Feeney, John M - DNR

From: Enright, Alia <AEnright@trccompanies.com>
Sent: Tuesday, September 20, 2022 2:14 PM
To: Feeney, John M - DNR
Cc: Amber Thomas; Sellwood, Stephen
Subject: Grafton Lime Kiln Landfill - BRRTS #02-46-549906 and #02-46-000743
Attachments: 2076 First Ave Notification Letter.pdf; Grafton Vapor Table - 2076 First Ave. & 2020 S Green Bay Rd..pdf; Figure 1 - 2076 First Ave..pdf; Figure 2 - 2020 S Green Bay Rd..pdf; J64672-1 UDS Level 2 Report Final Report.pdf

Hello John,

Please see the attached letter and results for the vapor sampling conducted at 2076 First Ave. and 2020 S Green Bay Rd. on Aug. 16 & 19, 2022. The Village is distributing the 2076 First Ave. letter and attachments to the property owner, tenant, and their legal counsel.

These locations were sampled as proposed in the 12/30/21 SIWP for BRRTS #02-46-549906 & #02-46-000743. The complete vapor sampling results table, figures, and lab report (for both 2076 First Ave. and 2020 S Green Bay Rd.) are also attached.

- Indoor air concentrations were less than applicable VALs, indicating concentrations inside the buildings are safe for their continued current use.
- The concentration below the 2076 First Ave. Storage Shed slab (VP-2076FA-03) exceeded the applicable sub-slab VRSL. However, the paired indoor air sample (IA-2076FA-03) was significantly below the VAL. Based on TRC's field work conducted at the property, it appeared that this Storage Shed is used by the tenant for storage, is not occupied for long periods of time, and no women of child-bearing age (15-45) occupy the Storage Shed. We are working with the property owner/tenant to verify these observations are accurate. Based on the indoor air concentration and lack of Storage Shed occupancy, no immediate actions for this Storage Shed are warranted.
- All of these vapor sampling locations will be resampled again in the winter months, as proposed in the SIWP.
- The next steps in the investigation process are consistent with what we proposed previously, i.e., proceeding with soil sampling at 2076 First Ave. consistent with the SIWP.

Thank you,
Alia

Alia Enright, PE (WI, CO)
Project Engineer

TRC
1526 Cole Blvd, Suite 150, Lakewood, CO 80401
F 303.792.0122 | **C** 608.572.3845
LinkedIn | Twitter | Blog | TRCcompanies.com

GRAFTON
QUALITY LIFE. NATURALLY.

September 19, 2022

Brian Julien
Grafton Investments, LLC
35056 W Old Woods
Oconomowoc, WI 53066

Michael Steger
2076 First Ave.
Grafton, WI 53024

Subject: Vapor Sample Results for 2076 First Ave. Property, Grafton, WI
Lime Kiln Landfill, WDNR License No. 3602
BRRTS No. 02-46-549906 and 02-46-000743

Dear Mr. Julia and Mr. Steger:

TRC, on behalf of the Village of Grafton, completed sub-slab vapor, indoor air, and ambient air sampling from the buildings located at 2076 First Ave., Grafton, WI (Site) in August 2022 to evaluate if a potential for vapor intrusion exists. This first round of sampling was performed in accordance with the *Site Investigation Workplan (SIWP)* (TRC, 2021[1]), which was previously provided to you.

The purpose of this letter is to provide you with the results of the recent vapor investigation sampling conducted at your property on August 16 and 19, 2022. The sampling included three sub-slab vapor sampling locations (VP-2076FA-01, VP-2076FA-02, and VP-2076FA-03, with one duplicate sample VP-DUP-01 at VP-2076FA-01), three indoor air samples (IA-2076FA-01, IA-2076FA-02, and IA-2076FA-03, with one duplicate sample IA-DUP-01 at IA-2076FA-02), and one ambient air sample (OA-2076FA-01). The sample locations are shown as yellow squares on Figure 1 (Attachment 1). Samples were submitted for laboratory analysis by Eurofins Environment Testing for an approved list of chlorinated volatile organic compounds (CVOCs). The laboratory analytical results from the sampling event are included in the attached table (Attachment 2) and the laboratory analytical report is included as Attachment 3 (note: results for samples collected on another property have been redacted).

The results shown in the table are compared to the respective WDNR Large Commercial/Commercial Vapor Risk Screening Levels (VRSL) or Vapor Action Levels (VALs). The results of the indoor air sampling showed that **no CVOCs were detected in the indoor air or ambient air samples at concentrations above the VALs**.

[1] TRC. 2021. Site Investigation Workplan. Lime Kiln Park and West Plume. December 30, 2021.

The results of the sub-slab vapor sampling showed that the samples from below your main building slab did not exceed the VRSLs. The sample collected from below the storage shed (VP-2076FA-03) exceeded the VRSL for trichloroethene (TCE); however, the associated indoor air sample (IA-2076FA-03) from the storage shed was at an acceptable level, significantly below the VAL.

Based on TRC's field work conducted at the property, it appeared that this storage shed is used by the tenant for storage, is not occupied for long periods of time, and no women of child-bearing age (15-45) occupy the storage shed. **Can you verify that these observations are accurate?**

The Village and TRC continue to discuss results of the investigation with the WDNR and will follow up with updates for future work at the site.

If you have any questions concerning the enclosed information, please contact me at 262-375-5325 or Alia Enright with TRC at 608-572-3845. Your cooperation in this matter is greatly appreciated.

Sincerely,

TRC

Amber Thomas, P.E.
Village of Grafton
Director of Public Works/Village Engineer

Attachments:
1. Figure 1 – Sampling Locations, 2076 First Ave.
2. Table – 2076 First Ave. Vapor Sampling Results
3. Laboratory Analytical Report

cc: John Feeney – WDNR (electronic only)
Alia Enright P.E., TRC (electronic only)
Michael Herbrand – Houseman & Feind (electronic only)
Jim Guyette – Guyette Law (electronic only)

LEGEND

- BORING
- OUTDOOR (AMBIENT) AIR SAMPLE (TRC)
- PAIRED SUB-SLAB/INDOOR AIR VAPOR SAMPLE (TRC)
- TEMPORARY WELL
- PROPOSED GEOPROBE BORING
- PROPOSED TEMPORARY
- PROPOSED WATER TABLE MONITORING
- MONITORING WELL LOCATION
- MAIN BUILDING
- STORAGE SHED
- SITE BOUNDARY
- TAX PARCEL
- *(0.06)* TCE SOIL CONCENTRATION IN PPM

NOTES

1. BASE MAP IMAGERY FROM ORTHOPHOTO CONSORTIUM (WROC) AND THE SOUTHEAST WI REGIONAL PLANNING COMMISSION (SEWRPC) (2020).
2. PREVIOUS SOIL BORING/TEMPORARY WELL LOCATIONS AND TCE CONCENTRATIONS OBTAINED FROM AECOM FIGURE 4: GEOPROBE LOCATION MAP DATED FEBRUARY 2017.

N

0 80 160 Feet

1 " = 80 '
1:960

PROJECT:
BRRTS #02-46-549906 AND #02-46-000743
LIME KILN PARK AND WEST PLUME
GRAFTON, OZAUKEE COUNTY, WISCONSIN

TITLE:
SAMPLING LOCATIONS 2076 FIRST AVE.

DRAWN BY:	A. ADAIR	PROJ. NO.:	459265
CHECKED BY:	A. ENRIGHT		
APPROVED BY:	S. SELLWOOD		**FIGURE 1**
DATE:	SEPTEMBER 2022		

TRC
708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trccompanies.com

FILE NO.: 459265_001_SL.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

Plot Date: 9/14/2022, 12:24:53 PM by AADAIR -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\Village_of_Grafton\WI\Lime_Kiln_Landfill\2021_412091\459265_001_SL.mxd

TRC - GIS

2076 First Ave. Vapor Sampling Results
BRRTS #02-46-549906 and #02-46-000743
Lime Kiln Park and West Plume
Grafton, Ozaukee County, Wisconsin

Sub-Slab Vapor Samples					
Property	**WDNR Vapor Risk Screening Levels (VRSLs)**	**2076 First Ave.**			
Sample Location	**Large Commercial/ Industrial VRSL**	NE Corner of Main Building		West Side of Cells B and D	Storage Shed
Sample ID[1]		VP-2076FA-01	VP-DUP-01	VP-2076FA-02	VP-2076FA-03
Sample Duration[3]		30 min	30 min	27 min	30 min
Date Collected		08/19/2022	08/19/2022	08/19/2022	08/19/2022
Volatile Organic Compounds (µg/m^3)[4]					
1,1,1-Trichloroethane	2,200,000	310	310	0.30 J	310
trans-1,2-Dichloroethene	18,000	< 0.52	< 0.52	< 0.35	< 14
Trichloroethene	880	1.3 J	1.5 J	0.31 J	**6300**
cis-1,2-Dichloroethene	--	< 0.20	< 0.20	< 0.13	< 5.2
Trichlorotrifluoroethane, 1,1,2-	2,200,000	4500	3400	140	3000
Vinyl chloride	2,800	< 0.11	< 0.11	< 0.072	< 2.9

Indoor Air and Ambient Air Samples						
Property	**WDNR Vapor Action Levels (VALs)**	**2076 First Ave.**				
Sample Location	**Large Commercial/ Industrial VAL**	NE Corner of Main Building	West Side of Cells B and D		Storage Shed	Exterior, NE Corner of Main Building
Sample ID[2]		IA-2076FA-01	IA-2076FA-02	IA-DUP-01	IA-2076FA-03	OA-2076FA-01
Sample Duration[3]		8 hrs	10 hrs	10 hrs	8 hrs	8 hrs
Date Collected		08/16/2022	08/16/2022	08/16/2022	08/16/2022	08/16/2022
Volatile Organic Compounds (µg/m^3)[4]						
1,1,1-Trichloroethane	22,000	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
trans-1,2-Dichloroethene	180	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Trichloroethene	8.8	< 0.13	< 0.13	0.17 J	0.21 J	< 0.13
cis-1,2-Dichloroethene	--	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Trichlorotrifluoroethane, 1,1,2-	21,900	< 0.42	< 0.42	< 0.42	0.51 J	< 0.42
Vinyl chloride	28	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072

Notes:
Bold values exceed an applicable sub-slab vapor risk screening level or indoor air vapor action level
WDNR Large Commercial/Industrial Vapor Risk Screening Levels and Vapor Action Levels obtained from RR-0136 (February 2022) - https://dnr.wi.gov/files/PDF/pubs/rr/RR0136.pdf and EPA Vapor Intrusion Screening Levels (VISL)
Calculator - https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculato
< = Less than the detection limit.
-- = No standard established or data not collected.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate
ug/m^3 = Micrograms per cubic meter.
hr - hour
min - minutes

Footnotes:
(1) Each sub-slab sample was collected using a 6-liter Summa Canister with a flow controller set to 200 cubic centimeters per minute. A water dam and shut-in leak test were completed prior to sampling for quality assurance purposes
(2) Each indoor air sample was collected using a 6-liter Summa Canister with a flow controller set to 12.5 cubic centimeters per minute.
(3) Target sample durations were 30-minutes for sub-slab samples and 8-hours for indoor air samples, but select sample durations were modified to obtain sufficient sample volume.
(4) Samples were analyzed using Environmental Protection Agency (EPA) Toxic Organic-15 (TO-15) method for the above reported parameters

Created by: A. Enright 9/11/2022
Checked by: T. Perkins 9/13/2022

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-64672-1
Laboratory Sample Delivery Group: 200-64672
Client Project/Site: Site Investigation - Vapor

For:
TRC Environmental Corporation.
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Tom Perkins

Authorized for release by:
9/9/2022 6:27:57 PM

Kathryn Kelly, Project Manager II
(802)923-1021
Kathryn.Kelly@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 200-64672-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: TRC Environmental Corporation.

Project: Site Investigation - Vapor

Report Number: 200-64672-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

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

RECEIPT
The samples were received on 08/27/2022; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples IA-2020SGBR-01-2022Q3, IA-2076FA-01-2022Q3, IA-2076FA-02-2022Q3, IA-2076FA-03-2022Q3, IA-DUP-01-2022Q3, OA-2076FA-01-2022Q3, VP-2020SGBR-01-2022Q3, VP-2076FA-01-2022Q3, VP-2076FA-02-2022Q3, VP-2076FA-03-2022Q3 and VP-DUP-01-2022Q3 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/30/2022 and 08/31/2022.

Samples VP-2020SGBR-01-2022Q3[4X], VP-2076FA-01-2022Q3[1.5X], VP-2076FA-01-2022Q3[20X], VP-2076FA-03-2022Q3[40X], VP-DUP-01-2022Q3[1.5X] and VP-DUP-01-2022Q3[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Client Sample ID: IA-2076FA-01-2022Q3 — Lab Sample ID: 200-64672-2

No Detections.

Client Sample ID: IA-2076FA-02-2022Q3 — Lab Sample ID: 200-64672-3

No Detections.

Client Sample ID: IA-2076FA-03-2022Q3 — Lab Sample ID: 200-64672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.039	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	0.067	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.21	J	1.1	0.13	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	0.51	J	1.5	0.42	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA-DUP-01-2022Q3 — Lab Sample ID: 200-64672-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.031	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.17	J	1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: OA-2076FA-01-2022Q3 — Lab Sample ID: 200-64672-6

No Detections.

Client Sample ID: VP-2076FA-01-2022Q3 — Lab Sample ID: 200-64672-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	58		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Trichloroethene	0.24	J	0.30	0.036	ppb v/v	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	500	E	0.30	0.083	ppb v/v	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	71		4.0	0.78	ppb v/v	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	590		4.0	1.1	ppb v/v	20		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VP-2076FA-01-2022Q3 (Continued) — Lab Sample ID: 200-64672-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	310		1.6	0.32	ug/m3	1.5		TO-15	Total/NA
Trichloroethene	1.3	J	1.6	0.19	ug/m3	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	3800	E	2.3	0.63	ug/m3	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	390		22	4.3	ug/m3	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	4500		31	8.4	ug/m3	20		TO-15	Total/NA

Client Sample ID: VP-2076FA-02-2022Q3 — Lab Sample ID: 200-64672-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.054	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.058	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	19		0.20	0.055	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.30	J	1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.31	J	1.1	0.13	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	140		1.5	0.42	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-2076FA-03-2022Q3 — Lab Sample ID: 200-64672-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	57		8.0	1.6	ppb v/v	40		TO-15	Total/NA
Trichloroethene	1200		8.0	0.96	ppb v/v	40		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	400		8.0	2.2	ppb v/v	40		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	310		44	8.5	ug/m3	40		TO-15	Total/NA
Trichloroethene	6300		43	5.2	ug/m3	40		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	3000		61	17	ug/m3	40		TO-15	Total/NA

Client Sample ID: VP-DUP-01-2022Q3 — Lab Sample ID: 200-64672-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	57		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Trichloroethene	0.28	J	0.30	0.036	ppb v/v	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	490	E	0.30	0.083	ppb v/v	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	52		4.0	0.78	ppb v/v	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	450		4.0	1.1	ppb v/v	20		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	310		1.6	0.32	ug/m3	1.5		TO-15	Total/NA
Trichloroethene	1.5	J	1.6	0.19	ug/m3	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	3800	E	2.3	0.63	ug/m3	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	280		22	4.3	ug/m3	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	3400		31	8.4	ug/m3	20		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-2076FA-01-2022Q3

Lab Sample ID: 200-64672-2

Date Collected: 08/16/22 17:09

Matrix: Air

Date Received: 08/27/22 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 13:57	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 13:57	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 13:57	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 13:57	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 13:57	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 13:57	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 13:57	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 13:57	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/30/22 13:57	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 13:57	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 13:57	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 13:57	1

Client Sample ID: IA-2076FA-02-2022Q3

Lab Sample ID: 200-64672-3

Date Collected: 08/16/22 19:07

Matrix: Air

Date Received: 08/27/22 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 14:52	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 14:52	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 14:52	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 14:52	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 14:52	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 14:52	1

Client Sample ID: IA-2076FA-02-2022Q3

Lab Sample ID: 200-64672-3
Matrix: Air
Date Collected: 08/16/22 19:07
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 14:52	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 14:52	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/30/22 14:52	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 14:52	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 14:52	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 14:52	1

Client Sample ID: IA-2076FA-03-2022Q3

Lab Sample ID: 200-64672-4
Matrix: Air
Date Collected: 08/16/22 17:05
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 15:48	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 15:48	1
Trichloroethene	**0.039**	**J**	0.20	0.024	ppb v/v			08/30/22 15:48	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 15:48	1
Trichlorotrifluoroethane, 1,1,2-	**0.067**	**J**	0.20	0.055	ppb v/v			08/30/22 15:48	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 15:48	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 15:48	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 15:48	1
Trichloroethene	**0.21**	**J**	1.1	0.13	ug/m3			08/30/22 15:48	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 15:48	1
Trichlorotrifluoroethane, 1,1,2-	**0.51**	**J**	1.5	0.42	ug/m3			08/30/22 15:48	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 15:48	1

Client Sample ID: IA-DUP-01-2022Q3

Lab Sample ID: 200-64672-5
Matrix: Air
Date Collected: 08/16/22 00:00
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 22:11	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 22:11	1
Trichloroethene	**0.031**	**J**	0.20	0.024	ppb v/v			08/30/22 22:11	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 22:11	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 22:11	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 22:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 22:11	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 22:11	1
Trichloroethene	**0.17**	**J**	1.1	0.13	ug/m3			08/30/22 22:11	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 22:11	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 22:11	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 22:11	1

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Client Sample ID: OA-2076FA-01-2022Q3
Date Collected: 08/16/22 17:12
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-64672-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 23:04	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 23:04	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 23:04	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 23:04	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 23:04	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 23:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 23:04	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 23:04	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/30/22 23:04	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 23:04	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 23:04	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 23:04	1

Client Sample ID: VP-2076FA-01-2022Q3

Lab Sample ID: 200-64672-8

Date Collected: 08/19/22 12:50

Matrix: Air

Date Received: 08/27/22 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	58		0.30	0.059	ppb v/v			08/31/22 00:52	1.5
trans-1,2-Dichloroethene	<0.13		0.30	0.13	ppb v/v			08/31/22 00:52	1.5
Trichloroethene	0.24	J	0.30	0.036	ppb v/v			08/31/22 00:52	1.5
cis-1,2-Dichloroethene	<0.050		0.30	0.050	ppb v/v			08/31/22 00:52	1.5
Trichlorotrifluoroethane, 1,1,2-	500	E	0.30	0.083	ppb v/v			08/31/22 00:52	1.5
Vinyl chloride	<0.042		0.30	0.042	ppb v/v			08/31/22 00:52	1.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	310		1.6	0.32	ug/m3			08/31/22 00:52	1.5
trans-1,2-Dichloroethene	<0.52		1.2	0.52	ug/m3			08/31/22 00:52	1.5
Trichloroethene	1.3	J	1.6	0.19	ug/m3			08/31/22 00:52	1.5
cis-1,2-Dichloroethene	<0.20		1.2	0.20	ug/m3			08/31/22 00:52	1.5
Trichlorotrifluoroethane, 1,1,2-	3800	E	2.3	0.63	ug/m3			08/31/22 00:52	1.5
Vinyl chloride	<0.11		0.77	0.11	ug/m3			08/31/22 00:52	1.5

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	71		4.0	0.78	ppb v/v			08/31/22 18:22	20
trans-1,2-Dichloroethene	<1.8		4.0	1.8	ppb v/v			08/31/22 18:22	20
Trichloroethene	<0.48		4.0	0.48	ppb v/v			08/31/22 18:22	20
cis-1,2-Dichloroethene	<0.66		4.0	0.66	ppb v/v			08/31/22 18:22	20
Trichlorotrifluoroethane, 1,1,2-	590		4.0	1.1	ppb v/v			08/31/22 18:22	20
Vinyl chloride	<0.56		4.0	0.56	ppb v/v			08/31/22 18:22	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	390		22	4.3	ug/m3			08/31/22 18:22	20
trans-1,2-Dichloroethene	<7.0		16	7.0	ug/m3			08/31/22 18:22	20
Trichloroethene	<2.6		21	2.6	ug/m3			08/31/22 18:22	20
cis-1,2-Dichloroethene	<2.6		16	2.6	ug/m3			08/31/22 18:22	20
Trichlorotrifluoroethane, 1,1,2-	4500		31	8.4	ug/m3			08/31/22 18:22	20
Vinyl chloride	<1.4		10	1.4	ug/m3			08/31/22 18:22	20

Client Sample ID: VP-2076FA-02-2022Q3

Lab Sample ID: 200-64672-9

Date Collected: 08/19/22 12:23

Matrix: Air

Date Received: 08/27/22 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.054	J	0.20	0.039	ppb v/v			08/31/22 01:45	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/31/22 01:45	1

Client Sample ID: VP-2076FA-02-2022Q3

Lab Sample ID: 200-64672-9

Date Collected: 08/19/22 12:23
Matrix: Air
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.058	J	0.20	0.024	ppb v/v			08/31/22 01:45	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/31/22 01:45	1
Trichlorotrifluoroethane, 1,1,2-	19		0.20	0.055	ppb v/v			08/31/22 01:45	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/31/22 01:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.30	J	1.1	0.21	ug/m3			08/31/22 01:45	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/31/22 01:45	1
Trichloroethene	0.31	J	1.1	0.13	ug/m3			08/31/22 01:45	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/31/22 01:45	1
Trichlorotrifluoroethane, 1,1,2-	140		1.5	0.42	ug/m3			08/31/22 01:45	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/31/22 01:45	1

Client Sample ID: VP-2076FA-03-2022Q3

Lab Sample ID: 200-64672-10

Date Collected: 08/19/22 13:12
Matrix: Air
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	57		8.0	1.6	ppb v/v			08/31/22 02:39	40
trans-1,2-Dichloroethene	<3.5		8.0	3.5	ppb v/v			08/31/22 02:39	40
Trichloroethene	1200		8.0	0.96	ppb v/v			08/31/22 02:39	40
cis-1,2-Dichloroethene	<1.3		8.0	1.3	ppb v/v			08/31/22 02:39	40
Trichlorotrifluoroethane, 1,1,2-	400		8.0	2.2	ppb v/v			08/31/22 02:39	40
Vinyl chloride	<1.1		8.0	1.1	ppb v/v			08/31/22 02:39	40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	310		44	8.5	ug/m3			08/31/22 02:39	40
trans-1,2-Dichloroethene	<14		32	14	ug/m3			08/31/22 02:39	40
Trichloroethene	6300		43	5.2	ug/m3			08/31/22 02:39	40
cis-1,2-Dichloroethene	<5.2		32	5.2	ug/m3			08/31/22 02:39	40
Trichlorotrifluoroethane, 1,1,2-	3000		61	17	ug/m3			08/31/22 02:39	40
Vinyl chloride	<2.9		20	2.9	ug/m3			08/31/22 02:39	40

Client Sample ID: VP-DUP-01-2022Q3

Lab Sample ID: 200-64672-11

Date Collected: 08/19/22 00:00
Matrix: Air
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	57		0.30	0.059	ppb v/v			08/31/22 03:32	1.5
trans-1,2-Dichloroethene	<0.13		0.30	0.13	ppb v/v			08/31/22 03:32	1.5
Trichloroethene	0.28	J	0.30	0.036	ppb v/v			08/31/22 03:32	1.5
cis-1,2-Dichloroethene	<0.050		0.30	0.050	ppb v/v			08/31/22 03:32	1.5
Trichlorotrifluoroethane, 1,1,2-	490	E	0.30	0.083	ppb v/v			08/31/22 03:32	1.5
Vinyl chloride	<0.042		0.30	0.042	ppb v/v			08/31/22 03:32	1.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	310		1.6	0.32	ug/m3			08/31/22 03:32	1.5
trans-1,2-Dichloroethene	<0.52		1.2	0.52	ug/m3			08/31/22 03:32	1.5

Client Sample ID: VP-DUP-01-2022Q3

Lab Sample ID: 200-64672-11

Date Collected: 08/19/22 00:00
Matrix: Air
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1.5**	**J**	1.6	0.19	ug/m3			08/31/22 03:32	1.5
cis-1,2-Dichloroethene	<0.20		1.2	0.20	ug/m3			08/31/22 03:32	1.5
Trichlorotrifluoroethane, 1,1,2-	**3800**	**E**	2.3	0.63	ug/m3			08/31/22 03:32	1.5
Vinyl chloride	<0.11		0.77	0.11	ug/m3			08/31/22 03:32	1.5

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**52**		4.0	0.78	ppb v/v			08/31/22 19:15	20
trans-1,2-Dichloroethene	<1.8		4.0	1.8	ppb v/v			08/31/22 19:15	20
Trichloroethene	<0.48		4.0	0.48	ppb v/v			08/31/22 19:15	20
cis-1,2-Dichloroethene	<0.66		4.0	0.66	ppb v/v			08/31/22 19:15	20
Trichlorotrifluoroethane, 1,1,2-	**450**		4.0	1.1	ppb v/v			08/31/22 19:15	20
Vinyl chloride	<0.56		4.0	0.56	ppb v/v			08/31/22 19:15	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**280**		22	4.3	ug/m3			08/31/22 19:15	20
trans-1,2-Dichloroethene	<7.0		16	7.0	ug/m3			08/31/22 19:15	20
Trichloroethene	<2.6		21	2.6	ug/m3			08/31/22 19:15	20
cis-1,2-Dichloroethene	<2.6		16	2.6	ug/m3			08/31/22 19:15	20
Trichlorotrifluoroethane, 1,1,2-	**3400**		31	8.4	ug/m3			08/31/22 19:15	20
Vinyl chloride	<1.4		10	1.4	ug/m3			08/31/22 19:15	20

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-183110/5
Matrix: Air
Analysis Batch: 183110

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 11:06	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 11:06	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 11:06	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 11:06	1
Trichlorotriydoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 11:06	1
Vinul chlorif e	<0.028		0.20	0.028	ppb v/v			08/30/22 11:06	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	dg/m3			08/30/22 11:06	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	dg/m3			08/30/22 11:06	1
Trichloroethene	<0.13		1.1	0.13	dg/m3			08/30/22 11:06	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	dg/m3			08/30/22 11:06	1
Trichlorotriydoroethane, 1,1,2-	<0.42		1.5	0.42	dg/m3			08/30/22 11:06	1
Vinul chlorif e	<0.072		0.51	0.072	dg/m3			08/30/22 11:06	1

Lab Sample ID: LCS 200-183110/3
Matrix: Air
Analysis Batch: 183110

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.35		ppb v/v		94	72 - 127
trans-1,2-Dichloroethene	10.0	8.85		ppb v/v		88	69 - 137
Trichloroethene	10.0	8.93		ppb v/v		89	73 - 122
cis-1,2-Dichloroethene	10.0	8.75		ppb v/v		88	72 - 121
Trichlorotriydoroethane, 1,1,2-	10.0	8.92		ppb v/v		89	70 - 121
Vinul chlorif e	10.0	7.90		ppb v/v		79	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	55	51.0		dg/m3		94	72 - 127
trans-1,2-Dichloroethene	40	35.1		dg/m3		88	69 - 137
Trichloroethene	54	48.0		dg/m3		89	73 - 122
cis-1,2-Dichloroethene	40	34.7		dg/m3		88	72 - 121
Trichlorotriydoroethane, 1,1,2-	77	68.4		dg/m3		89	70 - 121
Vinul chlorif e	26	20.2		dg/m3		79	61 - 135

Lab Sample ID: LCSD 200-183110/4
Matrix: Air
Analysis Batch: 183110

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	9.05		ppb v/v		90	72 - 127	3	25
trans-1,2-Dichloroethene	10.0	8.72		ppb v/v		87	69 - 137	1	25
Trichloroethene	10.0	8.82		ppb v/v		88	73 - 122	1	25
cis-1,2-Dichloroethene	10.0	8.56		ppb v/v		86	72 - 121	2	25
Trichlorotriydoroethane, 1,1,2-	10.0	8.80		ppb v/v		88	70 - 121	1	25
Vinul chlorif e	10.0	7.87		ppb v/v		79	61 - 135	0	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	55	49.4		dg/m3		90	72 - 127	3	25

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Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 200-183110/4
Matrix: Air
Analysis Batch: 183110

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	40	34.6		dg/m3		87	69 - 137	1	25
Trichloroethene	54	47.4		dg/m3		88	73 - 122	1	25
cis-1,2-Dichloroethene	40	33.9		dg/m3		86	72 - 121	2	25
Trichlorotriydoroethane, 1,1,2-	77	67.5		dg/m3		88	70 - 121	1	25
Vinul chlorif e	26	20.1		dg/m3		79	61 - 135	0	25

Lab Sample ID: MB 200-183152/4
Matrix: Air
Analysis Batch: 183152

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/31/22 10:10	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/31/22 10:10	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/31/22 10:10	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/31/22 10:10	1
Trichlorotriydoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/31/22 10:10	1
Vinul chlorif e	<0.028		0.20	0.028	ppb v/v			08/31/22 10:10	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	dg/m3			08/31/22 10:10	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	dg/m3			08/31/22 10:10	1
Trichloroethene	<0.13		1.1	0.13	dg/m3			08/31/22 10:10	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	dg/m3			08/31/22 10:10	1
Trichlorotriydoroethane, 1,1,2-	<0.42		1.5	0.42	dg/m3			08/31/22 10:10	1
Vinul chlorif e	<0.072		0.51	0.072	dg/m3			08/31/22 10:10	1

Lab Sample ID: LCS 200-183152/3
Matrix: Air
Analysis Batch: 183152

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.54		ppb v/v		95	72 - 127
trans-1,2-Dichloroethene	10.0	8.74		ppb v/v		87	69 - 137
Trichloroethene	10.0	9.41		ppb v/v		94	73 - 122
cis-1,2-Dichloroethene	10.0	9.09		ppb v/v		91	72 - 121
Trichlorotriydoroethane, 1,1,2-	10.0	9.30		ppb v/v		93	70 - 121
Vinul chlorif e	10.0	7.17		ppb v/v		72	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	55	52.0		dg/m3		95	72 - 127
trans-1,2-Dichloroethene	40	34.7		dg/m3		87	69 - 137
Trichloroethene	54	50.6		dg/m3		94	73 - 122
cis-1,2-Dichloroethene	40	36.0		dg/m3		91	72 - 121
Trichlorotriydoroethane, 1,1,2-	77	71.3		dg/m3		93	70 - 121
Vinul chlorif e	26	18.3		dg/m3		72	61 - 135

Edroyins Bdrlington

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-183154/4
Matrix: Air
Analysis Batch: 183154

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/31/22 10:26	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/31/22 10:26	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/31/22 10:26	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/31/22 10:26	1
Trichlorotriydoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/31/22 10:26	1
Vinul chlorif e	<0.028		0.20	0.028	ppb v/v			08/31/22 10:26	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	dg/m3			08/31/22 10:26	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	dg/m3			08/31/22 10:26	1
Trichloroethene	<0.13		1.1	0.13	dg/m3			08/31/22 10:26	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	dg/m3			08/31/22 10:26	1
Trichlorotriydoroethane, 1,1,2-	<0.42		1.5	0.42	dg/m3			08/31/22 10:26	1
Vinul chlorif e	<0.072		0.51	0.072	dg/m3			08/31/22 10:26	1

Lab Sample ID: LCS 200-183154/3
Matrix: Air
Analysis Batch: 183154

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.50		ppb v/v		95	72 - 127
trans-1,2-Dichloroethene	10.0	8.97		ppb v/v		90	69 - 137
Trichloroethene	10.0	9.15		ppb v/v		91	73 - 122
cis-1,2-Dichloroethene	10.0	8.63		ppb v/v		86	72 - 121
Trichlorotriydoroethane, 1,1,2-	10.0	9.07		ppb v/v		91	70 - 121
Vinul chlorif e	10.0	8.18		ppb v/v		82	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	55	51.8		dg/m3		95	72 - 127
trans-1,2-Dichloroethene	40	35.6		dg/m3		90	69 - 137
Trichloroethene	54	49.2		dg/m3		91	73 - 122
cis-1,2-Dichloroethene	40	34.2		dg/m3		86	72 - 121
Trichlorotriydoroethane, 1,1,2-	77	69.5		dg/m3		91	70 - 121
Vinul chlorif e	26	20.9		dg/m3		82	61 - 135

Air - GC/MS VOA

Analysis Batch: 183110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-64672-1	IA-2020SGBR-01-2022Q3	Total/NA	Air	TO-15	
200-64672-2	IA-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-3	IA-2076FA-02-2022Q3	Total/NA	Air	TO-15	
200-64672-4	IA-2076FA-03-2022Q3	Total/NA	Air	TO-15	
200-64672-5	IA-DUP-01-2022Q3	Total/NA	Air	TO-15	
200-64672-6	OA-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-7	VP-2020SGBR-01-2022Q3	Total/NA	Air	TO-15	
200-64672-8	VP-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-9	VP-2076FA-02-2022Q3	Total/NA	Air	TO-15	
200-64672-10	VP-2076FA-03-2022Q3	Total/NA	Air	TO-15	
200-64672-11	VP-DUP-01-2022Q3	Total/NA	Air	TO-15	
MB 200-183110/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-183110/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 200-183110/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 183152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-64672-7 - DL	VP-2020SGBR-01-2022Q3	Total/NA	Air	TO-15	
MB 200-183152/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-183152/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 183154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-64672-8 - DL	VP-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-11 - DL	VP-DUP-01-2022Q3	Total/NA	Air	TO-15	
MB 200-183154/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-183154/3	Lab Control Sample	Total/NA	Air	TO-15	

Client Sample ID: IA-2020SGBR-01-2022Q3
Lab Sample ID: 200-64672-1
Date Collected: 08/16/22 17:43
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 13:03

Client Sample ID: IA-2076FA-01-2022Q3
Lab Sample ID: 200-64672-2
Date Collected: 08/16/22 17:09
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 13:57

Client Sample ID: IA-2076FA-02-2022Q3
Lab Sample ID: 200-64672-3
Date Collected: 08/16/22 19:07
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 14:52

Client Sample ID: IA-2076FA-03-2022Q3
Lab Sample ID: 200-64672-4
Date Collected: 08/16/22 17:05
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 15:48

Client Sample ID: IA-DUP-01-2022Q3
Lab Sample ID: 200-64672-5
Date Collected: 08/16/22 00:00
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 22:11

Client Sample ID: OA-2076FA-01-2022Q3
Lab Sample ID: 200-64672-6
Date Collected: 08/16/22 17:12
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 23:04

Client Sample ID: VP-2020SGBR-01-2022Q3
Lab Sample ID: 200-64672-7
Date Collected: 08/19/22 11:28
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	4	183152	A1B	EET BUR	08/31/22 11:04
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 23:58

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Client Sample ID: VP-2076FA-01-2022Q3

Lab Sample ID: 200-64672-8
Matrix: Air
Date Collected: 08/19/22 12:50
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1.5	183110	K1P	EET BUR	08/31/22 00:52
Total/NA	Analysis	TO-15	DL	20	183154	A1B	EET BUR	08/31/22 18:22

Client Sample ID: VP-2076FA-02-2022Q3

Lab Sample ID: 200-64672-9
Matrix: Air
Date Collected: 08/19/22 12:23
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/31/22 01:45

Client Sample ID: VP-2076FA-03-2022Q3

Lab Sample ID: 200-64672-10
Matrix: Air
Date Collected: 08/19/22 13:12
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		40	183110	K1P	EET BUR	08/31/22 02:39

Client Sample ID: VP-DUP-01-2022Q3

Lab Sample ID: 200-64672-11
Matrix: Air
Date Collected: 08/19/22 00:00
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1.5	183110	K1P	EET BUR	08/31/22 03:32
Total/NA	Analysis	TO-15	DL	20	183154	A1B	EET BUR	08/31/22 19:15

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-23

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-64672-1	IA-2020SGBR-01-2022Q3	Air	08/16/22 17:43	08/27/22 09:30	Air Canister (6-Liter) #5619
200-64672-2	IA-2076FA-01-2022Q3	Air	08/16/22 17:09	08/27/22 09:30	Air Canister (6-Liter) #5726
200-64672-3	IA-2076FA-02-2022Q3	Air	08/16/22 19:07	08/27/22 09:30	Air Canister (6-Liter) #3010
200-64672-4	IA-2076FA-03-2022Q3	Air	08/16/22 17:05	08/27/22 09:30	Air Canister (6-Liter) #5711
200-64672-5	IA-DUP-01-2022Q3	Air	08/16/22 00:00	08/27/22 09:30	Air Canister (6-Liter) #5159
200-64672-6	OA-2076FA-01-2022Q3	Air	08/16/22 17:12	08/27/22 09:30	Air Canister (6-Liter) #2584
200-64672-7	VP-2020SGBR-01-2022Q3	Air	08/19/22 11:28	08/27/22 09:30	Air Canister (6-Liter) #9259
200-64672-8	VP-2076FA-01-2022Q3	Air	08/19/22 12:50	08/27/22 09:30	Air Canister (6-Liter) #2632
200-64672-9	VP-2076FA-02-2022Q3	Air	08/19/22 12:23	08/27/22 09:30	Air Canister (6-Liter) #3073
200-64672-10	VP-2076FA-03-2022Q3	Air	08/19/22 13:12	08/27/22 09:30	Air Canister (6-Liter) #5679
200-64672-11	VP-DUP-01-2022Q3	Air	08/19/22 00:00	08/27/22 09:30	Air Canister (6-Liter) #5606

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-64672	08/29/22	10:14	29.7	22	G34	RWM

Sampling Information and Return Equipment Check	Yes	N o	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	X		
(2) Is the flow controller ID used for each canister recorded?	X		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		X	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		X	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-64672-a-1	5619	-6.6	N	8533	91/88	Y	4096-51921	
200-64672-a-2	5726	-8.0	N	3062	92/22	Y	5441-51929	
200-64672-a-3	3010	-13.1	Y	4523	92/22	Y	5441-51929	
200-64672-a-4	5711	-8.8	N	6113	91/90	Y	5441-51929	
200-64672-a-5	5159	-9.5	N	3955	92/22	Y	5046-51932	
200-64672-a-6	2584	-7.7	N	3107	91/88	Y	5441-51929	
200-64672-a-7	9259	-8.6	N	6509	92/49	Y	5441-51929	
200-64672-a-8	2632	-9.3	N	5955	92/81	Y	5046-51932	
200-64672-a-9	3073	-8.4	N	4626	92/49	Y	5046-51932	
200-64672-a-10	5679	-8.0	N	6239	92/49	Y	4096-51921	
200-64672-a-11	5606	-8.8	N	9040	92/49	Y	4096-51921	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

200-64672 Chain of Custody

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	Client Project Manager: Alia Enright	Samples Collected By: Tom Perkins	COC No:
Company Name: TRC	Phone: 608-572-3845		1 of 2 COCs
Address: 1526 Cole Blvd, Suite 150	Email: AEnright@TRCcompanies.com		TALS Project #:
City/State/Zip Lakewood, CO 80401			For Lab Use Only:
Phone: 608-572-3845	Site Contact:		Walk-in Client:
FAX: —	Tel/Fax		Lab Sampling:
Project Name: Site Investigation - Vapor	Analysis Turnaround Time		Job / SDG No.:
Site/Location: Village of Grafton	Standard (Specific): X		(See below for Add'l Items)
PO# 185839	Rush (Specifiy):		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14A(L) (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
IA-20205GBR-01-~~2022Q3~~	8/16/22	0943	8/16/22	1743	-30	-6	8535	5619	X								X						Limited VOC List, see notes
IA-2076FA-01-2022Q3	8/16/22	0909	8/16/22	1709	-25.5	-4	3062	5726	X								X						
IA-2076FA-02-2022Q3	8/16/22	0907	8/16/22	1907	-26	-8	4523	3010	X								X						
IA-2076FA-03-2022Q3	8/16/22	0905	8/16/22	1705	-29.5	-5.5	6113	5711	X								X						
IA-Dup-01-2022Q3	8/16/22	—	8/16/22	—	-25.5	-2.5	3985	5159	X								X						Time: 6hrs 40min.
OA-2076FA-01-2022Q3	8/16/22	0912	~~8/16/22~~	1712	-30	-6.5	3107	2584	X								X						
VP-20205GBR-01-2022Q3	8/18/22	1058	8/19/22	1128	-27	-6	6509	9256	X									X					Date: 8/19/22
VP-~~20~~2076FA-01-2022Q3	8/18/22	1220	8/19/22	1250	-29	-8	5955	2632	X									X					
VP-2076FA-02-2022Q3	8/18/22	1156	8/19/22	1223	-25	-2.5	4626	3073	X									X					
VP-2076FA-03-2022Q3	8/19/22	1242	8/19/22	1312	-27.5	-7	6239	5679	X									X					

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Limited VOCs List: TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, 1,1,2-Trichlorofluoroethane, vinyl chloride.
Unused Cans: 4784, 5983

Samples Shipped by:	Date / Time: 8/25/2022 1600	Samples Received by:	
Samples Relinquished by:	Date / Time:	Received by:	
Relinquished by:	Date / Time: 8/27/22 0930	Received by:	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	Client Project Manager: Alia Enright	Samples Collected By: Tom Perkins	COC No: 2 of 2 COCs
Company Name: TRC	Phone: 608-572-3845		
Address: 1526 Cole Blvd, Suite 150	Email: AEnright@TRCcompanies.com		TALS Project #:
City/State/Zip Lakewood, CO 80401			For Lab Use Only:
Phone: 608-572-3845	Site Contact:		Walk-in Client:
FAX: —	Tel/Fax		Lab Sampling:
Project Name: Site Investigation - Vapor	Analysis Turnaround Time		Job / SDG No.:
Site/Location: Village of Grafton	Standard (Specific): X		(See below for Add'l Items)
P O # 185839 1	Rush (Specify):		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/(15) Standard / Low Level	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VP-DUP-01-20220803	8/19/22	—	8/19/22	—	-30	-7.5	9040	5606	Y									X					Limited VOC List, see notes

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Limited VOCs List: TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, 1,1,2-Trichlorofluoroethane, vinyl chloride. Dup Tec: 5513

Samples Shipped by: Z-R	Date / Time: 8/25/22 1600	Samples Received by:
Samples Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time: 8/27/22 0930	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

9/9/2022

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 200-64672-1
SDG Number: 200-64672

Login Number: 64672
List Number: 1
Creator: McNabb, Robert W

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1953938, 1953941
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	TP
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Summa Canister Dilution Worksheet

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job No.: 200-64672-1
SDG No.: 200-64672

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
200-64672-10	6	-6.2	0.79	4.76	48.9	4.33	25.96		5.46	5.46	G24	08/30/22 12:59	TPB

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Top Rack	10	50	7/31/2022	1410	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Initial Reading Date:	Initial Reading Time:	Initial Reading Tech:	Initial Reading Temp:	Final Reading Gauge:	Final Reading Date:	Final Reading Time:	Final Reading Tech:	Final Reading Temp:
1	5606	.04	.14	.10	29.6	G26	8/1/22	0805	DB	22	G26	8/4/22	1430	DB	23
2	5724		.04	0		G26					G26				
3	5717			0		G26					G26				
4	5648			0		G26					G26				
5	5678			0		G26					G26				
6	5983		.04	0		G26					G26				
7	4096	.04	.04	0	29.8	G26	8/4/22	1430	DB	23	G26	8/4/22	1520	[illegible]	22.0
8	5646	.04	.04	0	29.6	G26	8/1/22	0805	DB	22	G26	8/4/22	1430	DB	23
9	5619		.14	.10		G26					G26				
10	5679		.24	.20		G26					G26				
11	5638		.04	0		G26					G26				
12	9220		.04	0		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	Inventory Level 2	Inventory Level 3	Inventory Level 4	Secondary Review Limited	Secondary Review Review Date	Secondary Review Revi
4096	8/3/22	51921	AB1		XXXXXX				8/13/22	DBG

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-64370-A-7
4096
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/31/2022 12:00 AM 200-1639520

Loc: 200
64370
#7 A
Air-Storag

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	50	7/31/2022	1410	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	9227	.02	.17	.15	29.0	G26	8/1/22	0726	TMB	22	G26	8/4/22	1400	TMB	23
2	4784		.04	0		G26					G26				
3	3010		.04	0		G26					G26				
4	2964		.04	0		G26					G26				
5	2584		.27	.23		G26					G26				
6	3523		.04			G26					G26				
7	5441	.04	.04	0	29.8	G26	8/4/22	1400	TMB	23	G26	8/5/22	1500		22.0
8	5711	.04	.04	0	29.6	G26	8/1/22	0726	TMB	22	G26	8/4/22	1400	TMB	23
9	5659			0		G26					G26				
10	9259			0		G26					G26				
11	5726			0		G26					G26				
12	34000155		.19	.15		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
5441	8/4/22	51929	ABL		XXXXXX				8/4/22	MP

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	25	8/1/2022	1200	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5160	-.04	-.04	0	29.6	G26	8/3/22	0840	JTB	22	G26	8/4/22	1343	JTB	22
2	3073			0		G26					G26				
3	2862			0		G26					G26				
4	5130			0		G26					G26				
5	5159			0		G26					G26				
6	5089		.08	.04		G26					G26				
7	3281		.12	.08		G26					G26				
8	5046	.04	.04	0	29.8	G26	8/4/22	1343	JTB	22	G26	8/5/22	1500	"	22.0
9	2632	-.04	.04	0	29.6	G26	8/3/22	0840	JTB	22	G26	8/4/22	1343	JTB	22
10	4441		.06	.02		G26					G26				
11	5071		.04	0		G26					G26				
12	2540		.04	0		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: X TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
5046	8/4/22	51932	ABJ		XXXXXXX				8/4/22	JTB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64370-1

SDG No.:

Client Sample ID: 4096 Lab Sample ID: 200-64370-7

Matrix: Air Lab File ID: 200-51921-006.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/02/2022 13:34

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182263 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64370-1

SDG No.:

Client Sample ID: 4096 Lab Sample ID: 200-64370-7

Matrix: Air Lab File ID: 200-51921-006.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/02/2022 13:34

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182263 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64370-1

SDG No.:

Client Sample ID: 4096 Lab Sample ID: 200-64370-7

Matrix: Air Lab File ID: 200-51921-006.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/02/2022 13:34

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182263 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D
Lims ID: 200-64370-A-7
Client ID: 4096
Sample Type: Client
Inject. Date: 02-Aug-2022 13:34:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0051921-006
Misc. Info.: 64366-1
Operator ID: vtp Instrument ID: CHG.i

Method: \\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 03-Aug-2022 10:57:23 Calib Date: 13-Jun-2022 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20220612-51236.b\200-51236-014.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1654

First Level Reviewer: bunmaa Date: 03-Aug-2022 10:57:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.110				ND	
2 Dichlorodifluoromethane	85		3.174				ND	
3 Chlorodifluoromethane	51		3.195				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.399				ND	
5 Chloromethane	50		3.484				ND	
7 Butane	43		3.688				ND	
6 Vinyl chloride	62		3.693				ND	
8 Butadiene	54		3.768				ND	
9 Bromomethane	94		4.281				ND	
10 Chloroethane	64		4.479				ND	
12 Vinyl bromide	106		4.811				ND	
13 Trichlorofluoromethane	101		4.934				ND	
15 Ethanol	45		5.250				ND	
18 1,1-Dichloroethene	96		5.849				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.876				ND	
19 Acetone	43		5.935				ND	7
22 Isopropyl alcohol	45		6.197				ND	
23 Carbon disulfide	76		6.234				ND	
25 3-Chloro-1-propene	41		6.502				ND	
26 Methylene Chloride	49		6.726				ND	
27 2-Methyl-2-propanol	59		6.940				ND	
29 trans-1,2-Dichloroethene	61		7.202				ND	
30 Methyl tert-butyl ether	73		7.213				ND	
31 Hexane	57		7.700				ND	
32 1,1-Dichloroethane	63		7.973				ND	
33 Vinyl acetate	43		7.978				ND	
34 2-Butanone (MEK)	72		8.962				ND	
35 cis-1,2-Dichloroethene	96		8.973				ND	
36 Ethyl acetate	88		9.037				ND	
* 37 Chlorobromomethane	128	9.396	9.390	0.006	86	79047	10.0	
38 Tetrahydrofuran	42		9.449				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Chloroform	83		9.578				ND	
S 43 1,2-Dichloroethene, Total	61		9.665				ND	7
40 1,1,1-Trichloroethane	97		9.893				ND	
41 Cyclohexane	84		10.027				ND	
42 Carbon tetrachloride	117		10.182				ND	
44 Benzene	78		10.567				ND	MU
45 1,2-Dichloroethane	62		10.658				ND	
46 Isooctane	57		10.803				ND	
47 n-Heptane	43		11.145				ND	
* 48 1,4-Difluorobenzene	114	11.397	11.397	0.000	94	398612	10.0	
50 Trichloroethene	95		11.867				ND	
51 1,2-Dichloropropane	63		12.392				ND	
54 Methyl methacrylate	69		12.509				ND	
55 1,4-Dioxane	88		12.552				ND	
53 Dibromomethane	174		12.563				ND	
56 Dichlorobromomethane	83		12.911				ND	
58 cis-1,3-Dichloropropene	75		13.804				ND	
59 4-Methyl-2-pentanone (MIBK)	43		14.120				ND	
60 Toluene	92	14.494	14.505	0.005	95	268	0.0158	
65 trans-1,3-Dichloropropene	75		14.959				ND	
66 1,1,2-Trichloroethane	83		15.361				ND	
67 Tetrachloroethene	166		15.548				ND	7
68 2-Hexanone	43		15.831				ND	
69 Chlorodibromomethane	129		16.142				ND	
70 Ethylene Dibromide	107		16.388				ND	
* 71 Chlorobenzene-d5	117	17.361	17.361	0.000	87	339911	10.0	
72 Chlorobenzene	112		17.420				ND	
73 Ethylbenzene	91	17.629	17.624	0.000	86	1533	0.0401	
74 m-Xylene & p-Xylene	106		17.907				ND	
76 o-Xylene	106	18.731	18.720	0.011	89	230	0.0155	
77 Styrene	104		18.763				ND	
78 Bromoform	173		19.132				ND	
79 Isopropylbenzene	105		19.469				ND	
S 82 Xylenes, Total	106				0		0.0155	7
80 1,1,2,2-Tetrachloroethane	83		20.031				ND	
83 N-Propylbenzene	91		20.224				ND	
84 2-Chlorotoluene	91		20.373				ND	
85 4-Ethyltoluene	105		20.432				ND	
86 1,3,5-Trimethylbenzene	105		20.529				ND	
89 tert-Butylbenzene	119		21.026				ND	7
90 1,2,4-Trimethylbenzene	105		21.122				ND	
91 sec-Butylbenzene	105		21.363				ND	
92 1,3-Dichlorobenzene	146		21.540				ND	7
93 4-Isopropyltoluene	119		21.582				ND	7
94 1,4-Dichlorobenzene	146		21.684				ND	7
95 Benzyl chloride	91		21.839				ND	
97 n-Butylbenzene	91		22.155				ND	
96 1,2-Dichlorobenzene	146		22.182				ND	7
100 1,2,4-Trichlorobenzene	180		24.658				ND	7
101 Hexachlorobutadiene	225		24.905				ND	
102 Naphthalene	128		25.151				ND	MU

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15GIS_00019	Amount Added: 20.00	Units: mL	Run Reagent

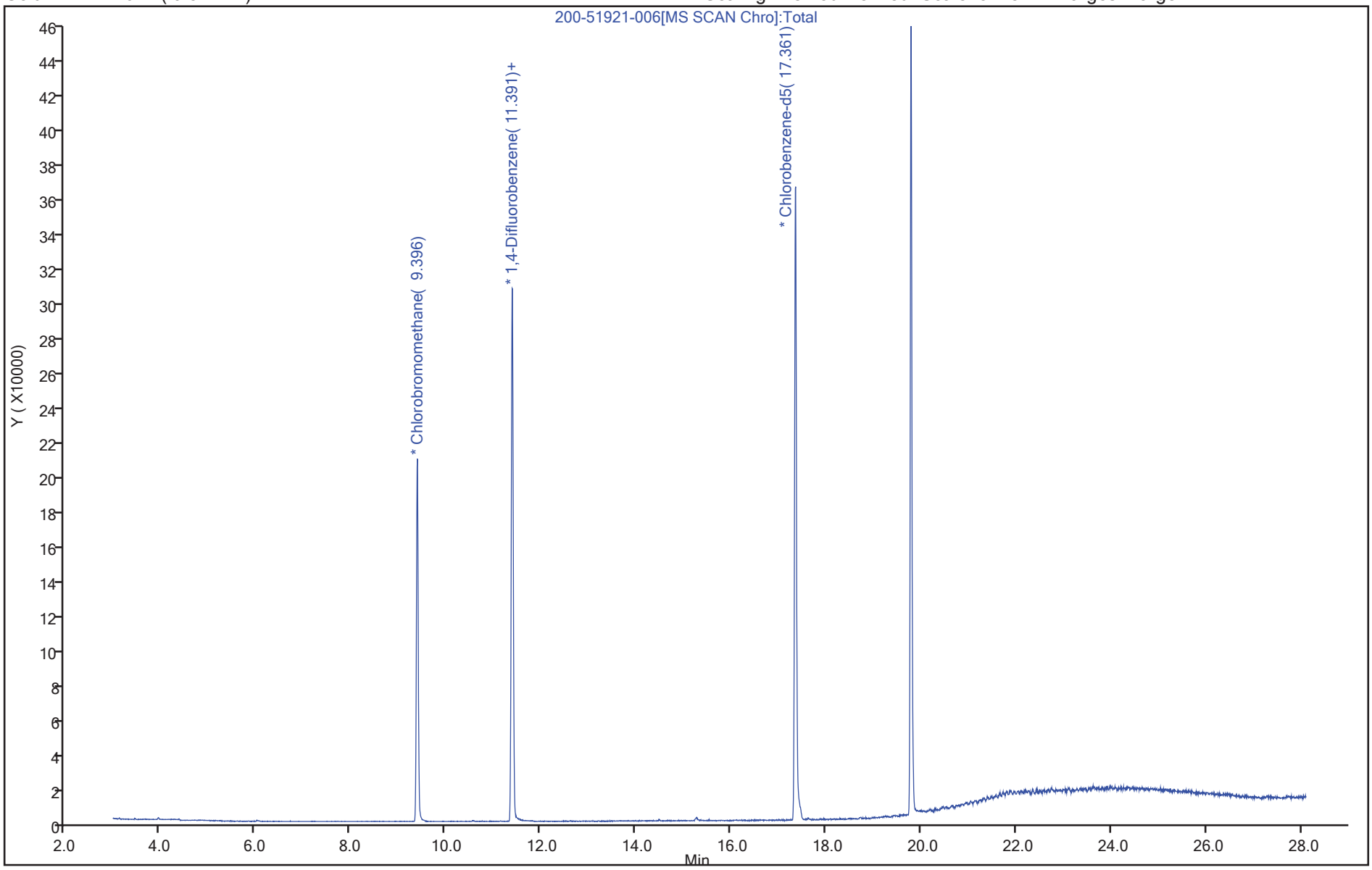
Report Date: 03-Aug-2022 10:57:24 Chrom Revision: 2.3 29-Jul-2022 15:21:48

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D

Injection Date:	02-Aug-2022 13:34:30	Instrument ID:	CHG.i	Operator ID:	vtp
Lims ID:	200-64370-A-7	Lab Sample ID:	200-64370-7	Worklist Smp#:	6
Client ID:	4096				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



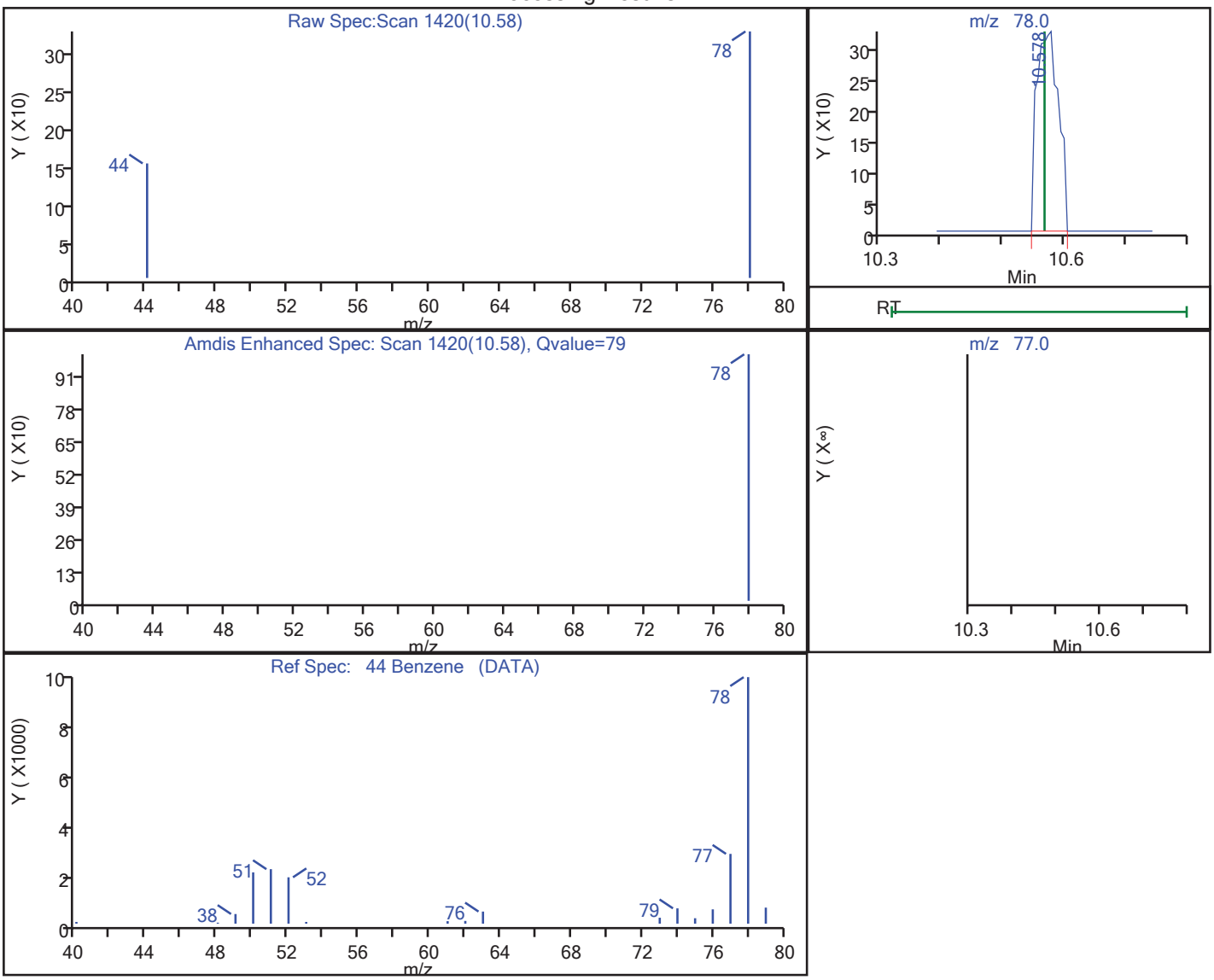
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D				
Injection Date:	02-Aug-2022 13:34:30	Instrument ID:	CHG.i		
Lims ID:	200-64370-A-7	Lab Sample ID:	200-64370-7		
Client ID:	4096				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
10.58	78.00	802	0.033620
10.57	77.00	0	

Reviewer: bunmaa, 03-Aug-2022 10:52:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

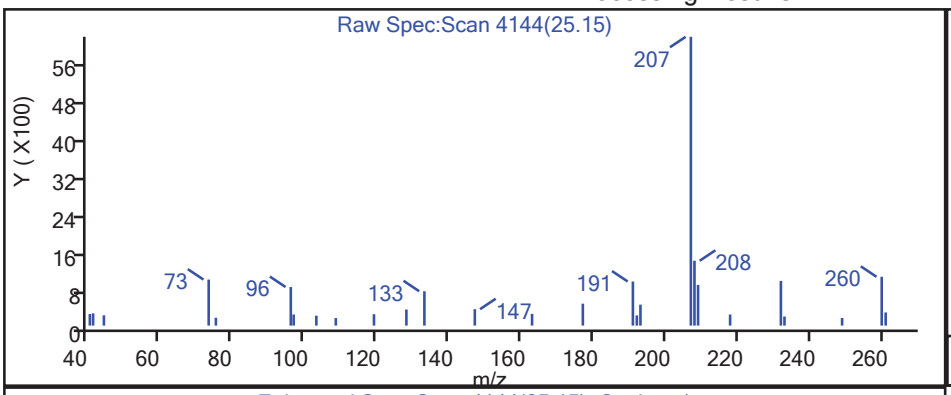
User Disabled Compound Report

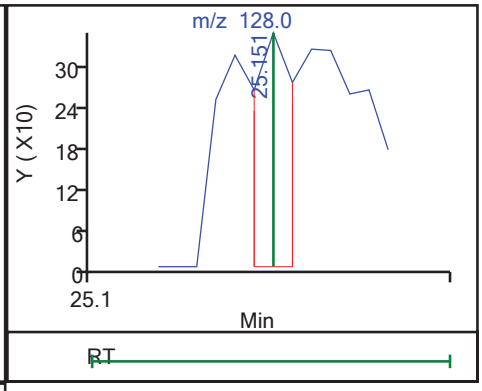
Eurofins Burlington

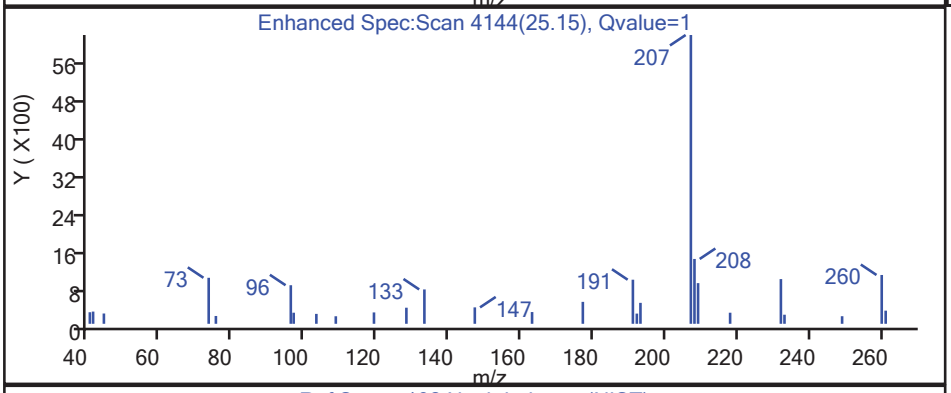
Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D				
Injection Date:	02-Aug-2022 13:34:30	Instrument ID:	CHG.i		
Lims ID:	200-64370-A-7	Lab Sample ID:	200-64370-7		
Client ID:	4096				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

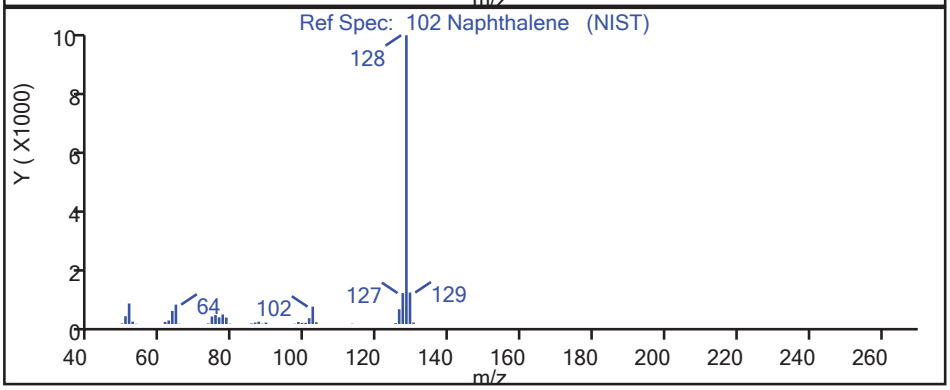
102 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
25.15	128.00	281	0.005647

Reviewer: bunmaa, 03-Aug-2022 10:57:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64371-1

SDG No.:

Client Sample ID: 9441 Lab Sample ID: 200-64371-7

Matrix: Air Lab File ID: 91525-06.D

Analysis Method: TO-19 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:92

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182255 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
119-07-1	Propylene	1.0	U	1.0	1.0
79-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
79-49-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-57-8	n-Butane	0.10	U	0.10	0.10
79-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-55-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-5	Bromomethane	0.040	U	0.040	0.040
79-00-3	Chloroethane	0.10	U	0.10	0.10
953-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
79-65-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-9	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
79-39-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
79-19-0	Carbon disulfide	0.10	U	0.10	0.10
107-09-1	3-Chloropropene	0.10	U	0.10	0.10
79-05-2	Methylene Chloride	0.10	U	0.10	0.10
79-69-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
196-60-9	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-94-3	n-Hexane	0.10	U	0.10	0.10
79-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-09-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-53-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
196-95-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
940-95-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
105-55-5	Tetrahydrofuran	1.0	U	1.0	1.0
71-99-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64371-1

SDG No.:

Client Sample ID: 9441 Lab Sample ID: 200-64371-7

Matrix: Air Lab File ID: 91525-06.D

Analysis Method: TO-19 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:92

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182255 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
96-23-9	Carbon tetrachloride	0.040	U	0.040	0.040
940-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-9	n-Heptane	0.040	U	0.040	0.040
75-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-9	1,2-Dichloropropane	0.040	U	0.040	0.040
123-51-1	1,4-Dioxane	1.0	U	1.0	1.0
79-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-9	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
75-00-9	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
951-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-53-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-50-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
175601-23-1	m,p-Xylene	0.10	U	0.10	0.10
59-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-9	Styrene	0.040	U	0.040	0.040
79-29-2	Bromoform	0.040	U	0.040	0.040
58-82-8	Cumene	0.040	U	0.040	0.040
75-34-9	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-69-1	n-Propylbenzene	0.040	U	0.040	0.040
622-56-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,9-Trimethylbenzene	0.040	U	0.040	0.040
59-45-8	2-Chlorotoluene	0.040	U	0.040	0.040
58-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
59-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64371-1

SDG No.:

Client Sample ID: 9441 Lab Sample ID: 200-64371-7

Matrix: Air Lab File ID: 91525-06.D

Analysis Method: TO-19 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:92

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182255 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
139-58-8	sec-Butylbenzene	0.040	U	0.040	0.040
55-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
941-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-91-8	n-Butylbenzene	0.040	U	0.040	0.040
59-90-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
51-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\51929-06.D
Lims ID: 200-64371-A-7
Client ID: 5441
Sample Type: Client
Inject. Date: 03-Aug-2022 11:52:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0051929-006
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 04-Aug-2022 07:14:57 Calib Date: 21-Jul-2022 00:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20220720-51757.b\51757-13.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: puangmaleek Date: 04-Aug-2022 07:14:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.810				ND	7
2 Dichlorodifluoromethane	85		2.874				ND	7
3 Chlorodifluoromethane	51		2.906				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.098				ND	7
5 Chloromethane	50		3.205				ND	7
6 Butane	43		3.392				ND	7
7 Vinyl chloride	62		3.418				ND	
8 Butadiene	54		3.488				ND	
9 Bromomethane	94		4.064				ND	
10 Chloroethane	64		4.278				ND	
13 Vinyl bromide	106		4.641				ND	
14 Trichlorofluoromethane	101		4.763				ND	
16 Ethanol	45		5.329				ND	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.793				ND	
20 1,1-Dichloroethene	96		5.799				ND	
21 Acetone	43		6.007				ND	7
22 Carbon disulfide	76		6.156				ND	7
23 Isopropyl alcohol	45		6.391				ND	
24 3-Chloro-1-propene	41		6.535				ND	7
26 Methylene Chloride	49		6.807				ND	7
28 2-Methyl-2-propanol	59		7.165				ND	
29 trans-1,2-Dichloroethene	61		7.272				ND	
30 Methyl tert-butyl ether	73		7.293				ND	
32 Hexane	57		7.709				ND	
33 1,1-Dichloroethane	63		8.094				ND	
34 Vinyl acetate	43		8.200				ND	
35 cis-1,2-Dichloroethene	96		9.172				ND	
36 2-Butanone (MEK)	72		9.225				ND	
37 Ethyl acetate	88		9.332				ND	
* 38 Chlorobromomethane	128	9.599	9.604	-0.005	85	187944	20.0	
39 Tetrahydrofuran	42		9.695				ND	
40 Chloroform	83		9.764				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 1,1,1-Trichloroethane	97		10.031				ND	
42 Cyclohexane	84		10.047				ND	
S 43 1,2-Dichloroethene, Total	61		10.200				ND	7
44 Carbon tetrachloride	117		10.303				ND	
45 Benzene	78		10.719				ND	7
46 Isooctane	57		10.783				ND	
47 1,2-Dichloroethane	62		10.863				ND	
48 n-Heptane	43		11.189				ND	
* 49 1,4-Difluorobenzene	114	11.568	11.563	0.005	91	1060139	20.0	
50 Trichloroethene	95		12.032				ND	
53 1,2-Dichloropropane	63		12.529				ND	
56 Dibromomethane	174		12.779				ND	7
55 Methyl methacrylate	69		12.779				ND	
57 1,4-Dioxane	88		12.838				ND	
58 Dichlorobromomethane	83		13.100				ND	
59 cis-1,3-Dichloropropene	75		14.066				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.402				ND	
62 Toluene	92		14.685				ND	
66 trans-1,3-Dichloropropene	75		15.272				ND	
67 1,1,2-Trichloroethane	83		15.635				ND	
68 Tetrachloroethene	166		15.811				ND	7
69 2-Hexanone	43		16.158				ND	
70 Chlorodibromomethane	129		16.403				ND	
71 Ethylene Dibromide	107		16.649				ND	
* 72 Chlorobenzene-d5	117	17.593	17.593	0.000	85	1071648	20.0	
73 Chlorobenzene	112		17.652				ND	
74 Ethylbenzene	91		17.839				ND	7
76 m-Xylene & p-Xylene	106		18.090				ND	
77 o-Xylene	106		18.917				ND	
78 Styrene	104		18.965				ND	
80 Bromoform	173		19.370				ND	
81 Isopropylbenzene	105		19.675				ND	7
S 82 Xylenes, Total	106		20.100				ND	7
83 1,1,2,2-Tetrachloroethane	83		20.368				ND	
85 N-Propylbenzene	91		20.486				ND	7
86 2-Chlorotoluene	91		20.678				ND	7
87 4-Ethyltoluene	105		20.694				ND	7
89 1,3,5-Trimethylbenzene	105		20.817				ND	7
91 tert-Butylbenzene	119		21.340				ND	7
92 1,2,4-Trimethylbenzene	105		21.447				ND	7
93 sec-Butylbenzene	105		21.697				ND	7
95 1,3-Dichlorobenzene	146		21.916				ND	7
94 4-Isopropyltoluene	119		21.916				ND	7
96 1,4-Dichlorobenzene	146		22.060				ND	7
97 Benzyl chloride	91		22.247				ND	7
98 n-Butylbenzene	91		22.509				ND	7
100 1,2-Dichlorobenzene	146		22.589				ND	MU
102 1,2,4-Trichlorobenzene	180		24.889				ND	7
103 Hexachlorobutadiene	225		25.102				ND	7
104 Naphthalene	128		25.289				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

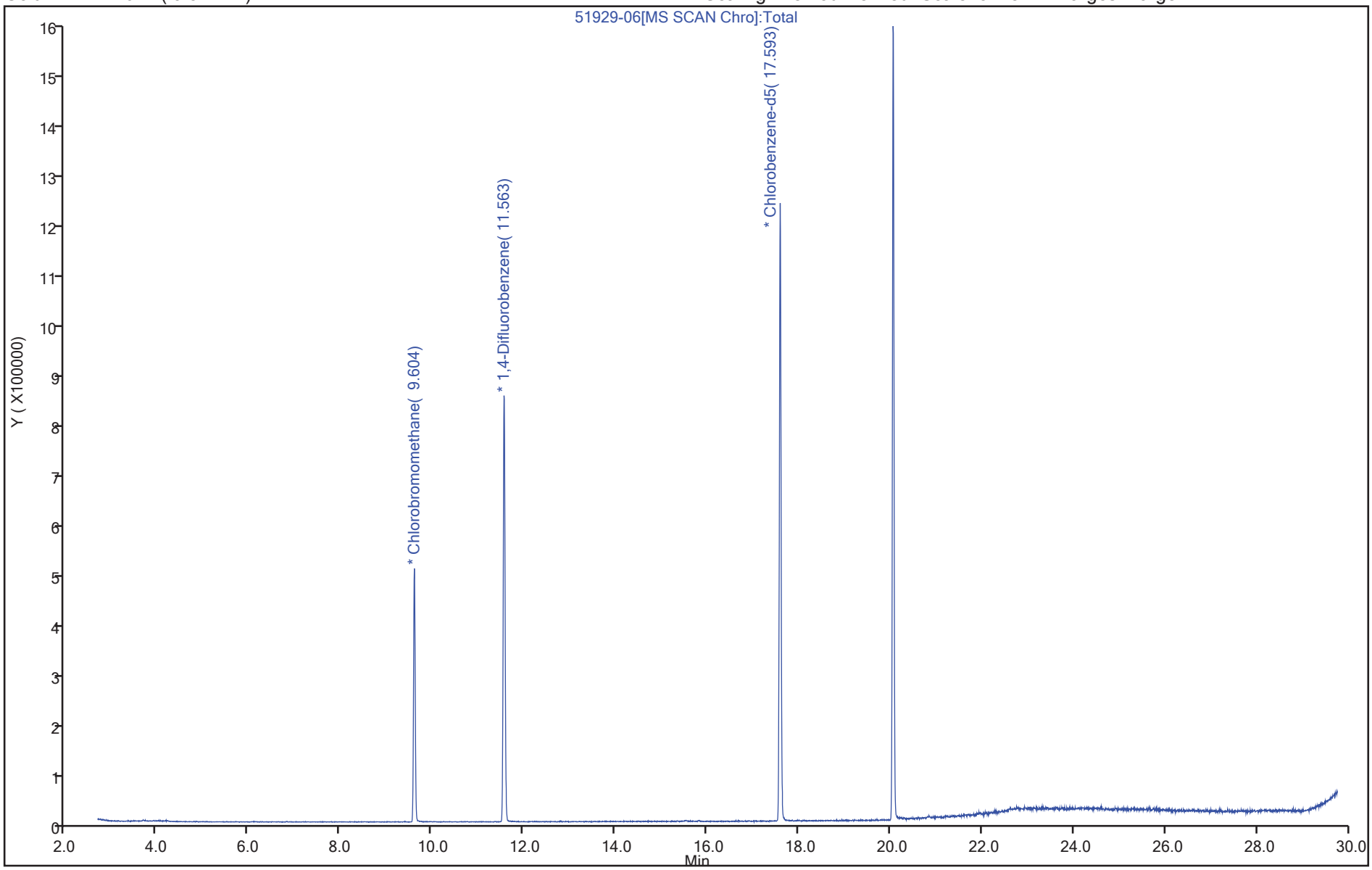
ATTO15CISs_00011	Amount Added:	40.00	Units: mL	Run Reagent

Report Date: 04-Aug-2022 07:14:57 Chrom Revision: 2.3 29-Jul-2022 15:21:48

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\51929-06.D				
Injection Date:	03-Aug-2022 11:52:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-64371-A-7	Lab Sample ID:	200-64371-7	Worklist Smp#:	6
Client ID:	5441				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



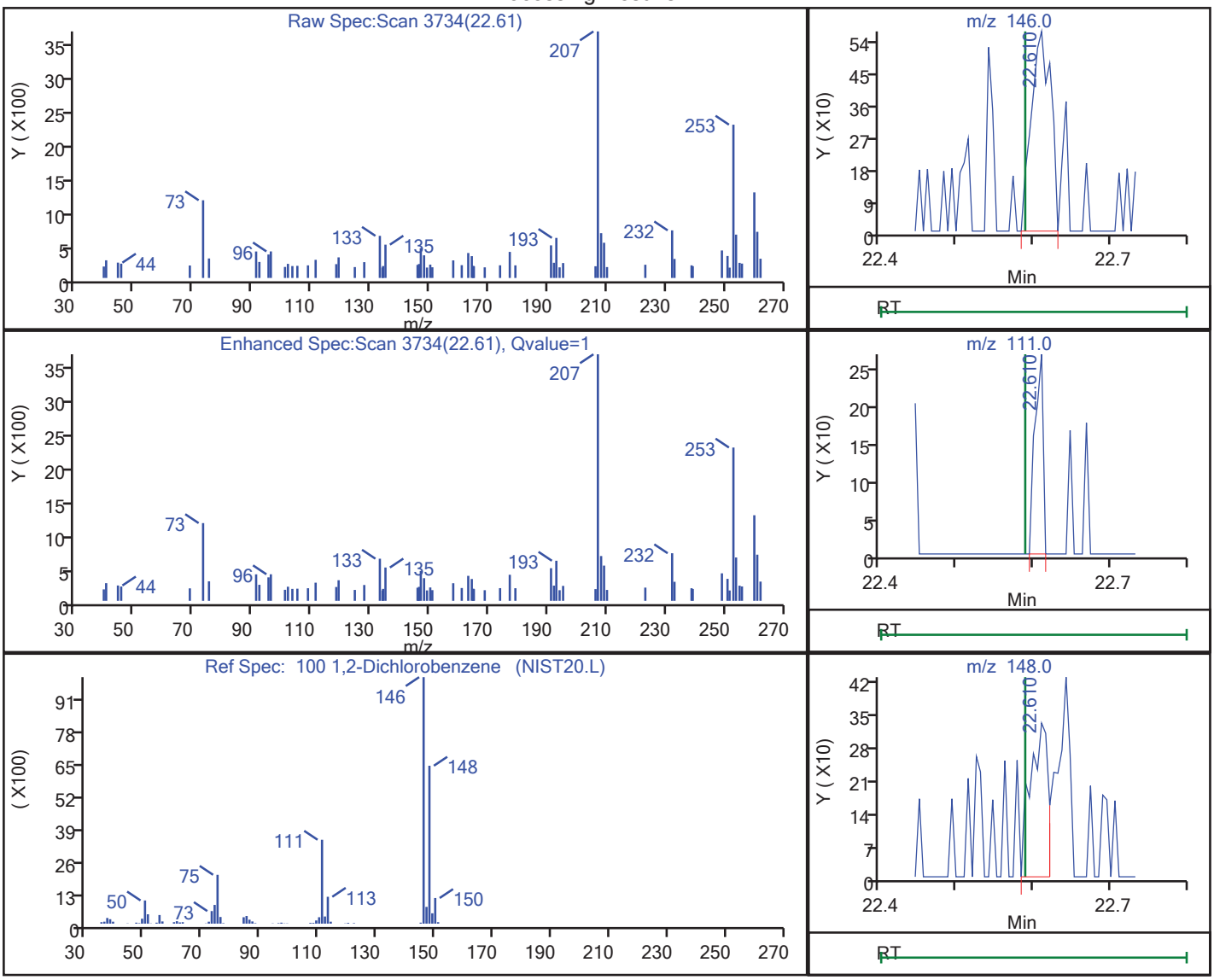
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\51929-06.D				
Injection Date:	03-Aug-2022 11:52:30	Instrument ID:	CHC.i		
Lims ID:	200-64371-A-7	Lab Sample ID:	200-64371-7		
Client ID:	5441				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

100 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
22.61	146.00	1003	0.011292
22.61	111.00	199	
22.61	148.00	534	

Reviewer: puangmaleek, 04-Aug-2022 07:14:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64390-1

SDG No.:

Client Sample ID: 5046 Lab Sample ID: 200-64390-8

Matrix: Air Lab File ID: 51932-005.d

Analysis Method: TO-15 Date Collected: 08/01/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:13

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182303 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64390-1

SDG No.:

Client Sample ID: 5046 Lab Sample ID: 200-64390-8

Matrix: Air Lab File ID: 51932-005.d

Analysis Method: TO-15 Date Collected: 08/01/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:13

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182303 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d
Lims ID: 200-64390-A-8
Client ID: 5046
Sample Type: Client
Inject. Date: 03-Aug-2022 11:13:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0051932-005
Misc. Info.: 64390-8
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 04-Aug-2022 08:22:01 Calib Date: 09-Jul-2022 01:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220708-51593.b\51593-013.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1669

First Level Reviewer: bunmaa Date: 04-Aug-2022 08:22:01

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.078				ND	
	2 Dichlorodifluoromethane	85		4.169				ND	
	3 Chlorodifluoromethane	51		4.212				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.511				ND	
	5 Chloromethane	50		4.624				ND	
	6 Vinyl chloride	62		4.923				ND	
	7 Butane	43		4.929				ND	7
	8 Butadiene	54		5.041				ND	
	9 Bromomethane	94		5.742				ND	
	10 Chloroethane	64		6.009				ND	
	13 Vinyl bromide	106		6.427				ND	
	14 Trichlorofluoromethane	101		6.587				ND	
	16 Ethanol	45		6.962				ND	
	20 1,1-Dichloroethene	96		7.636				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.684				ND	
	22 Acetone	43		7.721				ND	7
	23 Isopropyl alcohol	45		8.021				ND	
	24 Carbon disulfide	76	8.053	8.042	0.011	79	3314	0.0550	
	26 3-Chloro-1-propene	41		8.336				ND	7
	27 Methylene Chloride	49		8.561				ND	7
	28 2-Methyl-2-propanol	59		8.791				ND	
	30 trans-1,2-Dichloroethene	61		9.059				ND	
	31 Methyl tert-butyl ether	73		9.075				ND	7
	32 Hexane	57		9.567				ND	
	33 1,1-Dichloroethane	63		9.813				ND	
	34 Vinyl acetate	43		9.829				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.781				ND	
	37 cis-1,2-Dichloroethene	96		10.803				ND	7
	38 Ethyl acetate	88		10.878				ND	
*	39 Chlorobromomethane	128	11.215	11.209	0.006	72	176627	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Tetrahydrofuran	42		11.263				ND	
41 Chloroform	83		11.386				ND	
42 1,1,1-Trichloroethane	97		11.691				ND	
43 Cyclohexane	84		11.835				ND	
44 Carbon tetrachloride	117		11.969				ND	
45 Benzene	78		12.317				ND	7
46 1,2-Dichloroethane	62		12.386				ND	
47 Isooctane	57		12.536				ND	
48 n-Heptane	43		12.846				ND	7
* 49 1,4-Difluorobenzene	114	13.055	13.050	0.005	95	916715	10.0	
51 Trichloroethene	95	13.483	13.488	0.000	25	988	0.0228	
53 1,2-Dichloropropane	63		13.932				ND	
54 Methyl methacrylate	69		14.034				ND	
55 1,4-Dioxane	88		14.077				ND	
57 Dibromomethane	174		14.093				ND	7
58 Dichlorobromomethane	83		14.403				ND	
59 cis-1,3-Dichloropropene	75		15.205				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.473				ND	
62 Toluene	92		15.842				ND	
66 trans-1,3-Dichloropropene	75		16.259				ND	
67 1,1,2-Trichloroethane	83		16.634				ND	
68 Tetrachloroethene	166	16.837	16.853	0.000	34	1178	0.0193	
69 2-Hexanone	43		17.056				ND	7
70 Chlorodibromomethane	129		17.372				ND	
71 Ethylene Dibromide	107		17.613				ND	
* 73 Chlorobenzene-d5	117	18.522	18.522	0.000	91	739162	10.0	
74 Chlorobenzene	112		18.581				ND	7
75 Ethylbenzene	91		18.774				ND	7
76 m-Xylene & p-Xylene	106		19.041				ND	7
78 o-Xylene	106		19.812				ND	
79 Styrene	104		19.849				ND	7
S 80 Xylenes, Total	106		20.100				ND	7
81 Bromoform	173		20.202				ND	7
82 Isopropylbenzene	105		20.539				ND	7
83 1,1,2,2-Tetrachloroethane	83		21.069				ND	7
85 N-Propylbenzene	91		21.277				ND	7
86 2-Chlorotoluene	91		21.422				ND	MU
87 4-Ethyltoluene	105		21.481				ND	7
88 1,3,5-Trimethylbenzene	105		21.577				ND	7
91 tert-Butylbenzene	119		22.064				ND	
92 1,2,4-Trimethylbenzene	105		22.155				ND	MU
93 sec-Butylbenzene	105		22.395				ND	7
94 1,3-Dichlorobenzene	146		22.567				ND	MU
95 4-Isopropyltoluene	119		22.615				ND	7
96 1,4-Dichlorobenzene	146		22.711				ND	7
97 Benzyl chloride	91	22.872	22.872	0.011	1	1062	0.0110	M
98 n-Butylbenzene	91		23.171				ND	7
99 1,2-Dichlorobenzene	146	23.209	23.209	0.016	12	1158	0.0138	M
102 1,2,4-Trichlorobenzene	180	25.589	25.589	0.016	1	344	0.006425	7Ma
103 Hexachlorobutadiene	225		25.819				ND	7
104 Naphthalene	128		26.039				ND	MU

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

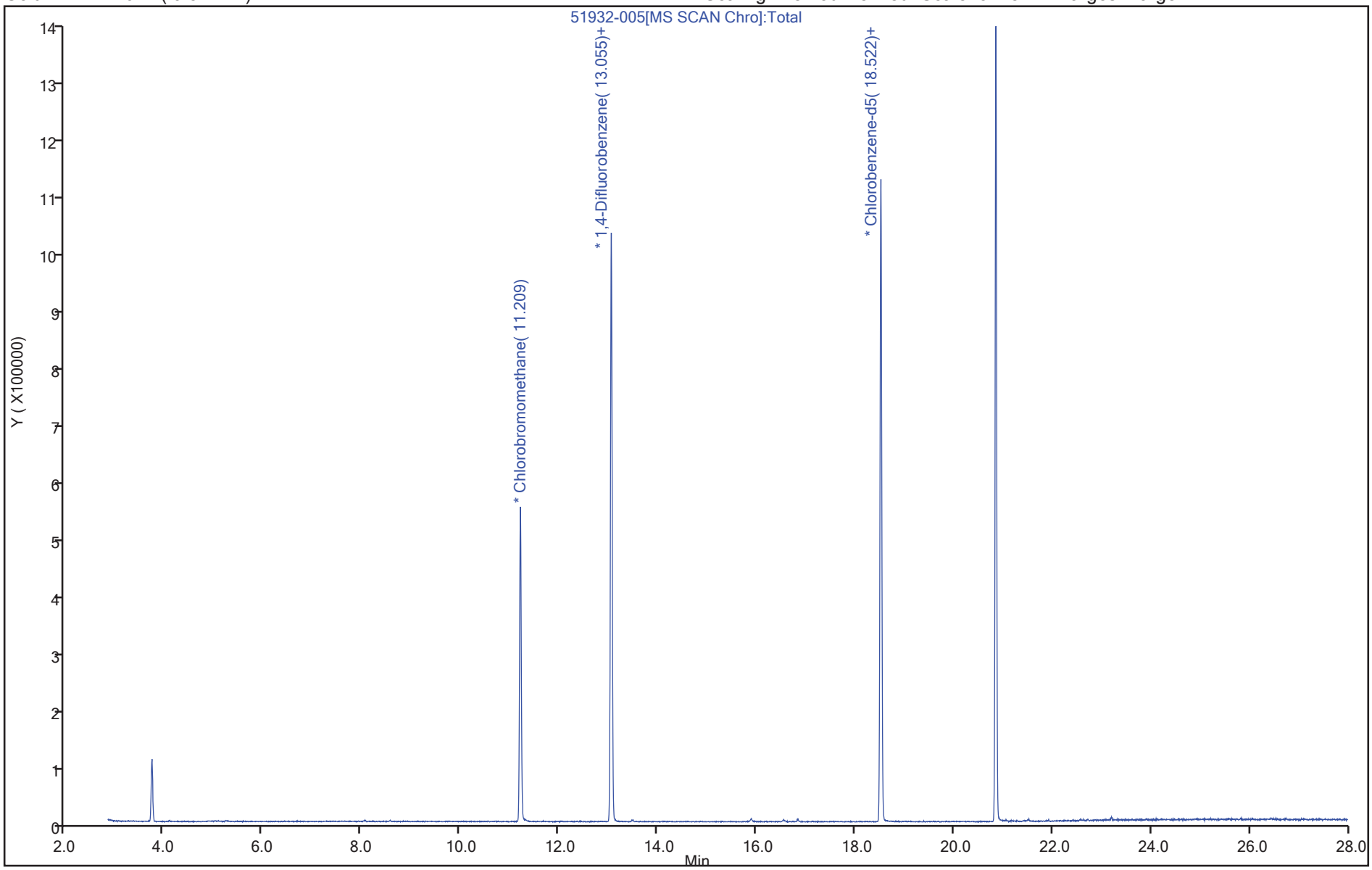
Report Date: 04-Aug-2022 08:22:01 Chrom Revision: 2.3 29-Jul-2022 15:21:48

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d

Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8	Worklist Smp#:	5
Client ID:	5046				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Burlington

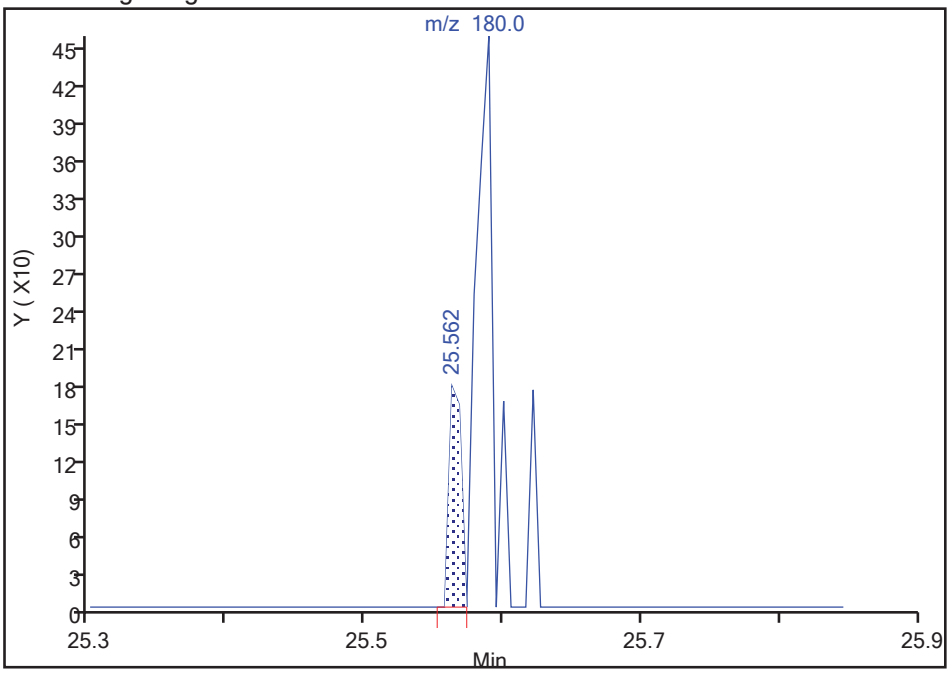
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

102 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

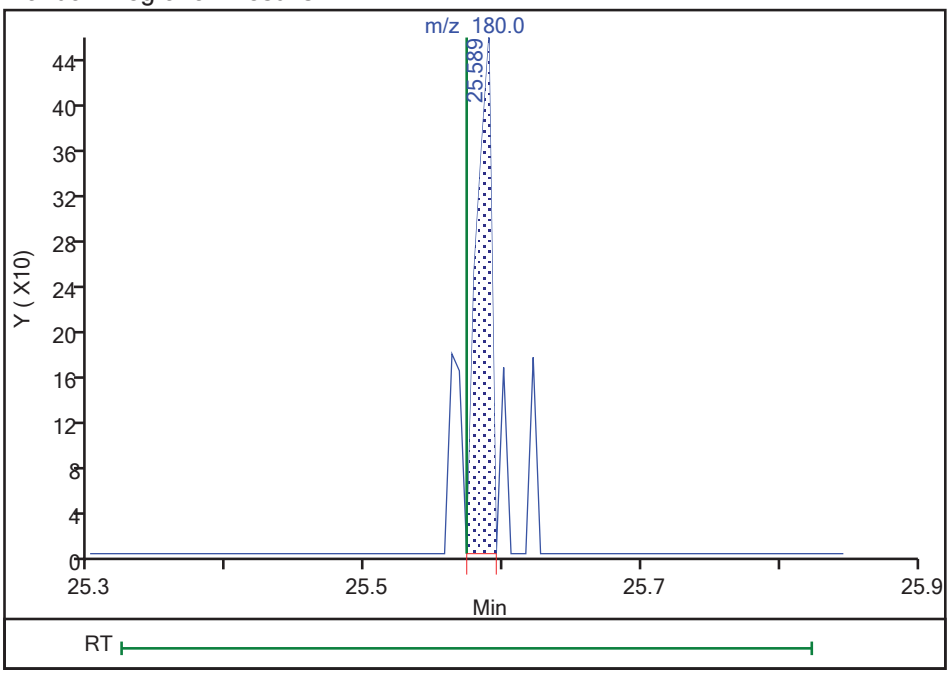
Processing Integration Results

RT: 25.56
Area: 109
Amount: 0.002036
Amount Units: ppb v/v



Manual Integration Results

RT: 25.59
Area: 344
Amount: 0.006425
Amount Units: ppb v/v



Reviewer: bunmaa, 04-Aug-2022 08:21:23
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

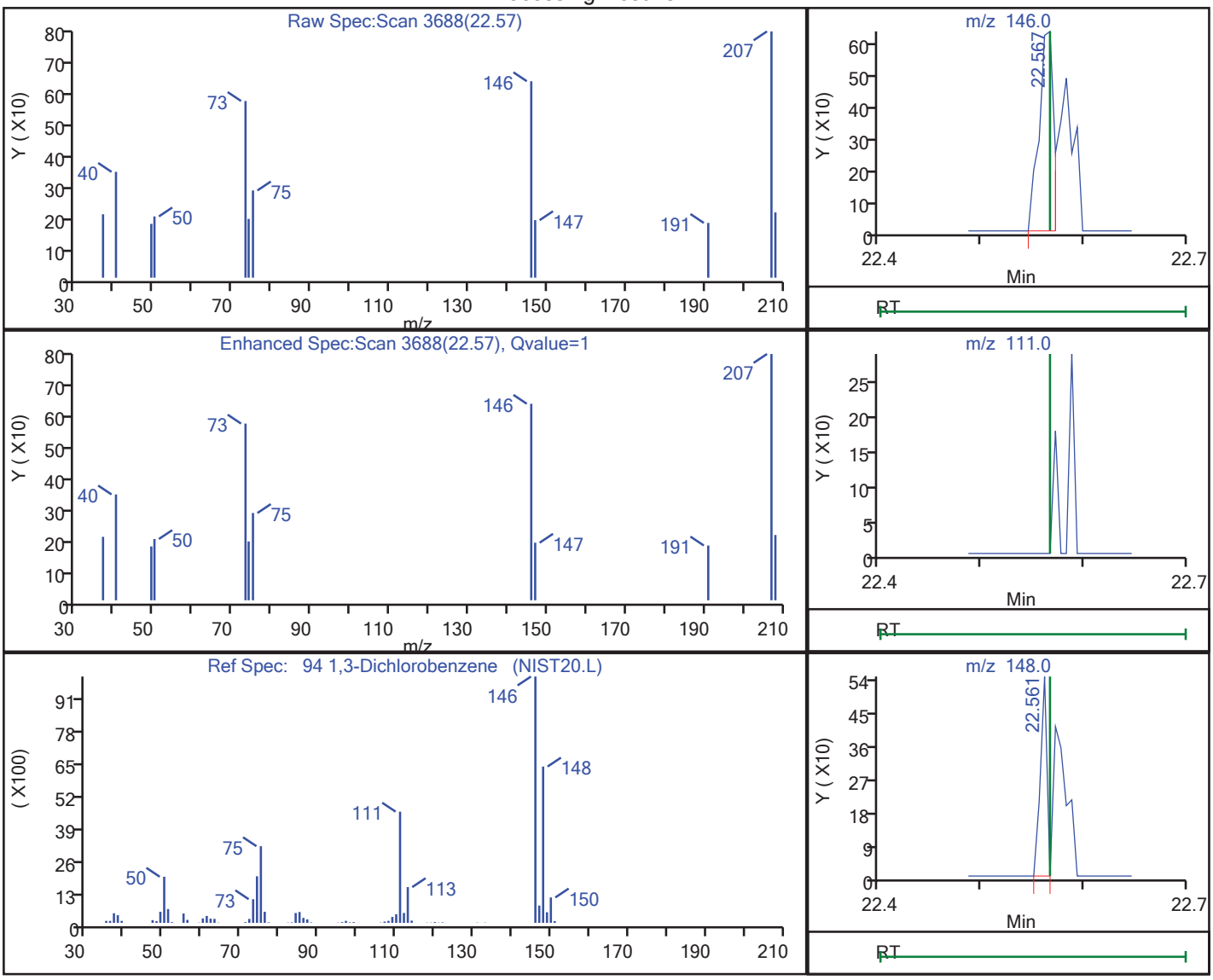
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
22.57	146.00	638	0.007818
22.57	111.00	0	
22.56	148.00	242	

Reviewer: bunmaa, 04-Aug-2022 08:19:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

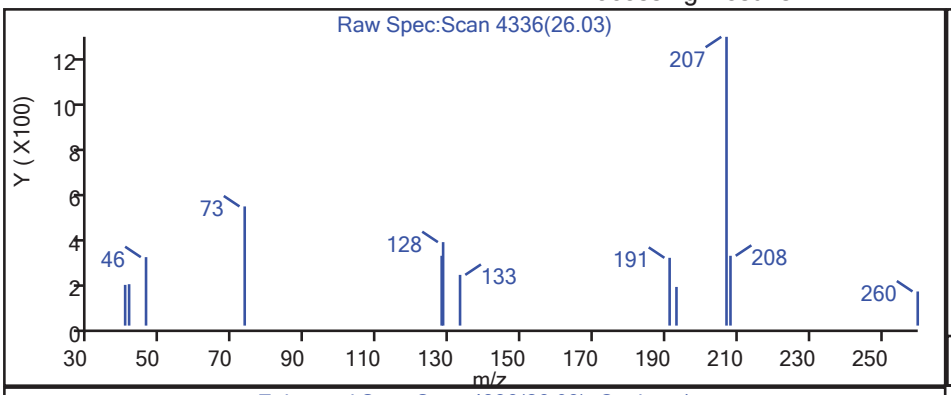
User Disabled Compound Report

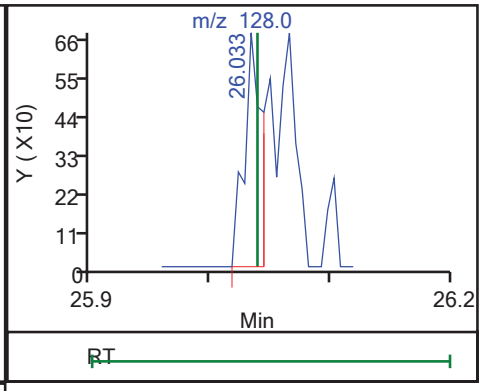
Eurofins Burlington

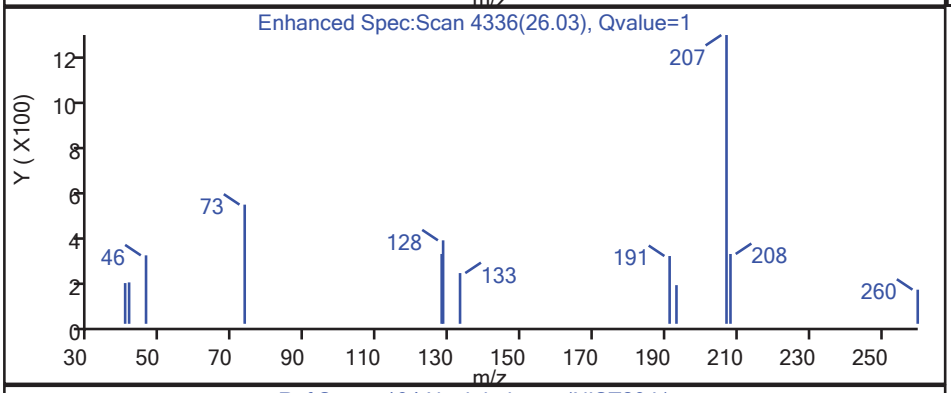
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

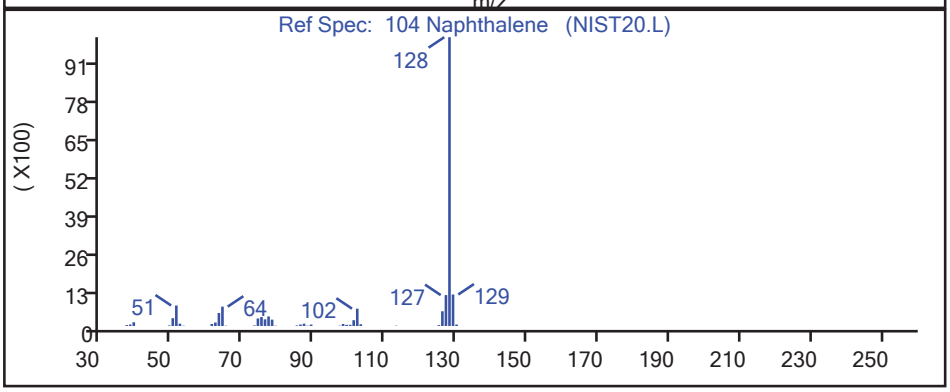
104 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
26.03	128.00	672	0.005555

Reviewer: bunmaa, 04-Aug-2022 08:21:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

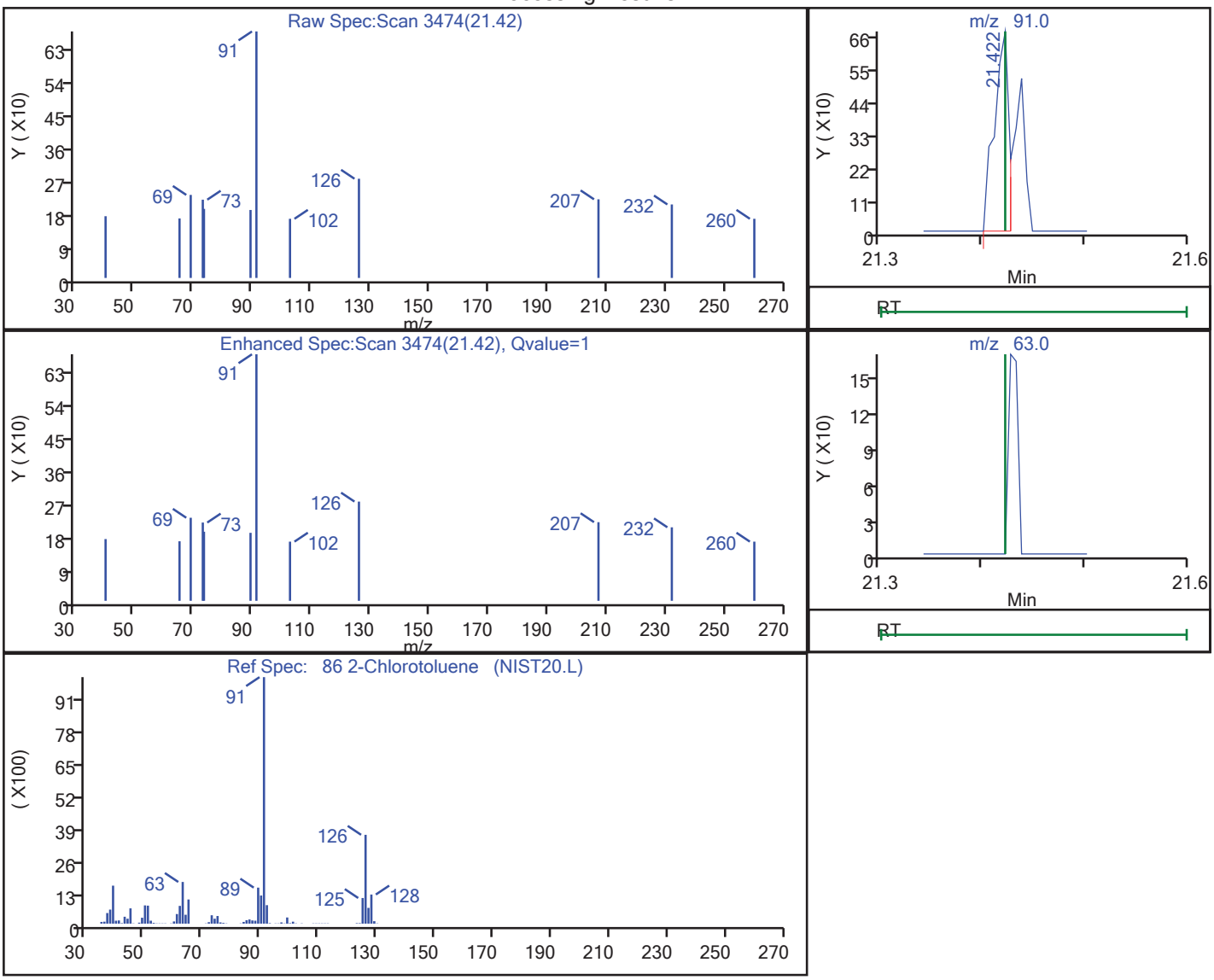
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

86 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
21.42	91.00	667	0.005683
21.42	63.00	0	

Reviewer: bunmaa, 04-Aug-2022 08:18:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Burlington

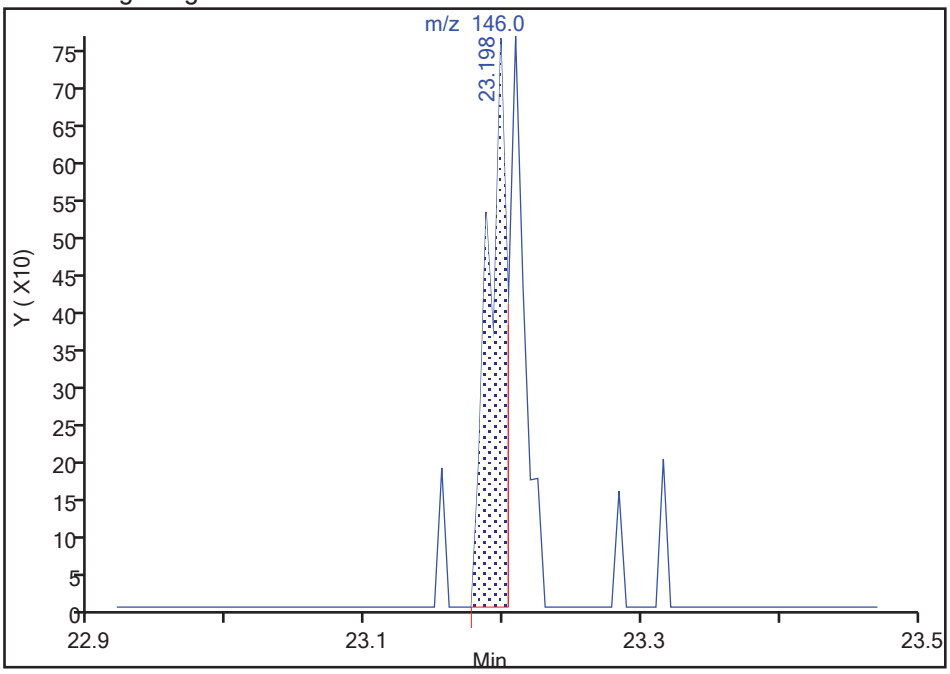
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

99 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

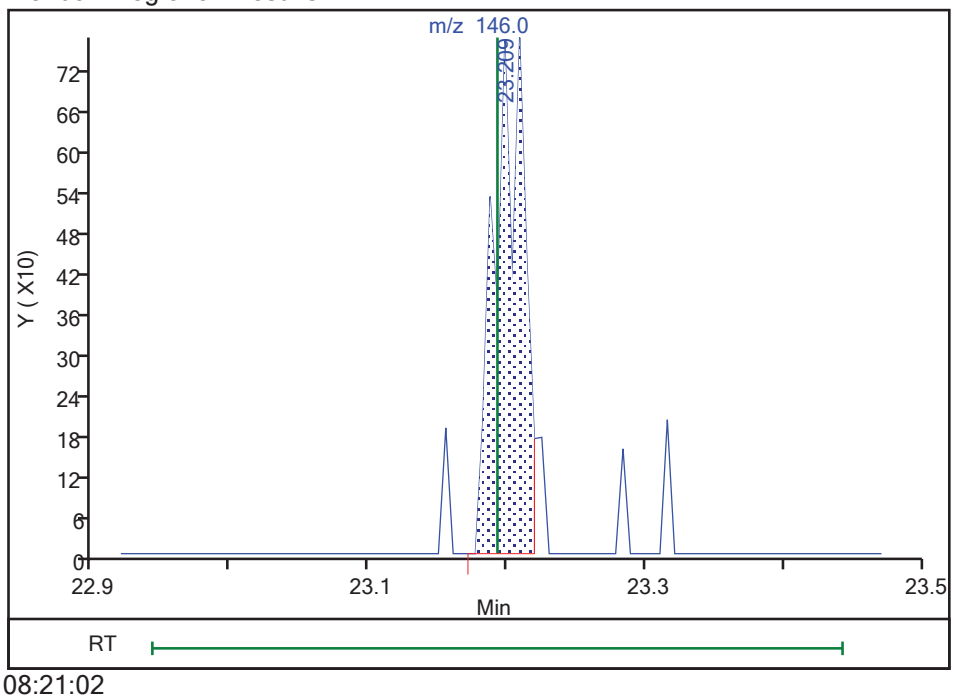
Processing Integration Results

RT: 23.20
Area: 721
Amount: 0.008612
Amount Units: ppb v/v



Manual Integration Results

RT: 23.21
Area: 1158
Amount: 0.013832
Amount Units: ppb v/v



Reviewer: bunmaa, 04-Aug-2022 08:21:02
Audit Action: Manually Integrated Audit Reason: Assign Peak

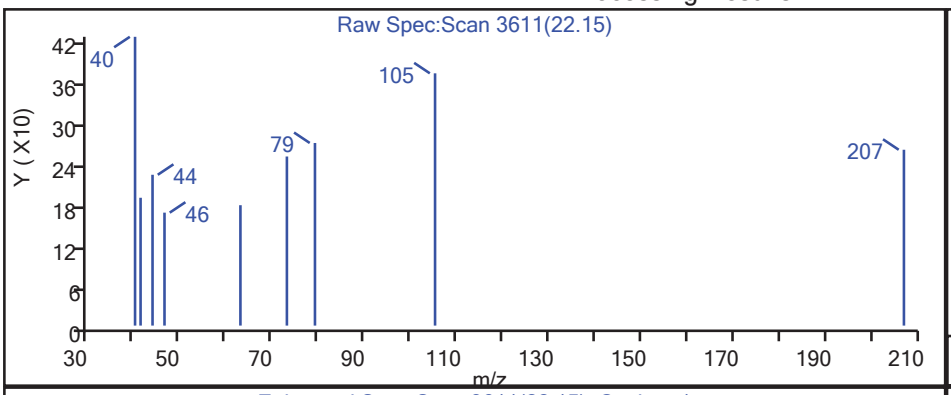
User Disabled Compound Report

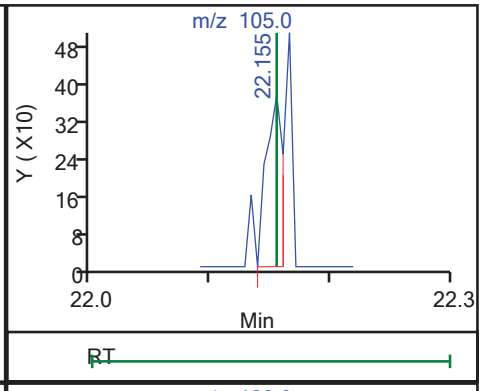
Eurofins Burlington

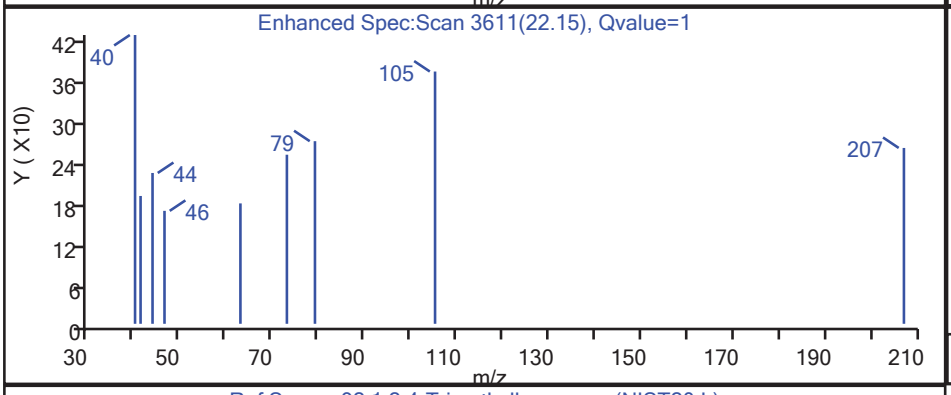
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

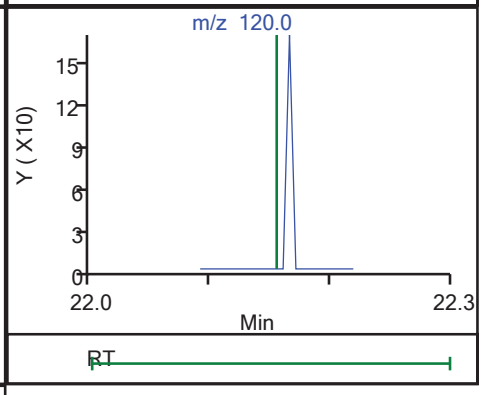
92 1,2,4-Trimethylbenzene, CAS: 95-63-6

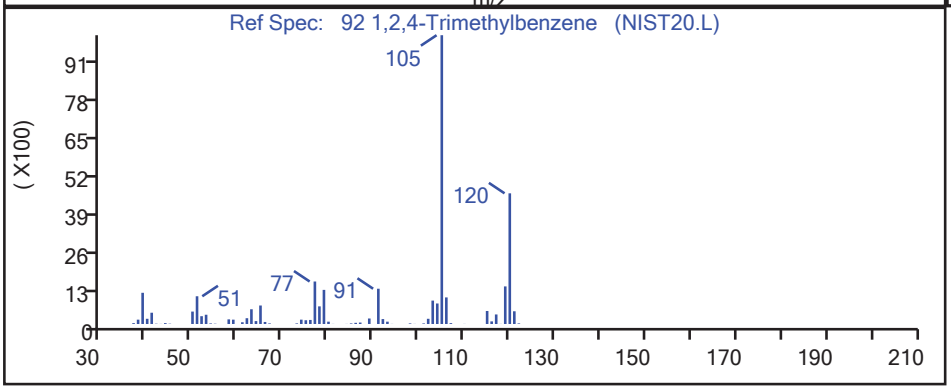
Processing Results











RT	Mass	Response	Amount
22.15	105.00	360	0.002493
22.15	120.00	0	

Reviewer: bunmaa, 04-Aug-2022 08:19:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Vapor Sampling Results
BRRTS #02-46-549906 and #02-46-000743
Lime Kiln Park and West Plume
Grafton, Ozaukee County, Wisconsin

Sub-Slab Vapor Samples							
Property	**WDNR Vapor Risk Screening Levels (VRSLs)**		**2020 S Green Bay Rd.**	**2076 First Ave.**			
Sample Location	**Small Commercial VRSL**	**Large Commercial/ Industrial VRSL**	Zaun Pavilion	NE Corner of Main Building		West Side of Cells B and D	Storage Shed
Sample ID[1]	(Applicable to 2020 S Green Bay Rd.)	(Applicable to 2076 First Ave.)	VP-2020SGBR-01	VP-2076FA-01	VP-DUP-01	VP-2076FA-02	VP-2076FA-03
Sample Duration[3]			30 min	30 min	30 min	27 min	30 min
Date Collected			08/19/2022	08/19/2022	08/19/2022	08/19/2022	08/19/2022
Volatile Organic Compounds (µg/m^3)[4]							
1,1,1-Trichloroethane	730,000	2,200,000	0.61 J	310	310	0.30 J	310
trans-1,2-Dichloroethene	5,800	18,000	< 0.35	< 0.52	< 0.52	< 0.35	< 14
Trichloroethene	290	880	260	1.3 J	1.5 J	0.31 J	**6300**
cis-1,2-Dichloroethene	--	--	< 0.13	< 0.20	< 0.20	< 0.13	< 5.2
Trichlorotrifluoroethane, 1,1,2-	730,000	2,200,000	< 0.42	4500	3400	140	3000
Vinyl chloride	930	2,800	< 0.072	< 0.11	< 0.11	< 0.072	< 2.9

Indoor Air and Ambient Air Samples								
Property	**WDNR Vapor Action Levels (VALs)**		**2020 S Green Bay Rd.**	**2076 First Ave.**				
Sample Location	**Small Commercial VAL**	**Large Commercial/ Industrial VAL**	Zaun Pavilion	NE Corner of Main Building	West Side of Cells B and D		Storage Shed	Exterior, NE Corner of Main Building
Sample ID[2]	(Applicable to 202 S Green Bay Rd.)	(Applicable to 2076 First Ave.)	IA-2020SGBR-01	IA-2076FA-01	IA-2076FA-02	IA-DUP-01	IA-2076FA-03	OA-2076FA-01
Sample Duration[3]			8 hrs	8 hrs	10 hrs	10 hrs	8 hrs	8 hrs
Date Collected			08/16/2022	08/16/2022	08/16/2022	08/16/2022	08/16/2022	08/16/2022
Volatile Organic Compounds (µg/m^3)[4]								
1,1,1-Trichloroethane	22,000	22,000	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
trans-1,2-Dichloroethene	180	180	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Trichloroethene	8.8	8.8	0.76 J	< 0.13	< 0.13	0.17 J	0.21 J	< 0.13
cis-1,2-Dichloroethene	--	--	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Trichlorotrifluoroethane, 1,1,2-	21,900	21,900	0.43 J	< 0.42	< 0.42	< 0.42	0.51 J	< 0.42
Vinyl chloride	28	28	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072

Notes:
Bold values exceed an applicable sub-slab vapor risk screening level or indoor air vapor action level
WDNR Large Commercial/Industrial Vapor Risk Screening Levels and Vapor Action Levels obtained from RR-0136 (February 2022) - https://dnr.wi.gov/files/PDF/pubs/rr/RR0136.pdf and EPA Vapor Intrusion Screening Levels (VISL) Calculator - https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculato
< = Less than the detection limit.
-- = No standard established or data not collected.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
ug/m^3 = Micrograms per cubic meter.
hr - hour
min - minutes

Footnotes:
(1) Each sub-slab sample was collected using a 6-liter Summa Canister with a flow controller set to 200 cubic centimeters per minute. A water dam and shut-in leak test were completed prior to sampling for quality assurance purposes.
(2) Each indoor air sample was collected using a 6-liter Summa Canister with a flow controller set to 12.5 cubic centimeters per minute.
(3) Target sample durations were 30-minutes for sub-slab samples and 8-hours for indoor air samples, but select sample durations were modified to obtain sufficient sample volume.
(4) Samples were analyzed using Environmental Protection Agency (EPA) Toxic Organic-15 (TO-15) method for the above reported parameters

Created by: A. Enright 9/11/2022
Checked by: T. Perkins 9/13/2022

LEGEND

- PAIRED SUB-SLAB/INDOOR AIR VAPOR SAMPLE (TRC)
- SITE BOUNDARY
- TAX PARCEL

NOTES

1. BASE MAP IMAGERY FROM ORTHOPHOTO CONSORTIUM (WROC) AND THE SOUTHEAST WI REGIONAL PLANNING COMMISSION (SEWRPC) (2020).

N

0 20 40 Feet

1 " = 20 '
1:240

PROJECT:
BRRTS #02-46-549906 AND #02-46-000743
LIME KILN PARK AND WEST PLUME
GRAFTON, OZAUKEE COUNTY, WISCONSIN

TITLE:
SAMPLING LOCATIONS
2020 S GREEN BAY RD

DRAWN BY:	A. ADAIR	PROJ. NO.:	459265
CHECKED BY:	A. ENRIGHT		
APPROVED BY:	S. SELLWOOD		**FIGURE 2**
DATE:	SEPTEMBER 2022		

TRC
708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trccompanies.com

FILE NO.: 459265_002a_SL.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
Plot Date: 9/14/2022, 13:01:04 PM by AADAIR -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\Village_of_GraftonWI\Lime_Kiln_Landfill\2021_412091\459265_002a_SL.mxd

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-64672-1
Laboratory Sample Delivery Group: 200-64672
Client Project/Site: Site Investigation - Vapor

For:
TRC Environmental Corporation.
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Tom Perkins

Authorized for release by:
9/9/2022 6:27:57 PM

Kathryn Kelly, Project Manager II
(802)923-1021
Kathryn.Kelly@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 200-64672-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: TRC Environmental Corporation.

Project: Site Investigation - Vapor

Report Number: 200-64672-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

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

RECEIPT
The samples were received on 08/27/2022; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples IA-2020SGBR-01-2022Q3, IA-2076FA-01-2022Q3, IA-2076FA-02-2022Q3, IA-2076FA-03-2022Q3, IA-DUP-01-2022Q3, OA-2076FA-01-2022Q3, VP-2020SGBR-01-2022Q3, VP-2076FA-01-2022Q3, VP-2076FA-02-2022Q3, VP-2076FA-03-2022Q3 and VP-DUP-01-2022Q3 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/30/2022 and 08/31/2022.

Samples VP-2020SGBR-01-2022Q3[4X], VP-2076FA-01-2022Q3[1.5X], VP-2076FA-01-2022Q3[20X], VP-2076FA-03-2022Q3[40X], VP-DUP-01-2022Q3[1.5X] and VP-DUP-01-2022Q3[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Client Sample ID: IA-2020SGBR-01-2022Q3 — Lab Sample ID: 200-64672-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.14	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	0.056	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.76	J	1.1	0.13	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	0.43	J	1.5	0.42	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA-2076FA-01-2022Q3 — Lab Sample ID: 200-64672-2

No Detections.

Client Sample ID: IA-2076FA-02-2022Q3 — Lab Sample ID: 200-64672-3

No Detections.

Client Sample ID: IA-2076FA-03-2022Q3 — Lab Sample ID: 200-64672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.039	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	0.067	J	0.20	0.055	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.21	J	1.1	0.13	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	0.51	J	1.5	0.42	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA-DUP-01-2022Q3 — Lab Sample ID: 200-64672-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.031	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.17	J	1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: OA-2076FA-01-2022Q3 — Lab Sample ID: 200-64672-6

No Detections.

Client Sample ID: VP-2020SGBR-01-2022Q3 — Lab Sample ID: 200-64672-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.11	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichloroethene	66	E	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Trichloroethene - DL	49		0.80	0.096	ppb v/v	4		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.61	J	1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichloroethene	360	E	1.1	0.13	ug/m3	1		TO-15	Total/NA
Trichloroethene - DL	260		4.3	0.52	ug/m3	4		TO-15	Total/NA

Client Sample ID: VP-2076FA-01-2022Q3 — Lab Sample ID: 200-64672-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	58		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Trichloroethene	0.24	J	0.30	0.036	ppb v/v	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	500	E	0.30	0.083	ppb v/v	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	71		4.0	0.78	ppb v/v	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	590		4.0	1.1	ppb v/v	20		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Client Sample ID: VP-2076FA-01-2022Q3 (Continued) — Lab Sample ID: 200-64672-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	310		1.6	0.32	ug/m3	1.5		TO-15	Total/NA
Trichloroethene	1.3	J	1.6	0.19	ug/m3	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	3800	E	2.3	0.63	ug/m3	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	390		22	4.3	ug/m3	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	4500		31	8.4	ug/m3	20		TO-15	Total/NA

Client Sample ID: VP-2076FA-02-2022Q3 — Lab Sample ID: 200-64672-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.054	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.058	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	19		0.20	0.055	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.30	J	1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.31	J	1.1	0.13	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	140		1.5	0.42	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-2076FA-03-2022Q3 — Lab Sample ID: 200-64672-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	57		8.0	1.6	ppb v/v	40		TO-15	Total/NA
Trichloroethene	1200		8.0	0.96	ppb v/v	40		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	400		8.0	2.2	ppb v/v	40		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	310		44	8.5	ug/m3	40		TO-15	Total/NA
Trichloroethene	6300		43	5.2	ug/m3	40		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	3000		61	17	ug/m3	40		TO-15	Total/NA

Client Sample ID: VP-DUP-01-2022Q3 — Lab Sample ID: 200-64672-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	57		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Trichloroethene	0.28	J	0.30	0.036	ppb v/v	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	490	E	0.30	0.083	ppb v/v	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	52		4.0	0.78	ppb v/v	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	450		4.0	1.1	ppb v/v	20		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	310		1.6	0.32	ug/m3	1.5		TO-15	Total/NA
Trichloroethene	1.5	J	1.6	0.19	ug/m3	1.5		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2-	3800	E	2.3	0.63	ug/m3	1.5		TO-15	Total/NA
1,1,1-Trichloroethane - DL	280		22	4.3	ug/m3	20		TO-15	Total/NA
Trichlorotrifluoroethane, 1,1,2- - DL	3400		31	8.4	ug/m3	20		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-2020SGBR-01-2022Q3

Lab Sample ID: 200-64672-1
Matrix: Air
Date Collected: 08/16/22 17:43
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 13:03	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 13:03	1
Trichloroethene	**0.14**	**J**	0.20	0.024	ppb v/v			08/30/22 13:03	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 13:03	1
Trichlorotrifluoroethane, 1,1,2-	**0.056**	**J**	0.20	0.055	ppb v/v			08/30/22 13:03	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 13:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 13:03	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 13:03	1
Trichloroethene	**0.76**	**J**	1.1	0.13	ug/m3			08/30/22 13:03	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 13:03	1
Trichlorotrifluoroethane, 1,1,2-	**0.43**	**J**	1.5	0.42	ug/m3			08/30/22 13:03	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 13:03	1

Client Sample ID: IA-2076FA-01-2022Q3

Lab Sample ID: 200-64672-2
Matrix: Air
Date Collected: 08/16/22 17:09
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 13:57	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 13:57	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 13:57	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 13:57	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 13:57	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 13:57	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 13:57	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 13:57	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/30/22 13:57	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 13:57	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 13:57	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 13:57	1

Client Sample ID: IA-2076FA-02-2022Q3

Lab Sample ID: 200-64672-3
Matrix: Air
Date Collected: 08/16/22 19:07
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 14:52	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 14:52	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 14:52	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 14:52	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 14:52	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 14:52	1

Client Sample ID: IA-2076FA-02-2022Q3

Lab Sample ID: 200-64672-3
Matrix: Air
Date Collected: 08/16/22 19:07
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 14:52	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 14:52	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/30/22 14:52	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 14:52	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 14:52	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 14:52	1

Client Sample ID: IA-2076FA-03-2022Q3

Lab Sample ID: 200-64672-4
Matrix: Air
Date Collected: 08/16/22 17:05
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 15:48	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 15:48	1
Trichloroethene	**0.039**	**J**	0.20	0.024	ppb v/v			08/30/22 15:48	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 15:48	1
Trichlorotrifluoroethane, 1,1,2-	**0.067**	**J**	0.20	0.055	ppb v/v			08/30/22 15:48	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 15:48	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 15:48	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 15:48	1
Trichloroethene	**0.21**	**J**	1.1	0.13	ug/m3			08/30/22 15:48	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 15:48	1
Trichlorotrifluoroethane, 1,1,2-	**0.51**	**J**	1.5	0.42	ug/m3			08/30/22 15:48	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 15:48	1

Client Sample ID: IA-DUP-01-2022Q3

Lab Sample ID: 200-64672-5
Matrix: Air
Date Collected: 08/16/22 00:00
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 22:11	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 22:11	1
Trichloroethene	**0.031**	**J**	0.20	0.024	ppb v/v			08/30/22 22:11	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 22:11	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 22:11	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 22:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 22:11	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 22:11	1
Trichloroethene	**0.17**	**J**	1.1	0.13	ug/m3			08/30/22 22:11	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 22:11	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 22:11	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 22:11	1

Client Sample ID: OA-2076FA-01-2022Q3

Lab Sample ID: 200-64672-6

Date Collected: 08/16/22 17:12
Matrix: Air
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 23:04	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 23:04	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 23:04	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 23:04	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 23:04	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 23:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 23:04	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 23:04	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/30/22 23:04	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 23:04	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 23:04	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 23:04	1

Client Sample ID: VP-2020SGBR-01-2022Q3

Lab Sample ID: 200-64672-7

Date Collected: 08/19/22 11:28
Matrix: Air
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.11**	**J**	0.20	0.039	ppb v/v			08/30/22 23:58	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 23:58	1
Trichloroethene	**66**	**E**	0.20	0.024	ppb v/v			08/30/22 23:58	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 23:58	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 23:58	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 23:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.61**	**J**	1.1	0.21	ug/m3			08/30/22 23:58	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 23:58	1
Trichloroethene	**360**	**E**	1.1	0.13	ug/m3			08/30/22 23:58	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 23:58	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 23:58	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 23:58	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.16		0.80	0.16	ppb v/v			08/31/22 11:04	4
trans-1,2-Dichloroethene	<0.35		0.80	0.35	ppb v/v			08/31/22 11:04	4
Trichloroethene	**49**		0.80	0.096	ppb v/v			08/31/22 11:04	4
cis-1,2-Dichloroethene	<0.13		0.80	0.13	ppb v/v			08/31/22 11:04	4
Trichlorotrifluoroethane, 1,1,2-	<0.22		0.80	0.22	ppb v/v			08/31/22 11:04	4
Vinyl chloride	<0.11		0.80	0.11	ppb v/v			08/31/22 11:04	4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.85		4.4	0.85	ug/m3			08/31/22 11:04	4
trans-1,2-Dichloroethene	<1.4		3.2	1.4	ug/m3			08/31/22 11:04	4
Trichloroethene	**260**		4.3	0.52	ug/m3			08/31/22 11:04	4
cis-1,2-Dichloroethene	<0.52		3.2	0.52	ug/m3			08/31/22 11:04	4

Client Sample ID: VP-2020SGBR-01-2022Q3

Lab Sample ID: 200-64672-7
Matrix: Air
Date Collected: 08/19/22 11:28
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorotrifluoroethane, 1,1,2-	<1.7		6.1	1.7	ug/m3			08/31/22 11:04	4
Vinyl chloride	<0.29		2.0	0.29	ug/m3			08/31/22 11:04	4

Client Sample ID: VP-2076FA-01-2022Q3

Lab Sample ID: 200-64672-8
Matrix: Air
Date Collected: 08/19/22 12:50
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**58**		0.30	0.059	ppb v/v			08/31/22 00:52	1.5
trans-1,2-Dichloroethene	<0.13		0.30	0.13	ppb v/v			08/31/22 00:52	1.5
Trichloroethene	**0.24**	**J**	0.30	0.036	ppb v/v			08/31/22 00:52	1.5
cis-1,2-Dichloroethene	<0.050		0.30	0.050	ppb v/v			08/31/22 00:52	1.5
Trichlorotrifluoroethane, 1,1,2-	**500**	**E**	0.30	0.083	ppb v/v			08/31/22 00:52	1.5
Vinyl chloride	<0.042		0.30	0.042	ppb v/v			08/31/22 00:52	1.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**310**		1.6	0.32	ug/m3			08/31/22 00:52	1.5
trans-1,2-Dichloroethene	<0.52		1.2	0.52	ug/m3			08/31/22 00:52	1.5
Trichloroethene	**1.3**	**J**	1.6	0.19	ug/m3			08/31/22 00:52	1.5
cis-1,2-Dichloroethene	<0.20		1.2	0.20	ug/m3			08/31/22 00:52	1.5
Trichlorotrifluoroethane, 1,1,2-	**3800**	**E**	2.3	0.63	ug/m3			08/31/22 00:52	1.5
Vinyl chloride	<0.11		0.77	0.11	ug/m3			08/31/22 00:52	1.5

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**71**		4.0	0.78	ppb v/v			08/31/22 18:22	20
trans-1,2-Dichloroethene	<1.8		4.0	1.8	ppb v/v			08/31/22 18:22	20
Trichloroethene	<0.48		4.0	0.48	ppb v/v			08/31/22 18:22	20
cis-1,2-Dichloroethene	<0.66		4.0	0.66	ppb v/v			08/31/22 18:22	20
Trichlorotrifluoroethane, 1,1,2-	**590**		4.0	1.1	ppb v/v			08/31/22 18:22	20
Vinyl chloride	<0.56		4.0	0.56	ppb v/v			08/31/22 18:22	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**390**		22	4.3	ug/m3			08/31/22 18:22	20
trans-1,2-Dichloroethene	<7.0		16	7.0	ug/m3			08/31/22 18:22	20
Trichloroethene	<2.6		21	2.6	ug/m3			08/31/22 18:22	20
cis-1,2-Dichloroethene	<2.6		16	2.6	ug/m3			08/31/22 18:22	20
Trichlorotrifluoroethane, 1,1,2-	**4500**		31	8.4	ug/m3			08/31/22 18:22	20
Vinyl chloride	<1.4		10	1.4	ug/m3			08/31/22 18:22	20

Client Sample ID: VP-2076FA-02-2022Q3

Lab Sample ID: 200-64672-9
Matrix: Air
Date Collected: 08/19/22 12:23
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.054**	**J**	0.20	0.039	ppb v/v			08/31/22 01:45	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/31/22 01:45	1

Client Sample ID: VP-2076FA-02-2022Q3

Lab Sample ID: 200-64672-9
Matrix: Air
Date Collected: 08/19/22 12:23
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**0.058**	**J**	0.20	0.024	ppb v/v			08/31/22 01:45	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/31/22 01:45	1
Trichlorotrifluoroethane, 1,1,2-	**19**		0.20	0.055	ppb v/v			08/31/22 01:45	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/31/22 01:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.30**	**J**	1.1	0.21	ug/m3			08/31/22 01:45	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/31/22 01:45	1
Trichloroethene	**0.31**	**J**	1.1	0.13	ug/m3			08/31/22 01:45	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/31/22 01:45	1
Trichlorotrifluoroethane, 1,1,2-	**140**		1.5	0.42	ug/m3			08/31/22 01:45	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/31/22 01:45	1

Client Sample ID: VP-2076FA-03-2022Q3

Lab Sample ID: 200-64672-10
Matrix: Air
Date Collected: 08/19/22 13:12
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**57**		8.0	1.6	ppb v/v			08/31/22 02:39	40
trans-1,2-Dichloroethene	<3.5		8.0	3.5	ppb v/v			08/31/22 02:39	40
Trichloroethene	**1200**		8.0	0.96	ppb v/v			08/31/22 02:39	40
cis-1,2-Dichloroethene	<1.3		8.0	1.3	ppb v/v			08/31/22 02:39	40
Trichlorotrifluoroethane, 1,1,2-	**400**		8.0	2.2	ppb v/v			08/31/22 02:39	40
Vinyl chloride	<1.1		8.0	1.1	ppb v/v			08/31/22 02:39	40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**310**		44	8.5	ug/m3			08/31/22 02:39	40
trans-1,2-Dichloroethene	<14		32	14	ug/m3			08/31/22 02:39	40
Trichloroethene	**6300**		43	5.2	ug/m3			08/31/22 02:39	40
cis-1,2-Dichloroethene	<5.2		32	5.2	ug/m3			08/31/22 02:39	40
Trichlorotrifluoroethane, 1,1,2-	**3000**		61	17	ug/m3			08/31/22 02:39	40
Vinyl chloride	<2.9		20	2.9	ug/m3			08/31/22 02:39	40

Client Sample ID: VP-DUP-01-2022Q3

Lab Sample ID: 200-64672-11
Matrix: Air
Date Collected: 08/19/22 00:00
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**57**		0.30	0.059	ppb v/v			08/31/22 03:32	1.5
trans-1,2-Dichloroethene	<0.13		0.30	0.13	ppb v/v			08/31/22 03:32	1.5
Trichloroethene	**0.28**	**J**	0.30	0.036	ppb v/v			08/31/22 03:32	1.5
cis-1,2-Dichloroethene	<0.050		0.30	0.050	ppb v/v			08/31/22 03:32	1.5
Trichlorotrifluoroethane, 1,1,2-	**490**	**E**	0.30	0.083	ppb v/v			08/31/22 03:32	1.5
Vinyl chloride	<0.042		0.30	0.042	ppb v/v			08/31/22 03:32	1.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**310**		1.6	0.32	ug/m3			08/31/22 03:32	1.5
trans-1,2-Dichloroethene	<0.52		1.2	0.52	ug/m3			08/31/22 03:32	1.5

Client Sample ID: VP-DUP-01-2022Q3

Date Collected: 08/19/22 00:00
Date Received: 08/27/22 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-64672-11

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1.5**	**J**	1.6	0.19	ug/m3			08/31/22 03:32	1.5
cis-1,2-Dichloroethene	<0.20		1.2	0.20	ug/m3			08/31/22 03:32	1.5
Trichlorotrifluoroethane, 1,1,2-	**3800**	**E**	2.3	0.63	ug/m3			08/31/22 03:32	1.5
Vinyl chloride	<0.11		0.77	0.11	ug/m3			08/31/22 03:32	1.5

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**52**		4.0	0.78	ppb v/v			08/31/22 19:15	20
trans-1,2-Dichloroethene	<1.8		4.0	1.8	ppb v/v			08/31/22 19:15	20
Trichloroethene	<0.48		4.0	0.48	ppb v/v			08/31/22 19:15	20
cis-1,2-Dichloroethene	<0.66		4.0	0.66	ppb v/v			08/31/22 19:15	20
Trichlorotrifluoroethane, 1,1,2-	**450**		4.0	1.1	ppb v/v			08/31/22 19:15	20
Vinyl chloride	<0.56		4.0	0.56	ppb v/v			08/31/22 19:15	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**280**		22	4.3	ug/m3			08/31/22 19:15	20
trans-1,2-Dichloroethene	<7.0		16	7.0	ug/m3			08/31/22 19:15	20
Trichloroethene	<2.6		21	2.6	ug/m3			08/31/22 19:15	20
cis-1,2-Dichloroethene	<2.6		16	2.6	ug/m3			08/31/22 19:15	20
Trichlorotrifluoroethane, 1,1,2-	**3400**		31	8.4	ug/m3			08/31/22 19:15	20
Vinyl chloride	<1.4		10	1.4	ug/m3			08/31/22 19:15	20

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-183110/5
Matrix: Air
Analysis Batch: 183110

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/30/22 11:06	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/30/22 11:06	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/30/22 11:06	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/30/22 11:06	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/30/22 11:06	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/30/22 11:06	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/30/22 11:06	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/30/22 11:06	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/30/22 11:06	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/30/22 11:06	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/30/22 11:06	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/30/22 11:06	1

Lab Sample ID: LCS 200-183110/3
Matrix: Air
Analysis Batch: 183110

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.35		ppb v/v		94	72 - 127
trans-1,2-Dichloroethene	10.0	8.85		ppb v/v		88	69 - 137
Trichloroethene	10.0	8.93		ppb v/v		89	73 - 122
cis-1,2-Dichloroethene	10.0	8.75		ppb v/v		88	72 - 121
Trichlorotrifluoroethane, 1,1,2-	10.0	8.92		ppb v/v		89	70 - 121
Vinyl chloride	10.0	7.90		ppb v/v		79	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	55	51.0		ug/m3		94	72 - 127
trans-1,2-Dichloroethene	40	35.1		ug/m3		88	69 - 137
Trichloroethene	54	48.0		ug/m3		89	73 - 122
cis-1,2-Dichloroethene	40	34.7		ug/m3		88	72 - 121
Trichlorotrifluoroethane, 1,1,2-	77	68.4		ug/m3		89	70 - 121
Vinyl chloride	26	20.2		ug/m3		79	61 - 135

Lab Sample ID: LCSD 200-183110/4
Matrix: Air
Analysis Batch: 183110

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	9.05		ppb v/v		90	72 - 127	3	25
trans-1,2-Dichloroethene	10.0	8.72		ppb v/v		87	69 - 137	1	25
Trichloroethene	10.0	8.82		ppb v/v		88	73 - 122	1	25
cis-1,2-Dichloroethene	10.0	8.56		ppb v/v		86	72 - 121	2	25
Trichlorotrifluoroethane, 1,1,2-	10.0	8.80		ppb v/v		88	70 - 121	1	25
Vinyl chloride	10.0	7.87		ppb v/v		79	61 - 135	0	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	55	49.4		ug/m3		90	72 - 127	3	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 200-183110/4
Matrix: Air
Analysis Batch: 183110

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	40	34.6		ug/m3		87	69 - 137	1	25
Trichloroethene	54	47.4		ug/m3		88	73 - 122	1	25
cis-1,2-Dichloroethene	40	33.9		ug/m3		86	72 - 121	2	25
Trichlorotrifluoroethane, 1,1,2-	77	67.5		ug/m3		88	70 - 121	1	25
Vinyl chloride	26	20.1		ug/m3		79	61 - 135	0	25

Lab Sample ID: MB 200-183152/4
Matrix: Air
Analysis Batch: 183152

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/31/22 10:10	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/31/22 10:10	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/31/22 10:10	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/31/22 10:10	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/31/22 10:10	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/31/22 10:10	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/31/22 10:10	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/31/22 10:10	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/31/22 10:10	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/31/22 10:10	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/31/22 10:10	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/31/22 10:10	1

Lab Sample ID: LCS 200-183152/3
Matrix: Air
Analysis Batch: 183152

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.54		ppb v/v		95	72 - 127
trans-1,2-Dichloroethene	10.0	8.74		ppb v/v		87	69 - 137
Trichloroethene	10.0	9.41		ppb v/v		94	73 - 122
cis-1,2-Dichloroethene	10.0	9.09		ppb v/v		91	72 - 121
Trichlorotrifluoroethane, 1,1,2-	10.0	9.30		ppb v/v		93	70 - 121
Vinyl chloride	10.0	7.17		ppb v/v		72	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	55	52.0		ug/m3		95	72 - 127
trans-1,2-Dichloroethene	40	34.7		ug/m3		87	69 - 137
Trichloroethene	54	50.6		ug/m3		94	73 - 122
cis-1,2-Dichloroethene	40	36.0		ug/m3		91	72 - 121
Trichlorotrifluoroethane, 1,1,2-	77	71.3		ug/m3		93	70 - 121
Vinyl chloride	26	18.3		ug/m3		72	61 - 135

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-183154/4
Matrix: Air
Analysis Batch: 183154

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			08/31/22 10:26	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			08/31/22 10:26	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			08/31/22 10:26	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/31/22 10:26	1
Trichlorotrifluoroethane, 1,1,2-	<0.055		0.20	0.055	ppb v/v			08/31/22 10:26	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			08/31/22 10:26	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			08/31/22 10:26	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			08/31/22 10:26	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			08/31/22 10:26	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/31/22 10:26	1
Trichlorotrifluoroethane, 1,1,2-	<0.42		1.5	0.42	ug/m3			08/31/22 10:26	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			08/31/22 10:26	1

Lab Sample ID: LCS 200-183154/3
Matrix: Air
Analysis Batch: 183154

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.50		ppb v/v		95	72 - 127
trans-1,2-Dichloroethene	10.0	8.97		ppb v/v		90	69 - 137
Trichloroethene	10.0	9.15		ppb v/v		91	73 - 122
cis-1,2-Dichloroethene	10.0	8.63		ppb v/v		86	72 - 121
Trichlorotrifluoroethane, 1,1,2-	10.0	9.07		ppb v/v		91	70 - 121
Vinyl chloride	10.0	8.18		ppb v/v		82	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	55	51.8		ug/m3		95	72 - 127
trans-1,2-Dichloroethene	40	35.6		ug/m3		90	69 - 137
Trichloroethene	54	49.2		ug/m3		91	73 - 122
cis-1,2-Dichloroethene	40	34.2		ug/m3		86	72 - 121
Trichlorotrifluoroethane, 1,1,2-	77	69.5		ug/m3		91	70 - 121
Vinyl chloride	26	20.9		ug/m3		82	61 - 135

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Air - GC/MS VOA

Analysis Batch: 183110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-64672-1	IA-2020SGBR-01-2022Q3	Total/NA	Air	TO-15	
200-64672-2	IA-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-3	IA-2076FA-02-2022Q3	Total/NA	Air	TO-15	
200-64672-4	IA-2076FA-03-2022Q3	Total/NA	Air	TO-15	
200-64672-5	IA-DUP-01-2022Q3	Total/NA	Air	TO-15	
200-64672-6	OA-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-7	VP-2020SGBR-01-2022Q3	Total/NA	Air	TO-15	
200-64672-8	VP-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-9	VP-2076FA-02-2022Q3	Total/NA	Air	TO-15	
200-64672-10	VP-2076FA-03-2022Q3	Total/NA	Air	TO-15	
200-64672-11	VP-DUP-01-2022Q3	Total/NA	Air	TO-15	
MB 200-183110/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-183110/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 200-183110/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 183152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-64672-7 - DL	VP-2020SGBR-01-2022Q3	Total/NA	Air	TO-15	
MB 200-183152/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-183152/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 183154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-64672-8 - DL	VP-2076FA-01-2022Q3	Total/NA	Air	TO-15	
200-64672-11 - DL	VP-DUP-01-2022Q3	Total/NA	Air	TO-15	
MB 200-183154/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-183154/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Client Sample ID: IA-2020SGBR-01-2022Q3
Lab Sample ID: 200-64672-1
Date Collected: 08/16/22 17:43
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 13:03

Client Sample ID: IA-2076FA-01-2022Q3
Lab Sample ID: 200-64672-2
Date Collected: 08/16/22 17:09
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 13:57

Client Sample ID: IA-2076FA-02-2022Q3
Lab Sample ID: 200-64672-3
Date Collected: 08/16/22 19:07
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 14:52

Client Sample ID: IA-2076FA-03-2022Q3
Lab Sample ID: 200-64672-4
Date Collected: 08/16/22 17:05
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 15:48

Client Sample ID: IA-DUP-01-2022Q3
Lab Sample ID: 200-64672-5
Date Collected: 08/16/22 00:00
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 22:11

Client Sample ID: OA-2076FA-01-2022Q3
Lab Sample ID: 200-64672-6
Date Collected: 08/16/22 17:12
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 23:04

Client Sample ID: VP-2020SGBR-01-2022Q3
Lab Sample ID: 200-64672-7
Date Collected: 08/19/22 11:28
Matrix: Air
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	4	183152	A1B	EET BUR	08/31/22 11:04
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/30/22 23:58

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Client Sample ID: VP-2076FA-01-2022Q3

Lab Sample ID: 200-64672-8
Matrix: Air
Date Collected: 08/19/22 12:50
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1.5	183110	K1P	EET BUR	08/31/22 00:52
Total/NA	Analysis	TO-15	DL	20	183154	A1B	EET BUR	08/31/22 18:22

Client Sample ID: VP-2076FA-02-2022Q3

Lab Sample ID: 200-64672-9
Matrix: Air
Date Collected: 08/19/22 12:23
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	183110	K1P	EET BUR	08/31/22 01:45

Client Sample ID: VP-2076FA-03-2022Q3

Lab Sample ID: 200-64672-10
Matrix: Air
Date Collected: 08/19/22 13:12
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		40	183110	K1P	EET BUR	08/31/22 02:39

Client Sample ID: VP-DUP-01-2022Q3

Lab Sample ID: 200-64672-11
Matrix: Air
Date Collected: 08/19/22 00:00
Date Received: 08/27/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1.5	183110	K1P	EET BUR	08/31/22 03:32
Total/NA	Analysis	TO-15	DL	20	183154	A1B	EET BUR	08/31/22 19:15

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-23

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job ID: 200-64672-1
SDG: 200-64672

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-64672-1	IA-2020SGBR-01-2022Q3	Air	08/16/22 17:43	08/27/22 09:30	Air Canister (6-Liter) #5619
200-64672-2	IA-2076FA-01-2022Q3	Air	08/16/22 17:09	08/27/22 09:30	Air Canister (6-Liter) #5726
200-64672-3	IA-2076FA-02-2022Q3	Air	08/16/22 19:07	08/27/22 09:30	Air Canister (6-Liter) #3010
200-64672-4	IA-2076FA-03-2022Q3	Air	08/16/22 17:05	08/27/22 09:30	Air Canister (6-Liter) #5711
200-64672-5	IA-DUP-01-2022Q3	Air	08/16/22 00:00	08/27/22 09:30	Air Canister (6-Liter) #5159
200-64672-6	OA-2076FA-01-2022Q3	Air	08/16/22 17:12	08/27/22 09:30	Air Canister (6-Liter) #2584
200-64672-7	VP-2020SGBR-01-2022Q3	Air	08/19/22 11:28	08/27/22 09:30	Air Canister (6-Liter) #9259
200-64672-8	VP-2076FA-01-2022Q3	Air	08/19/22 12:50	08/27/22 09:30	Air Canister (6-Liter) #2632
200-64672-9	VP-2076FA-02-2022Q3	Air	08/19/22 12:23	08/27/22 09:30	Air Canister (6-Liter) #3073
200-64672-10	VP-2076FA-03-2022Q3	Air	08/19/22 13:12	08/27/22 09:30	Air Canister (6-Liter) #5679
200-64672-11	VP-DUP-01-2022Q3	Air	08/19/22 00:00	08/27/22 09:30	Air Canister (6-Liter) #5606

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-64672	08/29/22	10:14	29.7	22	G34	RWM

Sampling Information and Return Equipment Check	Yes	N o	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	X		
(2) Is the flow controller ID used for each canister recorded?	X		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		X	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		X	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-64672-a-1	5619	-6.6	N	8533	91/88	Y	4096-51921	
200-64672-a-2	5726	-8.0	N	3062	92/22	Y	5441-51929	
200-64672-a-3	3010	-13.1	Y	4523	92/22	Y	5441-51929	
200-64672-a-4	5711	-8.8	N	6113	91/90	Y	5441-51929	
200-64672-a-5	5159	-9.5	N	3955	92/22	Y	5046-51932	
200-64672-a-6	2584	-7.7	N	3107	91/88	Y	5441-51929	
200-64672-a-7	9259	-8.6	N	6509	92/49	Y	5441-51929	
200-64672-a-8	2632	-9.3	N	5955	92/81	Y	5046-51932	
200-64672-a-9	3073	-8.4	N	4626	92/49	Y	5046-51932	
200-64672-a-10	5679	-8.0	N	6239	92/49	Y	4096-51921	
200-64672-a-11	5606	-8.8	N	9040	92/49	Y	4096-51921	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

200-64672 Chain of Custody

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	Client Project Manager: Alia Enright	Samples Collected By: Tom Perkins	COC No:
Company Name: TRC	Phone: 608-572-3845		1 of 2 COCs
Address: 1526 Cole Blvd, Suite 150	Email: AEnright@TRCcompanies.com		TALS Project #:
City/State/Zip Lakewood, CO 80401			For Lab Use Only:
Phone: 608-572-3845	Site Contact:		Walk-in Client:
FAX: —	Tel/Fax		Lab Sampling:
Project Name: Site Investigation - Vapor	Analysis Turnaround Time		Job / SDG No.:
Site/Location: Village of Grafton	Standard (Specific): X		(See below for Add'l Items)
PO # 185839	Rush (Specifiy):		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
IA-20205GBR-01-~~2022Q3~~ 2022Q3	8/16/22	0943	8/16/22	1743	-30	-6	8535	5619	X								X						Limited VOC List, See notes
IA-2076FA-01-2022Q3	8/16/22	0909	8/16/22	1709	-25.5	-4	3062	5726	X								X						
IA-2076FA-02-2022Q3	8/16/22	0907	8/16/22	1907	-26	-8	4523	3010	X								X						
IA-2076FA-03-2022Q3	8/16/22	0905	8/16/22	1705	-29.5	-5.5	6113	5711	X								X						
IA-Dup-01-2022Q3	8/16/22	—	8/16/22	—	-25.5	-2.5	3985	5159	X								X						Time: 6hrs 40min.
OA-2076FA-01-2022Q3	8/16/22	0912	~~8/16/22~~ 8/17/22	1712	-30	-6.5	3107	2584	X								X						
VP-2020 SGBR-01-2022Q3	8/18/22	1058	8/19/22	1128	-27	-6	6509	9256	X									X					Date: 8/19/22
VP-~~2057~~ 2076FA-01-2022Q3	8/18/22	1220	8/19/22	1250	-29	-8	5955	2632	X									X					
VP-2076FA-02-2022Q3	8/18/22	1156	8/19/22	1223	-25	-2.5	4626	3073	X									X					
VP-2076FA-03-2022Q3	8/19/22	1242	8/19/22	1312	-27.5	-7	6239	5679	X									X					

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Limited VOCs List: TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, 1,1,2-Trichlorofluoroethane, Vinyl chloride. Unused Cans: 4784, 5983

Samples Shipped by:	Date / Time: 8/25/2022 1600	Samples Received by:
Samples Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time: 8/27/22 0930	Received by:
Lab Use Only: Shipper Name:	Opened by:	Condition:

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	Client Project Manager: Alia Enright	Samples Collected By: Tom Perkins	COC No: 2 of 2 COCs
Company Name: TRC	Phone: 608-572-3845		
Address: 1526 Cole Blvd, Suite 150	Email: AEnright@TRCcompanies.com		TALS Project #:
City/State/Zip Lakewood, CO 80401			For Lab Use Only:
Phone: 608-572-3845	Site Contact:		Walk-in Client:
FAX: —	Tel/Fax		Lab Sampling:
Project Name: Site Investigation - Vapor	Analysis Turnaround Time		Job / SDG No.:
Site/Location: Village of Grafton	Standard (Specific): X		(See below for Add'l Items)
P O # 185839 1	Rush (Specify):		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14A(5) Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VP-DUP-01-20220803	8/4/22	—	8/4/22	—	-30	-7.5	9040	5606	Y									X					Limited VOC List, see notes

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
Limited VOCs List: TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, 1,1,2-Trichlorofluoroethane, vinyl chloride. Dup Tee: 5513

Samples Shipped by: Z-R	Date / Time: 8/25/22 1600	Samples Received by:
Samples Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time: 8/27/22 0930	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

9/9/2022

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 200-64672-1
SDG Number: 200-64672

Login Number: 64672
List Number: 1
Creator: McNabb, Robert W

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1953938, 1953941
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	TP
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Summa Canister Dilution Worksheet

Client: TRC Environmental Corporation.
Project/Site: Site Investigation - Vapor

Job No.: 200-64672-1
SDG No.: 200-64672

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
200-64672-10	6	-6.2	0.79	4.76	48.9	4.33	25.96		5.46	5.46	G24	08/30/22 12:59	TPB

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Top Rack	10	50	7/31/2022	1410	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Initial Reading Date:	Initial Reading Time:	Initial Reading Tech:	Initial Reading Temp:	Final Reading Gauge:	Final Reading Date:	Final Reading Time:	Final Reading Tech:	Final Reading Temp:
1	5606	.04	.14	.10	29.6	G26	8/1/22	0805	DPB	22	G26	8/4/22	1420	DPB	23
2	5724		.04	0		G26					G26				
3	5717			0		G26					G26				
4	5648			0		G26					G26				
5	5678			0		G26					G26				
6	5983		.04	0		G26					G26				
7	4096	.04	.04	0	29.8	G26	8/4/22	1430	DPB	23	G26	8/5/22	1520		22.0
8	5646	.04	.04	0	29.6	G26	8/1/22	0805	DPB	22	G26	8/4/22	1430	DPB	23
9	5619		.14	.10		G26					G26				
10	5679		.24	.20		G26					G26				
11	5638		.04	0		G26					G26				
12	9220		.04	0		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	Inventory Level 2	Inventory Level 3	Inventory Level 4	Secondary Review Limited	Secondary Review Review Date	Secondary Review Rev
4096	8/3/22	519121	AB1		XXXXXX				8/3/22	DPB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-64370-A-7
4096
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/31/2022 12:00 AM 200-1639520

Loc: 200
64370
#7 A
Air-Storag

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

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Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	50	7/31/2022	1410	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	9227	.02	.17	.15	29.0	G26	8/1/22	0726	TMB	22	G26	8/4/22	1400	TMB	23
2	4784		.04	0		G26					G26				
3	3010		.04	0		G26					G26				
4	2964		.04	0		G26					G26				
5	2584		.27	.23		G26					G26				
6	3523		.04			G26					G26				
7	5441	.04	.04	0	29.8	G26	8/4/22	1400	TMB	23	G26	8/5/22	1500		22.6
8	5711	.04	.04	0	29.6	G26	8/1/22	0726	TMB	22	G26	8/4/22	1400	TMB	23
9	5659			0		G26					G26				
10	9259			0		G26					G26				
11	5726			0		G26					G26				
12	34000155		.19	.15		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
5441	8/4/22	51929	ABL		XXXXXX				8/4/22	MP

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	25	8/1/2022	1200	22	22	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5160	-.04	-.04	0	29.6	G26	8/3/22	0840	JTB	22	G26	8/4/22	1343	JTB	22
2	3073			0		G26					G26				
3	2862			0		G26					G26				
4	5130			0		G26					G26				
5	5159			0		G26					G26				
6	5089		.04	.04		G26					G26				
7	3281		.12	.08		G26					G26				
8	5046	.04	.04	0	29.8	G26	8/4/22	1343	JTB	22	G26	8/5/22	1500	"	22.0
9	2632	-.04	.04	.08	29.6	G26	8/3/22	0840	JTB	22	G26	8/4/22	1343	JTB	22
10	4441		.06	.02		G26					G26				
11	5071		.04	0		G26					G26				
12	2540		.04	0		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: X TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
5046	8/4/22	51932	ABJ		XXXXXXX				8/4/22	JTB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64370-1

SDG No.:

Client Sample ID: 4096 Lab Sample ID: 200-64370-7

Matrix: Air Lab File ID: 200-51921-006.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/02/2022 13:34

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182263 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64370-1

SDG No.:

Client Sample ID: 4096 Lab Sample ID: 200-64370-7

Matrix: Air Lab File ID: 200-51921-006.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/02/2022 13:34

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182263 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64370-1

SDG No.:

Client Sample ID: 4096 Lab Sample ID: 200-64370-7

Matrix: Air Lab File ID: 200-51921-006.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/02/2022 13:34

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182263 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D
Lims ID: 200-64370-A-7
Client ID: 4096
Sample Type: Client
Inject. Date: 02-Aug-2022 13:34:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0051921-006
Misc. Info.: 64366-1
Operator ID: vtp Instrument ID: CHG.i

Method: \\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 03-Aug-2022 10:57:23 Calib Date: 13-Jun-2022 00:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20220612-51236.b\200-51236-014.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1654

First Level Reviewer: bunmaa Date: 03-Aug-2022 10:57:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.110				ND	
2 Dichlorodifluoromethane	85		3.174				ND	
3 Chlorodifluoromethane	51		3.195				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.399				ND	
5 Chloromethane	50		3.484				ND	
7 Butane	43		3.688				ND	
6 Vinyl chloride	62		3.693				ND	
8 Butadiene	54		3.768				ND	
9 Bromomethane	94		4.281				ND	
10 Chloroethane	64		4.479				ND	
12 Vinyl bromide	106		4.811				ND	
13 Trichlorofluoromethane	101		4.934				ND	
15 Ethanol	45		5.250				ND	
18 1,1-Dichloroethene	96		5.849				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.876				ND	
19 Acetone	43		5.935				ND	7
22 Isopropyl alcohol	45		6.197				ND	
23 Carbon disulfide	76		6.234				ND	
25 3-Chloro-1-propene	41		6.502				ND	
26 Methylene Chloride	49		6.726				ND	
27 2-Methyl-2-propanol	59		6.940				ND	
29 trans-1,2-Dichloroethene	61		7.202				ND	
30 Methyl tert-butyl ether	73		7.213				ND	
31 Hexane	57		7.700				ND	
32 1,1-Dichloroethane	63		7.973				ND	
33 Vinyl acetate	43		7.978				ND	
34 2-Butanone (MEK)	72		8.962				ND	
35 cis-1,2-Dichloroethene	96		8.973				ND	
36 Ethyl acetate	88		9.037				ND	
* 37 Chlorobromomethane	128	9.396	9.390	0.006	86	79047	10.0	
38 Tetrahydrofuran	42		9.449				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Chloroform	83		9.578				ND	
S 43 1,2-Dichloroethene, Total	61		9.665				ND	7
40 1,1,1-Trichloroethane	97		9.893				ND	
41 Cyclohexane	84		10.027				ND	
42 Carbon tetrachloride	117		10.182				ND	
44 Benzene	78		10.567				ND	MU
45 1,2-Dichloroethane	62		10.658				ND	
46 Isooctane	57		10.803				ND	
47 n-Heptane	43		11.145				ND	
* 48 1,4-Difluorobenzene	114	11.397	11.397	0.000	94	398612	10.0	
50 Trichloroethene	95		11.867				ND	
51 1,2-Dichloropropane	63		12.392				ND	
54 Methyl methacrylate	69		12.509				ND	
55 1,4-Dioxane	88		12.552				ND	
53 Dibromomethane	174		12.563				ND	
56 Dichlorobromomethane	83		12.911				ND	
58 cis-1,3-Dichloropropene	75		13.804				ND	
59 4-Methyl-2-pentanone (MIBK)	43		14.120				ND	
60 Toluene	92	14.494	14.505	0.005	95	268	0.0158	
65 trans-1,3-Dichloropropene	75		14.959				ND	
66 1,1,2-Trichloroethane	83		15.361				ND	
67 Tetrachloroethene	166		15.548				ND	7
68 2-Hexanone	43		15.831				ND	
69 Chlorodibromomethane	129		16.142				ND	
70 Ethylene Dibromide	107		16.388				ND	
* 71 Chlorobenzene-d5	117	17.361	17.361	0.000	87	339911	10.0	
72 Chlorobenzene	112		17.420				ND	
73 Ethylbenzene	91	17.629	17.624	0.000	86	1533	0.0401	
74 m-Xylene & p-Xylene	106		17.907				ND	
76 o-Xylene	106	18.731	18.720	0.011	89	230	0.0155	
77 Styrene	104		18.763				ND	
78 Bromoform	173		19.132				ND	
79 Isopropylbenzene	105		19.469				ND	
S 82 Xylenes, Total	106				0		0.0155	7
80 1,1,2,2-Tetrachloroethane	83		20.031				ND	
83 N-Propylbenzene	91		20.224				ND	
84 2-Chlorotoluene	91		20.373				ND	
85 4-Ethyltoluene	105		20.432				ND	
86 1,3,5-Trimethylbenzene	105		20.529				ND	
89 tert-Butylbenzene	119		21.026				ND	7
90 1,2,4-Trimethylbenzene	105		21.122				ND	
91 sec-Butylbenzene	105		21.363				ND	
92 1,3-Dichlorobenzene	146		21.540				ND	7
93 4-Isopropyltoluene	119		21.582				ND	7
94 1,4-Dichlorobenzene	146		21.684				ND	7
95 Benzyl chloride	91		21.839				ND	
97 n-Butylbenzene	91		22.155				ND	
96 1,2-Dichlorobenzene	146		22.182				ND	7
100 1,2,4-Trichlorobenzene	180		24.658				ND	7
101 Hexachlorobutadiene	225		24.905				ND	
102 Naphthalene	128		25.151				ND	MU

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

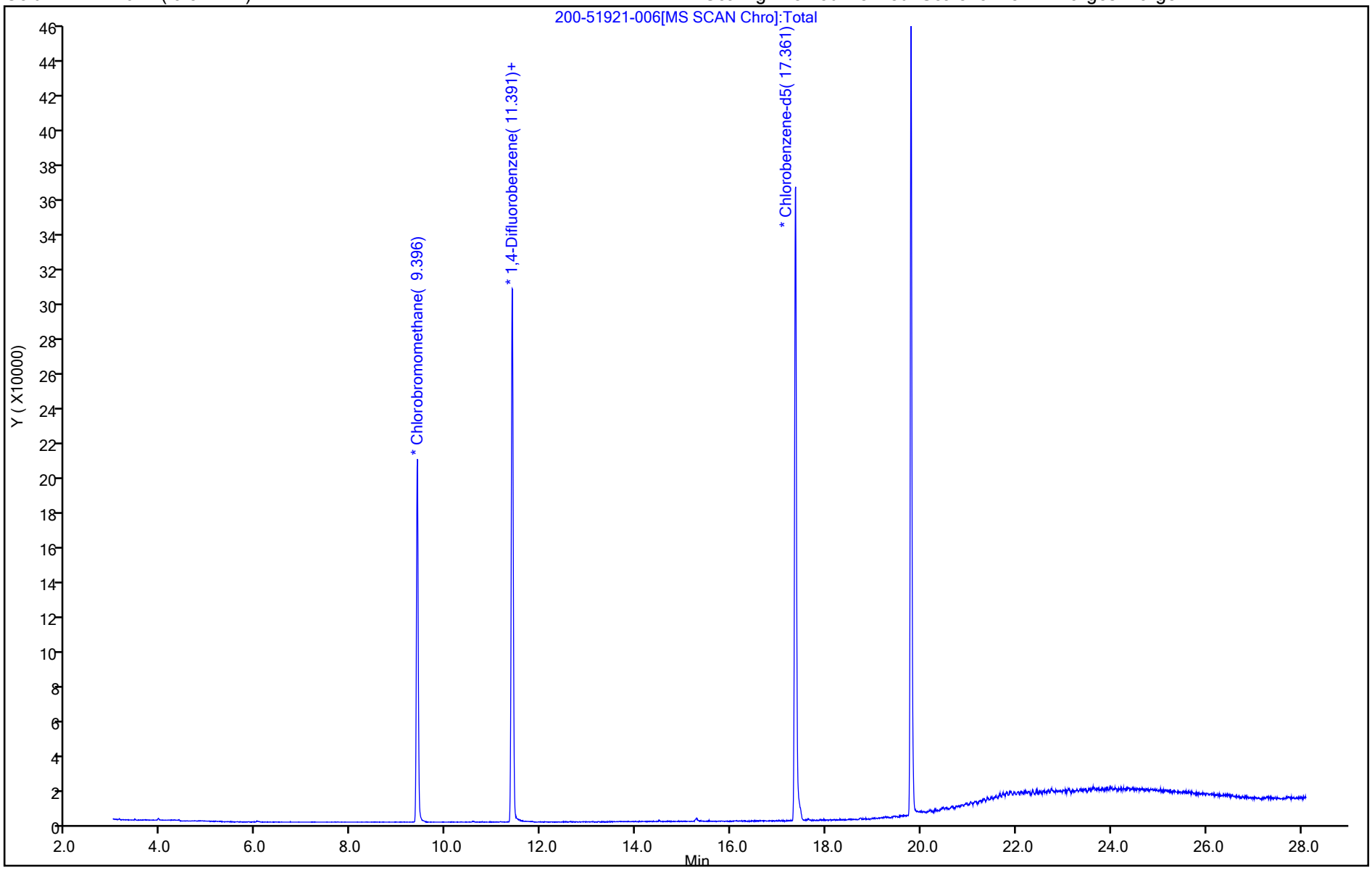
ATTO15GIS_00019 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 03-Aug-2022 10:57:24 Chrom Revision: 2.3 29-Jul-2022 15:21:48

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D				
Injection Date:	02-Aug-2022 13:34:30	Instrument ID:	CHG.i	Operator ID:	vtp
Lims ID:	200-64370-A-7	Lab Sample ID:	200-64370-7	Worklist Smp#:	6
Client ID:	4096				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



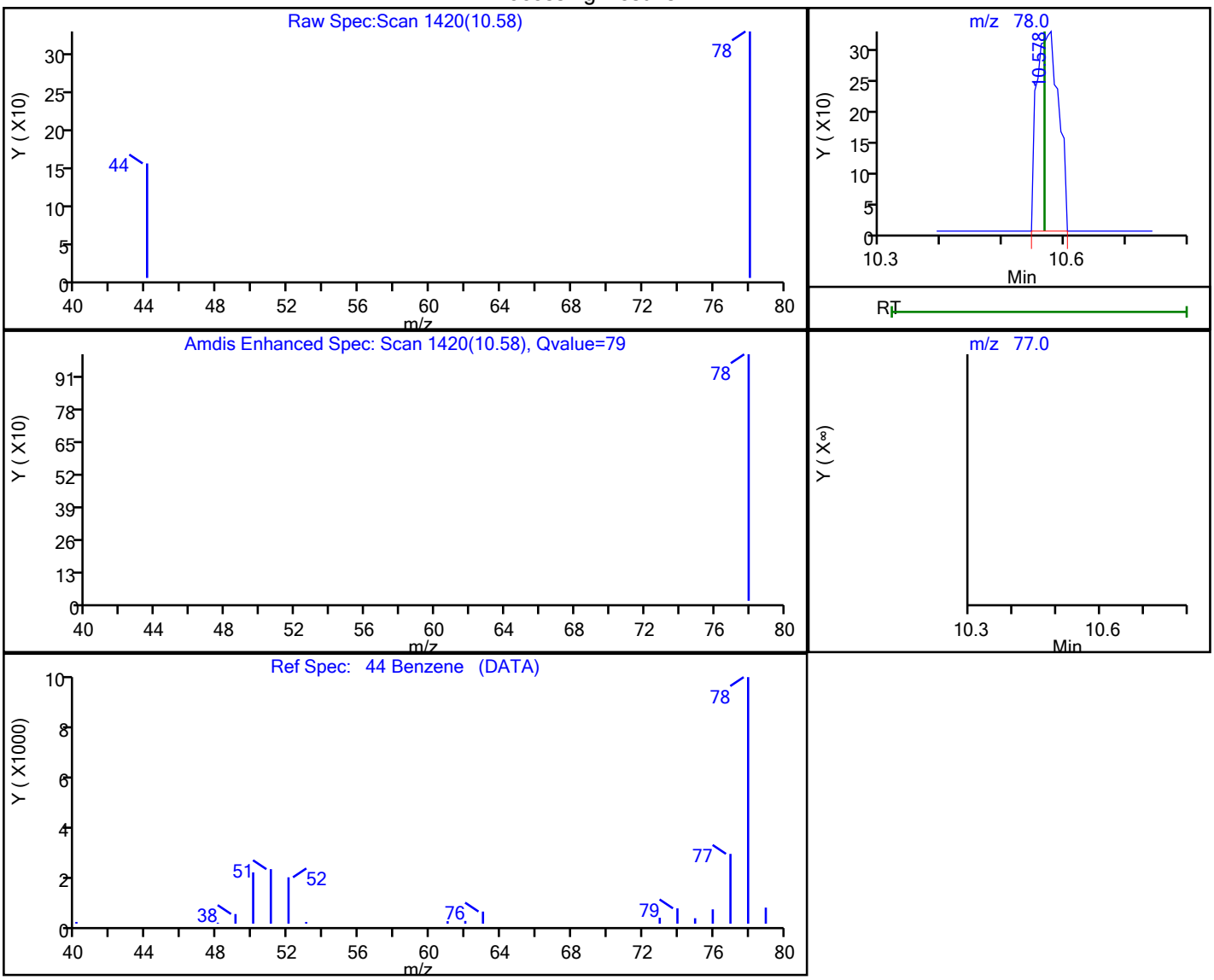
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D				
Injection Date:	02-Aug-2022 13:34:30	Instrument ID:	CHG.i		
Lims ID:	200-64370-A-7	Lab Sample ID:	200-64370-7		
Client ID:	4096				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
10.58	78.00	802	0.033620
10.57	77.00	0	

Reviewer: bunmaa, 03-Aug-2022 10:52:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

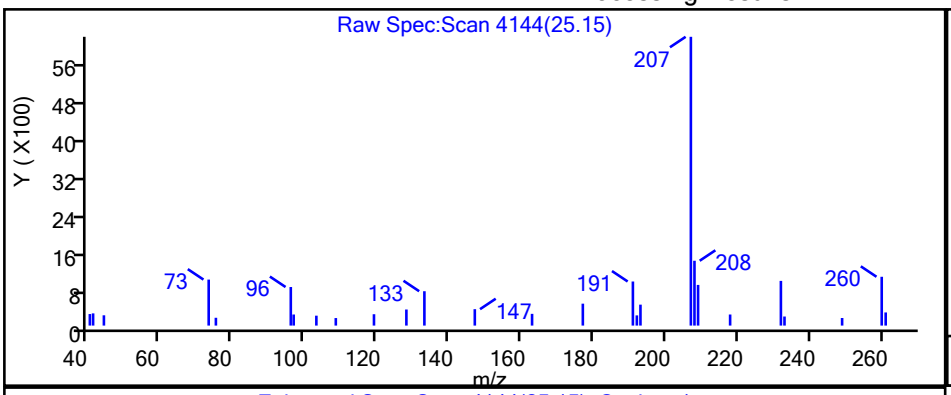
User Disabled Compound Report

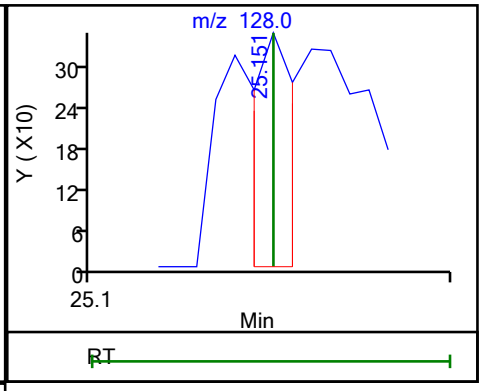
Eurofins Burlington

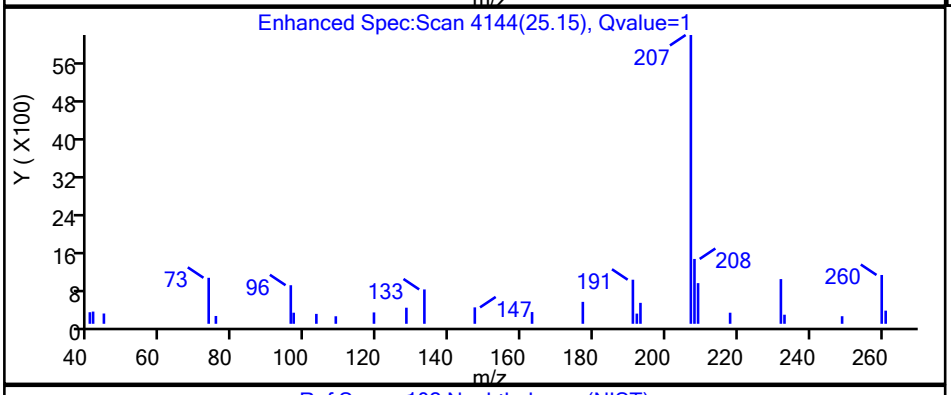
Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220802-51921.b\200-51921-006.D				
Injection Date:	02-Aug-2022 13:34:30	Instrument ID:	CHG.i		
Lims ID:	200-64370-A-7	Lab Sample ID:	200-64370-7		
Client ID:	4096				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

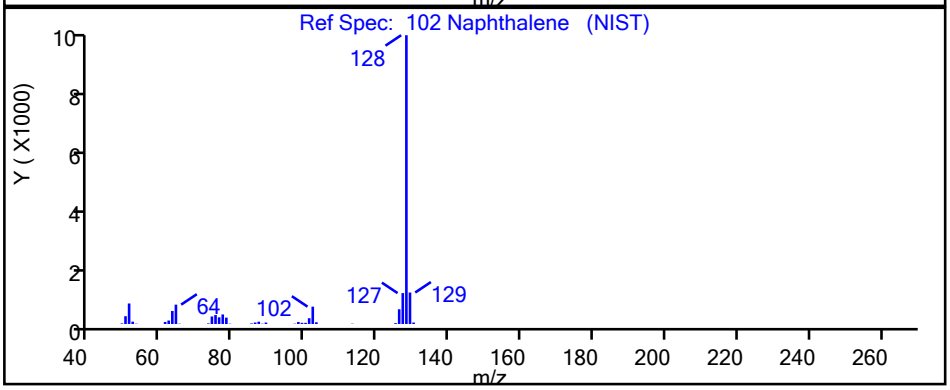
102 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
25.15	128.00	281	0.005647

Reviewer: bunmaa, 03-Aug-2022 10:57:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64371-1

SDG No.:

Client Sample ID: 5441 Lab Sample ID: 200-64371-7

Matrix: Air Lab File ID: 51929-06.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:52

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182299 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64371-1

SDG No.:

Client Sample ID: 5441 Lab Sample ID: 200-64371-7

Matrix: Air Lab File ID: 51929-06.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:52

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182299 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64371-1

SDG No.:

Client Sample ID: 5441 Lab Sample ID: 200-64371-7

Matrix: Air Lab File ID: 51929-06.D

Analysis Method: TO-15 Date Collected: 07/31/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:52

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182299 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\51929-06.D
Lims ID: 200-64371-A-7
Client ID: 5441
Sample Type: Client
Inject. Date: 03-Aug-2022 11:52:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0051929-006
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 04-Aug-2022 07:14:57 Calib Date: 21-Jul-2022 00:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20220720-51757.b\51757-13.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: puangmaleek Date: 04-Aug-2022 07:14:57

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1	Propene	41		2.810				ND	7
2	Dichlorodifluoromethane	85		2.874				ND	7
3	Chlorodifluoromethane	51		2.906				ND	7
4	1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.098				ND	7
5	Chloromethane	50		3.205				ND	7
6	Butane	43		3.392				ND	7
7	Vinyl chloride	62		3.418				ND	
8	Butadiene	54		3.488				ND	
9	Bromomethane	94		4.064				ND	
10	Chloroethane	64		4.278				ND	
13	Vinyl bromide	106		4.641				ND	
14	Trichlorofluoromethane	101		4.763				ND	
16	Ethanol	45		5.329				ND	
19	1,1,2-Trichloro-1,2,2-trifluoroe	101		5.793				ND	
20	1,1-Dichloroethene	96		5.799				ND	
21	Acetone	43		6.007				ND	7
22	Carbon disulfide	76		6.156				ND	7
23	Isopropyl alcohol	45		6.391				ND	
24	3-Chloro-1-propene	41		6.535				ND	7
26	Methylene Chloride	49		6.807				ND	7
28	2-Methyl-2-propanol	59		7.165				ND	
29	trans-1,2-Dichloroethene	61		7.272				ND	
30	Methyl tert-butyl ether	73		7.293				ND	
32	Hexane	57		7.709				ND	
33	1,1-Dichloroethane	63		8.094				ND	
34	Vinyl acetate	43		8.200				ND	
35	cis-1,2-Dichloroethene	96		9.172				ND	
36	2-Butanone (MEK)	72		9.225				ND	
37	Ethyl acetate	88		9.332				ND	
* 38	Chlorobromomethane	128	9.599	9.604	-0.005	85	187944	20.0	
39	Tetrahydrofuran	42		9.695				ND	
40	Chloroform	83		9.764				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 1,1,1-Trichloroethane	97		10.031				ND	
42 Cyclohexane	84		10.047				ND	
S 43 1,2-Dichloroethene, Total	61		10.200				ND	7
44 Carbon tetrachloride	117		10.303				ND	
45 Benzene	78		10.719				ND	7
46 Isooctane	57		10.783				ND	
47 1,2-Dichloroethane	62		10.863				ND	
48 n-Heptane	43		11.189				ND	
* 49 1,4-Difluorobenzene	114	11.568	11.563	0.005	91	1060139	20.0	
50 Trichloroethene	95		12.032				ND	
53 1,2-Dichloropropane	63		12.529				ND	
56 Dibromomethane	174		12.779				ND	7
55 Methyl methacrylate	69		12.779				ND	
57 1,4-Dioxane	88		12.838				ND	
58 Dichlorobromomethane	83		13.100				ND	
59 cis-1,3-Dichloropropene	75		14.066				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.402				ND	
62 Toluene	92		14.685				ND	
66 trans-1,3-Dichloropropene	75		15.272				ND	
67 1,1,2-Trichloroethane	83		15.635				ND	
68 Tetrachloroethene	166		15.811				ND	7
69 2-Hexanone	43		16.158				ND	
70 Chlorodibromomethane	129		16.403				ND	
71 Ethylene Dibromide	107		16.649				ND	
* 72 Chlorobenzene-d5	117	17.593	17.593	0.000	85	1071648	20.0	
73 Chlorobenzene	112		17.652				ND	
74 Ethylbenzene	91		17.839				ND	7
76 m-Xylene & p-Xylene	106		18.090				ND	
77 o-Xylene	106		18.917				ND	
78 Styrene	104		18.965				ND	
80 Bromoform	173		19.370				ND	
81 Isopropylbenzene	105		19.675				ND	7
S 82 Xylenes, Total	106		20.100				ND	7
83 1,1,2,2-Tetrachloroethane	83		20.368				ND	
85 N-Propylbenzene	91		20.486				ND	7
86 2-Chlorotoluene	91		20.678				ND	7
87 4-Ethyltoluene	105		20.694				ND	7
89 1,3,5-Trimethylbenzene	105		20.817				ND	7
91 tert-Butylbenzene	119		21.340				ND	7
92 1,2,4-Trimethylbenzene	105		21.447				ND	7
93 sec-Butylbenzene	105		21.697				ND	7
95 1,3-Dichlorobenzene	146		21.916				ND	7
94 4-Isopropyltoluene	119		21.916				ND	7
96 1,4-Dichlorobenzene	146		22.060				ND	7
97 Benzyl chloride	91		22.247				ND	7
98 n-Butylbenzene	91		22.509				ND	7
100 1,2-Dichlorobenzene	146		22.589				ND	MU
102 1,2,4-Trichlorobenzene	180		24.889				ND	7
103 Hexachlorobutadiene	225		25.102				ND	7
104 Naphthalene	128		25.289				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

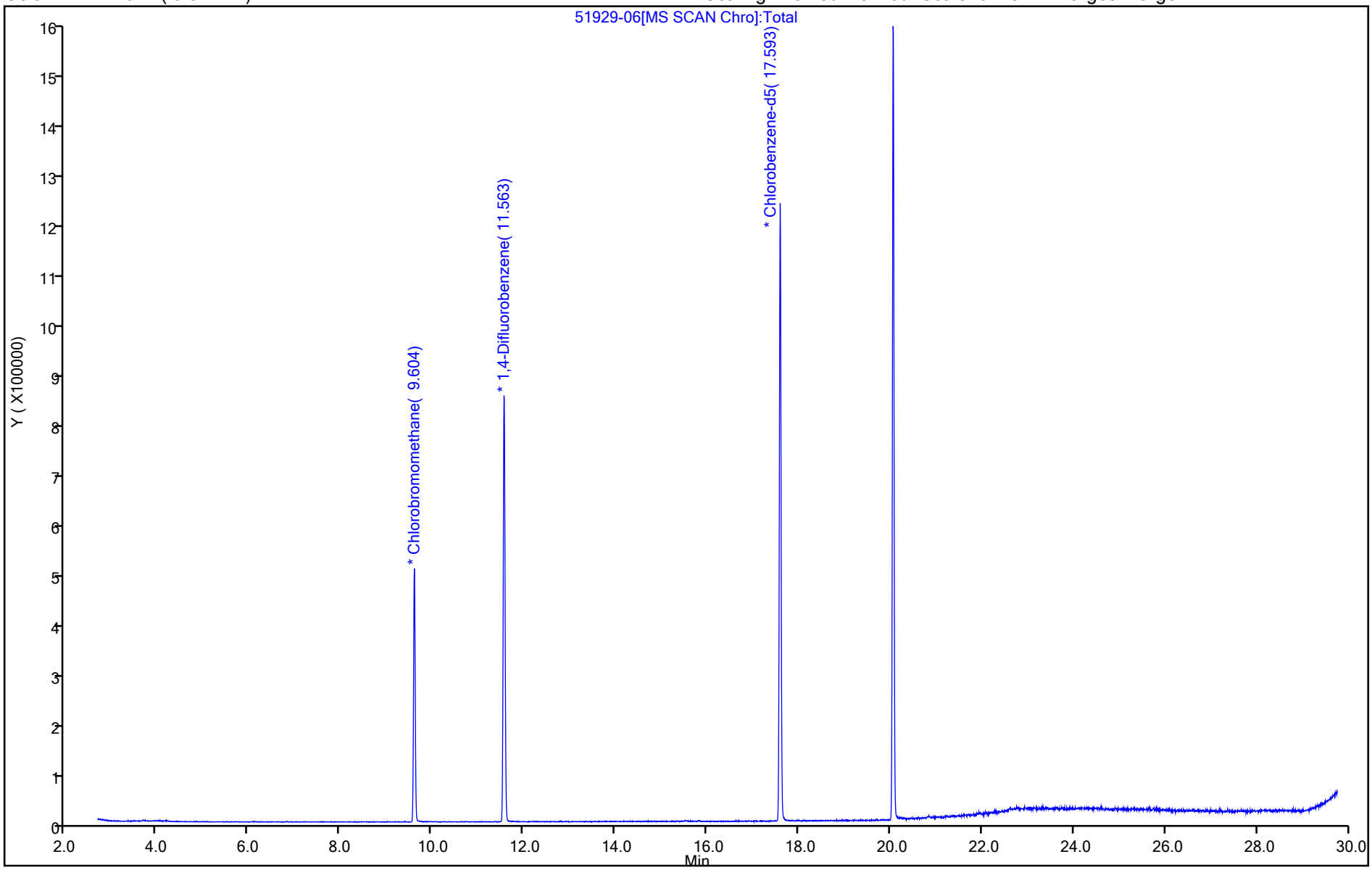
ATTO15CISs_00011	Amount Added:	40.00	Units: mL	Run Reagent

Report Date: 04-Aug-2022 07:14:57 Chrom Revision: 2.3 29-Jul-2022 15:21:48

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\51929-06.D				
Injection Date:	03-Aug-2022 11:52:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-64371-A-7	Lab Sample ID:	200-64371-7	Worklist Smp#:	6
Client ID:	5441				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



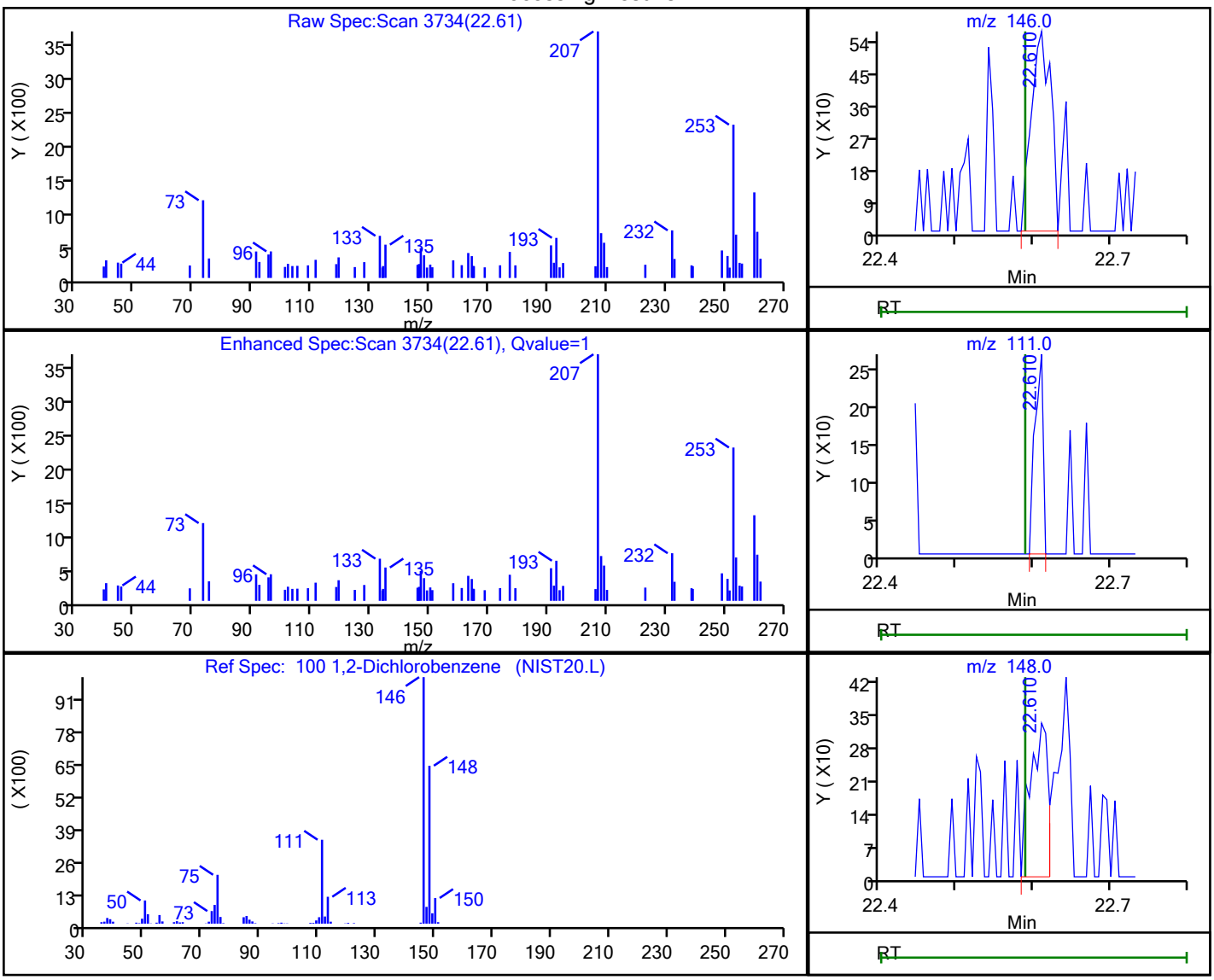
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220803-51929.b\51929-06.D				
Injection Date:	03-Aug-2022 11:52:30	Instrument ID:	CHC.i		
Lims ID:	200-64371-A-7	Lab Sample ID:	200-64371-7		
Client ID:	5441				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

100 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
22.61	146.00	1003	0.011292
22.61	111.00	199	
22.61	148.00	534	

Reviewer: puangmaleek, 04-Aug-2022 07:14:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64390-1

SDG No.:

Client Sample ID: 5046 Lab Sample ID: 200-64390-8

Matrix: Air Lab File ID: 51932-005.d

Analysis Method: TO-15 Date Collected: 08/01/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:13

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182303 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-64390-1

SDG No.:

Client Sample ID: 5046 Lab Sample ID: 200-64390-8

Matrix: Air Lab File ID: 51932-005.d

Analysis Method: TO-15 Date Collected: 08/01/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/03/2022 11:13

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 182303 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d
Lims ID: 200-64390-A-8
Client ID: 5046
Sample Type: Client
Inject. Date: 03-Aug-2022 11:13:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0051932-005
Misc. Info.: 64390-8
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 04-Aug-2022 08:22:01 Calib Date: 09-Jul-2022 01:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220708-51593.b\51593-013.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1669

First Level Reviewer: bunmaa Date: 04-Aug-2022 08:22:01

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.078				ND	
	2 Dichlorodifluoromethane	85		4.169				ND	
	3 Chlorodifluoromethane	51		4.212				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.511				ND	
	5 Chloromethane	50		4.624				ND	
	6 Vinyl chloride	62		4.923				ND	
	7 Butane	43		4.929				ND	7
	8 Butadiene	54		5.041				ND	
	9 Bromomethane	94		5.742				ND	
	10 Chloroethane	64		6.009				ND	
	13 Vinyl bromide	106		6.427				ND	
	14 Trichlorofluoromethane	101		6.587				ND	
	16 Ethanol	45		6.962				ND	
	20 1,1-Dichloroethene	96		7.636				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.684				ND	
	22 Acetone	43		7.721				ND	7
	23 Isopropyl alcohol	45		8.021				ND	
	24 Carbon disulfide	76	8.053	8.042	0.011	79	3314	0.0550	
	26 3-Chloro-1-propene	41		8.336				ND	7
	27 Methylene Chloride	49		8.561				ND	7
	28 2-Methyl-2-propanol	59		8.791				ND	
	30 trans-1,2-Dichloroethene	61		9.059				ND	
	31 Methyl tert-butyl ether	73		9.075				ND	7
	32 Hexane	57		9.567				ND	
	33 1,1-Dichloroethane	63		9.813				ND	
	34 Vinyl acetate	43		9.829				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.781				ND	
	37 cis-1,2-Dichloroethene	96		10.803				ND	7
	38 Ethyl acetate	88		10.878				ND	
*	39 Chlorobromomethane	128	11.215	11.209	0.006	72	176627	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Tetrahydrofuran	42		11.263				ND	
41 Chloroform	83		11.386				ND	
42 1,1,1-Trichloroethane	97		11.691				ND	
43 Cyclohexane	84		11.835				ND	
44 Carbon tetrachloride	117		11.969				ND	
45 Benzene	78		12.317				ND	7
46 1,2-Dichloroethane	62		12.386				ND	
47 Isooctane	57		12.536				ND	
48 n-Heptane	43		12.846				ND	7
* 49 1,4-Difluorobenzene	114	13.055	13.050	0.005	95	916715	10.0	
51 Trichloroethene	95	13.483	13.488	0.000	25	988	0.0228	
53 1,2-Dichloropropane	63		13.932				ND	
54 Methyl methacrylate	69		14.034				ND	
55 1,4-Dioxane	88		14.077				ND	
57 Dibromomethane	174		14.093				ND	7
58 Dichlorobromomethane	83		14.403				ND	
59 cis-1,3-Dichloropropene	75		15.205				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.473				ND	
62 Toluene	92		15.842				ND	
66 trans-1,3-Dichloropropene	75		16.259				ND	
67 1,1,2-Trichloroethane	83		16.634				ND	
68 Tetrachloroethene	166	16.837	16.853	0.000	34	1178	0.0193	
69 2-Hexanone	43		17.056				ND	7
70 Chlorodibromomethane	129		17.372				ND	
71 Ethylene Dibromide	107		17.613				ND	
* 73 Chlorobenzene-d5	117	18.522	18.522	0.000	91	739162	10.0	
74 Chlorobenzene	112		18.581				ND	7
75 Ethylbenzene	91		18.774				ND	7
76 m-Xylene & p-Xylene	106		19.041				ND	7
78 o-Xylene	106		19.812				ND	
79 Styrene	104		19.849				ND	7
S 80 Xylenes, Total	106		20.100				ND	7
81 Bromoform	173		20.202				ND	7
82 Isopropylbenzene	105		20.539				ND	7
83 1,1,2,2-Tetrachloroethane	83		21.069				ND	7
85 N-Propylbenzene	91		21.277				ND	7
86 2-Chlorotoluene	91		21.422				ND	MU
87 4-Ethyltoluene	105		21.481				ND	7
88 1,3,5-Trimethylbenzene	105		21.577				ND	7
91 tert-Butylbenzene	119		22.064				ND	
92 1,2,4-Trimethylbenzene	105		22.155				ND	MU
93 sec-Butylbenzene	105		22.395				ND	7
94 1,3-Dichlorobenzene	146		22.567				ND	MU
95 4-Isopropyltoluene	119		22.615				ND	7
96 1,4-Dichlorobenzene	146		22.711				ND	7
97 Benzyl chloride	91	22.872	22.872	0.011	1	1062	0.0110	M
98 n-Butylbenzene	91		23.171				ND	7
99 1,2-Dichlorobenzene	146	23.209	23.209	0.016	12	1158	0.0138	M
102 1,2,4-Trichlorobenzene	180	25.589	25.589	0.016	1	344	0.006425	7Ma
103 Hexachlorobutadiene	225		25.819				ND	7
104 Naphthalene	128		26.039				ND	MU

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

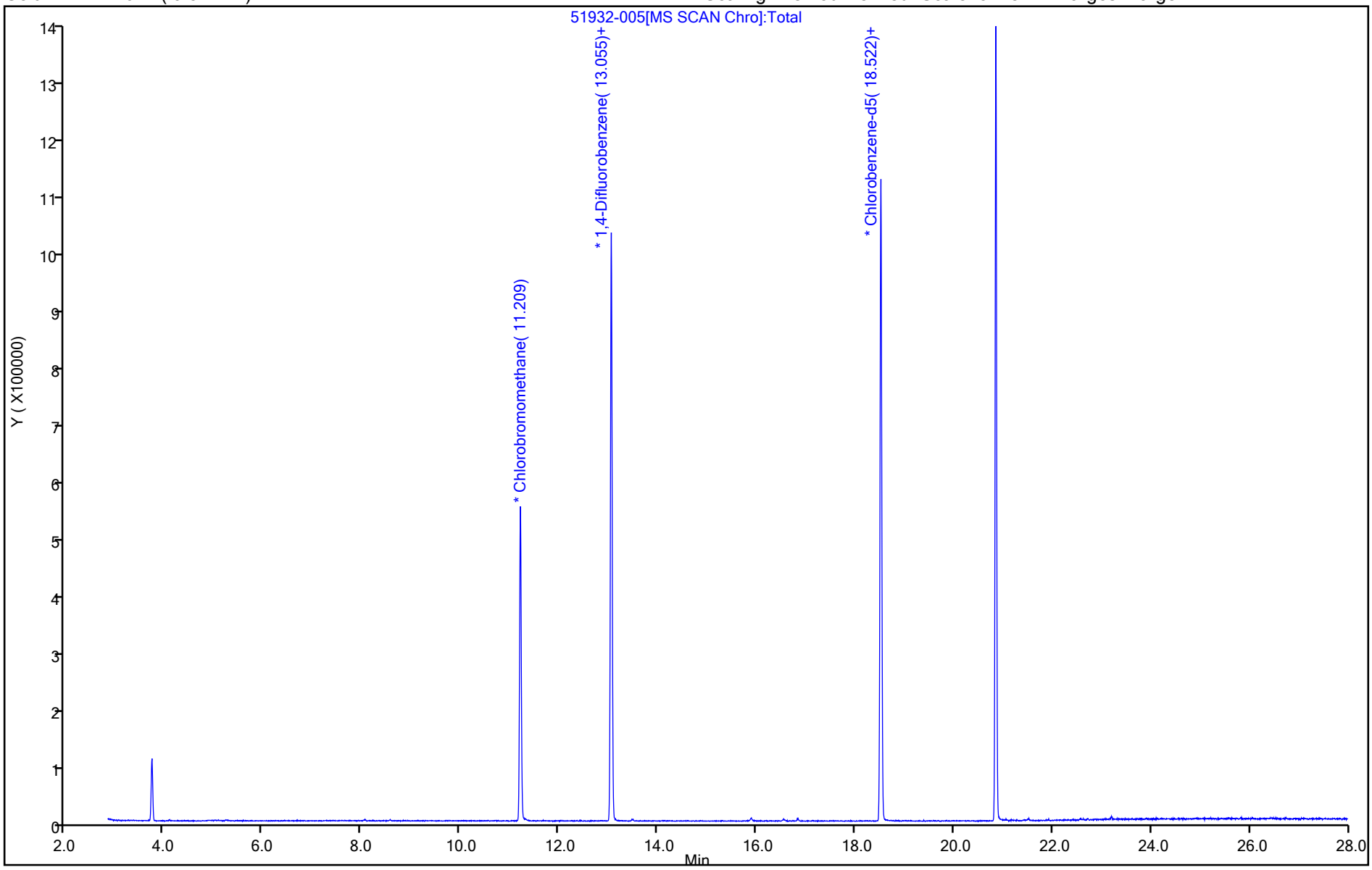
Report Date: 04-Aug-2022 08:22:01 Chrom Revision: 2.3 29-Jul-2022 15:21:48

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d

Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i	Operator ID:	vtp
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8	Worklist Smp#:	5
Client ID:	5046				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Burlington

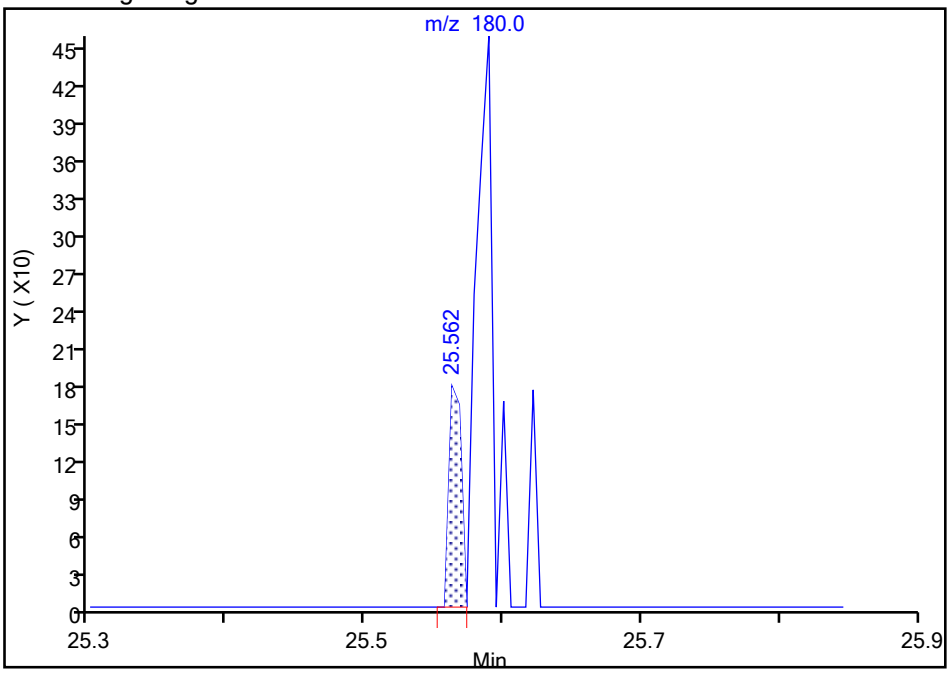
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

102 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

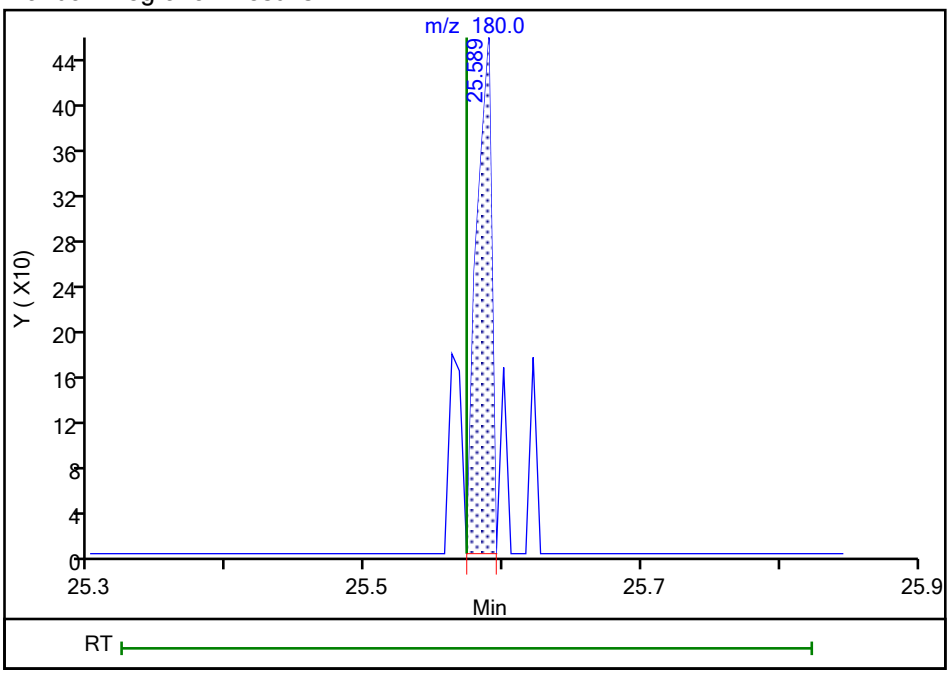
Processing Integration Results

RT: 25.56
Area: 109
Amount: 0.002036
Amount Units: ppb v/v



Manual Integration Results

RT: 25.59
Area: 344
Amount: 0.006425
Amount Units: ppb v/v



Reviewer: bunmaa, 04-Aug-2022 08:21:23
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

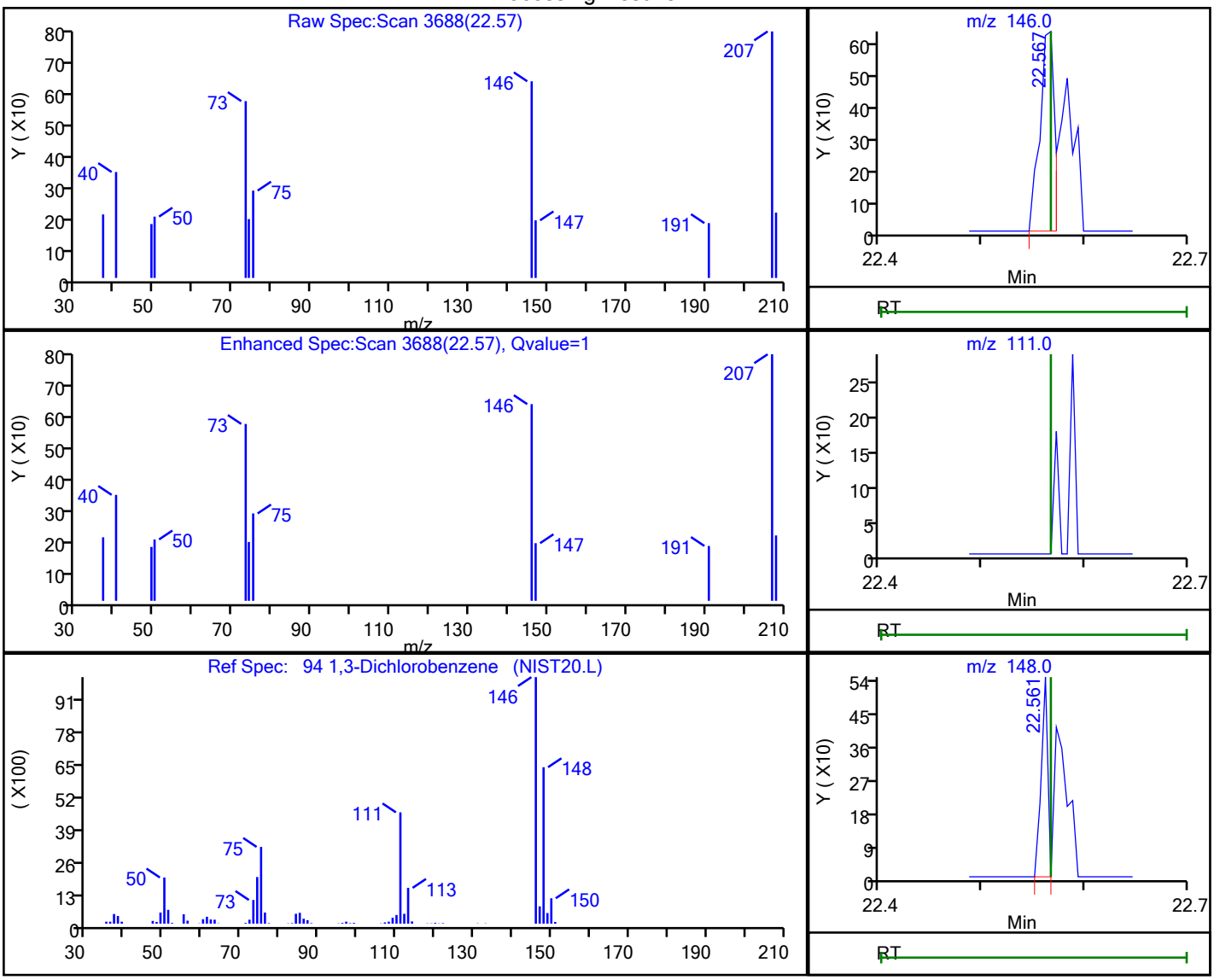
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
22.57	146.00	638	0.007818
22.57	111.00	0	
22.56	148.00	242	

Reviewer: bunmaa, 04-Aug-2022 08:19:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

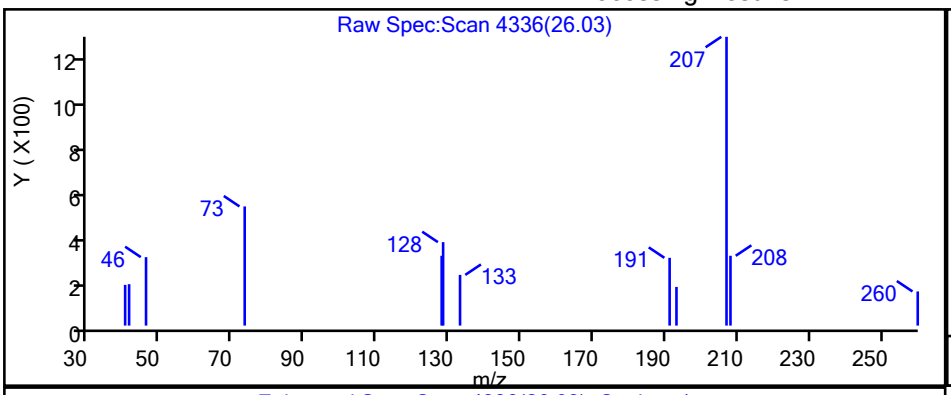
User Disabled Compound Report

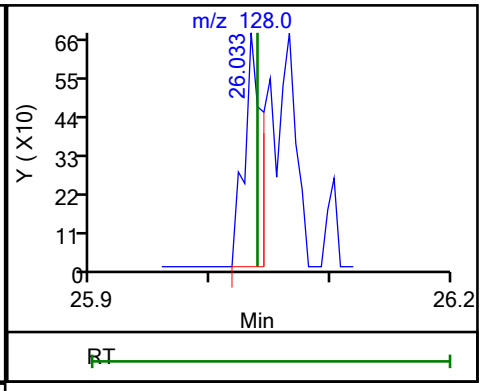
Eurofins Burlington

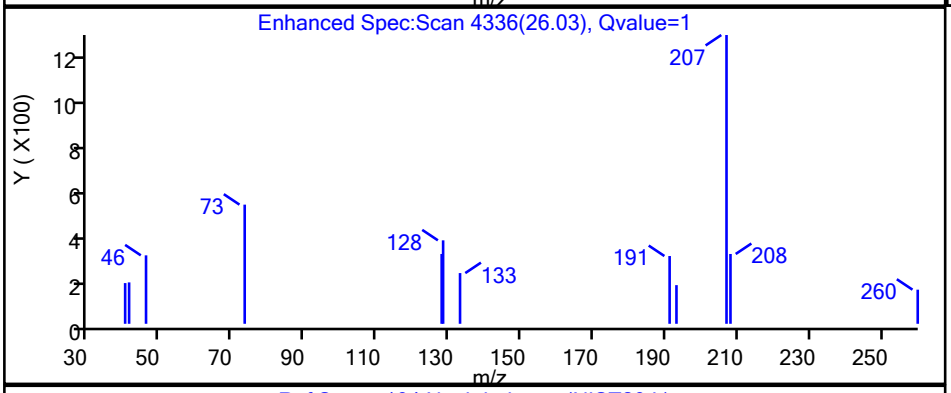
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

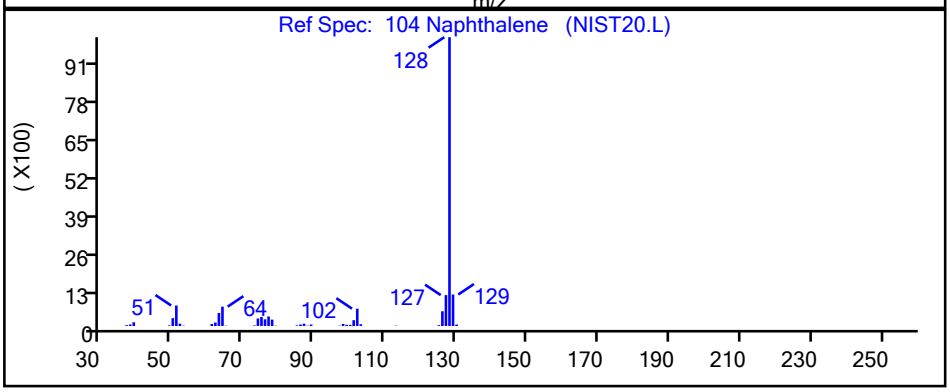
104 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
26.03	128.00	672	0.005555

Reviewer: bunmaa, 04-Aug-2022 08:21:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

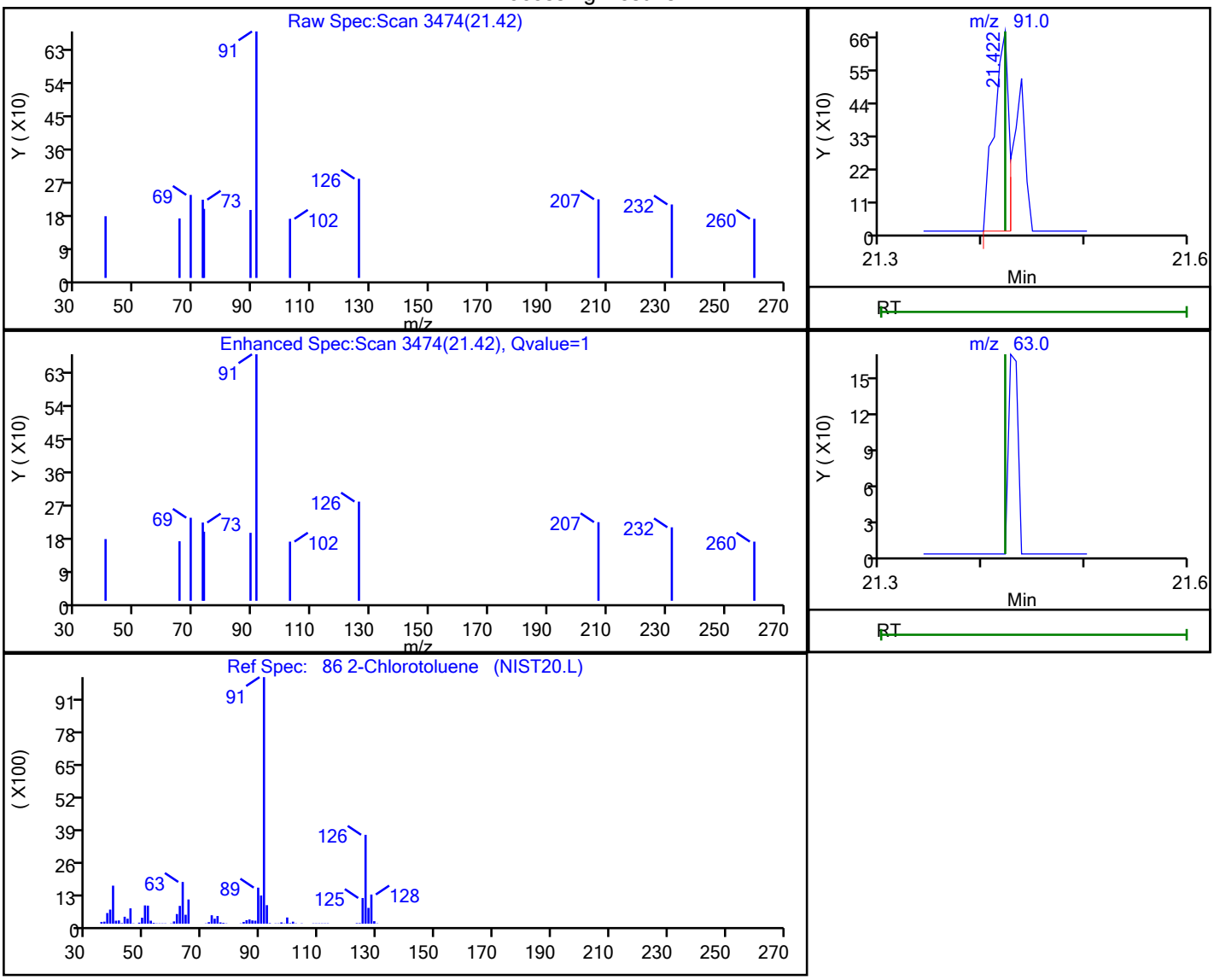
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

86 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
21.42	91.00	667	0.005683
21.42	63.00	0	

Reviewer: bunmaa, 04-Aug-2022 08:18:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Burlington

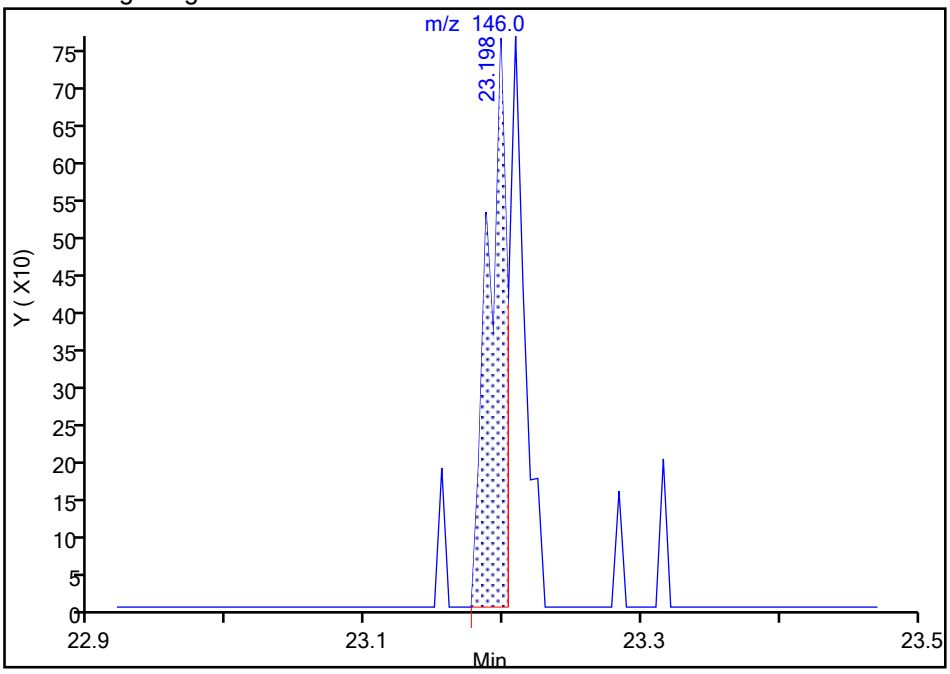
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

99 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

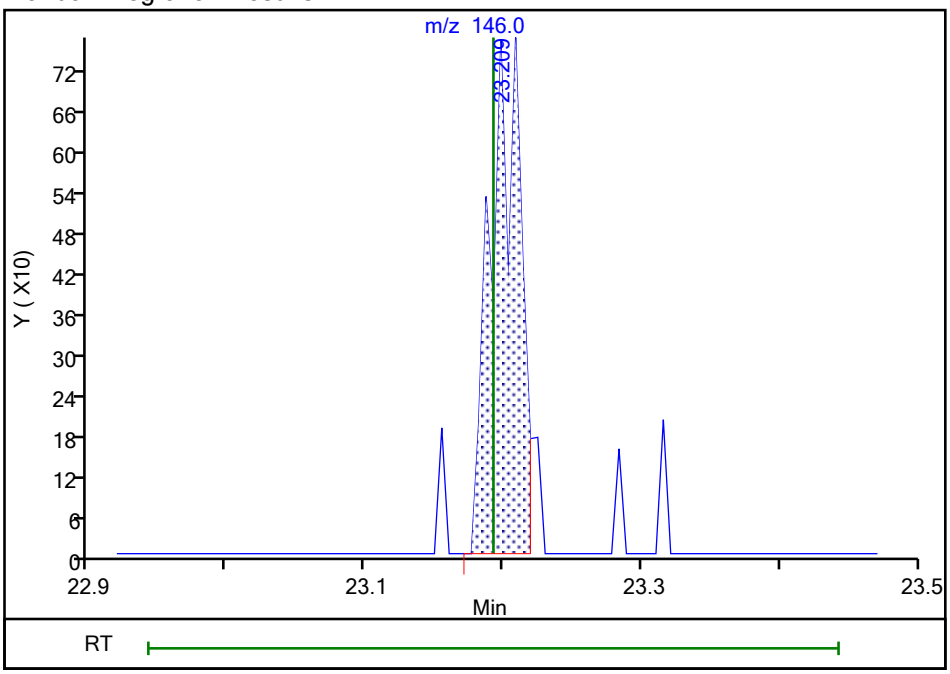
Processing Integration Results

RT: 23.20
Area: 721
Amount: 0.008612
Amount Units: ppb v/v



Manual Integration Results

RT: 23.21
Area: 1158
Amount: 0.013832
Amount Units: ppb v/v



Reviewer: bunmaa, 04-Aug-2022 08:21:02

Audit Action: Manually Integrated Audit Reason: Assign Peak

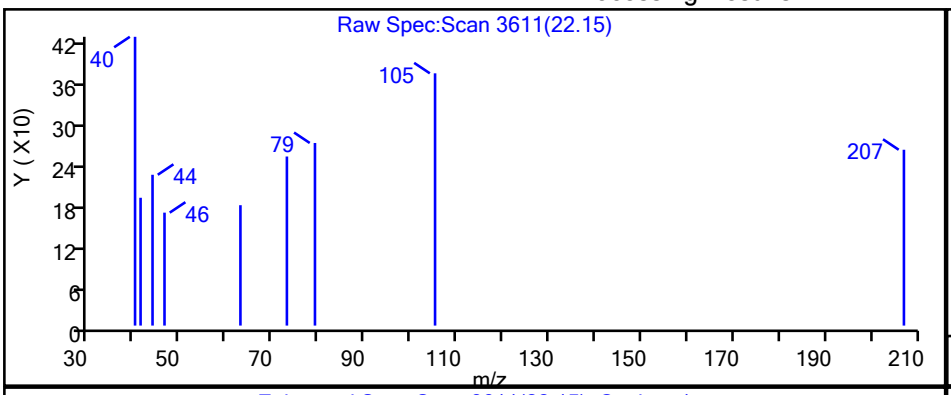
User Disabled Compound Report

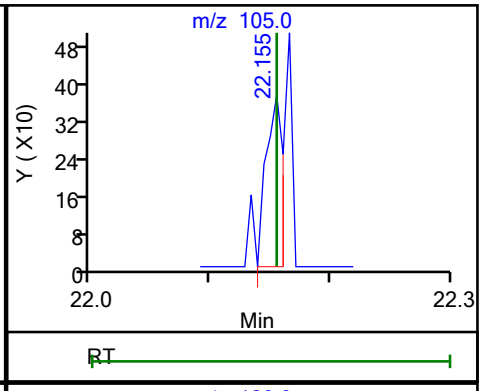
Eurofins Burlington

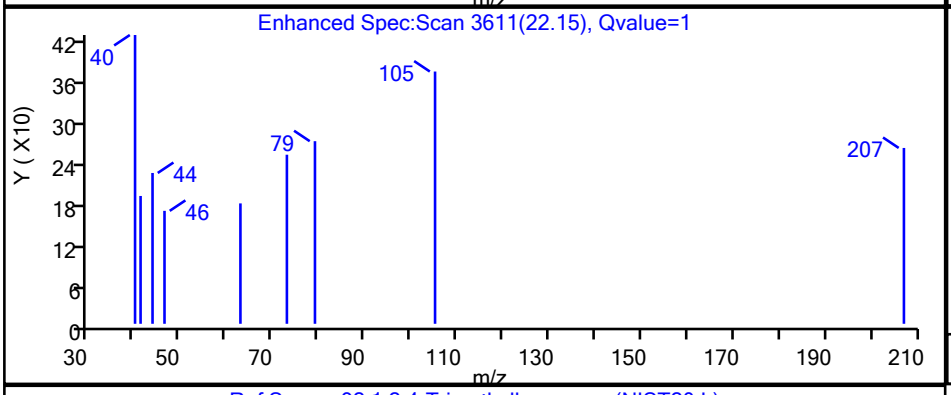
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220803-51932.b\51932-005.d				
Injection Date:	03-Aug-2022 11:13:30	Instrument ID:	CHW.i		
Lims ID:	200-64390-A-8	Lab Sample ID:	200-64390-8		
Client ID:	5046				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

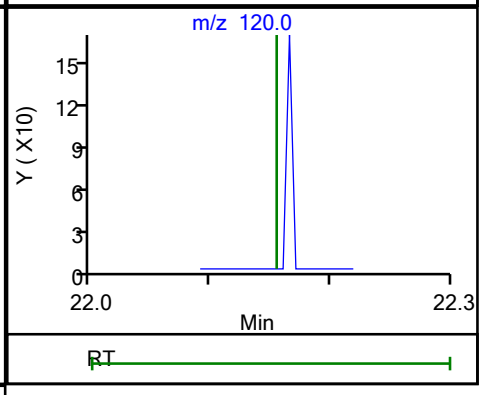
92 1,2,4-Trimethylbenzene, CAS: 95-63-6

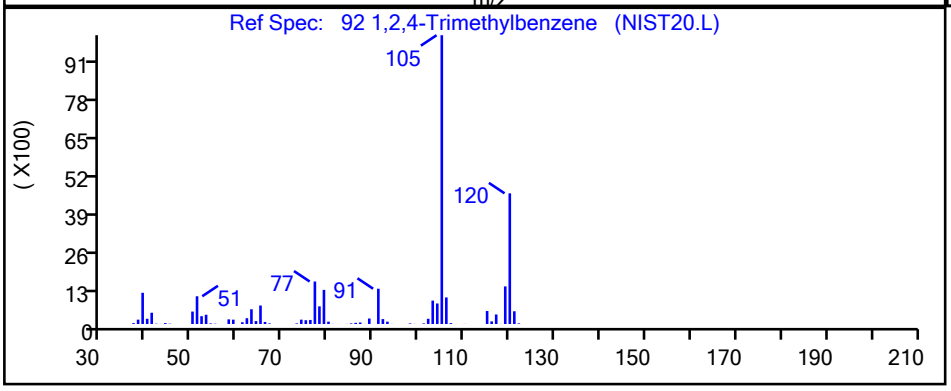
Processing Results











RT	Mass	Response	Amount
22.15	105.00	360	0.002493
22.15	120.00	0	

Reviewer: bunmaa, 04-Aug-2022 08:19:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID