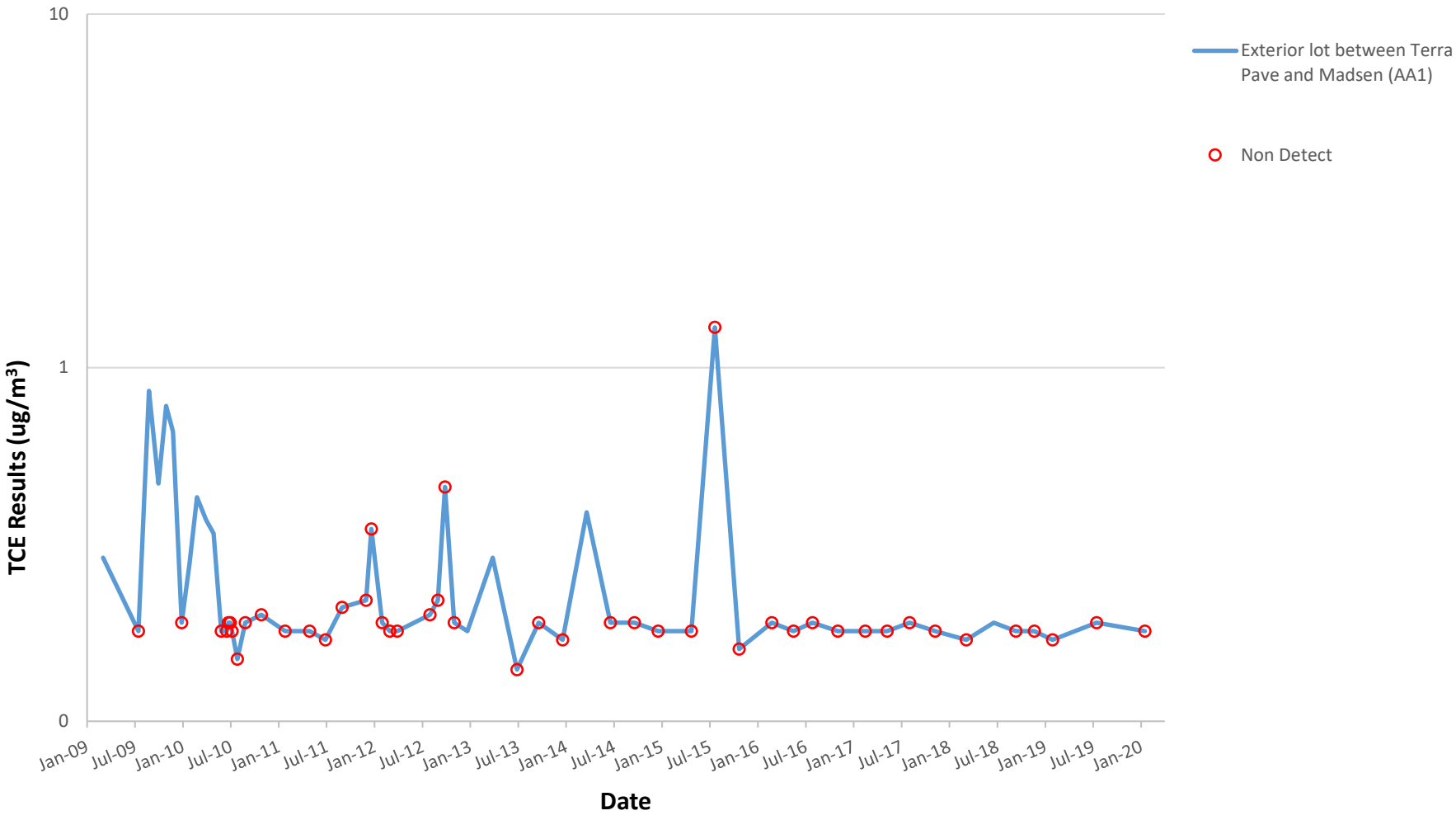
Attachment H, Figure H-11
Quarterly Ambient Air Concentrations
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2020

Attachment H, Figure H-12
Ambient Air Quality Tetrachloroethene (PCE) Results
Ambient Air - 01
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



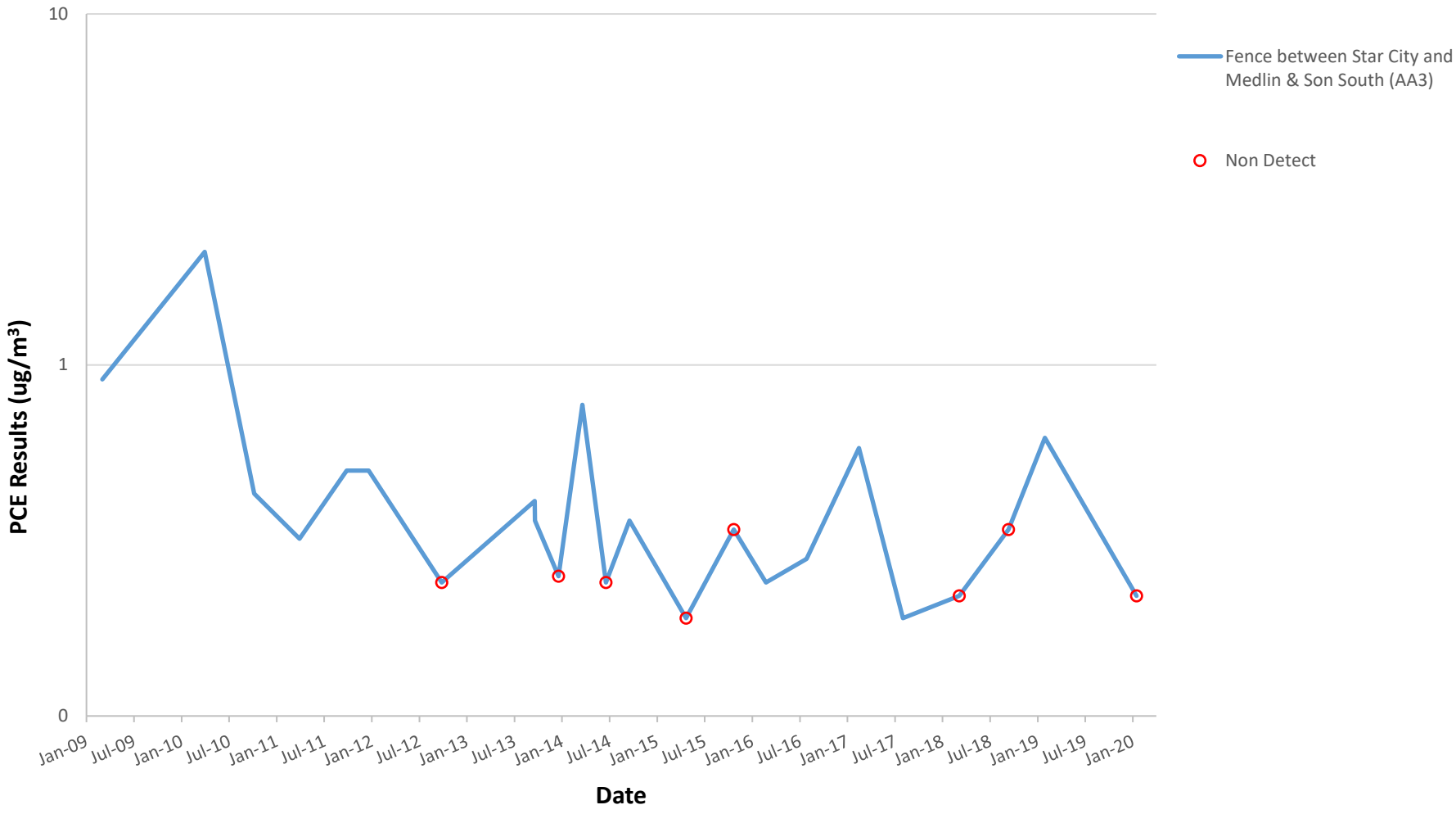
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-13
Ambient Air Quality Trichloroethene (TCE) Results
Ambient Air - 01
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



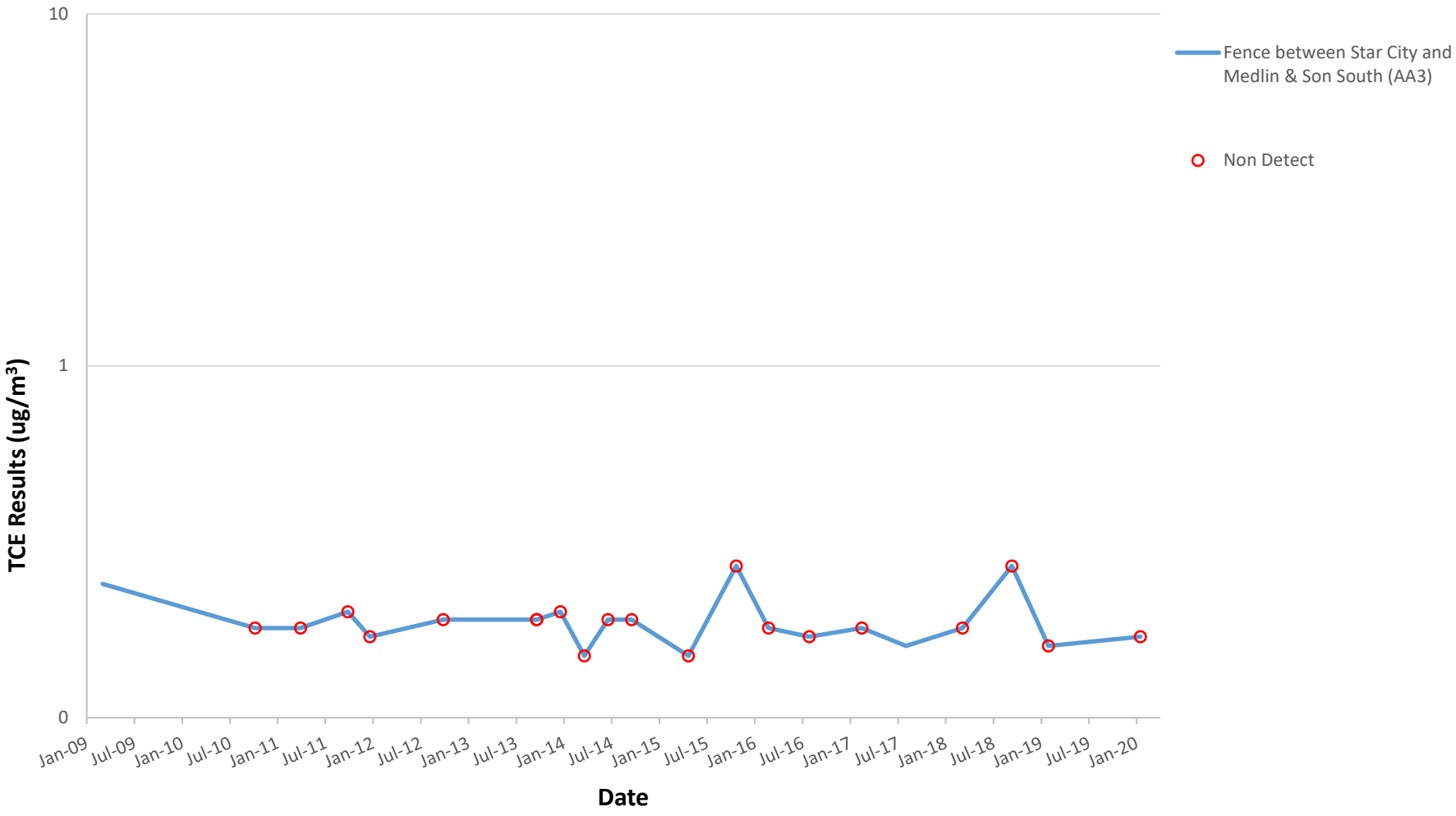
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-14
Ambient Air Quality Tetrachloroethene (PCE) Results
Ambient Air - 03
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



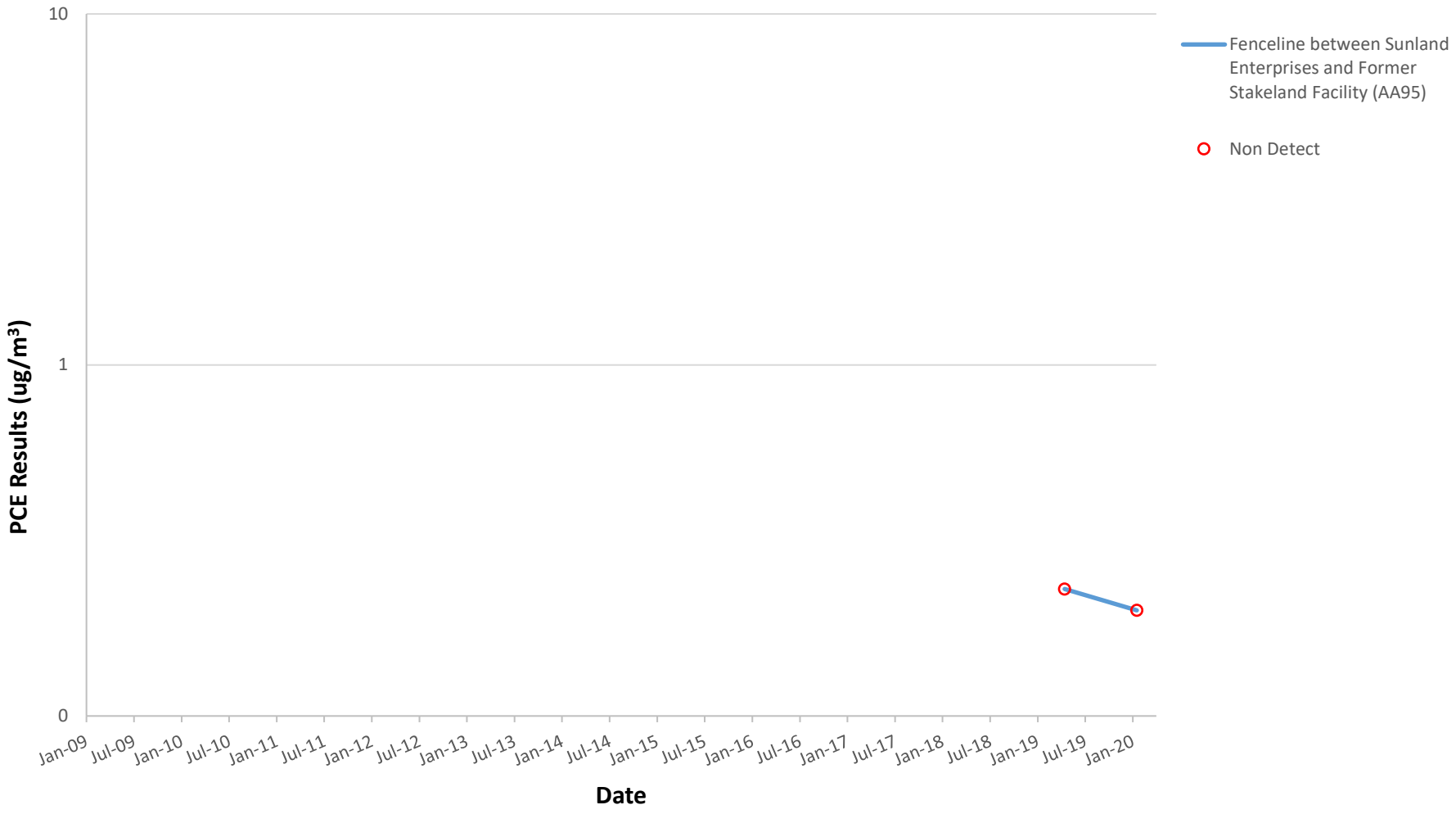
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-15
Ambient Air Quality Trichloroethene (TCE) Results
Ambient Air - 03
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



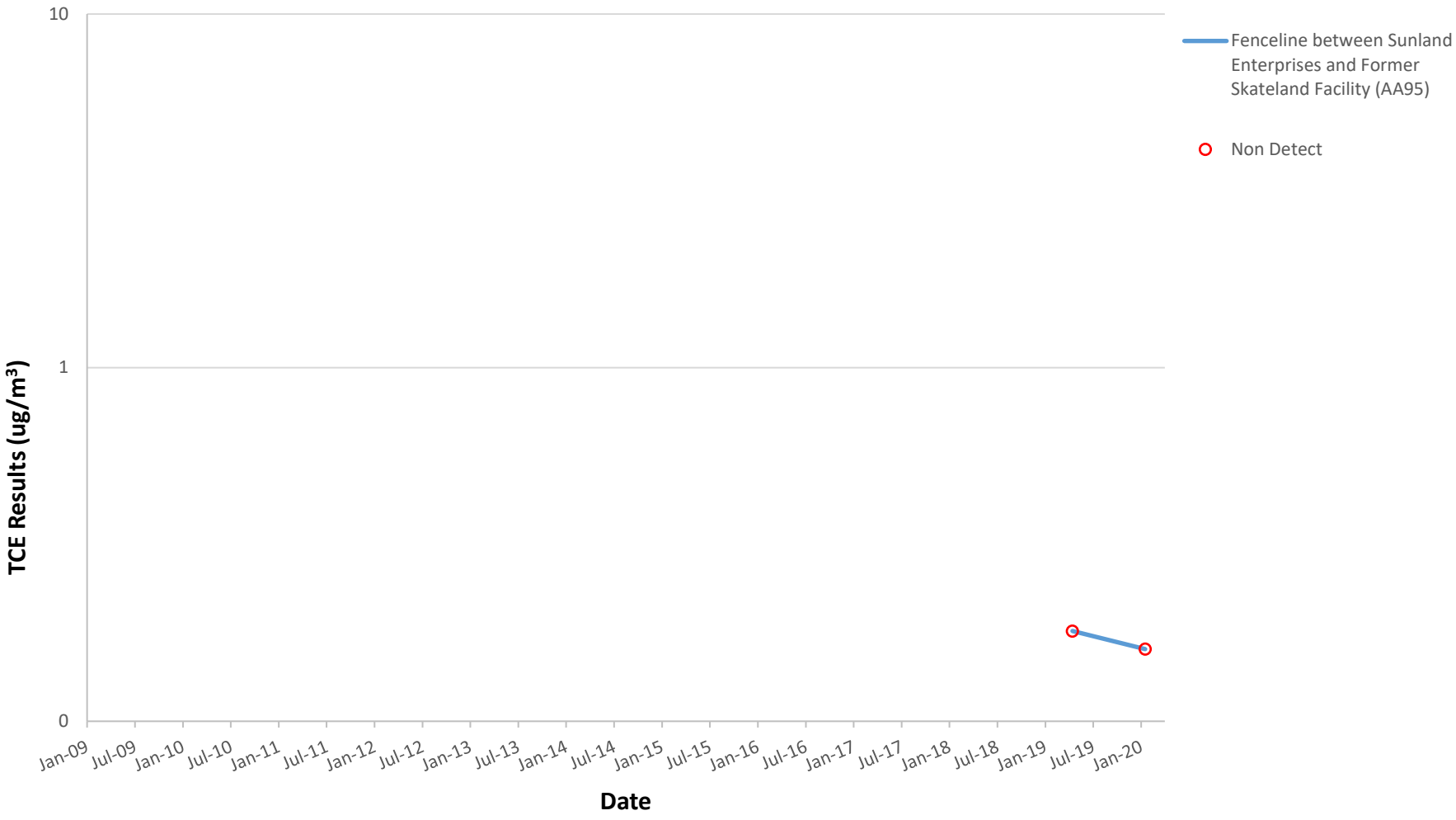
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-16
Ambient Air Quality Tetrachloroethene (PCE) Results
Ambient Air - 95
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-17
Ambient Air Quality Trichloroethene (TCE) Results
Ambient Air - 95
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.