

Cover Page

Order ID : Q1430

Project ID : 38-11 31st St, Long Island City, NY

Client : GFE LLC

Lab Sample Number

Q1430-01
Q1430-02
Q1430-03
Q1430-04
Q1430-05
Q1430-06

Client Sample Number

SV1
SV2
SV3
SV4
IA1
OA1

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 3/6/2025



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2502026				Courier : FGALDUN				1 of 6 COCs					
Client ID : GFEL01				Project ID : 38-11 31st St, Long Island City, NY				Sampler Name(s) : FRANK GILDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 38-11 31st St LONG ISLAND CITY, NY													
Analysis Turnaround Time 10 DAY				Standard : 10 business days OR				Data Package Type :									
Rush (Specify): 10 Days				EDD Type : PDE													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SU1	2/25/25	8:52	10:50	30	4.5	50	51	-30	-4.7	10511	10158	6 L	50	VL041796.D	1		1
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sud							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Sam				Date/Time: 02/21/25				Canisters Received by:				Date/Time:					
Samples Relinquished by: FG				Date/Time: 02/25/25				Received by: CR				Date/Time: 2-25-25 13:00					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2502026				Courier : Frank Galdun				2 of 6 COCs					
Client ID : GFEL01				Project ID : 38-11 31st St, Long Island City, NY				Sampler Name: Frank Galdun				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 38-11 31st St. LONG ISLAND CITY, NY													
				Analysis Turnaround Time 10 DAY				Data Package Type :									
				Standard : 10 business days OR				EDD Type : PDP									
				Rush (Specify): 10 Days													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SU2	2/25/25	8:56	10:56	30	5.5	50	51	-30	-5.9	10525	10334	6 L	50	VL041796.D	/		/
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Frank				Date/Time: 2/24/25				Canisters Received by: Frank				Date/Time: 2-25-25 8:09					
Samples Relinquished by: Frank				Date/Time: 2/25/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					
B2502026 - 6																	

Client Contact Information				Bottle Order ID : B2502026				Courier : <u>FGaldun</u>				<u>3</u> of <u>6</u> COCs					
Client ID : GFEL01				Project ID : 38-11 31st St, Long Island City, NY				Sampler Name(s) : <u>FRANK Galdun</u>				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: <u>3811 31st St. LONG ISLAND CITY, NY</u>													
				Analysis Turnaround Time <u>10 DAY</u>				Data Package Type :									
				Standard : 10 business days : OR				EDD Type : <u>PDF</u>									
Country :				Rush (Specify): <u>10</u> Days													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	<u>TO-15</u>	<u>Indoor/Ambient Air</u>	<u>Soil Gas</u>
<u>SV3</u>	<u>2/25/25</u>	<u>8:59</u>	<u>10:59</u>	<u>OVER 30</u>	<u>5.5</u>	<u>90</u>	<u>91</u>	<u>-30</u>	<u>-4.7</u>	<u>10648</u>	<u>10320</u>	<u>6 L</u>	<u>50</u>	<u>VL041853.D</u>	<u>1</u>		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <u>[Signature]</u>							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																	
Sampling site (State):																	
Quick Connector required : <u>NO</u>																	
Canisters Shipped by: <u>[Signature]</u>				Date/Time: <u>2/25/25</u>				Canisters Received by: <u>[Signature]</u>				Date/Time: <u>2-25-25 1309</u>					
Samples Relinquished by: <u>[Signature]</u>				Date/Time: <u>2/25/25</u>				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2502026				Courier : <u>F. Galdun</u>				<u>4</u> of <u>6</u> COCs					
Client ID : GFEL01 Project ID : 38-11 31st St, Long Island City, NY				Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: <u>38-11 31st St</u> <u>LONG ISLAND CITY, NY</u>													
				Analysis Turnaround Time <u>10 DAY</u>													
Standard : 10 business days OR				Data Package Type :													
Rush (Specify): <u>10</u> Days				EDD Type : <u>PDF</u>													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	<u>TO-15</u>	Indoor/Ambient Air	Soil Gas
<u>SVH</u>	<u>2/25/25</u>	<u>11:03</u>	<u>11:03</u>	<u>30</u>	<u>3</u>	<u>50</u>	<u>51</u>	<u>-30</u>	<u>-4.7</u>	<u>10503</u>	<u>10060</u>	<u>6 L</u>	<u>50</u>	<u>VL041853.D</u>	<u>1</u>		<u>1</u>
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <u>Sust</u>							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																	
Sampling site (State):																	
Quick Connector required : <u>No</u>																	
Canisters Shipped by: <u>Samp</u>				Date/Time: <u>2/25/25</u>				Canisters Received by: <u>OK</u>				Date/Time: <u>2-25-25 13:09</u>					
Samples Relinquished by: <u>FRANK</u>				Date/Time: <u>2/25/25</u>				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					
B2502026 - 1																	

Client Contact Information				Bottle Order ID : B2502026				Courier : FRANK GILDUN of 6 COCs			
Client ID : GFEL01				Project ID : 38-11 31st St, Long Island City, NY				Sampler Name(s) : FRANK GILDUN			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified			
				Phone Number : 646-542-3465							
				Fax Number : 973-334-1692							
				Site Details: 38-11 31st St. Long Island City, NY							
				Analysis Turnaround Time 10 DAY				Data Package Type :			
				Standard : 10 business days OR				EDD Type : PDF			
Rush (Specify): 10 Days											

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IA1	2/25/25	8:42	4:42	0.30	1.5	50	51	-30	-1.8	10485	10597	6 L	12.5	VL041853.D	1	1	

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) [Signature]

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: **0.0**

Sampling site (State):

Quick Connector required : **No**

Canisters Shipped by: [Signature]	Date/Time: 2/25/25	Canisters Received by: [Signature]	Date/Time: 2-25-25 13:09
Samples Relinquished by: [Signature]	Date/Time: 2/25/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2502026 - 8

Client Contact Information				Bottle Order ID : B2502026				Courier : F Galdun				6 of 6 COCs																	
Client ID : GFEL01				Project ID : 38-11 31st St, Long Island City, NY				Sampler Name(s) : FRANK Galdun				Analysis		Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 38-11 31st St. Long Island City, NY																									
				Analysis Turnaround Time 10 DAY				Data Package Type :																					
				Standard : 10 business days OR				EDD Type : PDF																					
				Rush (Specify): 10 Days																									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
OAI	2/25/25	8:40	4:40	OVER 30	7	/	/	-30	-5.1	10514	10280	6 L	12.5	VL041796.D	1	1													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>44</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>53</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	44			Stop	53			GC/MS Analyst Signature (TO-15)							
	Ambient	Maximum	Minimum																										
Start	44																												
Stop	53																												
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: 0.0																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: SAM				Date/Time: 02/21/25				Canisters Received by: CL				Date/Time: 2-25-25 13:09																	
Samples Relinquished by: FRANK				Date/Time:				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~QA66~~:

Title: Sample Custodian

Field Sample Seal No.: Q1430

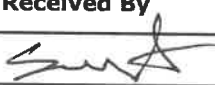
Date Broken: 2/25/2025

Military Time Seal Broken: 13:09:00

Case No.: 38-11 31st St, Long Island

Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1430-01	SV1		
Q1430-02	SV2		
Q1430-03	SV3		
Q1430-04	SV4		
Q1430-05	IA1		
Q1430-06	OA1		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
2-25-25	13:45	Signature		Signature		
		Printed Name	<u>Christopher D. [unclear]</u>	Printed Name	<u>Samuel [unclear]</u>	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

CASE NARRATIVE

GFE LLC

Project Name: 38-11 31st St, Long Island City, NY

Project # N/A

Chemtech Project # Q1430

Test Name: TO-15

A. Number of Samples and Date of Receipt:

6 Air samples were received on 02/25/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {Q1430-05DUP} with File ID: VL042057.D met criteria except for 1,3-Butadiene[200%], Hexane[24.3%], Methylene Chloride[37.3%] and Tetrachloroethene[28.6%] due to difference in results of original and DUP.

The RPD for {Q1430-01DUP} with File ID: VL042087.D met criteria except for Dichlorodifluoromethane[200%], tert-Butyl Alcohol[200%] due to difference in results of original and DUP.

The Blank Spike Duplicate met requirements for all samples.

The Blank Spike for {VL0303ABS01} with File ID: VL042077.D met requirements for all samples except for Naphthalene[135%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

Due to potential high concentration of target analytes, Samples SV1, SV2, SV3 and SV4 were initially diluted.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1430

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAHESH PATEL

Date: 03/06/2025

LAB CHRONICLE

OrderID: Q1430	OrderDate: 2/25/2025 2:20:00 PM
Client: GFE LLC	Project: 38-11 31st St, Long Island City, NY
Contact: Frank Galdun	Location: L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1430-01	SV1	Air	TO-15	TO-15	02/25/25		03/03/25	02/25/25
Q1430-02	SV2	Air	TO-15	TO-15	02/25/25		03/03/25	02/25/25
Q1430-03	SV3	Air	TO-15	TO-15	02/25/25		03/03/25	02/25/25
Q1430-04	SV4	Air	TO-15	TO-15	02/25/25		03/03/25	02/25/25
Q1430-05	IA1	Air	TO-15	TO-15	02/25/25		02/26/25	02/25/25
Q1430-06	OA1	Air	TO-15	TO-15	02/25/25		02/26/25	02/25/25

Hit Summary Sheet
SW-846

SDG No.: Q1430
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1430-01	SV1	Air	Trichlorofluoromethane	3.93	J	3.60	11.2	ug/m3
Q1430-01	SV1	Air	Acetone	28.5		2.28	4.75	ug/m3
Q1430-01	SV1	Air	Methylene Chloride	12.2		2.64	6.95	ug/m3
Q1430-01	SV1	Air	2-Butanone	33.6		1.42	5.90	ug/m3
Q1430-01	SV1	Air	Benzene	2.36	J	1.12	6.39	ug/m3
Q1430-01	SV1	Air	4-Methyl-2-Pentanone	3.57	J	1.52	8.20	ug/m3
Q1430-01	SV1	Air	Toluene	9.80		1.66	7.54	ug/m3
Q1430-01	SV1	Air	Tetrachloroethene	35.9		0.41	0.81	ug/m3
Q1430-01	SV1	Air	m/p-Xylene	5.21	J	3.65	17.4	ug/m3
Q1430-01	SV1	Air	o-Xylene	2.13	J	2.08	8.69	ug/m3
Q1430-01	SV1	Air	1,2,4-Trimethylbenzene	2.02	J	1.52	9.83	ug/m3
Q1430-01	SV1	Air	Hexane	3.28	J	1.55	7.05	ug/m3
Total Voc :				143				
Total Concentration:				143				
Client ID:	SV2							
Q1430-02	SV2	Air	tert-Butyl alcohol	3.33	J	2.30	6.06	ug/m3
Q1430-02	SV2	Air	Acetone	28.7		2.28	4.75	ug/m3
Q1430-02	SV2	Air	Methylene Chloride	7.64		2.64	6.95	ug/m3
Q1430-02	SV2	Air	2-Butanone	46.9		1.42	5.90	ug/m3
Q1430-02	SV2	Air	Benzene	1.82	J	1.12	6.39	ug/m3
Q1430-02	SV2	Air	4-Methyl-2-Pentanone	4.51	J	1.52	8.20	ug/m3
Q1430-02	SV2	Air	Toluene	7.91		1.66	7.54	ug/m3
Q1430-02	SV2	Air	Tetrachloroethene	11.5		0.41	0.81	ug/m3
Q1430-02	SV2	Air	Hexane	1.69	J	1.55	7.05	ug/m3
Total Voc :				114				
Total Concentration:				114				
Client ID:	SV3							
Q1430-03	SV3	Air	tert-Butyl alcohol	3.64	J	2.30	6.06	ug/m3
Q1430-03	SV3	Air	Acetone	18.8		2.28	4.75	ug/m3
Q1430-03	SV3	Air	Methylene Chloride	3.47	J	2.64	6.95	ug/m3
Q1430-03	SV3	Air	2-Butanone	42.8		1.42	5.90	ug/m3
Q1430-03	SV3	Air	Toluene	4.52	J	1.66	7.54	ug/m3
Q1430-03	SV3	Air	Tetrachloroethene	14.2		0.41	0.81	ug/m3
Total Voc :				87.4				
Total Concentration:				87.4				
Client ID:	SV4							
Q1430-04	SV4	Air	tert-Butyl alcohol	3.03	J	2.30	6.06	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1430

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1430-04	SV4	Air	Acetone	27.1		2.28	4.75	ug/m3
Q1430-04	SV4	Air	Carbon Disulfide	2.24	J	1.99	6.23	ug/m3
Q1430-04	SV4	Air	Methylene Chloride	4.52	J	2.64	6.95	ug/m3
Q1430-04	SV4	Air	2-Butanone	40.1		1.42	5.90	ug/m3
Q1430-04	SV4	Air	Benzene	2.65	J	1.12	6.39	ug/m3
Q1430-04	SV4	Air	4-Methyl-2-Pentanone	3.44	J	1.52	8.20	ug/m3
Q1430-04	SV4	Air	Toluene	10.2		1.66	7.54	ug/m3
Q1430-04	SV4	Air	Tetrachloroethene	2.03		0.41	0.81	ug/m3
Total Voc :				95.3				
Total Concentration:				95.3				
Client ID:	IA1							
Q1430-05	IA1	Air	Dichlorodifluoromethane	2.13	J	1.04	2.47	ug/m3
Q1430-05	IA1	Air	Chloromethane	0.95	J	0.21	1.03	ug/m3
Q1430-05	IA1	Air	Trichlorofluoromethane	1.29	J	0.90	2.81	ug/m3
Q1430-05	IA1	Air	Heptane	2.05		0.45	2.05	ug/m3
Q1430-05	IA1	Air	Acetone	14.7		0.57	1.19	ug/m3
Q1430-05	IA1	Air	Methylene Chloride	37.2		0.66	1.74	ug/m3
Q1430-05	IA1	Air	Cyclohexane	0.96	J	0.76	1.72	ug/m3
Q1430-05	IA1	Air	2-Butanone	1.47		0.35	1.47	ug/m3
Q1430-05	IA1	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1430-05	IA1	Air	Chloroform	1.17	J	0.39	2.44	ug/m3
Q1430-05	IA1	Air	2,2,4-Trimethylpentane	7.01		0.47	2.34	ug/m3
Q1430-05	IA1	Air	Benzene	13.7		0.29	1.60	ug/m3
Q1430-05	IA1	Air	4-Methyl-2-Pentanone	1.93	J	0.37	2.05	ug/m3
Q1430-05	IA1	Air	Toluene	24.9		0.41	1.88	ug/m3
Q1430-05	IA1	Air	Tetrachloroethene	0.27		0.14	0.20	ug/m3
Q1430-05	IA1	Air	Ethyl Benzene	2.78		0.52	2.17	ug/m3
Q1430-05	IA1	Air	m/p-Xylene	11.3		0.91	4.34	ug/m3
Q1430-05	IA1	Air	o-Xylene	3.43		0.52	2.17	ug/m3
Q1430-05	IA1	Air	Styrene	0.89	J	0.47	2.13	ug/m3
Q1430-05	IA1	Air	1,3,5-Trimethylbenzene	0.74	J	0.54	2.46	ug/m3
Q1430-05	IA1	Air	1,2,4-Trimethylbenzene	2.11	J	0.39	2.46	ug/m3
Q1430-05	IA1	Air	Naphthalene	0.63		0.42	0.52	ug/m3
Q1430-05	IA1	Air	4-Ethyltoluene	0.84	J	0.59	2.46	ug/m3
Q1430-05	IA1	Air	Hexane	16.6		0.39	1.76	ug/m3
Total Voc :				150				
Total Concentration:				150				

Hit Summary Sheet
SW-846

SDG No.: Q1430

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	OA1							
Q1430-06	OA1	Air	Dichlorodifluoromethane	2.13	J	1.04	2.47	ug/m3
Q1430-06	OA1	Air	Chloromethane	3.10		0.21	1.03	ug/m3
Q1430-06	OA1	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1430-06	OA1	Air	tert-Butyl alcohol	0.76	J	0.58	1.52	ug/m3
Q1430-06	OA1	Air	Heptane	0.98	J	0.45	2.05	ug/m3
Q1430-06	OA1	Air	Acetone	22.6		0.57	1.19	ug/m3
Q1430-06	OA1	Air	Methylene Chloride	6.60		0.66	1.74	ug/m3
Q1430-06	OA1	Air	2-Butanone	2.18		0.35	1.47	ug/m3
Q1430-06	OA1	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1430-06	OA1	Air	Chloroform	0.54	J	0.39	2.44	ug/m3
Q1430-06	OA1	Air	2,2,4-Trimethylpentane	0.70	J	0.47	2.34	ug/m3
Q1430-06	OA1	Air	Benzene	1.05	J	0.29	1.60	ug/m3
Q1430-06	OA1	Air	Toluene	3.09		0.41	1.88	ug/m3
Q1430-06	OA1	Air	Tetrachloroethene	0.54		0.14	0.20	ug/m3
Q1430-06	OA1	Air	m/p-Xylene	1.48	J	0.91	4.34	ug/m3
Q1430-06	OA1	Air	o-Xylene	0.52	J	0.52	2.17	ug/m3
Q1430-06	OA1	Air	Hexane	2.19		0.39	1.76	ug/m3
Total Voc :				50.3				
Total Concentration:				50.3				

Project : 38-11 31st St, Long Island City, NY

Field Id Number : SV1

Laboratory Id Number : Q1430-01

Sampling Date : 02/25/25

Analysis Date : 03/03/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.39	U	0.81		
Vinyl Chloride	75-01-4	62.5	0.06	U	0.15		
Bromomethane	74-83-9	94.94	0.56	U	2.17		
Chloroethane	75-00-3	64.52	0.68	U	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	U	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.7	J	3.93		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	U	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	U	4.91		
tert-Butyl alcohol	75-65-0	74.12	0.76	U	2.3		
Heptane	142-82-5	100.2	0.44	U	1.8		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	12		28.5		
Carbon Disulfide	75-15-0	76.14	0.64	U	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	U	1.73		
Methylene Chloride	75-09-2	84.94	3.5		12.2		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	U	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	U	2.1		
Cyclohexane	110-82-7	84.16	0.88	U	3.03		
2-Butanone	78-93-3	72.11	11.4		33.6		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	U	1.43		
Chloroform	67-66-3	119.4	0.33	U	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	U	1.87		
Benzene	71-43-2	78.11	0.74	J	2.36		
1,2-Dichloroethane	107-06-2	98.96	0.36	U	1.46		
Trichloroethene	79-01-6	131.4	0.07	U	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	U	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	U	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	0.87	J	3.57		
Toluene	108-88-3	92.14	2.6		9.8		
t-1,3-Dichloropropene	10061-02-6	111	0.24	U	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	U	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	U	1.53		

Project : 38-11 31st St, Long Island City, NY

Sampling Date : 02/25/25

Field Id Number : SV1

Analysis Date : 03/03/25

Laboratory Id Number : Q1430-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	U	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	U	2.23		
Tetrachloroethene	127-18-4	165.8	5.3		35.9		
Chlorobenzene	108-90-7	112.6	0.3	U	1.38		
Ethyl Benzene	100-41-4	106.2	0.48	U	2.08		
m/p-Xylene	179601-23-1	106.2	1.2	J	5.21		
o-Xylene	95-47-6	106.2	0.49	J	2.13		
Styrene	100-42-5	104.1	0.44	U	1.87		
Bromoform	75-25-2	252.8	0.23	U	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	U	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	U	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.41	J	2.02		
1,3-Dichlorobenzene	541-73-1	147	0.32	U	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	U	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	U	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	U	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	U	3.63		
Naphthalene	91-20-3	128.17	0.3	U	1.57		
1,3-Butadiene	106-99-0	54.09	0.52	U	1.15		
4-Ethyltoluene	622-96-8	120.2	0.48	U	2.36		
Hexane	110-54-3	86.17	0.93	J	3.28		
Allyl Chloride	107-05-1	76.53	0.6	U	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	U	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	U	1.39		

Project : 38-11 31st St, Long Island City, NY

Field Id Number : SV2

Laboratory Id Number : Q1430-02

Sampling Date : 02/25/25

Analysis Date : 03/03/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.39	U	0.81		
Vinyl Chloride	75-01-4	62.5	0.06	U	0.15		
Bromomethane	74-83-9	94.94	0.56	U	2.17		
Chloroethane	75-00-3	64.52	0.68	U	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	U	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	U	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	U	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	U	4.91		
tert-Butyl alcohol	75-65-0	74.12	1.1	J	3.33		
Heptane	142-82-5	100.2	0.44	U	1.8		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	12.1		28.7		
Carbon Disulfide	75-15-0	76.14	0.64	U	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	U	1.73		
Methylene Chloride	75-09-2	84.94	2.2		7.64		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	U	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	U	2.1		
Cyclohexane	110-82-7	84.16	0.88	U	3.03		
2-Butanone	78-93-3	72.11	15.9		46.9		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	U	1.43		
Chloroform	67-66-3	119.4	0.33	U	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	U	1.87		
Benzene	71-43-2	78.11	0.57	J	1.82		
1,2-Dichloroethane	107-06-2	98.96	0.36	U	1.46		
Trichloroethene	79-01-6	131.4	0.07	U	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	U	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	U	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	1.1	J	4.51		
Toluene	108-88-3	92.14	2.1		7.91		
t-1,3-Dichloropropene	10061-02-6	111	0.24	U	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	U	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	U	1.53		

Project : 38-11 31st St, Long Island City, NY

Sampling Date : 02/25/25

Field Id Number : SV2

Analysis Date : 03/03/25

Laboratory Id Number : Q1430-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	U	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	U	2.23		
Tetrachloroethene	127-18-4	165.8	1.7		11.5		
Chlorobenzene	108-90-7	112.6	0.3	U	1.38		
Ethyl Benzene	100-41-4	106.2	0.48	U	2.08		
m/p-Xylene	179601-23-1	106.2	0.84	U	3.65		
o-Xylene	95-47-6	106.2	0.48	U	2.08		
Styrene	100-42-5	104.1	0.44	U	1.87		
Bromoform	75-25-2	252.8	0.23	U	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	U	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	U	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.31	U	1.52		
1,3-Dichlorobenzene	541-73-1	147	0.32	U	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	U	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	U	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	U	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	U	3.63		
Naphthalene	91-20-3	128.17	0.3	U	1.57		
1,3-Butadiene	106-99-0	54.09	0.52	U	1.15		
4-Ethyltoluene	622-96-8	120.2	0.48	U	2.36		
Hexane	110-54-3	86.17	0.48	J	1.69		
Allyl Chloride	107-05-1	76.53	0.6	U	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	U	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	U	1.39		

Project : 38-11 31st St, Long Island City, NY

Field Id Number : SV3

Laboratory Id Number : Q1430-03

Sampling Date : 02/25/25

Analysis Date : 03/03/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.39	U	0.81		
Vinyl Chloride	75-01-4	62.5	0.06	U	0.15		
Bromomethane	74-83-9	94.94	0.56	U	2.17		
Chloroethane	75-00-3	64.52	0.68	U	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	U	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	U	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	U	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	U	4.91		
tert-Butyl alcohol	75-65-0	74.12	1.2	J	3.64		
Heptane	142-82-5	100.2	0.44	U	1.8		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	7.9		18.8		
Carbon Disulfide	75-15-0	76.14	0.64	U	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	U	1.73		
Methylene Chloride	75-09-2	84.94	1	J	3.47		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	U	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	U	2.1		
Cyclohexane	110-82-7	84.16	0.88	U	3.03		
2-Butanone	78-93-3	72.11	14.5		42.8		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	U	1.43		
Chloroform	67-66-3	119.4	0.33	U	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	U	1.87		
Benzene	71-43-2	78.11	0.35	U	1.12		
1,2-Dichloroethane	107-06-2	98.96	0.36	U	1.46		
Trichloroethene	79-01-6	131.4	0.07	U	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	U	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	U	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	0.37	U	1.52		
Toluene	108-88-3	92.14	1.2	J	4.52		
t-1,3-Dichloropropene	10061-02-6	111	0.24	U	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	U	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	U	1.53		

Project : 38-11 31st St, Long Island City, NY

Sampling Date : 02/25/25

Field Id Number : SV3

Analysis Date : 03/03/25

Laboratory Id Number : Q1430-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	U	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	U	2.23		
Tetrachloroethene	127-18-4	165.8	2.1		14.2		
Chlorobenzene	108-90-7	112.6	0.3	U	1.38		
Ethyl Benzene	100-41-4	106.2	0.48	U	2.08		
m/p-Xylene	179601-23-1	106.2	0.84	U	3.65		
o-Xylene	95-47-6	106.2	0.48	U	2.08		
Styrene	100-42-5	104.1	0.44	U	1.87		
Bromoform	75-25-2	252.8	0.23	U	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	U	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	U	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.31	U	1.52		
1,3-Dichlorobenzene	541-73-1	147	0.32	U	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	U	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	U	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	U	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	U	3.63		
Naphthalene	91-20-3	128.17	0.3	U	1.57		
1,3-Butadiene	106-99-0	54.09	0.52	U	1.15		
4-Ethyltoluene	622-96-8	120.2	0.48	U	2.36		
Hexane	110-54-3	86.17	0.44	U	1.55		
Allyl Chloride	107-05-1	76.53	0.6	U	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	U	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	U	1.39		

Project : 38-11 31st St, Long Island City, NY

Field Id Number : SV4

Laboratory Id Number : Q1430-04

Sampling Date : 02/25/25

Analysis Date : 03/03/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.39	U	0.81		
Vinyl Chloride	75-01-4	62.5	0.06	U	0.15		
Bromomethane	74-83-9	94.94	0.56	U	2.17		
Chloroethane	75-00-3	64.52	0.68	U	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	U	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	U	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	U	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	U	4.91		
tert-Butyl alcohol	75-65-0	74.12	1	J	3.03		
Heptane	142-82-5	100.2	0.44	U	1.8		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	11.4		27.1		
Carbon Disulfide	75-15-0	76.14	0.72	J	2.24		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	U	1.73		
Methylene Chloride	75-09-2	84.94	1.3	J	4.52		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	U	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	U	2.1		
Cyclohexane	110-82-7	84.16	0.88	U	3.03		
2-Butanone	78-93-3	72.11	13.6		40.1		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	U	1.43		
Chloroform	67-66-3	119.4	0.33	U	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	U	1.87		
Benzene	71-43-2	78.11	0.83	J	2.65		
1,2-Dichloroethane	107-06-2	98.96	0.36	U	1.46		
Trichloroethene	79-01-6	131.4	0.07	U	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	U	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	U	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	0.84	J	3.44		
Toluene	108-88-3	92.14	2.7		10.2		
t-1,3-Dichloropropene	10061-02-6	111	0.24	U	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	U	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	U	1.53		

Project : 38-11 31st St, Long Island City, NY

Field Id Number : SV4

Laboratory Id Number : Q1430-04

Sampling Date : 02/25/25

Analysis Date : 03/03/25

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	U	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	U	2.23		
Tetrachloroethene	127-18-4	165.8	0.3		2.03		
Chlorobenzene	108-90-7	112.6	0.3	U	1.38		
Ethyl Benzene	100-41-4	106.2	0.48	U	2.08		
m/p-Xylene	179601-23-1	106.2	0.84	U	3.65		
o-Xylene	95-47-6	106.2	0.48	U	2.08		
Styrene	100-42-5	104.1	0.44	U	1.87		
Bromoform	75-25-2	252.8	0.23	U	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	U	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	U	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.31	U	1.52		
1,3-Dichlorobenzene	541-73-1	147	0.32	U	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	U	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	U	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	U	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	U	3.63		
Naphthalene	91-20-3	128.17	0.3	U	1.57		
1,3-Butadiene	106-99-0	54.09	0.52	U	1.15		
4-Ethyltoluene	622-96-8	120.2	0.48	U	2.36		
Hexane	110-54-3	86.17	0.44	U	1.55		
Allyl Chloride	107-05-1	76.53	0.6	U	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	U	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	U	1.39		

Project : 38-11 31st St, Long Island City, NY

Field Id Number : IA1

Laboratory Id Number : Q1430-05

Sampling Date : 02/25/25

Analysis Date : 02/26/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.43	J	2.13		
Chloromethane	74-87-3	50.49	0.46	J	0.95		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.5		2.05		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	6.2		14.7		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	10.7		37.2		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.28	J	0.96		
2-Butanone	78-93-3	72.11	0.5		1.47		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.24	J	1.17		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	1.5		7.01		
Benzene	71-43-2	78.11	4.3		13.7		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.47	J	1.93		
Toluene	108-88-3	92.14	6.6		24.9		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : 38-11 31st St, Long Island City, NY

Field Id Number : IA1

Laboratory Id Number : Q1430-05

Sampling Date : 02/25/25

Analysis Date : 02/26/25

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.04		0.27		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.64		2.78		
m/p-Xylene	179601-23-1	106.2	2.6		11.3		
o-Xylene	95-47-6	106.2	0.79		3.43		
Styrene	100-42-5	104.1	0.21	J	0.89		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.15	J	0.74		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.43	J	2.11		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.12		0.63		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.17	J	0.84		
Hexane	110-54-3	86.17	4.7		16.6		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : 38-11 31st St, Long Island City, NY

Field Id Number : OA1

Laboratory Id Number : Q1430-06

Sampling Date : 02/25/25

Analysis Date : 02/26/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.43	J	2.13		
Chloromethane	74-87-3	50.49	1.5		3.1		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.25	J	0.76		
Heptane	142-82-5	100.2	0.24	J	0.98		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	9.5		22.6		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.9		6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.74		2.18		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.11	J	0.54		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.15	J	0.7		
Benzene	71-43-2	78.11	0.33	J	1.05		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.82		3.09		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : 38-11 31st St, Long Island City, NY

Sampling Date : 02/25/25

Field Id Number : OA1

Analysis Date : 02/26/25

Laboratory Id Number : Q1430-06

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.08		0.54		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.34	J	1.48		
o-Xylene	95-47-6	106.2	0.12	J	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.62		2.19		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		



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Project : 38-11 31st St, Long Island City, NY

Field Id Number : OA1

Laboratory Id Number : Q1430-06

Sampling Date : 02/25/25

Analysis Date : 02/26/25

Target Analyts : Air Results



QC SUMMARY

Surrogate Summary

SDG No.: Q1430

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1430-01	SV1	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
Q1430-01DUP	SV1DUP	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
Q1430-02	SV2	1-Bromo-4-Fluorobenzene	10	9.82	98	65	135
Q1430-03	SV3	1-Bromo-4-Fluorobenzene	10	9.94	99	65	135
Q1430-04	SV4	1-Bromo-4-Fluorobenzene	10	9.58	96	65	135
Q1430-05	IA1	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
Q1430-05DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q1430-06	OA1	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
VL0226ABL01	VL0226ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL0226ABS01	VL0226ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135
VL0303ABL01	VL0303ABL01	1-Bromo-4-Fluorobenzene	10	9.62	96	65	135
VL0303ABS01	VL0303ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1430

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042054.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0226ABS01	Dichlorodifluoromethane	10	9.70	ppbv	97			70	130	
	Chloromethane	10	9.10	ppbv	91			70	130	
	Vinyl Chloride	10	9.90	ppbv	99			70	130	
	Bromomethane	10	9.60	ppbv	96			70	130	
	Chloroethane	10	9.30	ppbv	93			70	130	
	Tetrahydrofuran	10	10.2	ppbv	102			70	130	
	Trichlorofluoromethane	10	9.70	ppbv	97			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.80	ppbv	98			70	130	
	Dichlorotetrafluoroethane	10	9.60	ppbv	96			70	130	
	tert-Butyl Alcohol	10	9.30	ppbv	93			70	130	
	Heptane	10	9.10	ppbv	91			70	130	
	1,1-Dichloroethene	10	9.30	ppbv	93			70	130	
	Acetone	10	8.60	ppbv	86			70	130	
	Carbon disulfide	10	9.70	ppbv	97			70	130	
	Methyl tert-butyl Ether	10	9.80	ppbv	98			70	130	
	Methylene Chloride	10	9.00	ppbv	90			70	130	
	trans-1,2-Dichloroethene	10	9.20	ppbv	92			70	130	
	1,1-Dichloroethane	10	9.60	ppbv	96			70	130	
	Cyclohexane	10	8.90	ppbv	89			70	130	
	2-Butanone	10	10.2	ppbv	102			70	130	
	Carbon Tetrachloride	10	10.3	ppbv	103			70	130	
	cis-1,2-Dichloroethene	10	9.30	ppbv	93			70	130	
	Chloroform	10	9.00	ppbv	90			70	130	
	1,1,1-Trichloroethane	10	9.20	ppbv	92			70	130	
	2,2,4-Trimethylpentane	10	10.0	ppbv	100			70	130	
	Benzene	10	9.70	ppbv	97			70	130	
	1,2-Dichloroethane	10	10.2	ppbv	102			70	130	
	Trichloroethene	10	9.10	ppbv	91			70	130	
	1,2-Dichloropropane	10	10.0	ppbv	100			70	130	
	Bromodichloromethane	10	10.0	ppbv	100			70	130	
	4-Methyl-2-Pentanone	10	11.0	ppbv	110			70	130	
	Toluene	10	9.70	ppbv	97			70	130	
	t-1,3-Dichloropropene	10	9.80	ppbv	98			70	130	
	cis-1,3-Dichloropropene	10	9.90	ppbv	99			70	130	
	1,1,2-Trichloroethane	10	9.30	ppbv	93			70	130	
	Dibromochloromethane	10	9.80	ppbv	98			70	130	
	1,2-Dibromoethane	10	9.50	ppbv	95			70	130	
	Tetrachloroethene	10	9.40	ppbv	94			70	130	
	Chlorobenzene	10	9.50	ppbv	95			70	130	
	Ethyl Benzene	10	9.80	ppbv	98			70	130	
	m/p-Xylene	20	19.5	ppbv	98			70	130	
	o-Xylene	10	9.60	ppbv	96			70	130	
	Styrene	10	9.90	ppbv	99			70	130	
	Bromoform	10	9.60	ppbv	96			70	130	
	1,1,2,2-Tetrachloroethane	10	9.50	ppbv	95			70	130	
	2-Chlorotoluene	10	9.60	ppbv	96			70	130	
	1,3,5-Trimethylbenzene	10	9.60	ppbv	96			70	130	
	1,2,4-Trimethylbenzene	10	9.30	ppbv	93			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1430

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042054.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0226ABS01	1,3-Dichlorobenzene	10	9.40	ppbv	94			70	130	
	1,4-Dichlorobenzene	10	9.30	ppbv	93			70	130	
	1,2-Dichlorobenzene	10	9.40	ppbv	94			70	130	
	1,2,4-Trichlorobenzene	10	10.2	ppbv	102			70	130	
	Hexachloro-1,3-butadiene	10	8.90	ppbv	89			70	130	
	Naphthalene	10	12.4	ppbv	124			70	130	
	1,3-Butadiene	10	9.10	ppbv	91			70	130	
	4-Ethyltoluene	10	9.70	ppbv	97			70	130	
	Hexane	10	8.90	ppbv	89			70	130	
	Allyl Chloride	10	9.50	ppbv	95			70	130	
	1,4-Dioxane	10	9.80	ppbv	98			70	130	
	Methyl methacrylate	10	10.0	ppbv	100			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1430

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042077.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0303ABS01	Dichlorodifluoromethane	10	10.7	ppbv	107			70	130	
	Chloromethane	10	10.2	ppbv	102			70	130	
	Vinyl Chloride	10	10.3	ppbv	103			70	130	
	Bromomethane	10	10.4	ppbv	104			70	130	
	Chloroethane	10	10.4	ppbv	104			70	130	
	Tetrahydrofuran	10	11.2	ppbv	112			70	130	
	Trichlorofluoromethane	10	11.7	ppbv	117			70	130	
	1,1,2-Trichlorotrifluoroethane	10	11.2	ppbv	112			70	130	
	Dichlorotetrafluoroethane	10	10.6	ppbv	106			70	130	
	tert-Butyl Alcohol	10	9.60	ppbv	96			70	130	
	Heptane	10	9.60	ppbv	96			70	130	
	1,1-Dichloroethene	10	10.4	ppbv	104			70	130	
	Acetone	10	9.90	ppbv	99			70	130	
	Carbon disulfide	10	11.0	ppbv	110			70	130	
	Methyl tert-butyl Ether	10	8.40	ppbv	84			70	130	
	Methylene Chloride	10	9.90	ppbv	99			70	130	
	trans-1,2-Dichloroethene	10	10.2	ppbv	102			70	130	
	1,1-Dichloroethane	10	10.7	ppbv	107			70	130	
	Cyclohexane	10	8.90	ppbv	89			70	130	
	2-Butanone	10	11.3	ppbv	113			70	130	
	Carbon Tetrachloride	10	10.9	ppbv	109			70	130	
	cis-1,2-Dichloroethene	10	9.30	ppbv	93			70	130	
	Chloroform	10	9.40	ppbv	94			70	130	
	1,1,1-Trichloroethane	10	9.10	ppbv	91			70	130	
	2,2,4-Trimethylpentane	10	10.9	ppbv	109			70	130	
	Benzene	10	10.5	ppbv	105			70	130	
	1,2-Dichloroethane	10	11.0	ppbv	110			70	130	
	Trichloroethene	10	9.80	ppbv	98			70	130	
	1,2-Dichloropropane	10	10.7	ppbv	107			70	130	
	Bromodichloromethane	10	10.8	ppbv	108			70	130	
	4-Methyl-2-Pentanone	10	12.1	ppbv	121			70	130	
	Toluene	10	10.3	ppbv	103			70	130	
	t-1,3-Dichloropropene	10	9.60	ppbv	96			70	130	
	cis-1,3-Dichloropropene	10	10.1	ppbv	101			70	130	
	1,1,2-Trichloroethane	10	10.2	ppbv	102			70	130	
	Dibromochloromethane	10	10.2	ppbv	102			70	130	
	1,2-Dibromoethane	10	10.2	ppbv	102			70	130	
	Tetrachloroethene	10	10.1	ppbv	101			70	130	
	Chlorobenzene	10	10.2	ppbv	102			70	130	
	Ethyl Benzene	10	10.5	ppbv	105			70	130	
	m/p-Xylene	20	21.5	ppbv	108			70	130	
	o-Xylene	10	10.7	ppbv	107			70	130	
	Styrene	10	10.6	ppbv	106			70	130	
	Bromoform	10	10.5	ppbv	105			70	130	
	1,1,2,2-Tetrachloroethane	10	10.9	ppbv	109			70	130	
	2-Chlorotoluene	10	10.5	ppbv	105			70	130	
	1,3,5-Trimethylbenzene	10	10.5	ppbv	105			70	130	
	1,2,4-Trimethylbenzene	10	10.2	ppbv	102			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1430

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042077.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0303ABS01	1,3-Dichlorobenzene	10	10.5	ppbv	105			70	130	
	1,4-Dichlorobenzene	10	10.6	ppbv	106			70	130	
	1,2-Dichlorobenzene	10	10.7	ppbv	107			70	130	
	1,2,4-Trichlorobenzene	10	11.0	ppbv	110			70	130	
	Hexachloro-1,3-butadiene	10	9.80	ppbv	98			70	130	
	Naphthalene	10	13.5	ppbv	135		*	70	130	
	1,3-Butadiene	10	10.0	ppbv	100			70	130	
	4-Ethyltoluene	10	10.6	ppbv	106			70	130	
	Hexane	10	9.20	ppbv	92			70	130	
	Allyl Chloride	10	10.5	ppbv	105			70	130	
	1,4-Dioxane	10	10.4	ppbv	104			70	130	
	Methyl methacrylate	10	10.3	ppbv	103			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1430-01DUP	Q1430-01
Client Id :	SV1DUP	SV1
DF :	4	4
Datafile :	VL042087.D	VL042085.D
Anal Date & Time :	03/03/2025 20:29	03/03/2025 19:28

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0.41	0.41	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	11	11.4	3.6
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0.88	0.87	1.1
Acetone	11.6	12	3.4
Allyl Chloride	0	0	0
Benzene	0.72	0.74	2.7
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1430-01DUP	Q1430-01
Client Id :	SV1DUP	SV1
DF :	4	4
Datafile :	VL042087.D	VL042085.D
Anal Date & Time :	03/03/2025 20:29	03/03/2025 19:28

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.54	0	200 *
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.94	0.93	1.1
m/p-Xylene	1.1	1.2	8.7
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	3.7	3.5	5.6
Naphthalene	0	0	0
o-Xylene	0.44	0.49	10.8
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0.58	0	200 *
Tetrachloroethene	5.2	5.3	1.9
Tetrahydrofuran	0	0	0
Toluene	2.4	2.6	8
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.74	0.7	5.6
Vinyl Chloride	0	0	0
1,1,1-Trichloroethane	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1430-05DUP	Q1430-05
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042057.D	VL042056.D
Anal Date & Time :	02/26/2025 12:48	02/26/2025 12:14

Parameter	Result	Result	RPD
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0.37	0.43	15
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0.14	0.15	6.9
1,3-Butadiene	2	0	200 *
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	1.3	1.5	14.3
2-Butanone	0.51	0.5	2
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0.15	0.17	12.5
4-Methyl-2-Pentanone	0.42	0.47	11.2
Acetone	6.3	6.2	1.6
Allyl Chloride	0	0	0
Benzene	3.8	4.3	12.3
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.07	0.08	13.3
Chlorobenzene	0	0	0
Chloroethane	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1430-05DUP	Q1430-05
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042057.D	VL042056.D
Anal Date & Time :	02/26/2025 12:48	02/26/2025 12:14

Parameter	Result	Result	RPD
Chloroform	0.26	0.24	8
Chloromethane	0.44	0.46	4.4
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0.26	0.28	7.4
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.42	0.43	2.4
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.58	0.64	9.8
Heptane	0.46	0.5	8.3
Hexachloro-1,3-Butadiene	0	0	0
Hexane	6	4.7	24.3 *
m/p-Xylene	2.3	2.6	12.2
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	15.6	10.7	37.3 *
Naphthalene	0.11	0.12	8.7
o-Xylene	0.73	0.79	7.9
Styrene	0.18	0.21	15.4
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.03	0.04	28.6 *
Tetrahydrofuran	0	0	0
Toluene	5.7	6.6	14.6
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.22	0.23	4.4
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1430

SAS No.: Q1430 SDG NO.: Q1430

Lab File ID: VL042057.D

Lab Sample ID: Q1430-05DUP

Date Analyzed: 02/26/2025

Time Analyzed: 12:48

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	Q1430-05DUP	VL042057.D	02/26/2025
SV1DUP	Q1430-01DUP	VL042087.D	03/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0226ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1430

SAS No.: Q1430 SDG NO.: Q1430

Lab File ID: VL042051.D

Lab Sample ID: VL0226ABL01

Date Analyzed: 02/26/2025

Time Analyzed: 09:20

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0226ABS01	VL0226ABS01	VL042054.D	02/26/2025
IA1	Q1430-05	VL042056.D	02/26/2025
OA1	Q1430-06	VL042058.D	02/26/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0303ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1430

SAS No.: Q1430 SDG NO.: Q1430

Lab File ID: VL042076.D

Lab Sample ID: VL0303ABL01

Date Analyzed: 03/03/2025

Time Analyzed: 14:49

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0303ABS01	VL0303ABS01	VL042077.D	03/03/2025
SV3	Q1430-03	VL042079.D	03/03/2025
SV2	Q1430-02	VL042081.D	03/03/2025
SV4	Q1430-04	VL042083.D	03/03/2025
SV1	Q1430-01	VL042085.D	03/03/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG NO.: Q1430
Lab File ID: VL042040.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:56
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.9 (7.8) 1
176	93.0 - 101.0% of mass 174	60.9 (96.1) 1
177	5.0 - 9.0% of mass 176	3.4 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042041.D	02/25/2025	08:56
VSTDICCC002	VSTDICCC002	VL042042.D	02/25/2025	09:29
VSTDICCC001	VSTDICCC001	VL042043.D	02/25/2025	10:00
VSTDICCC0.5	VSTDICCC0.5	VL042044.D	02/25/2025	10:31
VSTDICCC0.1	VSTDICCC0.1	VL042045.D	02/25/2025	11:03
VSTDICCC0.03	VSTDICCC0.03	VL042046.D	02/25/2025	11:34
VSTDICCC015	VSTDICCC015	VL042047.D	02/25/2025	12:07

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG NO.: Q1430
Lab File ID: VL042049.D BFB Injection Date: 02/26/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:46
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.3
75	30.0 - 66.0% of mass 95	57.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	63
175	4.0 - 9.0% of mass 174	4.3 (6.8) 1
176	93.0 - 101.0% of mass 174	62.1 (98.5) 1
177	5.0 - 9.0% of mass 176	4 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042050.D	02/26/2025	08:38
VL0226ABL01	VL0226ABL01	VL042051.D	02/26/2025	09:20
VL0226ABS01	VL0226ABS01	VL042054.D	02/26/2025	11:07
IA1	Q1430-05	VL042056.D	02/26/2025	12:14
IA1DUP	Q1430-05DUP	VL042057.D	02/26/2025	12:48
OA1	Q1430-06	VL042058.D	02/26/2025	13:21

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG NO.: Q1430
Lab File ID: VL042074.D BFB Injection Date: 03/03/2025
Instrument ID: MSVOA_L BFB Injection Time: 11:45
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.8
75	30.0 - 66.0% of mass 95	57.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 120.0% of mass 95	61.1
175	4.0 - 9.0% of mass 174	4.8 (7.9) 1
176	93.0 - 101.0% of mass 174	61.7 (100.9) 1
177	5.0 - 9.0% of mass 176	3.6 (5.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042075.D	03/03/2025	12:15
VL0303ABL01	VL0303ABL01	VL042076.D	03/03/2025	14:49
VL0303ABS01	VL0303ABS01	VL042077.D	03/03/2025	15:19
SV3	Q1430-03	VL042079.D	03/03/2025	16:23
SV2	Q1430-02	VL042081.D	03/03/2025	17:24
SV4	Q1430-04	VL042083.D	03/03/2025	18:26
SV1	Q1430-01	VL042085.D	03/03/2025	19:28
SV1DUP	Q1430-01DUP	VL042087.D	03/03/2025	20:29

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG NO.: Q1430
Lab File ID: VL042050.D Date Analyzed: 02/26/2025
Instrument ID: MSVOA_L Time Analyzed: 08:38
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	157492	2.80	387144	3.98	336136	8.90
UPPER LIMIT	220489	3.13	542002	4.31	470590	9.23
LOWER LIMIT	94495.2	2.47	232286	3.65	201682	8.57
EPA SAMPLE NO.						
IA1	159980	2.79	375140	3.97	325039	8.90
IA1DUP	157475	2.79	376491	3.97	312935	8.89
OA1	158058	2.80	369297	3.97	320901	8.90
VL0226ABL01	157395	2.80	386755	3.98	331916	8.90
VL0226ABS01	153181	2.80	369057	3.97	318885	8.90

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG NO.: Q1430
 Lab File ID: VL042050.D Date Analyzed: 02/26/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:38
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
IA1	0	0.00				
IA1DUP	0	0.00				
OA1	0	0.00				
VL0226ABL01	0	0.00				
VL0226ABS01	0	0.00				

IS4 =

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% of internal standard area

RT UPPER LIMIT = +0.33 minutes of internal standard RT

RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG NO.: Q1430
 Lab File ID: VL042075.D Date Analyzed: 03/03/2025
 Instrument ID: MSVOA_L Time Analyzed: 12:15
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	173325	2.78	409365	3.95	350236	8.88
UPPER LIMIT	242655	3.11	573111	4.28	490330	9.21
LOWER LIMIT	103995	2.45	245619	3.62	210142	8.55
EPA SAMPLE NO.						
SV1	160113	2.79	354605	3.96	302162	8.88
SV1DUP	157351	2.78	351741	3.96	297676	8.88
SV2	163018	2.79	364560	3.96	307983	8.88
SV3	161283	2.79	360438	3.96	301876	8.88
SV4	159834	2.79	351160	3.96	298456	8.88
VL0303ABL01	156551	2.79	349743	3.96	302717	8.88
VL0303ABS01	157956	2.79	356972	3.96	309763	8.88

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG NO.: Q1430
 Lab File ID: VL042075.D Date Analyzed: 03/03/2025
 Instrument ID: MSVOA_L Time Analyzed: 12:15
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
SV1	0	0.00				
SV1DUP	0	0.00				
SV2	0	0.00				
SV3	0	0.00				
SV4	0	0.00				
VL0303ABL01	0	0.00				
VL0303ABS01	0	0.00				

IS4 =

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV1	SDG No.:	Q1430
Lab Sample ID:	Q1430-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042085.D	4		03/03/25 19:28	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.39	0.81	U	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	U	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.70	3.93	J	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	U	2.30	6.06	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	12.0	28.5		2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	U	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	U	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	3.50	12.2		2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	11.4	33.6		1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	U	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.74	2.36	J	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.87	3.57	J	1.52	8.20	ug/m3
108-88-3	Toluene	2.60	9.80		1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV1	SDG No.:	Q1430
Lab Sample ID:	Q1430-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042085.D	4		03/03/25 19:28	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	5.30	35.9		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.20	5.21	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.49	2.13	J	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.41	2.02	J	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	UQ	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	U	2.36	9.83	ug/m3
110-54-3	Hexane	0.93	3.28	J	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000		2.787			
540-36-3	1,4-Difluorobenzene	355000		3.956			
3114-55-4	Chlorobenzene-d5	302000		8.879			

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV1	SDG No.:	Q1430
Lab Sample ID:	Q1430-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042085.D	4		03/03/25 19:28	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042085.D
 Acq On : 03 Mar 2025 19:28
 Operator : SY/MD
 Sample : Q1430-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:21:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

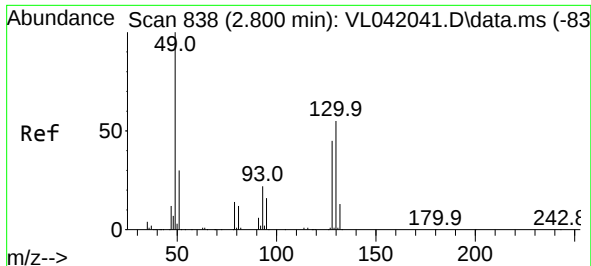
QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

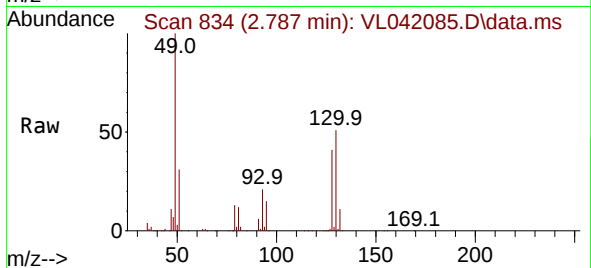
Internal Standards						
1) Bromochloromethane	2.787	49	160113	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.956	114	354605	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.879	117	302162	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	228590	9.833	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	2013	0.121	ppbv	96
9) Propene	1.483	41	3577	0.377	ppbv	98
11) Trichlorofluoromethane	1.875	101	2921	0.175	ppbv #	79
13) Ethanol	1.719	45	46249	76.851	ppbv	92
15) Acetone	1.836	43	42438	3.001	ppbv #	86
17) tert-Butyl alcohol	2.043	59	2090	0.118	ppbv #	70
19) Isopropyl Alcohol	1.887	45	6368m	0.784	ppbv	
20) Methylene Chloride	2.059	84	4683	0.876	ppbv	87
26) Hexane	2.829	57	5333	0.233	ppbv #	43
34) 2-Butanone	2.557	43	78799	2.852	ppbv	96
36) Benzene	3.648	78	6870m	0.185	ppbv	
50) 4-Methyl-2-Pentanone	5.758	43	7765m	0.217	ppbv	
51) 2-Hexanone	7.442	43	6585m	0.268	ppbv	
52) Tetrachloroethene	8.225	164	16785	1.321	ppbv	95
53) Toluene	6.933	91	27385m	0.660	ppbv	
59) m/p-Xylene	9.529	91	13524m	0.305	ppbv	
60) o-Xylene	9.960	91	5424m	0.122	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	5489	0.103	ppbv #	57

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. -0.013 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

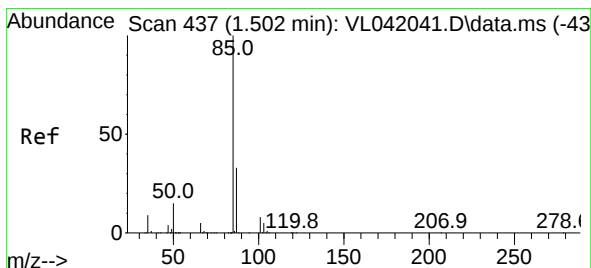
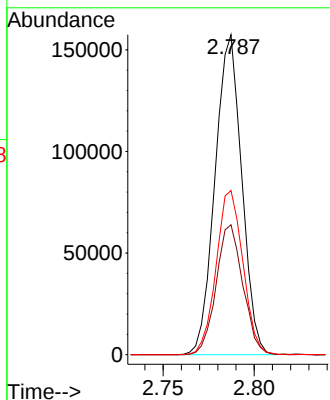
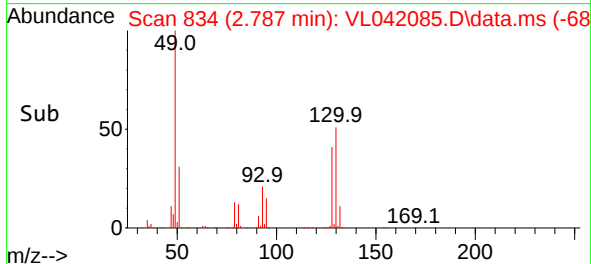
Instrument :
MSVOA_L
ClientSampleId :
SV1



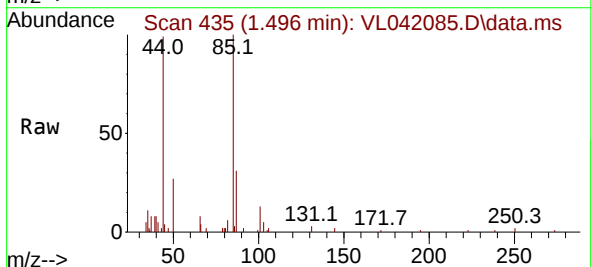
Tgt Ion: 49 Resp: 16011
Ion Ratio Lower Upper
49 100
128 40.6 21.6 64.8
130 51.6 27.8 83.4

Manual Integrations
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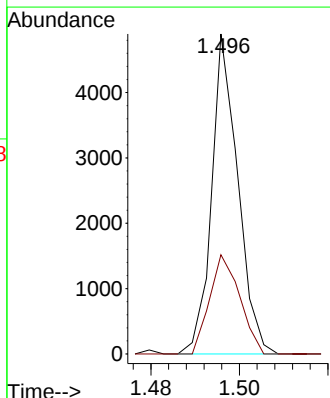
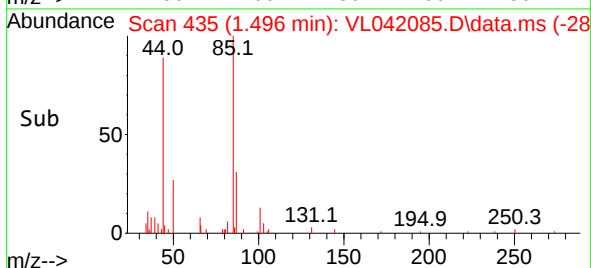
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

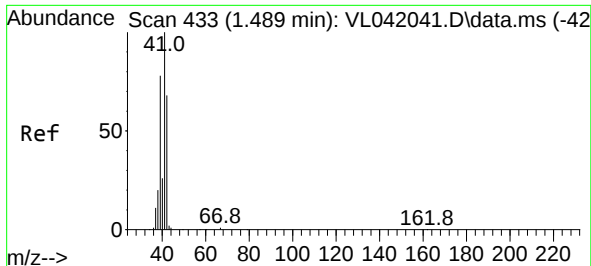


#2
Dichlorodifluoromethane
Concen: 0.121 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28



Tgt Ion: 85 Resp: 2013
Ion Ratio Lower Upper
85 100
87 31.0 26.4 39.6





#9

Propene

Concen: 0.377 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL042085.D

Acq: 03 Mar 2025 19:28

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 41 Resp: 357

Ion Ratio Lower Upper

41 100

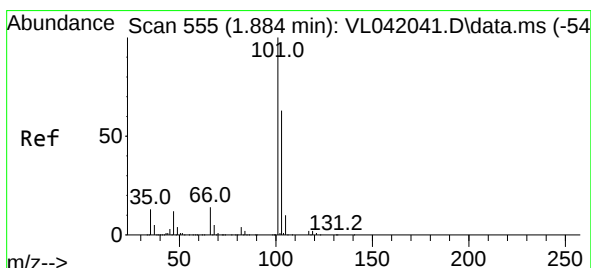
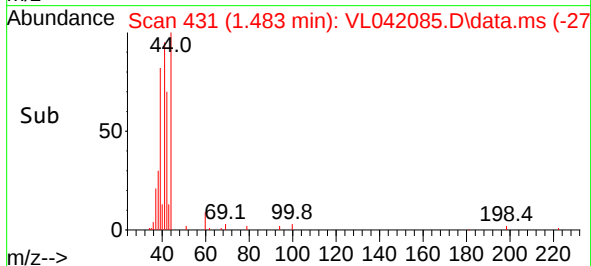
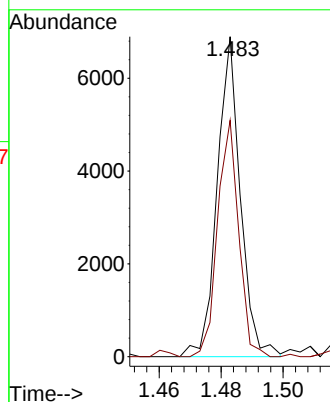
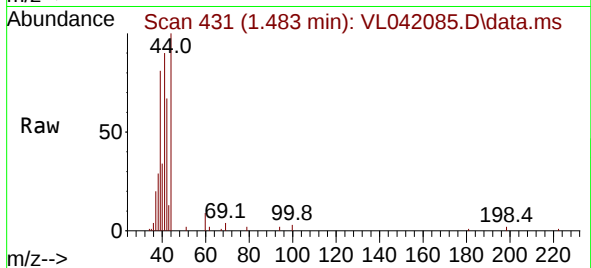
42 68.4 55.8 83.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025

Supervised By :Mahesh Dadoda 03/05/2025



#11

Trichlorofluoromethane

Concen: 0.175 ppbv

RT: 1.875 min Scan# 552

Delta R.T. -0.010 min

Lab File: VL042085.D

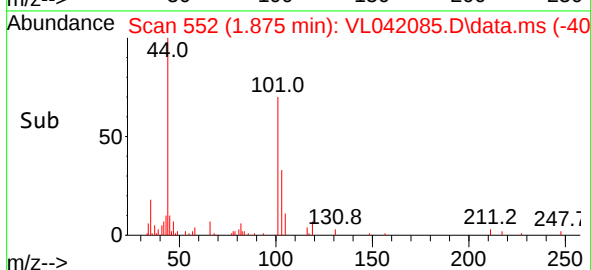
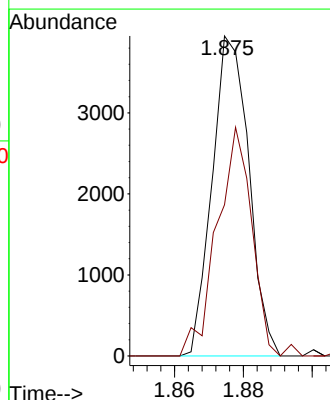
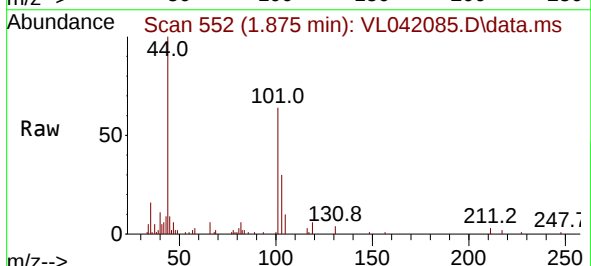
Acq: 03 Mar 2025 19:28

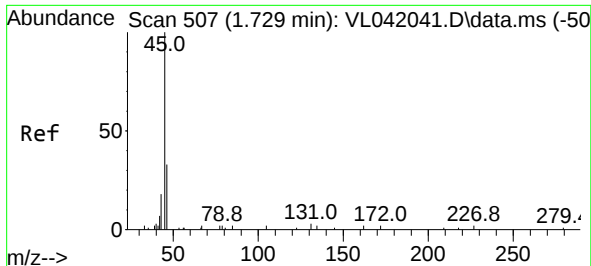
Tgt Ion:101 Resp: 2921

Ion Ratio Lower Upper

101 100

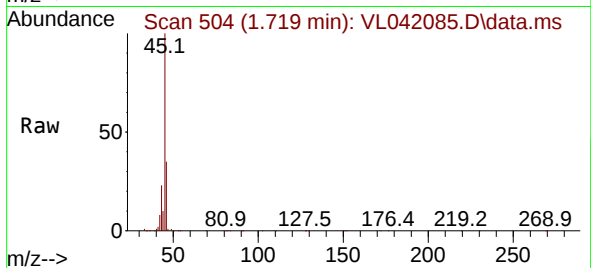
103 47.3 50.6 75.8#





#13
Ethanol
Concen: 76.851 ppbv
RT: 1.719 min Scan# 507
Delta R.T. -0.010 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

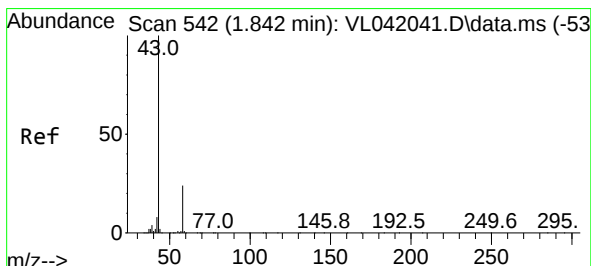
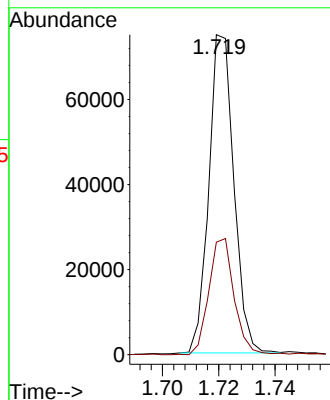
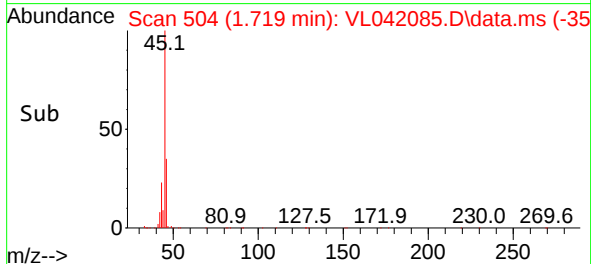
Instrument :
MSVOA_L
ClientSampleId :
SV1



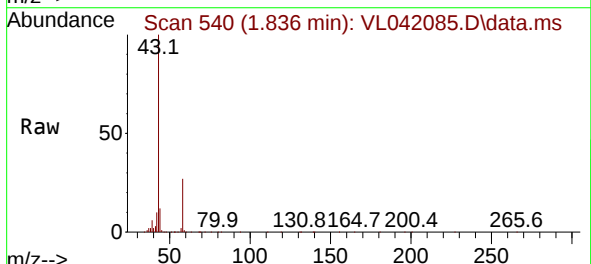
Tgt Ion: 45 Resp: 46249
Ion Ratio Lower Upper
45 100
46 37.7 17.1 68.3

Manual Integrations
APPROVED

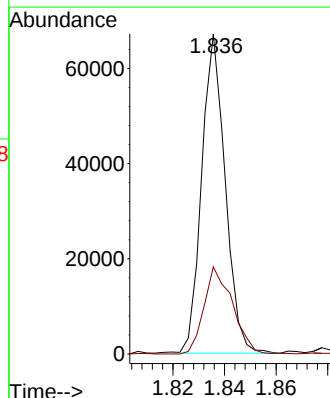
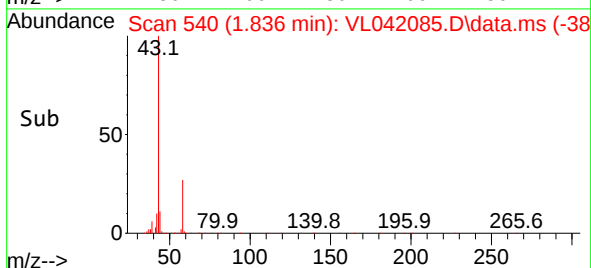
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

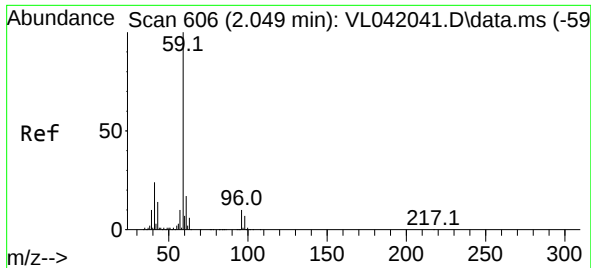


#15
Acetone
Concen: 3.001 ppbv
RT: 1.836 min Scan# 540
Delta R.T. -0.006 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28



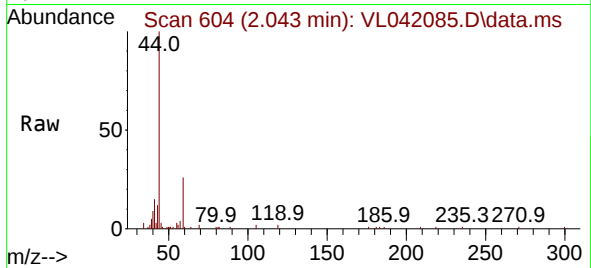
Tgt Ion: 43 Resp: 42438
Ion Ratio Lower Upper
43 100
58 33.1 20.7 31.1#





#17
tert-Butyl alcohol
Concen: 0.118 ppbv
RT: 2.043 min Scan# 606
Delta R.T. -0.006 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

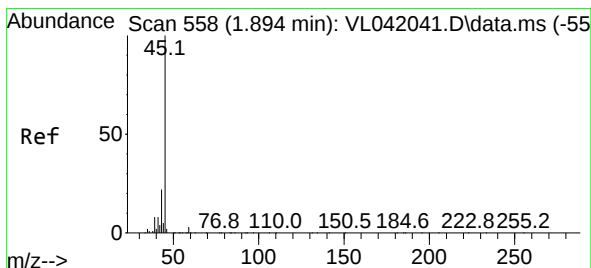
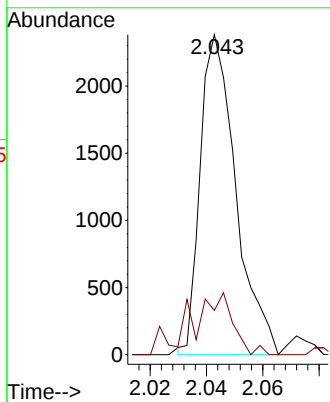
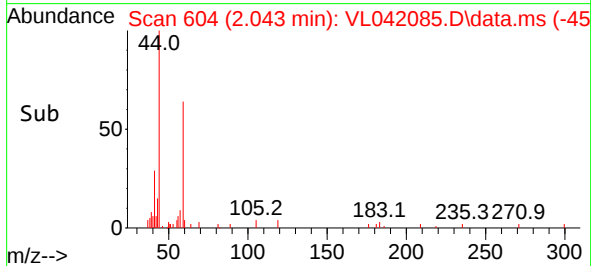
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 59 Resp: 2090
Ion Ratio Lower Upper
59 100
57 23.2 9.3 13.9

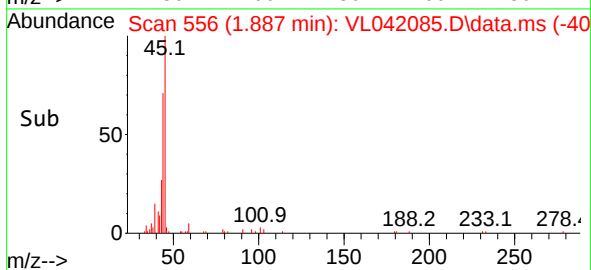
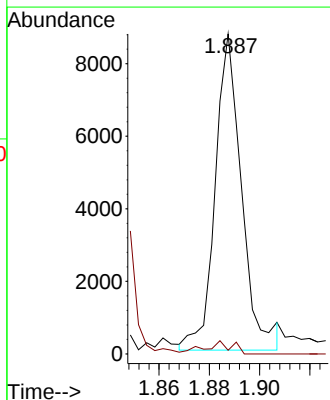
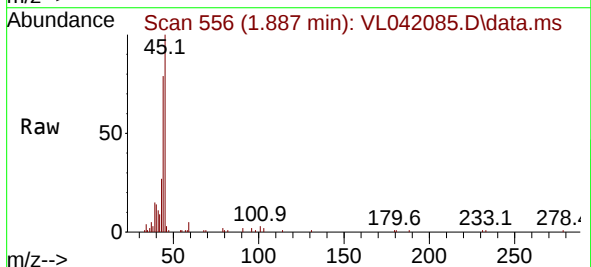
Manual Integrations
APPROVED

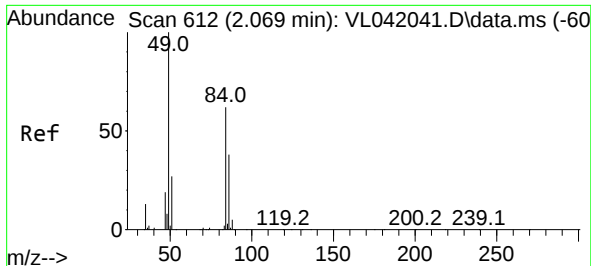
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#19
Isopropyl Alcohol
Concen: 0.784 ppbv m
RT: 1.887 min Scan# 556
Delta R.T. -0.006 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

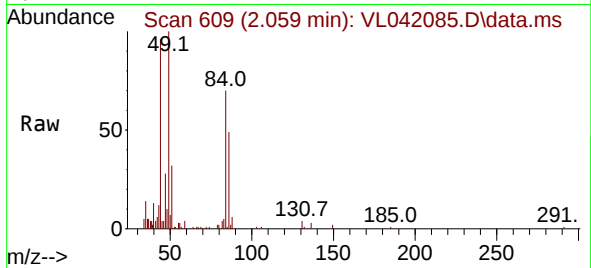
Tgt Ion: 45 Resp: 6368
Ion Ratio Lower Upper
45 100
58 221.0 35.3 52.9





#20
Methylene Chloride
Concen: 0.876 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

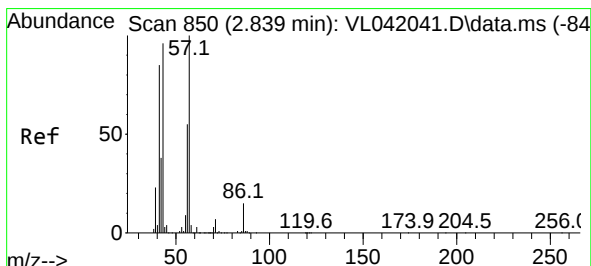
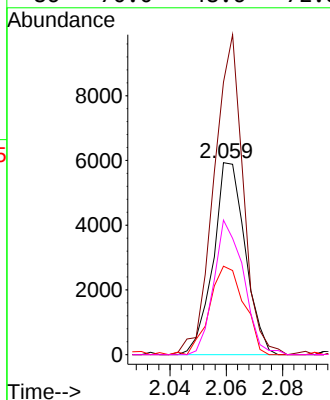
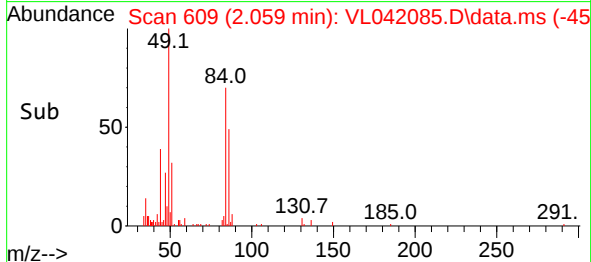
Instrument :
MSVOA_L
ClientSampleId :
SV1



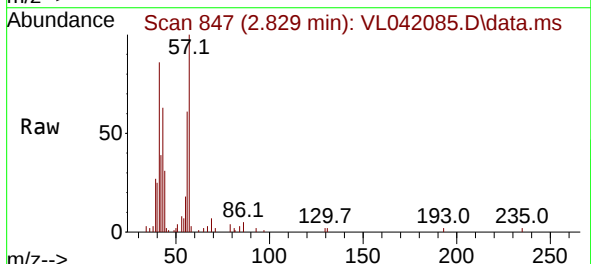
Tgt Ion: 84 Resp: 4683
Ion Ratio Lower Upper
84 100
49 140.7 130.0 195.0
51 46.1 37.4 56.0
86 70.0 48.6 72.8

Manual Integrations
APPROVED

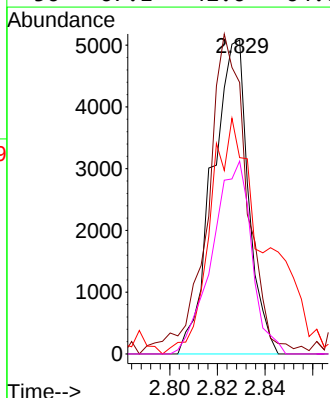
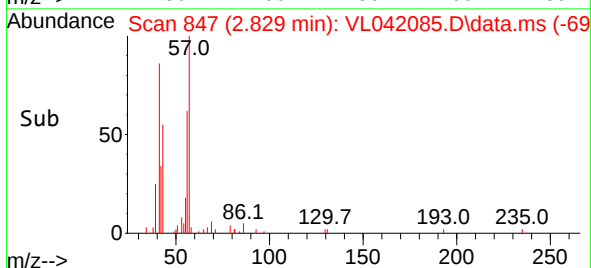
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

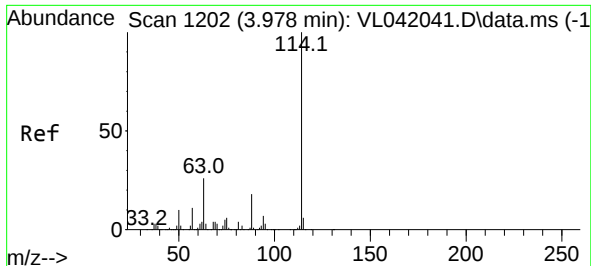


#26
Hexane
Concen: 0.233 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.010 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28



Tgt Ion: 57 Resp: 5333
Ion Ratio Lower Upper
57 100
41 117.0 70.6 106.0#
43 119.4 199.4 299.0#
56 67.1 42.6 64.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.023 min

Lab File: VL042085.D

Acq: 03 Mar 2025 19:28

Instrument :

MSVOA_L

ClientSampleId :

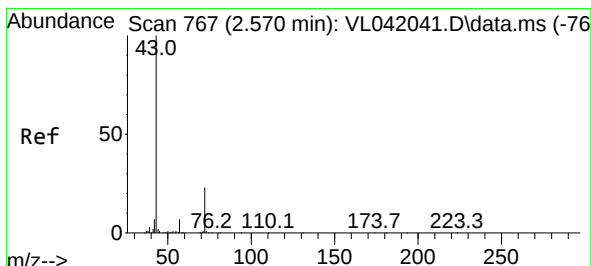
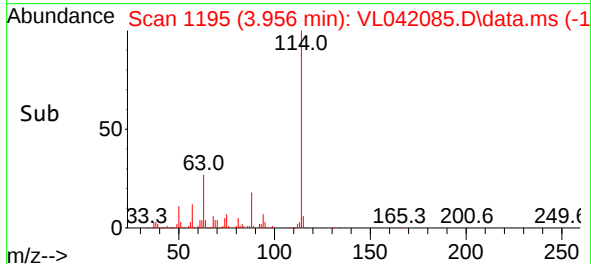
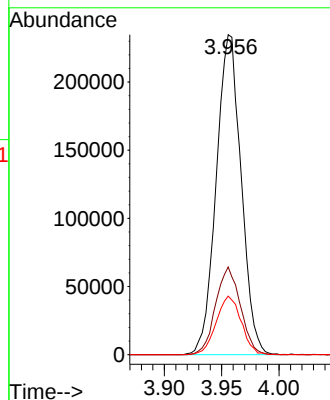
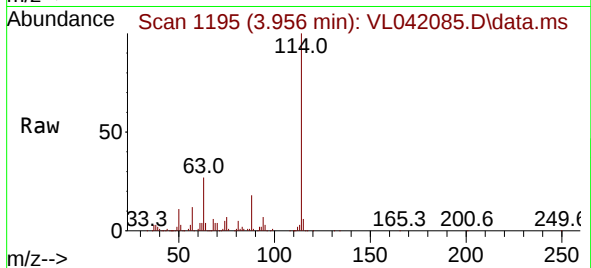
SV1

Tgt Ion:114 Resp: 354609
 Ion Ratio Lower Upper
 114 100
 63 27.3 20.1 30.1
 88 18.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025



#34

2-Butanone

Concen: 2.852 ppbv

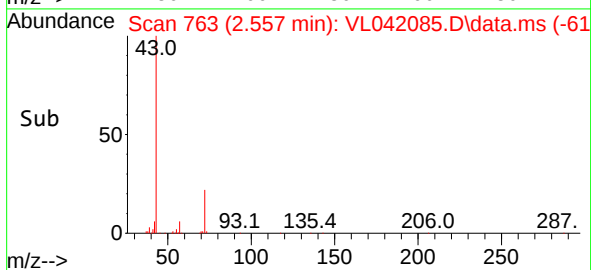
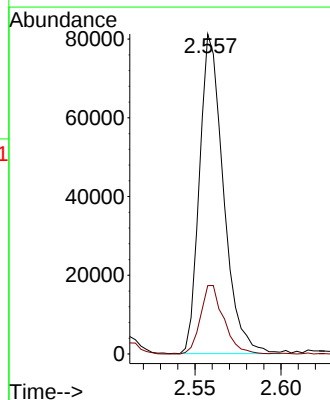
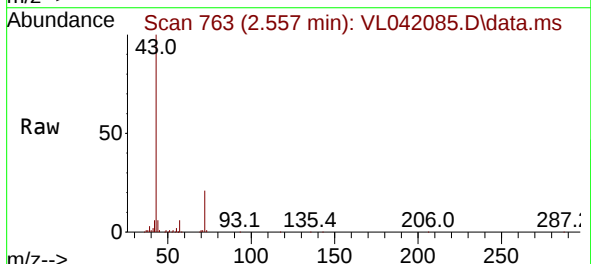
RT: 2.557 min Scan# 763

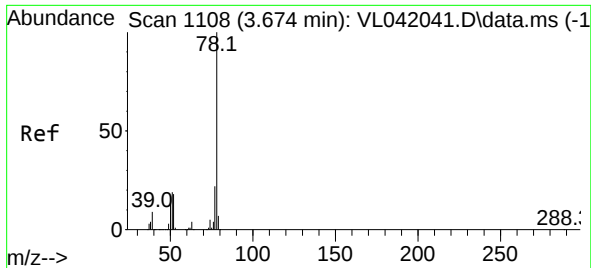
Delta R.T. -0.013 min

Lab File: VL042085.D

Acq: 03 Mar 2025 19:28

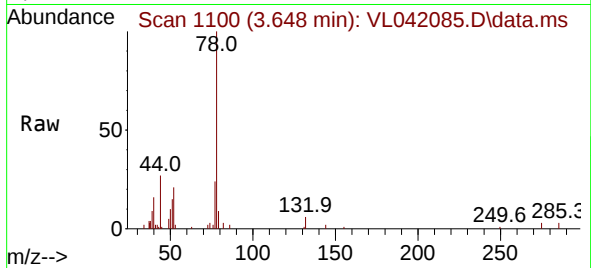
Tgt Ion: 43 Resp: 78799
 Ion Ratio Lower Upper
 43 100
 72 21.1 18.5 27.7





#36
Benzene
Concen: 0.185 ppbv m
RT: 3.648 min Scan# 1108
Delta R.T. -0.026 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

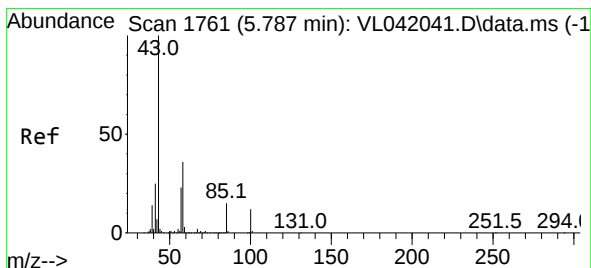
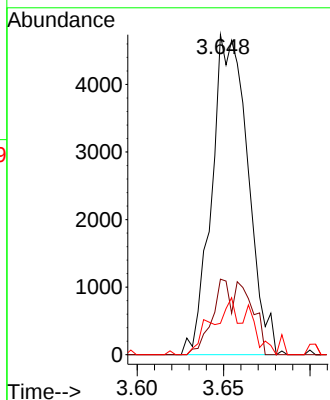
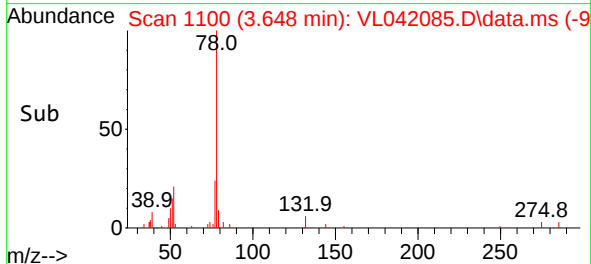
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 78 Resp: 6870
Ion Ratio Lower Upper
78 100
77 23.6 17.7 26.5
50 9.8 13.9 20.9

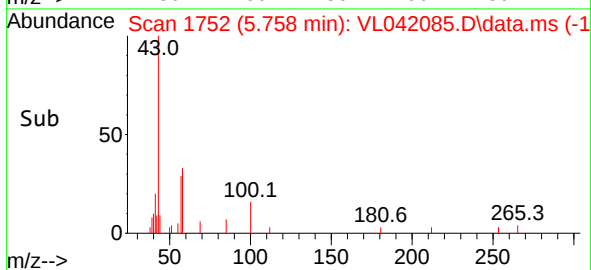
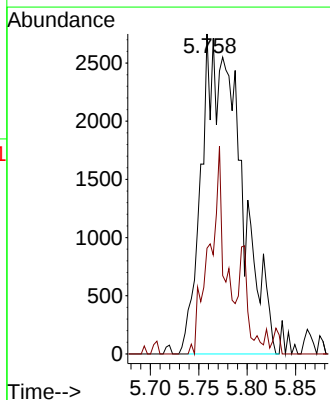
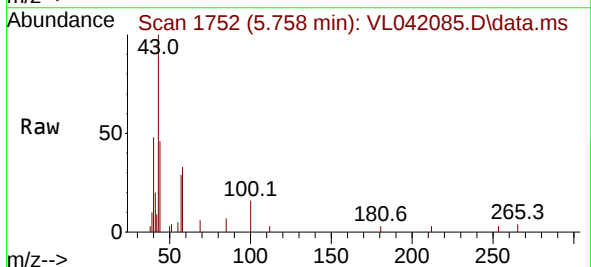
Manual Integrations
APPROVED

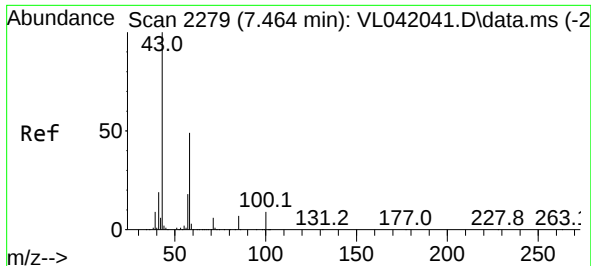
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#50
4-Methyl-2-Pentanone
Concen: 0.217 ppbv m
RT: 5.758 min Scan# 1752
Delta R.T. -0.029 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion: 43 Resp: 7765
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9





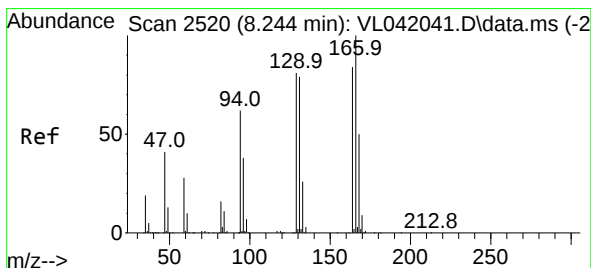
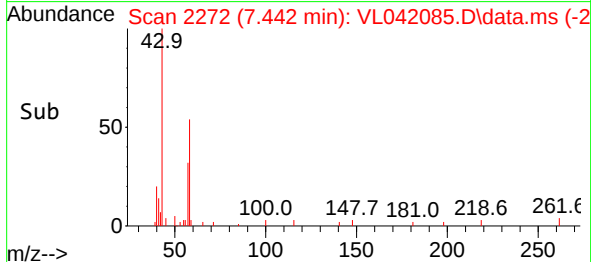
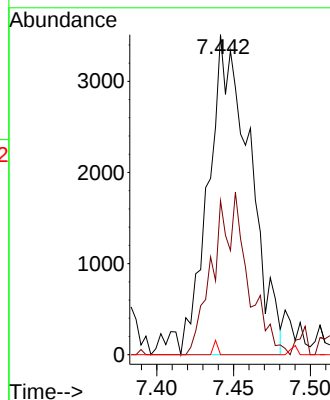
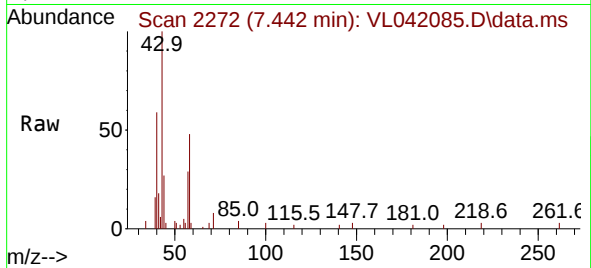
#51
2-Hexanone
Concen: 0.268 ppbv m
RT: 7.442 min Scan# 2114
Delta R.T. -0.023 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 6585
Ion Ratio Lower Upper
43 100
58 0.0 39.0 58.6
98 0.0 0.1 0.1

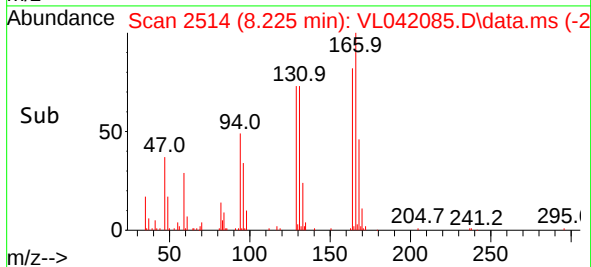
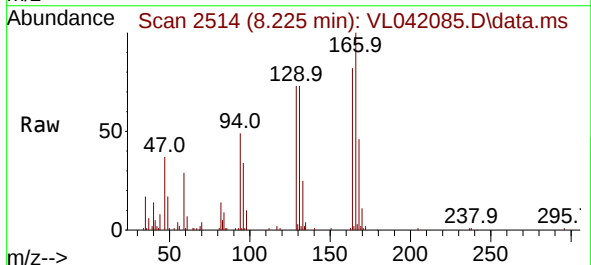
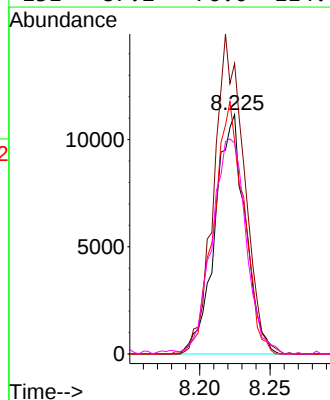
Manual Integrations
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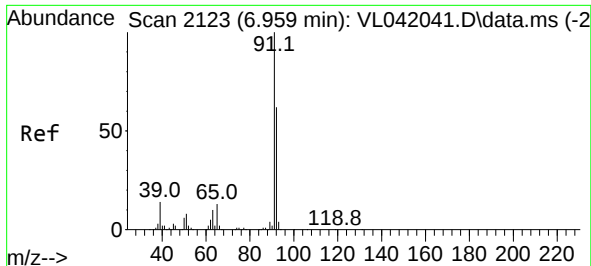
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#52
Tetrachloroethene
Concen: 1.321 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. -0.019 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

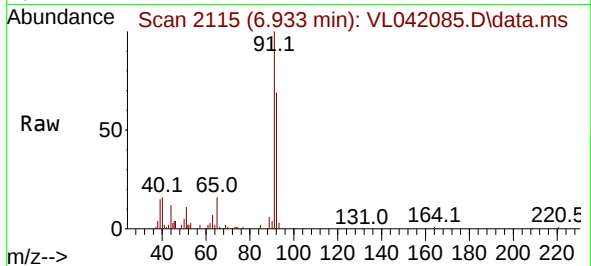
Tgt Ion:164 Resp: 16785
Ion Ratio Lower Upper
164 100
166 121.4 95.7 143.5
129 88.8 77.1 115.7
131 87.2 76.0 114.0





#53
Toluene
Concen: 0.660 ppbv m
RT: 6.933 min Scan# 2115
Delta R.T. -0.026 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

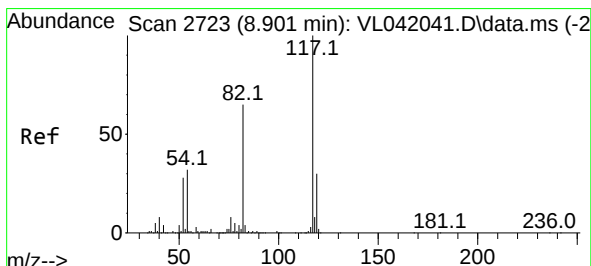
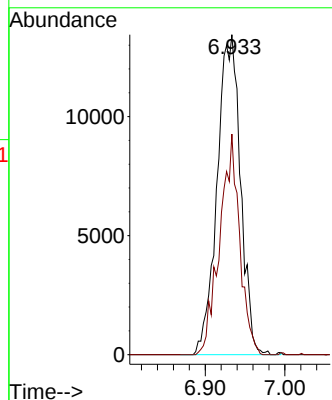
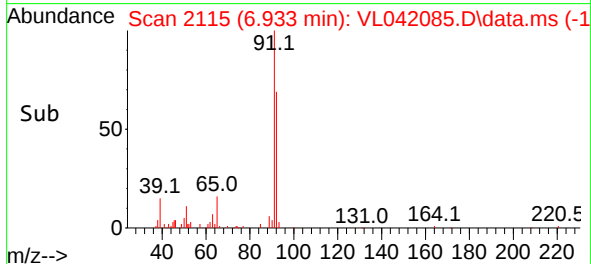
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 2738
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6

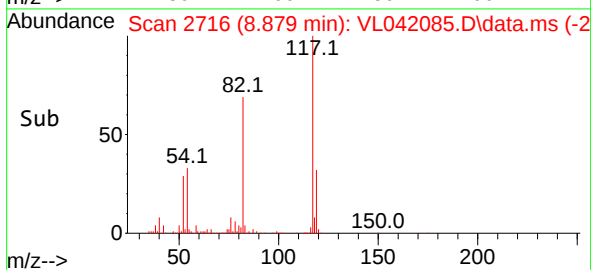
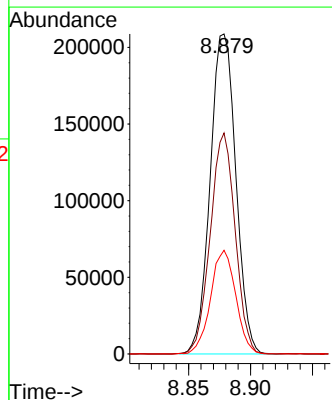
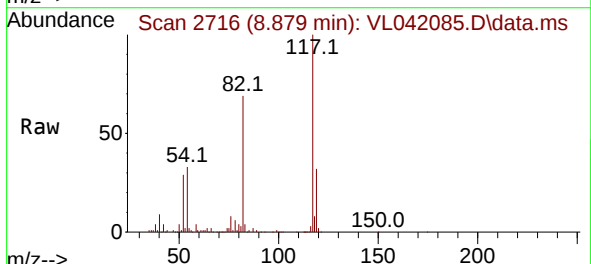
Manual Integrations
APPROVED

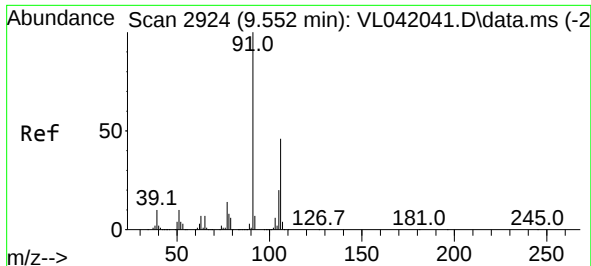
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. -0.023 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion:117 Resp: 302162
Ion Ratio Lower Upper
117 100
82 66.8 55.0 82.6
119 31.8 25.9 38.9





#59

m/p-Xylene

Concen: 0.305 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042085.D

Acq: 03 Mar 2025 19:28

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 13524

Ion Ratio Lower Upper

91 100

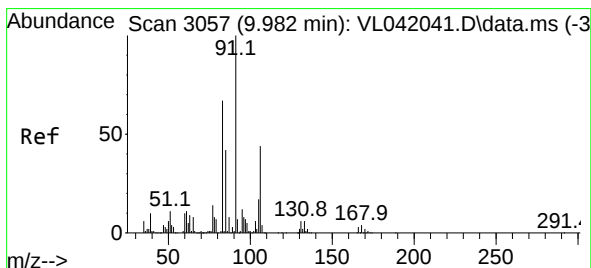
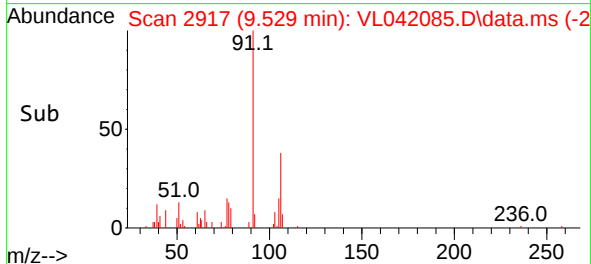
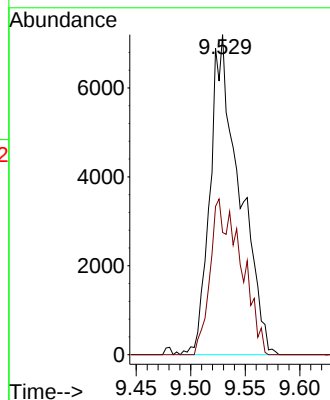
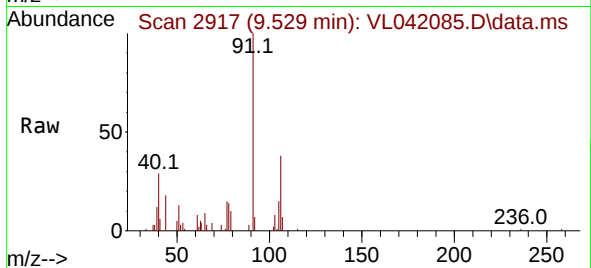
106 51.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025

Supervised By :Mahesh Dadoda 03/05/2025



#60

o-Xylene

Concen: 0.122 ppbv m

RT: 9.960 min Scan# 3050

Delta R.T. -0.023 min

Lab File: VL042085.D

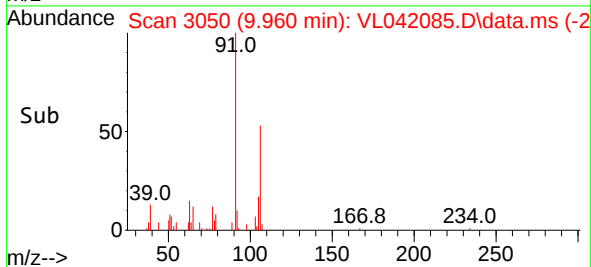
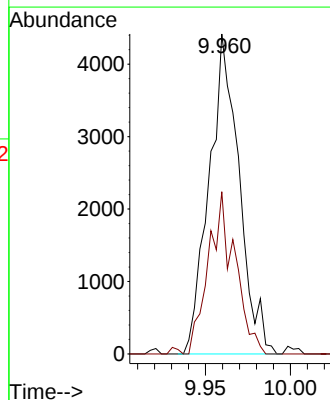
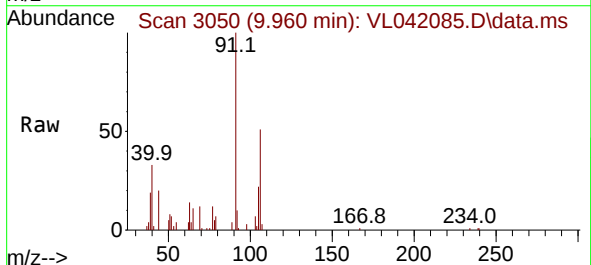
Acq: 03 Mar 2025 19:28

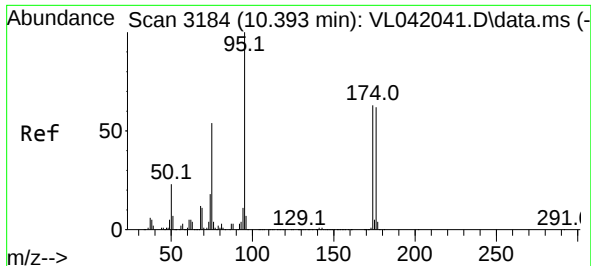
Tgt Ion: 91 Resp: 5424

Ion Ratio Lower Upper

91 100

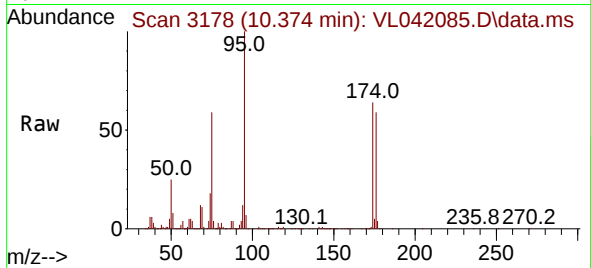
106 45.3 22.3 66.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.833 ppbv
RT: 10.374 min Scan# 3184
Delta R.T. -0.019 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

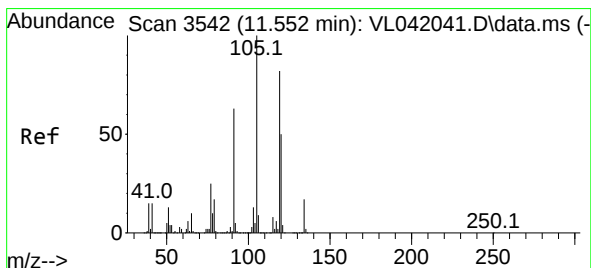
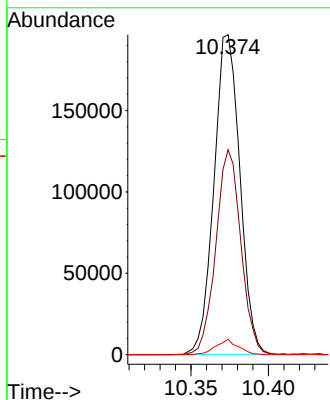
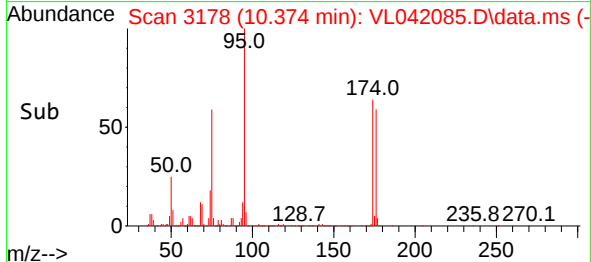
Instrument :
MSVOA_L
ClientSampleId :
SV1



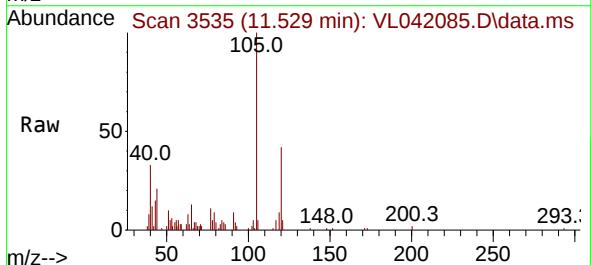
Tgt Ion: 95 Resp: 228590
Ion Ratio Lower Upper
95 100
174 62.1 51.8 77.6
175 4.2 3.9 5.9

Manual Integrations
APPROVED

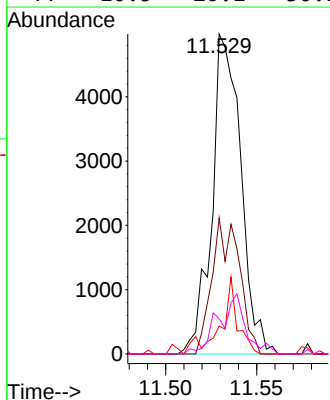
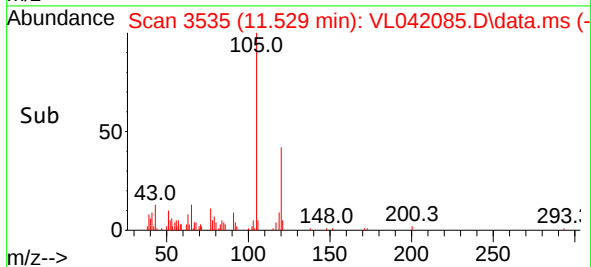
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.103 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.023 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28



Tgt Ion:105 Resp: 5489
Ion Ratio Lower Upper
105 100
120 40.4 40.2 60.2
91 8.3 51.4 77.2#
77 10.5 20.1 30.1#



Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV2	SDG No.:	Q1430
Lab Sample ID:	Q1430-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042081.D	4		03/03/25 17:24	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.39	0.81	U	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	U	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	U	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	1.10	3.33	J	2.30	6.06	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	12.1	28.7		2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	U	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	U	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	2.20	7.64		2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	15.9	46.9		1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	U	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.57	1.82	J	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.10	4.51	J	1.52	8.20	ug/m3
108-88-3	Toluene	2.10	7.91		1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV2	SDG No.:	Q1430
Lab Sample ID:	Q1430-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042081.D	4		03/03/25 17:24	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	1.70	11.5		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	0.84	3.65	U	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.48	2.08	U	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.31	1.52	U	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	UQ	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	U	2.36	9.83	ug/m3
110-54-3	Hexane	0.48	1.69	J	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	163000		2.787			
540-36-3	1,4-Difluorobenzene	365000		3.955			
3114-55-4	Chlorobenzene-d5	308000		8.878			

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV2	SDG No.:	Q1430
Lab Sample ID:	Q1430-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042081.D	4		03/03/25 17:24	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042081.D
 Acq On : 03 Mar 2025 17:24
 Operator : SY/MD
 Sample : Q1430-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:20:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	163018	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	364560	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	307983	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	232727	9.822	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	2256	0.133	ppbv #	86
9) Propene	1.483	41	4140	0.429	ppbv	99
13) Ethanol	1.722	45	40109	65.460	ppbv	90
15) Acetone	1.835	43	43625	3.030	ppbv #	78
17) tert-Butyl alcohol	2.046	59	4938	0.274	ppbv #	87
19) Isopropyl Alcohol	1.890	45	7366	0.891	ppbv #	1
20) Methylene Chloride	2.062	84	2944	0.541	ppbv #	88
26) Hexane	2.826	57	2777	0.119	ppbv #	46
34) 2-Butanone	2.560	43	112646	3.966	ppbv	93
36) Benzene	3.654	78	5456	0.143	ppbv #	84
50) 4-Methyl-2-Pentanone	5.768	43	10028m	0.273	ppbv	
51) 2-Hexanone	7.445	43	8237m	0.326	ppbv	
52) Tetrachloroethene	8.221	164	5658m	0.433	ppbv	
53) Toluene	6.936	91	21962m	0.515	ppbv	
59) m/p-Xylene	9.526	91	7868m	0.174	ppbv	

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

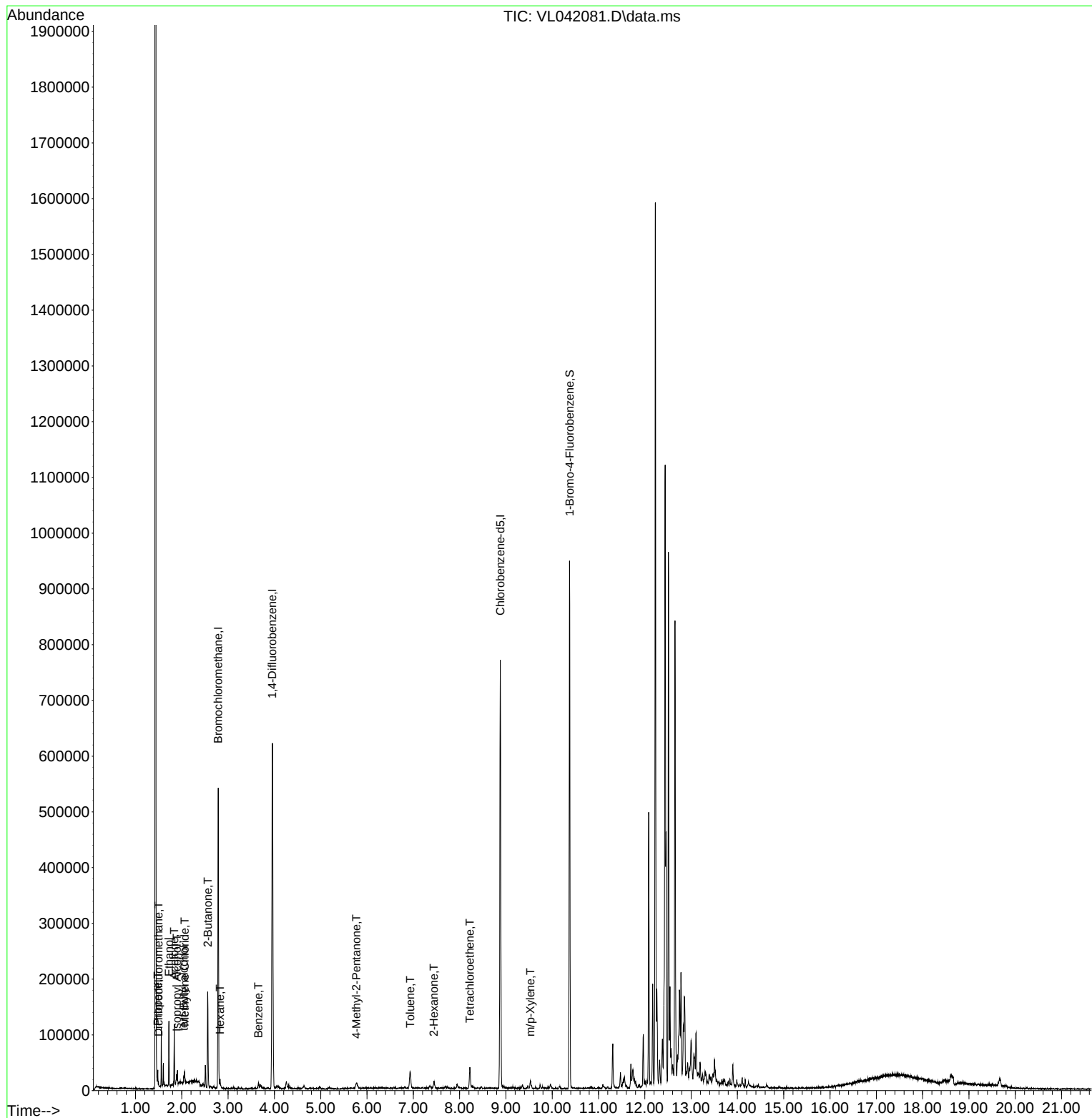
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042081.D
Acq On : 03 Mar 2025 17:24
Operator : SY/MD
Sample : Q1430-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

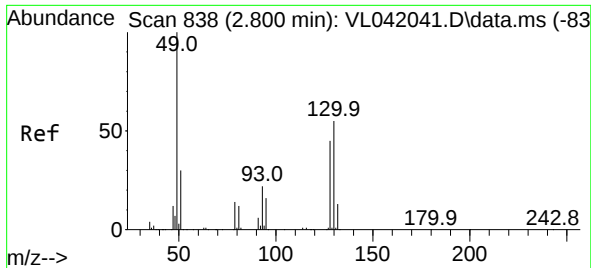
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Mar 04 00:20:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025





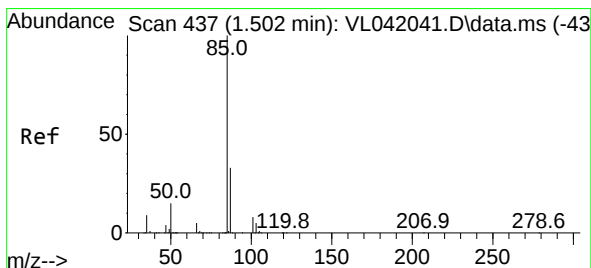
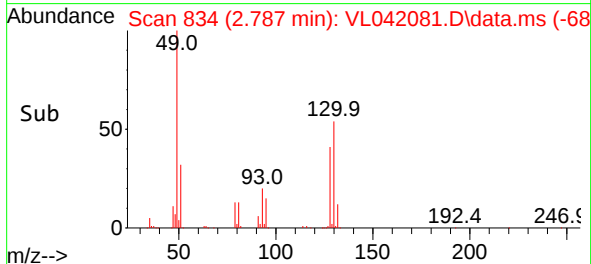
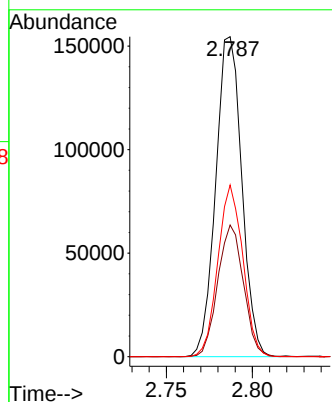
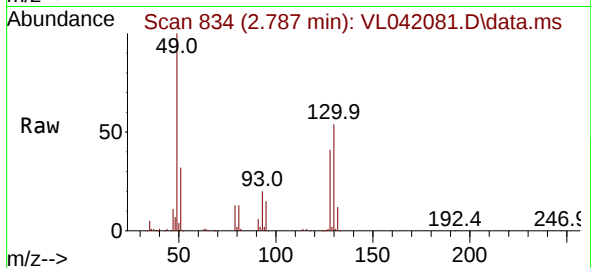
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 163018
Ion Ratio Lower Upper
49 100
128 40.5 21.6 64.8
130 51.3 27.8 83.4

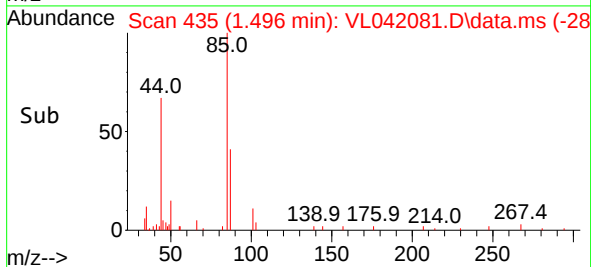
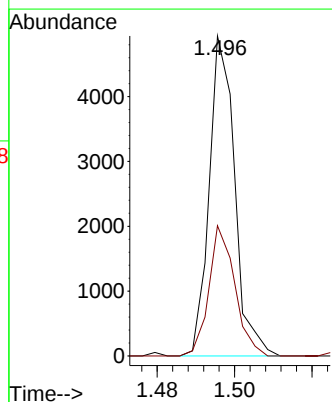
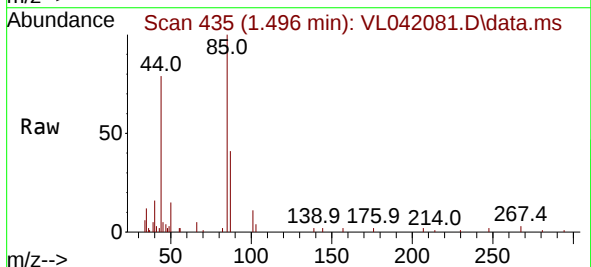
Manual Integrations
APPROVED

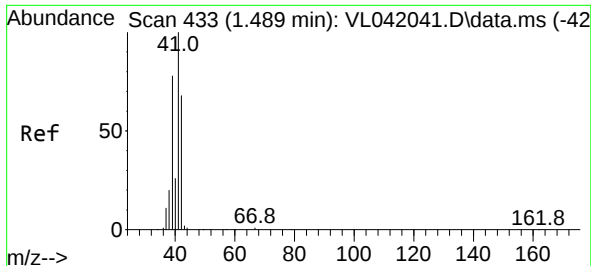
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#2
Dichlorodifluoromethane
Concen: 0.133 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.007 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

Tgt Ion: 85 Resp: 2256
Ion Ratio Lower Upper
85 100
87 40.7 26.4 39.6#





#9

Propene

Concen: 0.429 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.007 min

Lab File: VL042081.D

Acq: 03 Mar 2025 17:24

Instrument :

MSVOA_L

ClientSampleId :

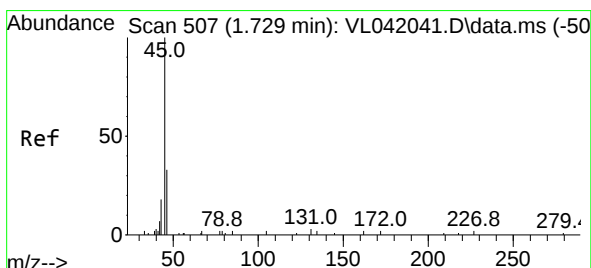
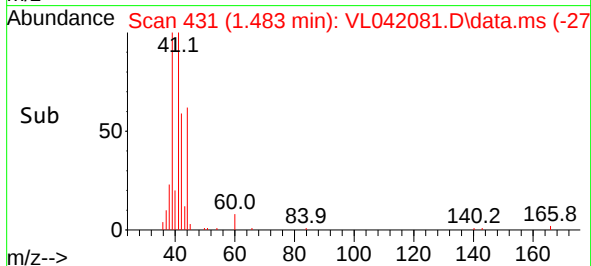
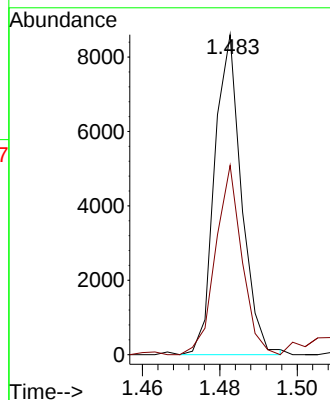
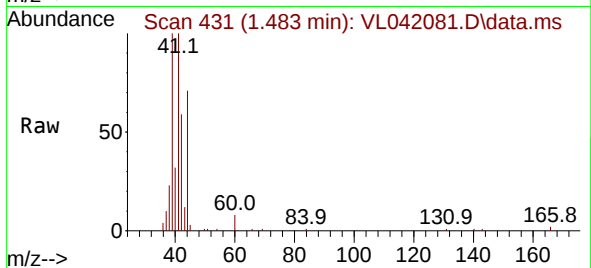
SV2

Tgt Ion: 41 Resp: 4140
 Ion Ratio Lower Upper
 41 100
 42 70.4 55.8 83.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025



#13

Ethanol

Concen: 65.460 ppbv

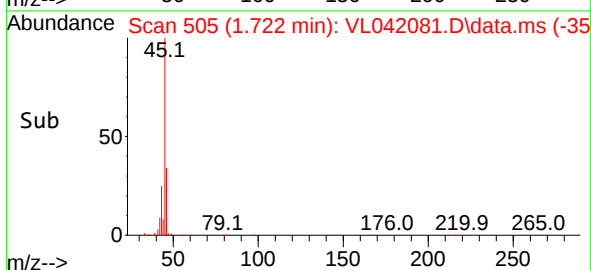
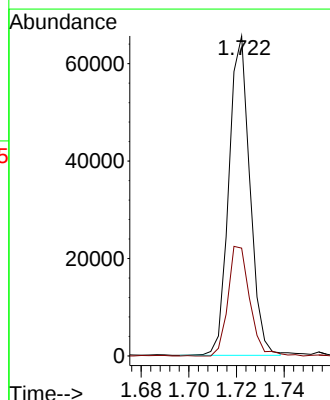
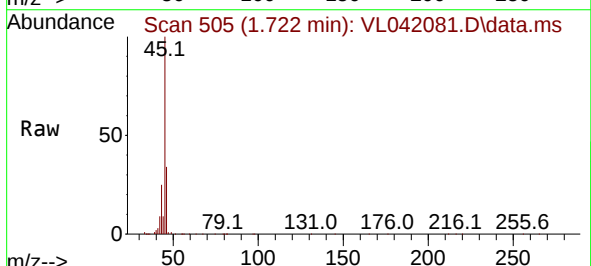
RT: 1.722 min Scan# 505

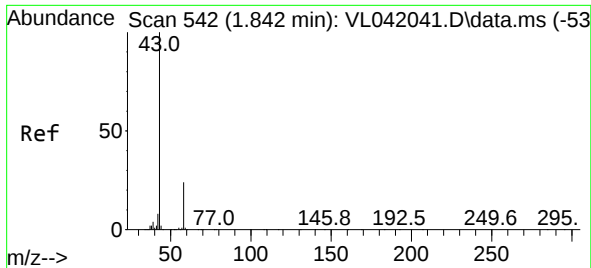
Delta R.T. -0.007 min

Lab File: VL042081.D

Acq: 03 Mar 2025 17:24

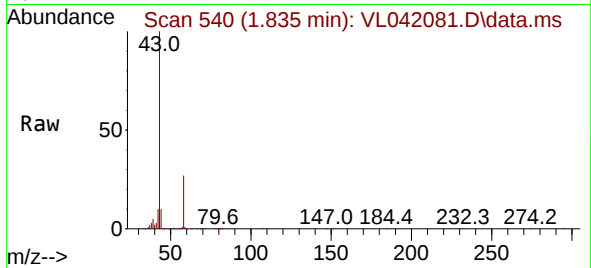
Tgt Ion: 45 Resp: 40109
 Ion Ratio Lower Upper
 45 100
 46 36.2 17.1 68.3





#15
Acetone
Concen: 3.030 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.007 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

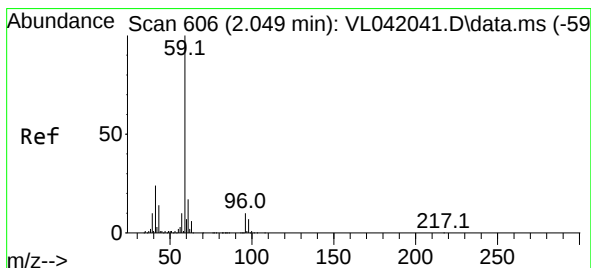
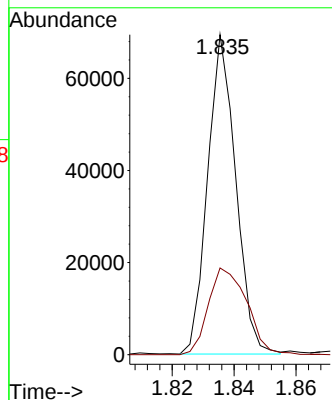
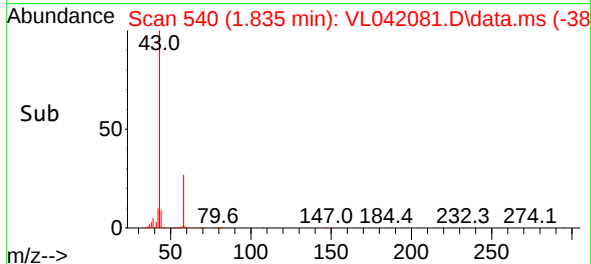
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 4362
Ion Ratio Lower Upper
43 100
58 37.2 20.7 31.1

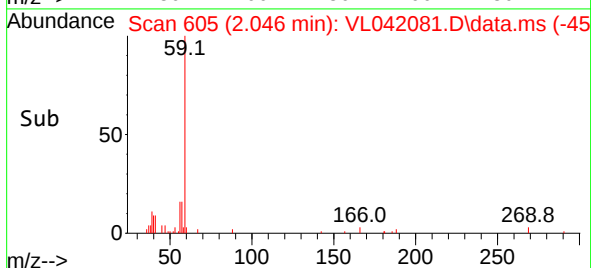
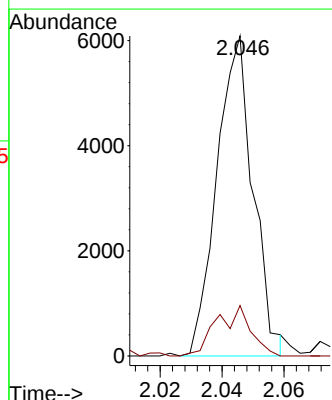
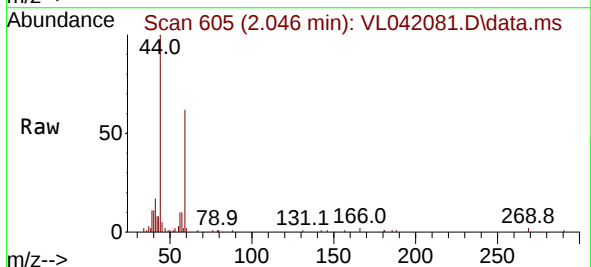
Manual Integrations
APPROVED

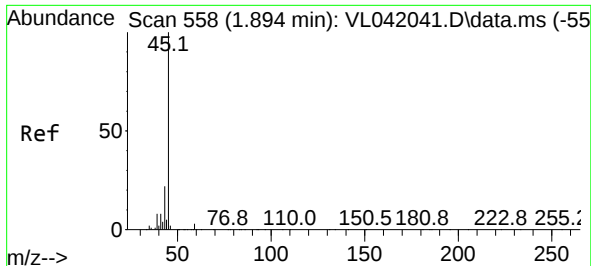
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#17
tert-Butyl alcohol
Concen: 0.274 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.003 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

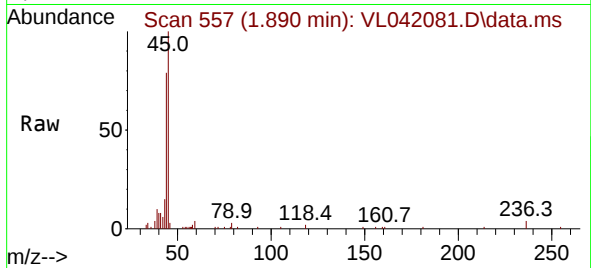
Tgt Ion: 59 Resp: 4938
Ion Ratio Lower Upper
59 100
57 16.7 9.3 13.9





#19
Isopropyl Alcohol
Concen: 0.891 ppbv
RT: 1.890 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

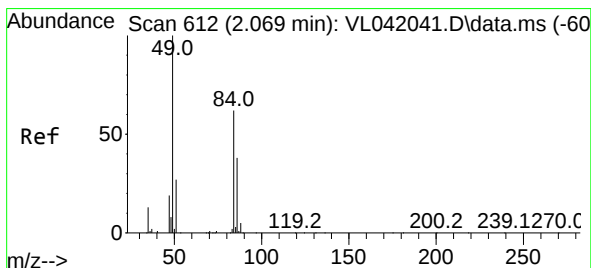
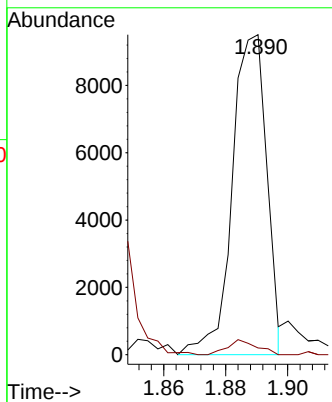
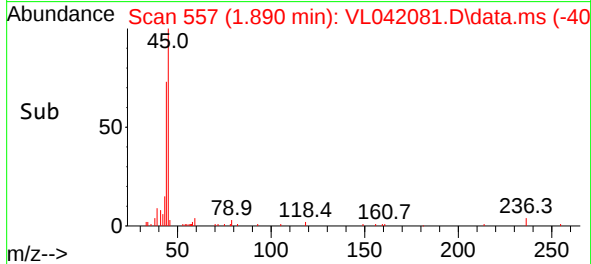
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 45 Resp: 7360
Ion Ratio Lower Upper
45 100
58 220.4 35.3 52.9

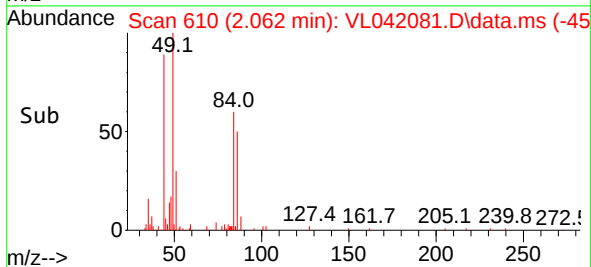
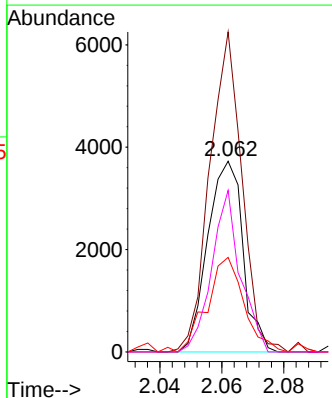
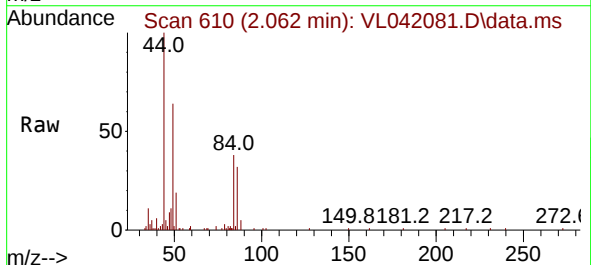
Manual Integrations
APPROVED

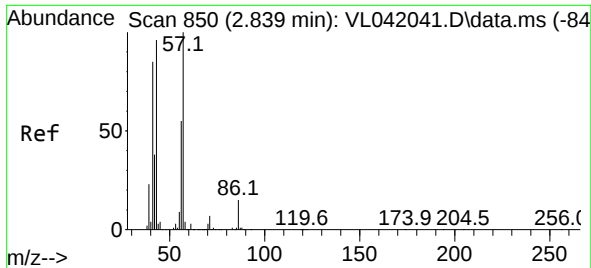
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#20
Methylene Chloride
Concen: 0.541 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.007 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

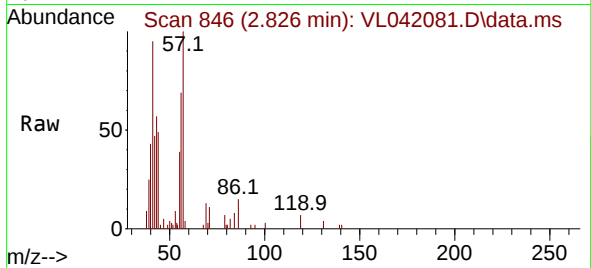
Tgt Ion: 84 Resp: 2944
Ion Ratio Lower Upper
84 100
49 171.1 130.0 195.0
51 49.6 37.4 56.0
86 84.7 48.6 72.8





#26
Hexane
Concen: 0.119 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

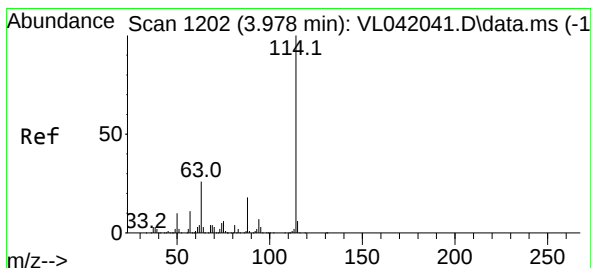
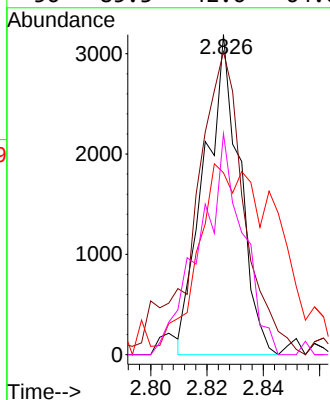
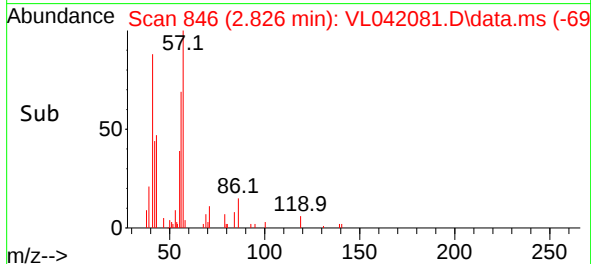
Instrument :
MSVOA_L
ClientSampleId :
SV2



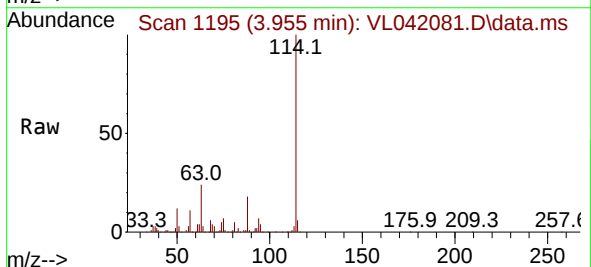
Tgt Ion: 57 Resp: 277
Ion Ratio Lower Upper
57 100
41 141.8 70.6 106.0
43 153.0 199.4 299.0
56 85.3 42.6 64.0

Manual Integrations
APPROVED

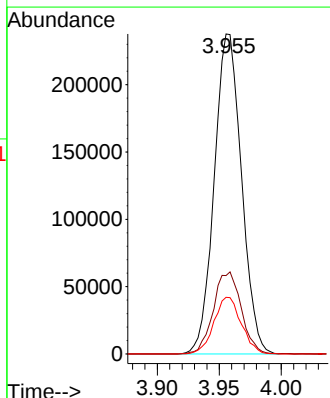
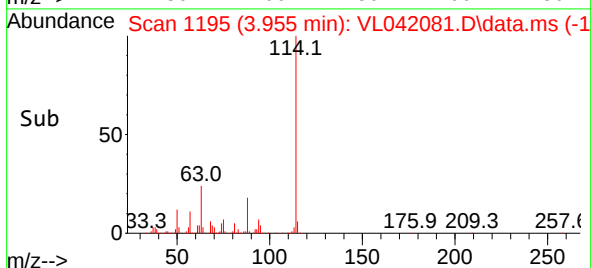
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

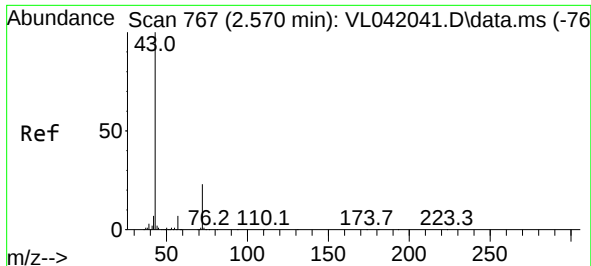


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.023 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24



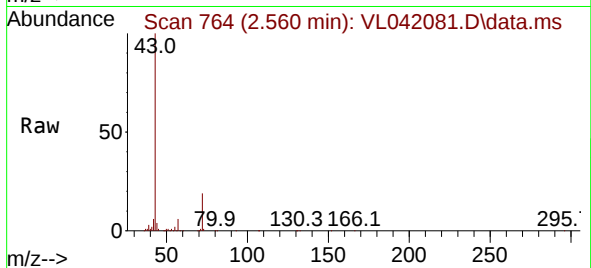
Tgt Ion:114 Resp: 364560
Ion Ratio Lower Upper
114 100
63 26.3 20.1 30.1
88 17.8 14.3 21.5





#34
2-Butanone
Concen: 3.966 ppbv
RT: 2.560 min Scan# 71
Delta R.T. -0.010 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

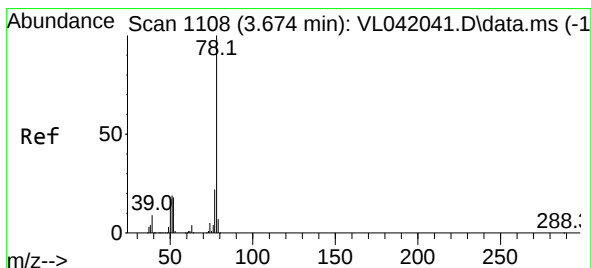
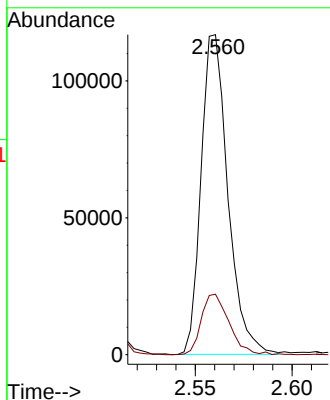
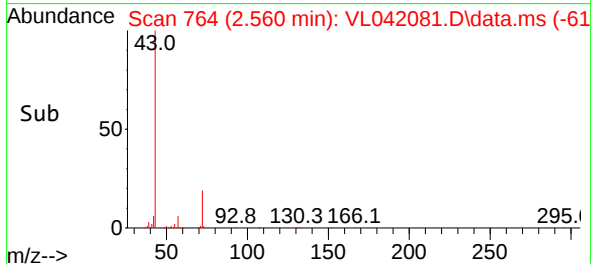
Instrument :
MSVOA_L
ClientSampleId :
SV2



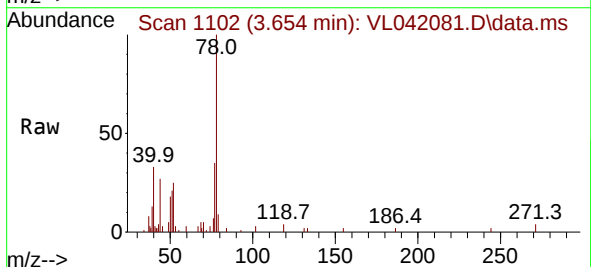
Tgt Ion: 43 Resp: 112640
Ion Ratio Lower Upper
43 100
72 19.6 18.5 27.7

Manual Integrations
APPROVED

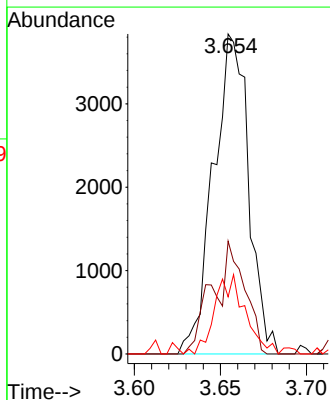
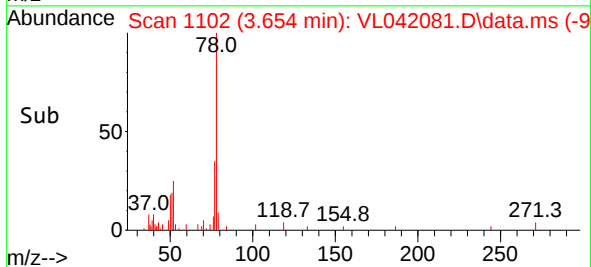
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

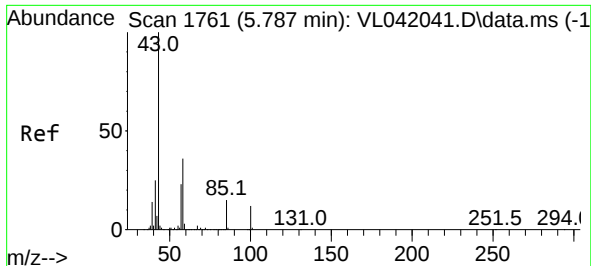


#36
Benzene
Concen: 0.143 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.020 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24



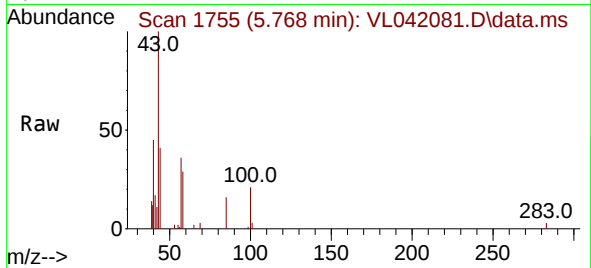
Tgt Ion: 78 Resp: 5456
Ion Ratio Lower Upper
78 100
77 35.3 17.7 26.5#
50 17.8 13.9 20.9





#50
4-Methyl-2-Pentanone
Concen: 0.273 ppbv m
RT: 5.768 min Scan# 1755
Delta R.T. -0.019 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

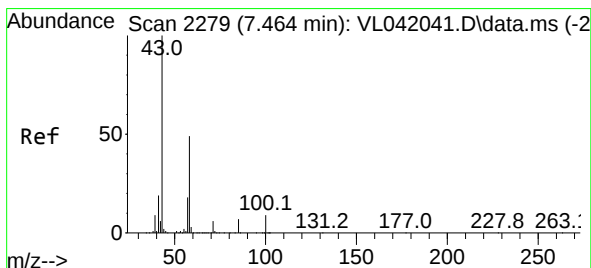
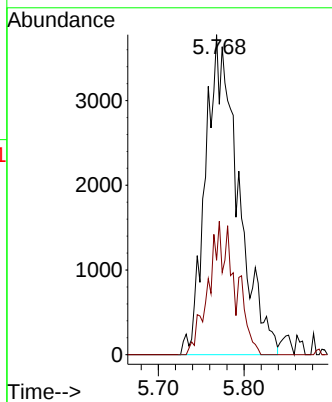
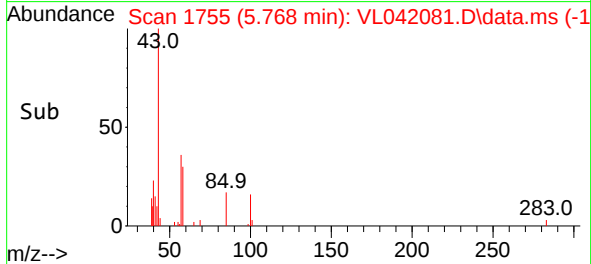
Instrument :
MSVOA_L
ClientSampleId :
SV2



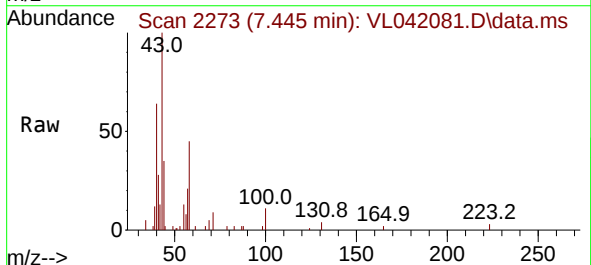
Tgt Ion: 43 Resp: 10028
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9#

Manual Integrations
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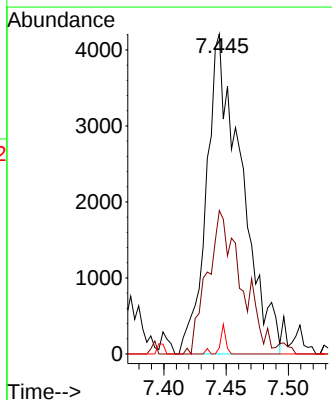
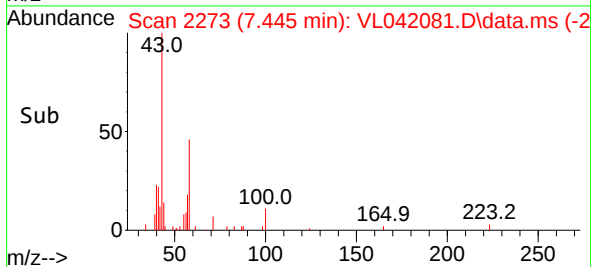
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

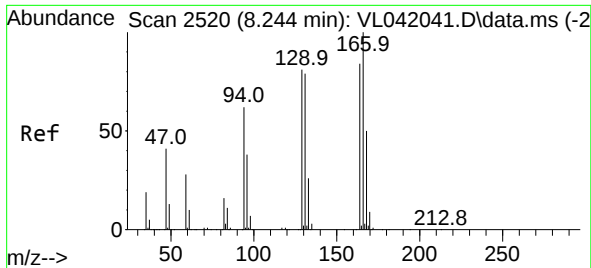


#51
2-Hexanone
Concen: 0.326 ppbv m
RT: 7.445 min Scan# 2273
Delta R.T. -0.020 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24



Tgt Ion: 43 Resp: 8237
Ion Ratio Lower Upper
43 100
58 0.0 39.0 58.6#
98 0.6 0.1 0.1#





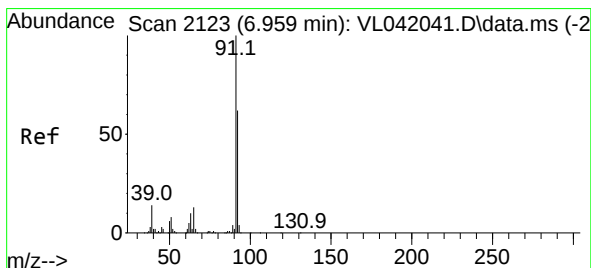
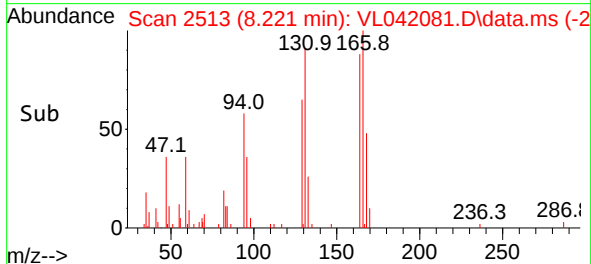
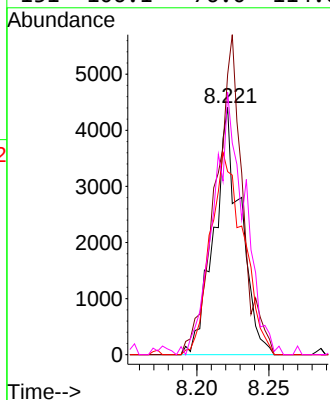
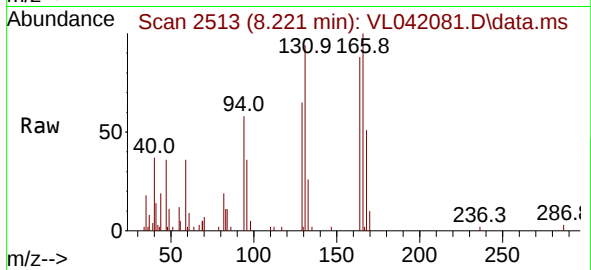
#52
Tetrachloroethene
Concen: 0.433 ppbv m
RT: 8.221 min Scan# 2116
Delta R.T. -0.023 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:164 Resp: 565
Ion Ratio Lower Upper
164 100
166 113.3 95.7 143.5
129 74.0 77.1 115.7
131 106.1 76.0 114.0

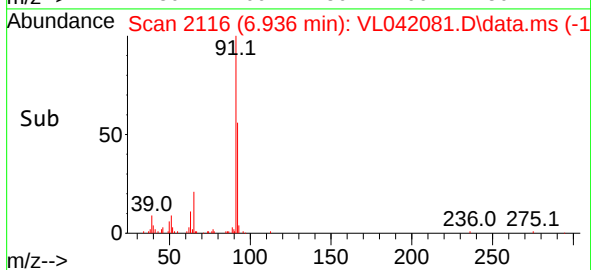
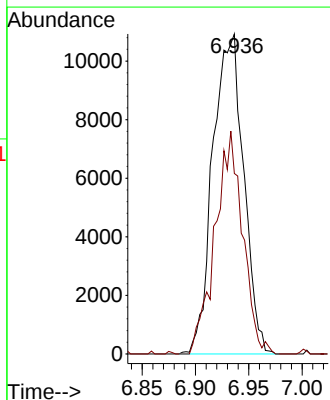
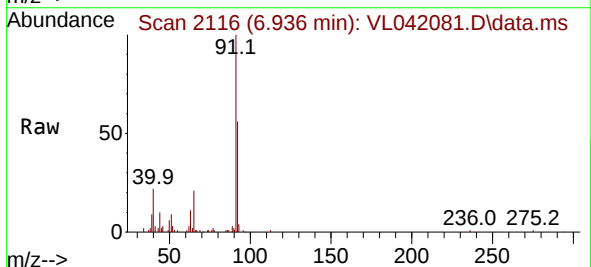
Manual Integrations
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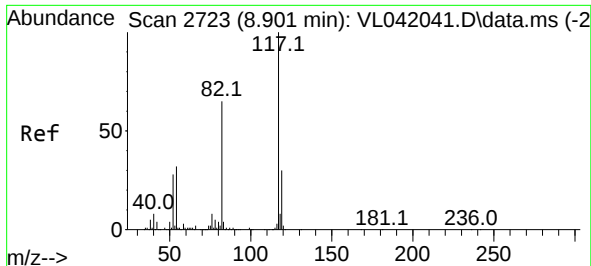
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#53
Toluene
Concen: 0.515 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. -0.023 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

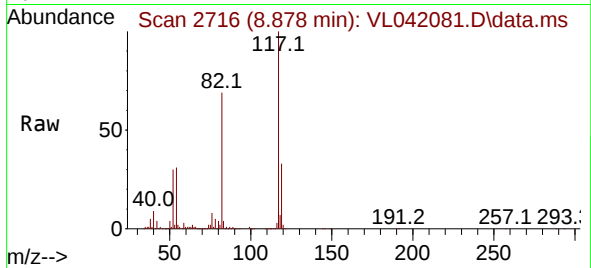
Tgt Ion: 91 Resp: 21962
Ion Ratio Lower Upper
91 100
92 62.2 49.0 73.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.023 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

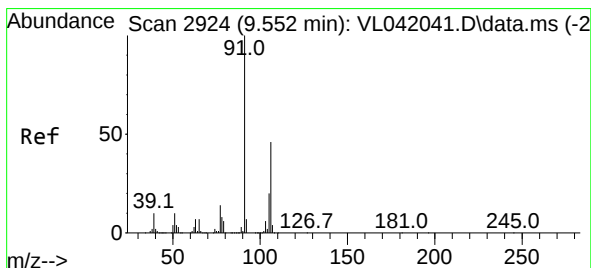
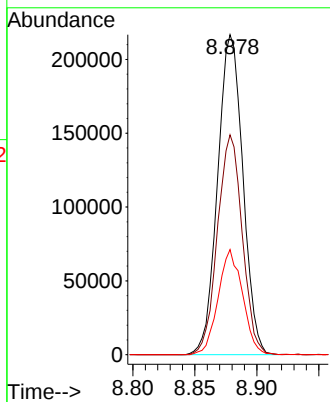
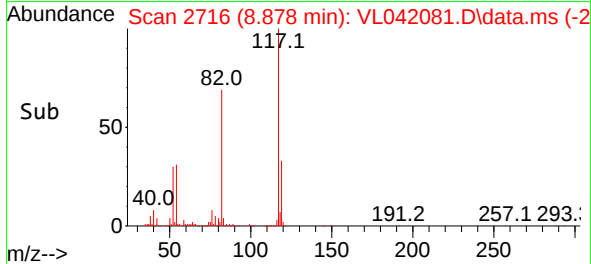
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:117 Resp: 30798
Ion Ratio Lower Upper
117 100
82 67.4 55.0 82.6
119 31.8 25.9 38.9

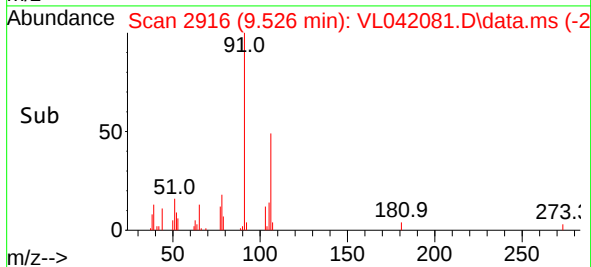
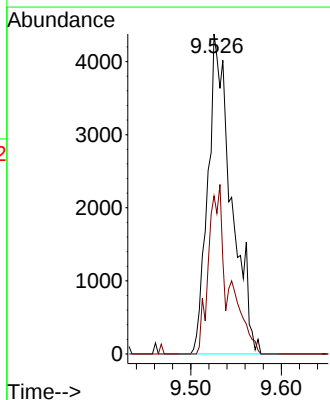
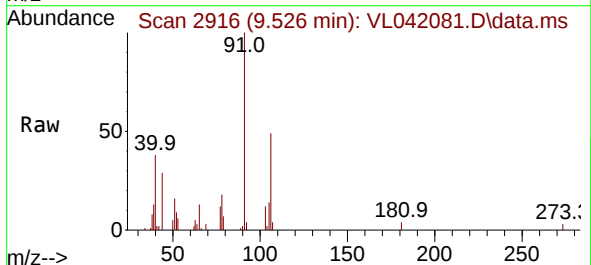
Manual Integrations
APPROVED

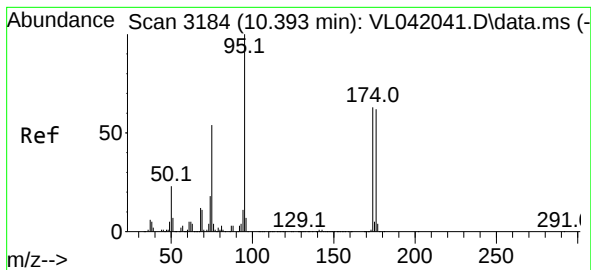
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#59
m/p-Xylene
Concen: 0.174 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042081.D
Acq: 03 Mar 2025 17:24

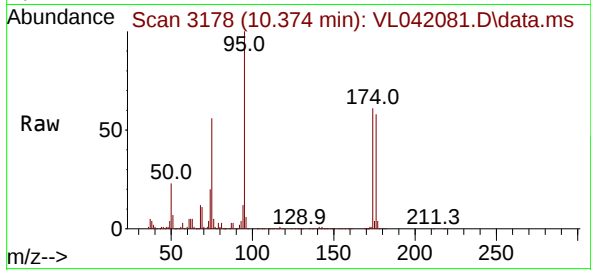
Tgt Ion: 91 Resp: 7868
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.822 ppbv
 RT: 10.374 min Scan# 31
 Delta R.T. -0.019 min
 Lab File: VL042081.D
 Acq: 03 Mar 2025 17:24

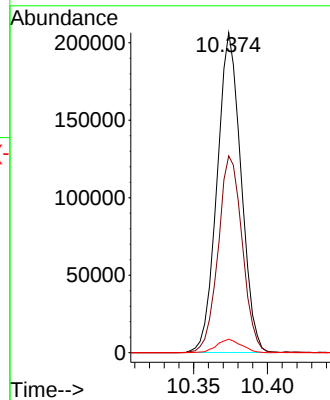
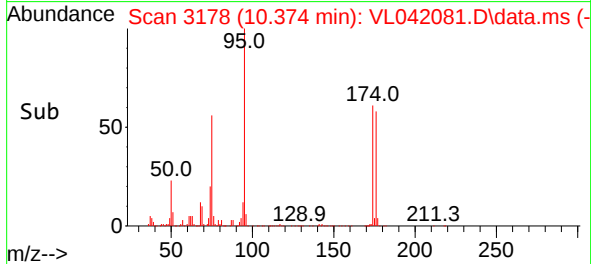
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 95 Resp: 23272
 Ion Ratio Lower Upper
 95 100
 174 62.2 51.8 77.6
 175 4.4 3.9 5.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV3	SDG No.:	Q1430
Lab Sample ID:	Q1430-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042079.D	4		03/03/25 16:23	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.39	0.81	U	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	U	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	U	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	1.20	3.64	J	2.30	6.06	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	7.90	18.8		2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	U	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	U	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	1.00	3.47	J	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	14.5	42.8		1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	U	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.35	1.12	U	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.37	1.52	U	1.52	8.20	ug/m3
108-88-3	Toluene	1.20	4.52	J	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV3	SDG No.:	Q1430
Lab Sample ID:	Q1430-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042079.D	4		03/03/25 16:23	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	2.10	14.2		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	0.84	3.65	U	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.48	2.08	U	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.31	1.52	U	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	UQ	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	U	2.36	9.83	ug/m3
110-54-3	Hexane	0.44	1.55	U	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	161000		2.787			
540-36-3	1,4-Difluorobenzene	360000		3.959			
3114-55-4	Chlorobenzene-d5	302000		8.878			

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV3	SDG No.:	Q1430
Lab Sample ID:	Q1430-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042079.D	4		03/03/25 16:23	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	---------------	----------------	-----------	-----	------------	-------

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042079.D
 Acq On : 03 Mar 2025 16:23
 Operator : SY/MD
 Sample : Q1430-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:19:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	161283	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	360438	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	301876	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	230887	9.941	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2670	0.159	ppbv	94
9) Propene	1.483	41	4602	0.482	ppbv	99
13) Ethanol	1.722	45	2409m	3.974	ppbv	
15) Acetone	1.836	43	28261	1.984	ppbv #	66
17) tert-Butyl alcohol	2.043	59	5467	0.307	ppbv #	87
19) Isopropyl Alcohol	1.887	45	3291	0.402	ppbv #	1
20) Methylene Chloride	2.062	84	1402	0.260	ppbv	95
34) 2-Butanone	2.557	43	101561	3.617	ppbv	95
51) 2-Hexanone	7.441	43	9897m	0.396	ppbv	
52) Tetrachloroethene	8.225	164	6663	0.516	ppbv #	87
53) Toluene	6.930	91	12131	0.288	ppbv	96

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

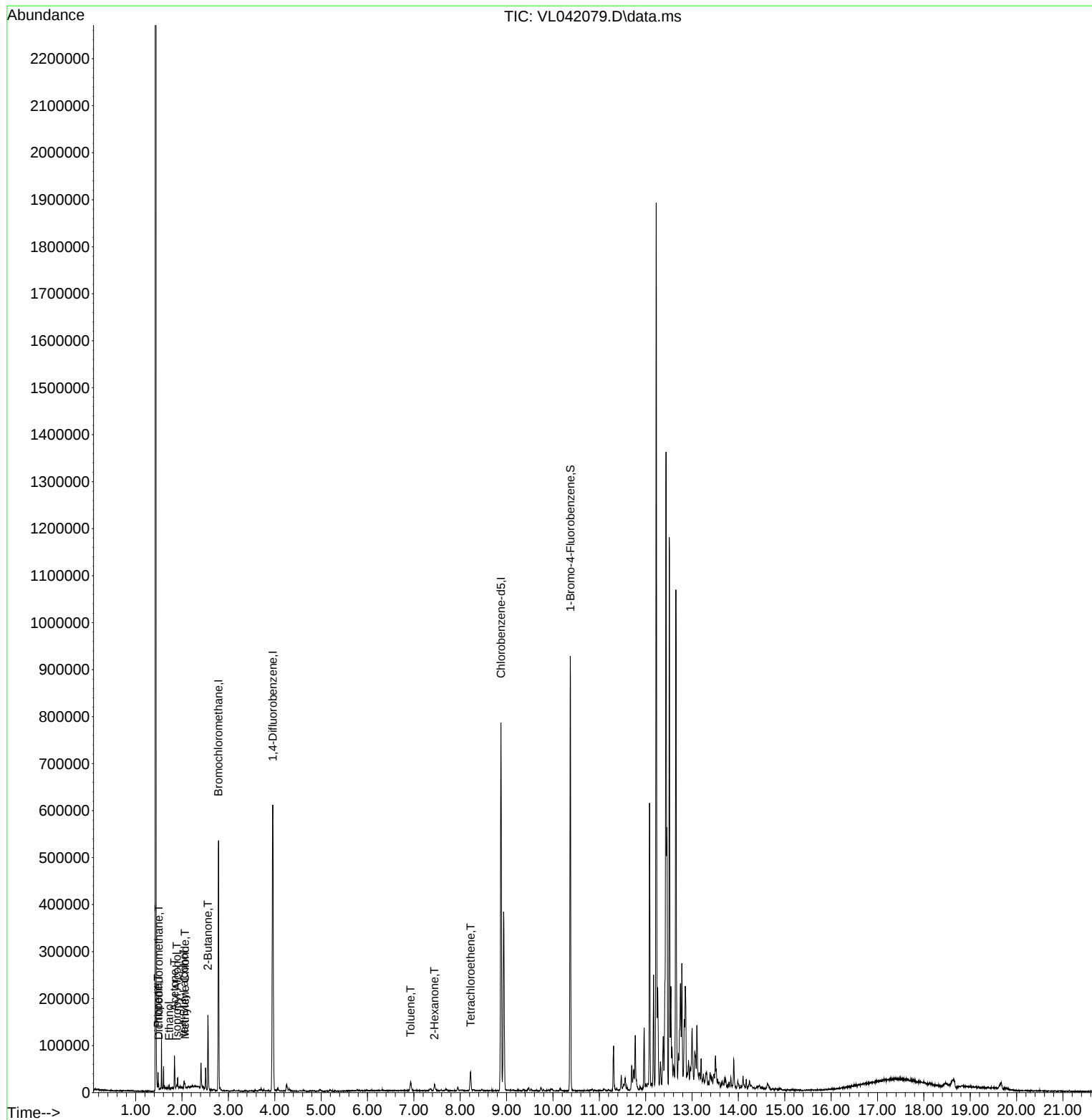
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Data File : VL042079.D
Acq On : 03 Mar 2025 16:23
Operator : SY/MD
Sample : Q1430-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

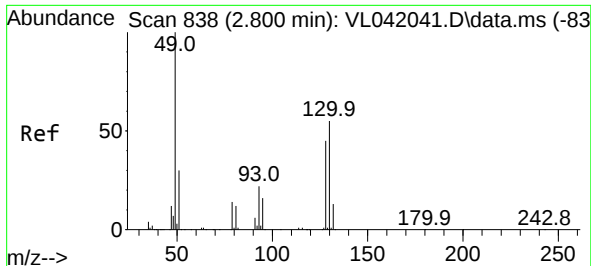
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Mar 04 00:19:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

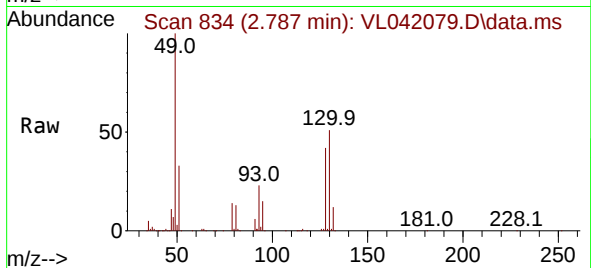
Reviewed By : Semsettin Yesilyurt 03/04/2025
Supervised By : Mahesh Dadoda 03/05/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

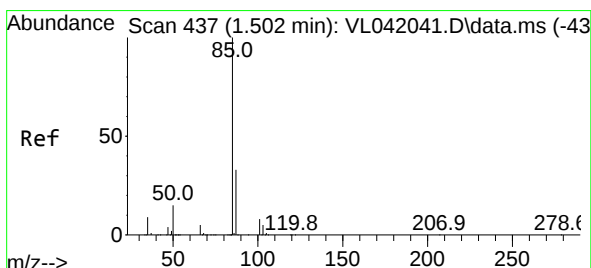
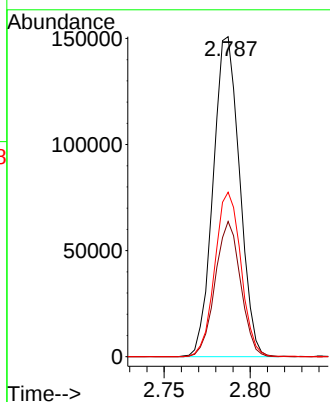
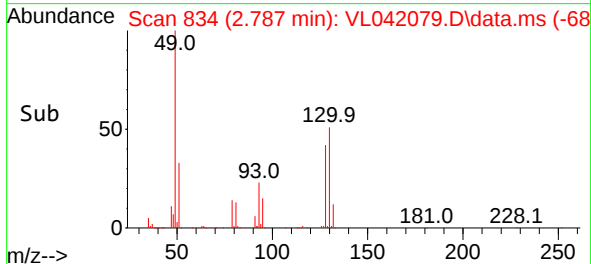
Instrument :
MSVOA_L
ClientSampleId :
SV3



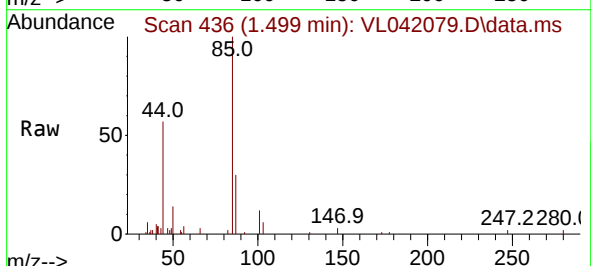
Tgt Ion: 49 Resp: 16128
Ion Ratio Lower Upper
49 100
128 40.6 21.6 64.8
130 50.8 27.8 83.4

Manual Integrations
APPROVED

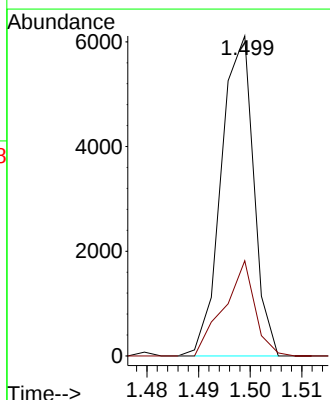
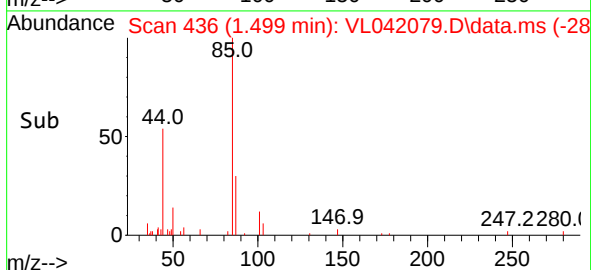
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

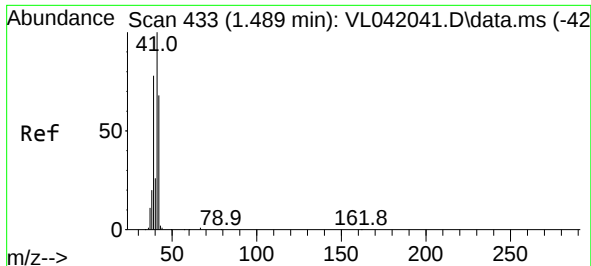


#2
Dichlorodifluoromethane
Concen: 0.159 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23



Tgt Ion: 85 Resp: 2670
Ion Ratio Lower Upper
85 100
87 29.8 26.4 39.6





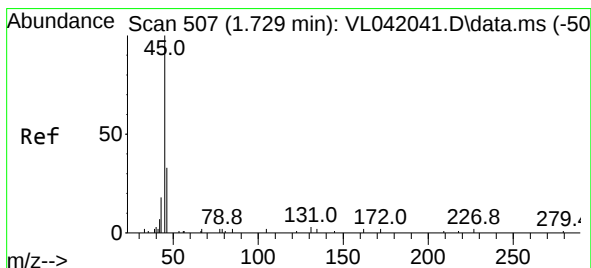
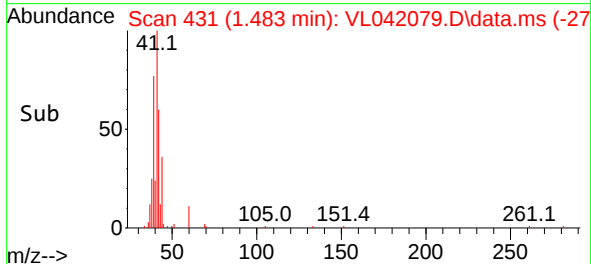
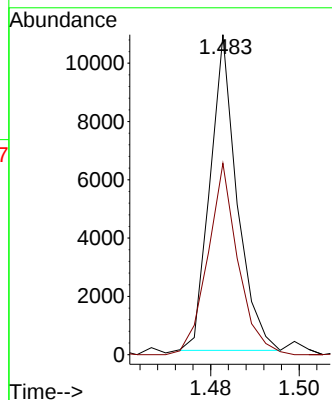
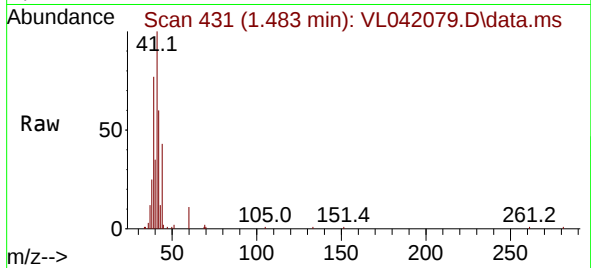
#9
 Propene
 Concen: 0.482 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Tgt Ion: 41 Resp: 460
 Ion Ratio Lower Upper
 41 100
 42 68.7 55.8 83.6

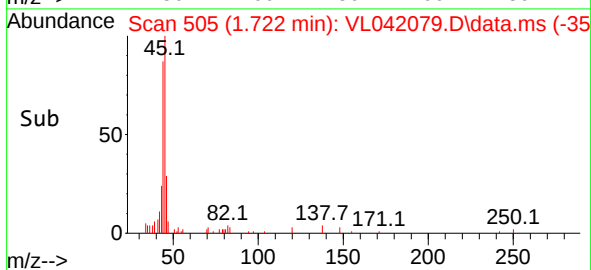
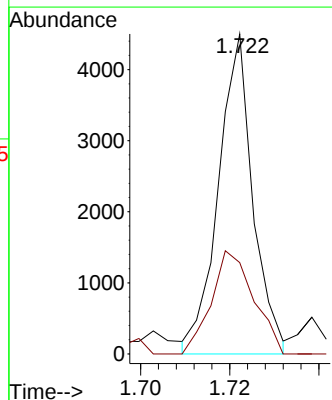
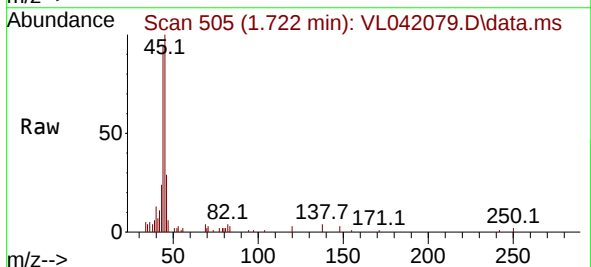
Manual Integrations
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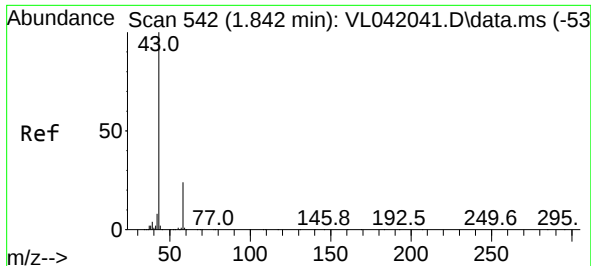
Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025



#13
 Ethanol
 Concen: 3.974 ppbv m
 RT: 1.722 min Scan# 505
 Delta R.T. -0.006 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

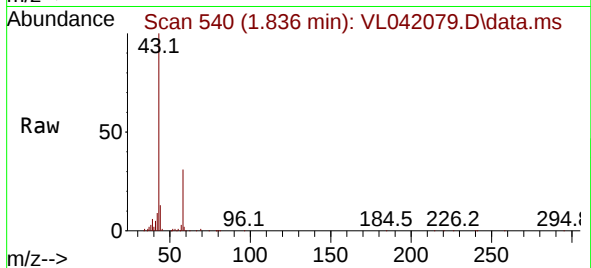
Tgt Ion: 45 Resp: 2409
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.1 68.3#





#15
Acetone
Concen: 1.984 ppbv
RT: 1.836 min Scan# 54
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

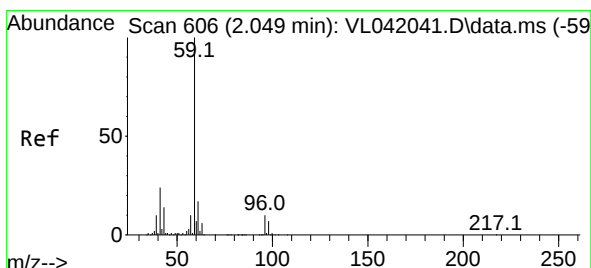
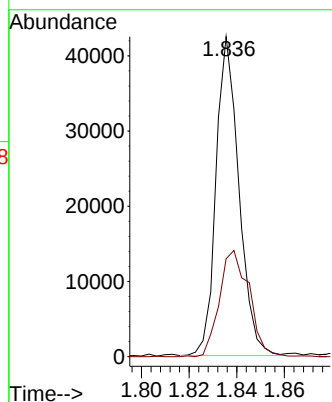
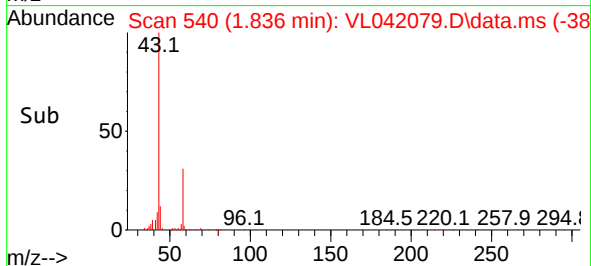
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 43 Resp: 2826
Ion Ratio Lower Upper
43 100
58 43.4 20.7 31.1

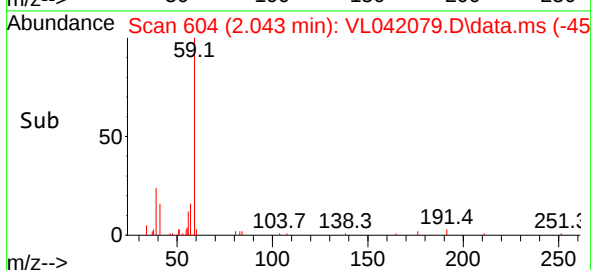
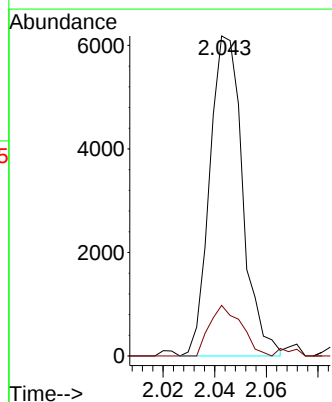
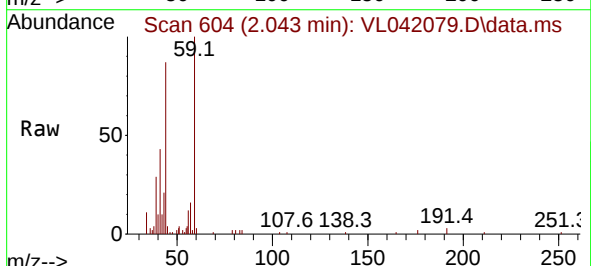
Manual Integrations
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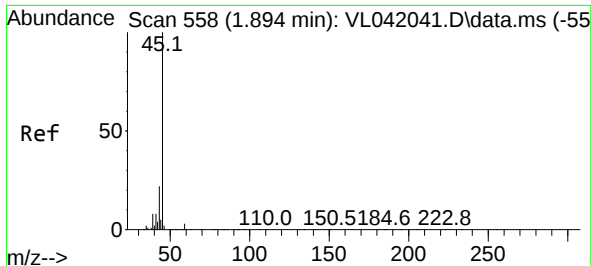
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#17
tert-Butyl alcohol
Concen: 0.307 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion: 59 Resp: 5467
Ion Ratio Lower Upper
59 100
57 16.6 9.3 13.9





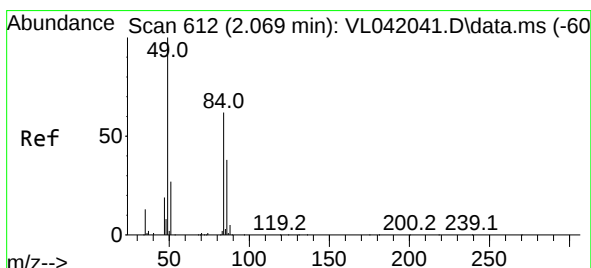
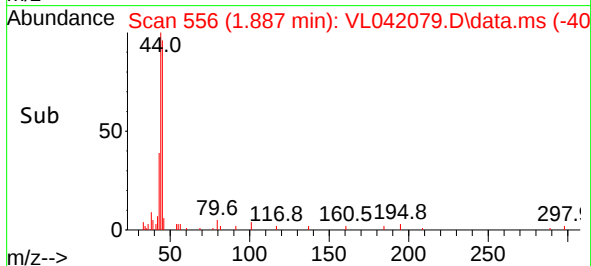
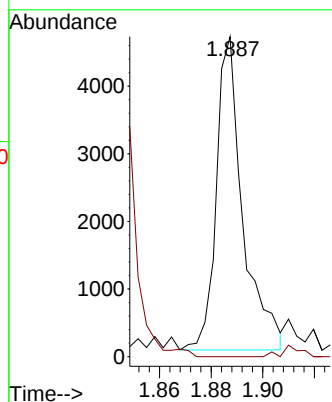
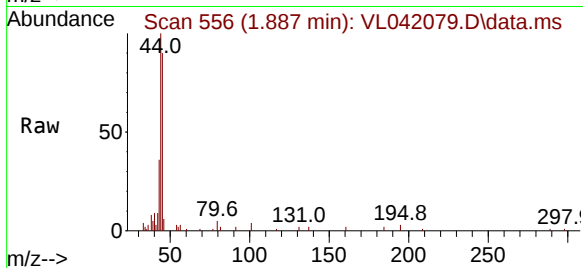
#19
Isopropyl Alcohol
Concen: 0.402 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 45 Resp: 329
Ion Ratio Lower Upper
45 100
58 373.2 35.3 52.9

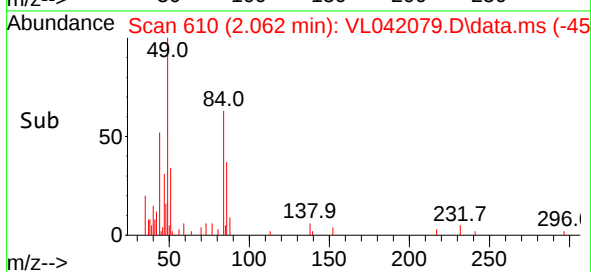
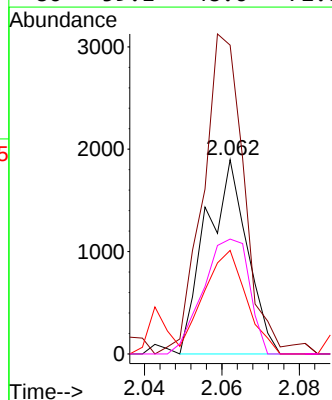
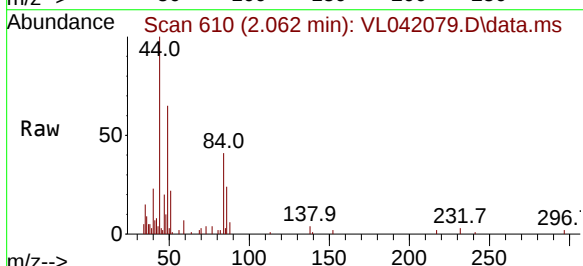
Manual Integrations
APPROVED

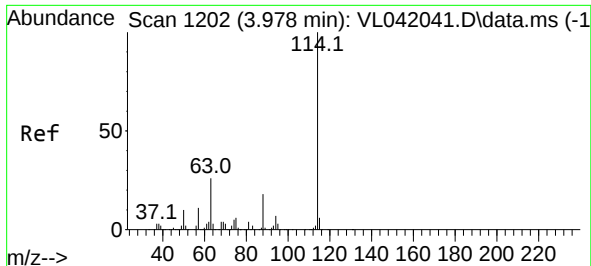
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#20
Methylene Chloride
Concen: 0.260 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion: 84 Resp: 1402
Ion Ratio Lower Upper
84 100
49 155.3 130.0 195.0
51 53.3 37.4 56.0
86 59.1 48.6 72.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.019 min

Lab File: VL042079.D

Acq: 03 Mar 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion:114 Resp: 360438

Ion Ratio Lower Upper

114 100

63 27.0 20.1 30.1

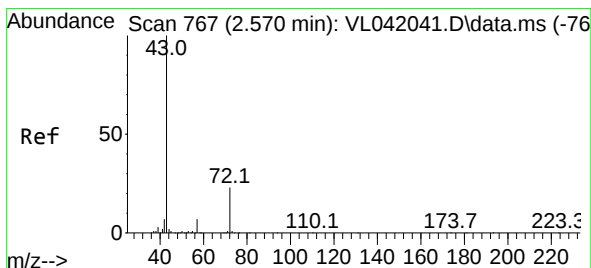
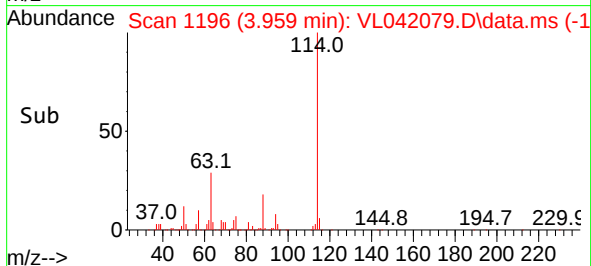
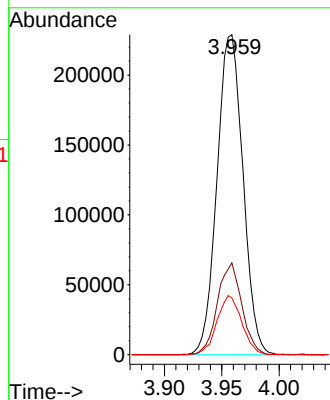
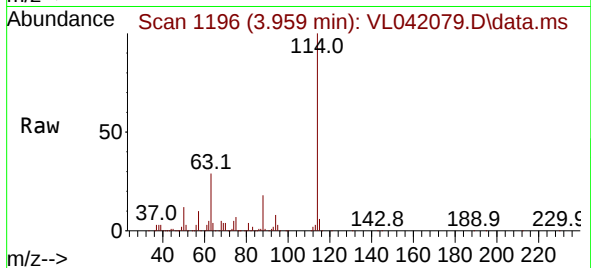
88 17.6 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025

Supervised By :Mahesh Dadoda 03/05/2025



#34

2-Butanone

Concen: 3.617 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.013 min

Lab File: VL042079.D

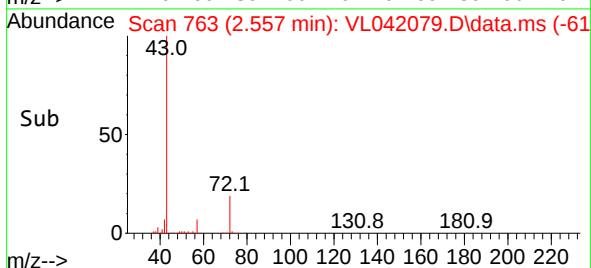
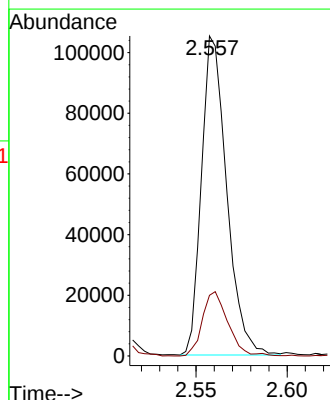
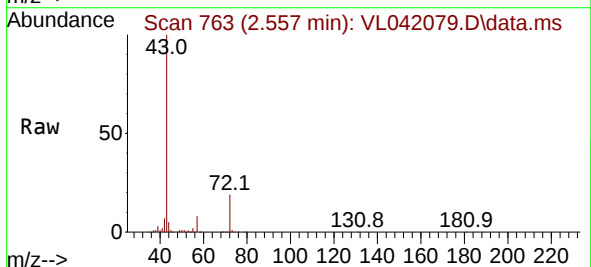
Acq: 03 Mar 2025 16:23

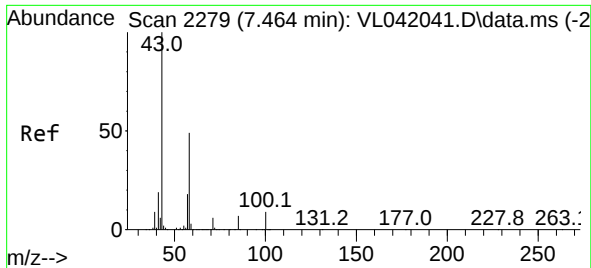
Tgt Ion: 43 Resp: 101561

Ion Ratio Lower Upper

43 100

72 20.5 18.5 27.7





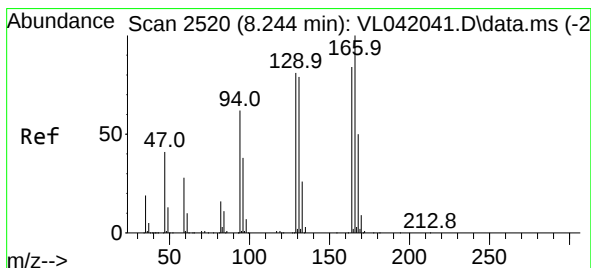
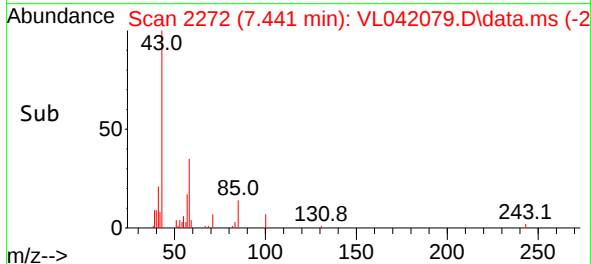
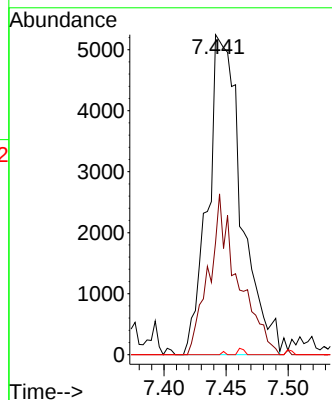
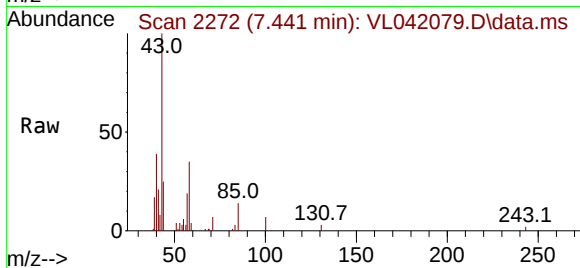
#51
2-Hexanone
Concen: 0.396 ppbv m
RT: 7.441 min Scan# 2114
Delta R.T. -0.023 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 43 Resp: 989
Ion Ratio Lower Upper
43 100
58 43.6 39.0 58.6
98 0.5 0.1 0.1

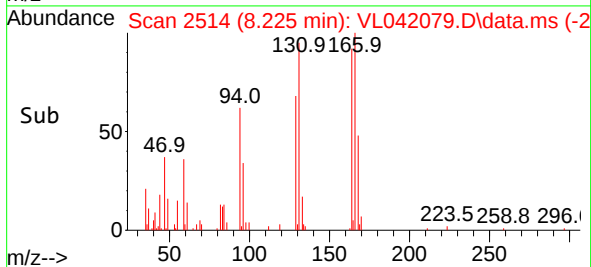
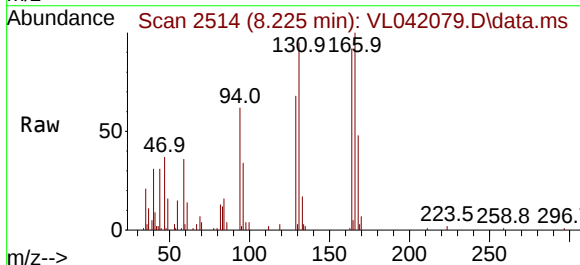
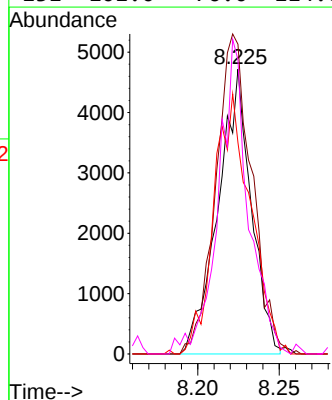
Manual Integrations
APPROVED

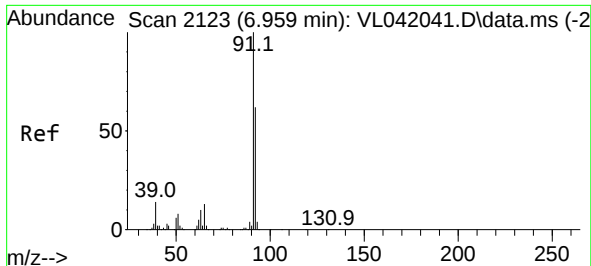
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#52
Tetrachloroethene
Concen: 0.516 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. -0.019 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion:164 Resp: 6663
Ion Ratio Lower Upper
164 100
166 108.8 95.7 143.5
129 74.2 77.1 115.7#
131 101.0 76.0 114.0





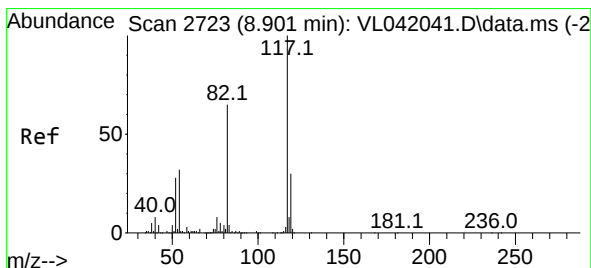
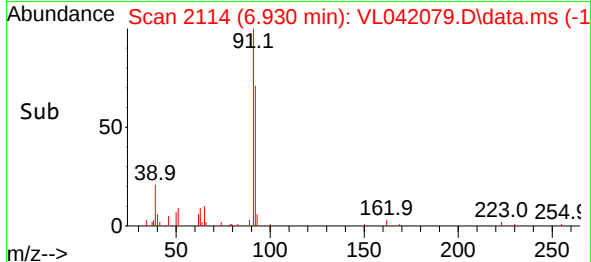
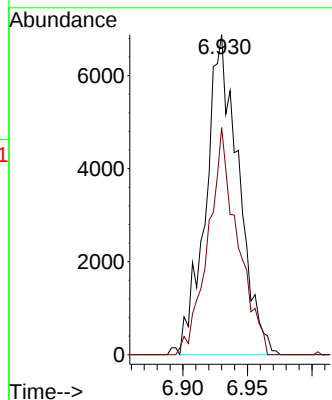
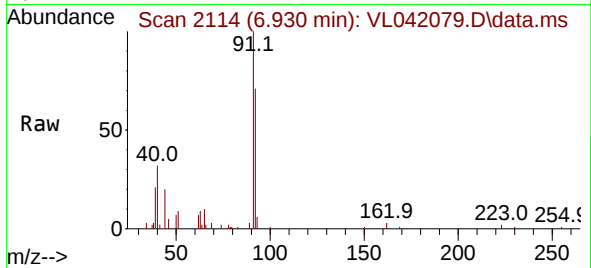
#53
Toluene
Concen: 0.288 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.029 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 1213
Ion Ratio Lower Upper
91 100
92 64.1 49.0 73.6

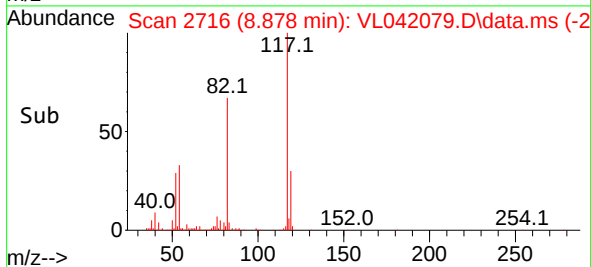
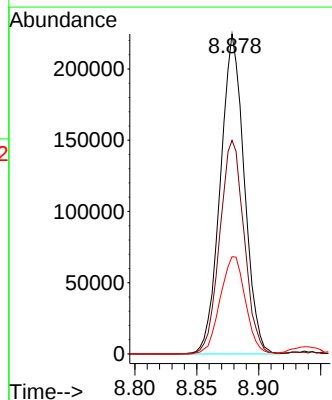
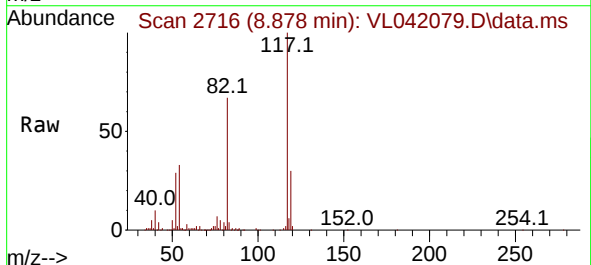
Manual Integrations
APPROVED

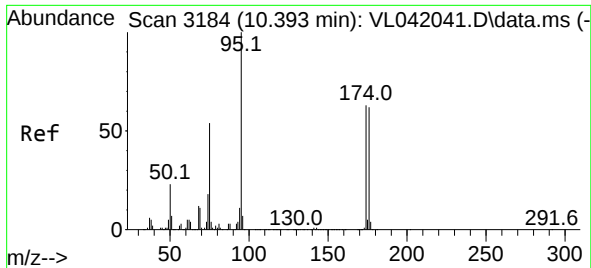
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.023 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

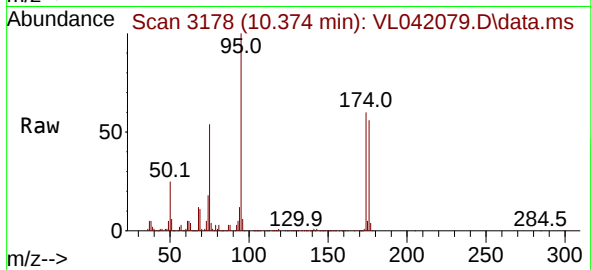
Tgt Ion:117 Resp: 301876
Ion Ratio Lower Upper
117 100
82 68.4 55.0 82.6
119 32.1 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.941 ppbv
 RT: 10.374 min Scan# 31
 Delta R.T. -0.019 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

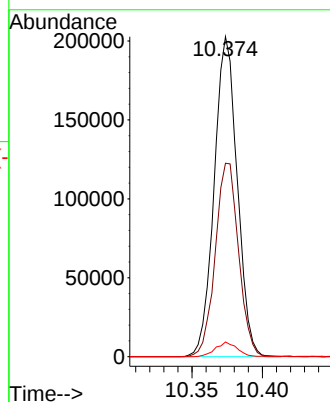
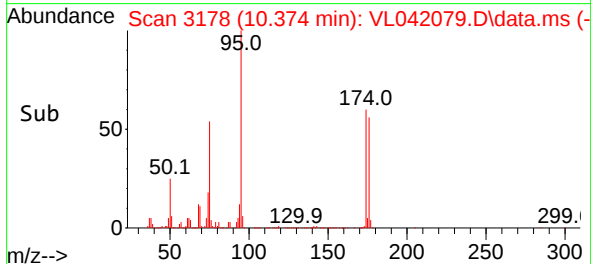
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion: 95 Resp: 23088
 Ion Ratio Lower Upper
 95 100
 174 61.3 51.8 77.6
 175 4.3 3.9 5.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV4	SDG No.:	Q1430
Lab Sample ID:	Q1430-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042083.D	4		03/03/25 18:26	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.39	0.81	U	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	U	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	U	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	1.00	3.03	J	2.30	6.06	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	11.4	27.1		2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.72	2.24	J	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	U	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	1.30	4.52	J	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	13.6	40.1		1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	U	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.83	2.65	J	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.84	3.44	J	1.52	8.20	ug/m3
108-88-3	Toluene	2.70	10.2		1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV4	SDG No.:	Q1430
Lab Sample ID:	Q1430-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042083.D	4		03/03/25 18:26	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	0.84	3.65	U	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.48	2.08	U	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.31	1.52	U	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	UQ	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	U	2.36	9.83	ug/m3
110-54-3	Hexane	0.44	1.55	U	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000		2.787			
540-36-3	1,4-Difluorobenzene	351000		3.955			
3114-55-4	Chlorobenzene-d5	298000		8.878			

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	SV4	SDG No.:	Q1430
Lab Sample ID:	Q1430-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042083.D	4		03/03/25 18:26	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042083.D
 Acq On : 03 Mar 2025 18:26
 Operator : SY/MD
 Sample : Q1430-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:20:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	159834	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	351160	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	298456	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	220011	9.582	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2542	0.153	ppbv #	86
9) Propene	1.482	41	6105	0.645	ppbv	85
13) Ethanol	1.719	45	41685	69.388	ppbv	92
15) Acetone	1.835	43	40072	2.839	ppbv #	82
17) tert-Butyl alcohol	2.042	59	4626	0.262	ppbv #	89
19) Isopropyl Alcohol	1.887	45	6886	0.849	ppbv #	45
20) Methylene Chloride	2.059	84	1758	0.329	ppbv	97
27) Carbon Disulfide	2.149	76	2795	0.181	ppbv #	1
34) 2-Butanone	2.560	43	93192	3.406	ppbv	94
36) Benzene	3.658	78	7658m	0.208	ppbv	
50) 4-Methyl-2-Pentanone	5.778	43	7390m	0.209	ppbv	
51) 2-Hexanone	7.444	43	8303m	0.341	ppbv	
52) Tetrachloroethene	8.224	164	956m	0.076	ppbv	
53) Toluene	6.927	91	27881m	0.679	ppbv	
59) m/p-Xylene	9.526	91	9044	0.207	ppbv #	100

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

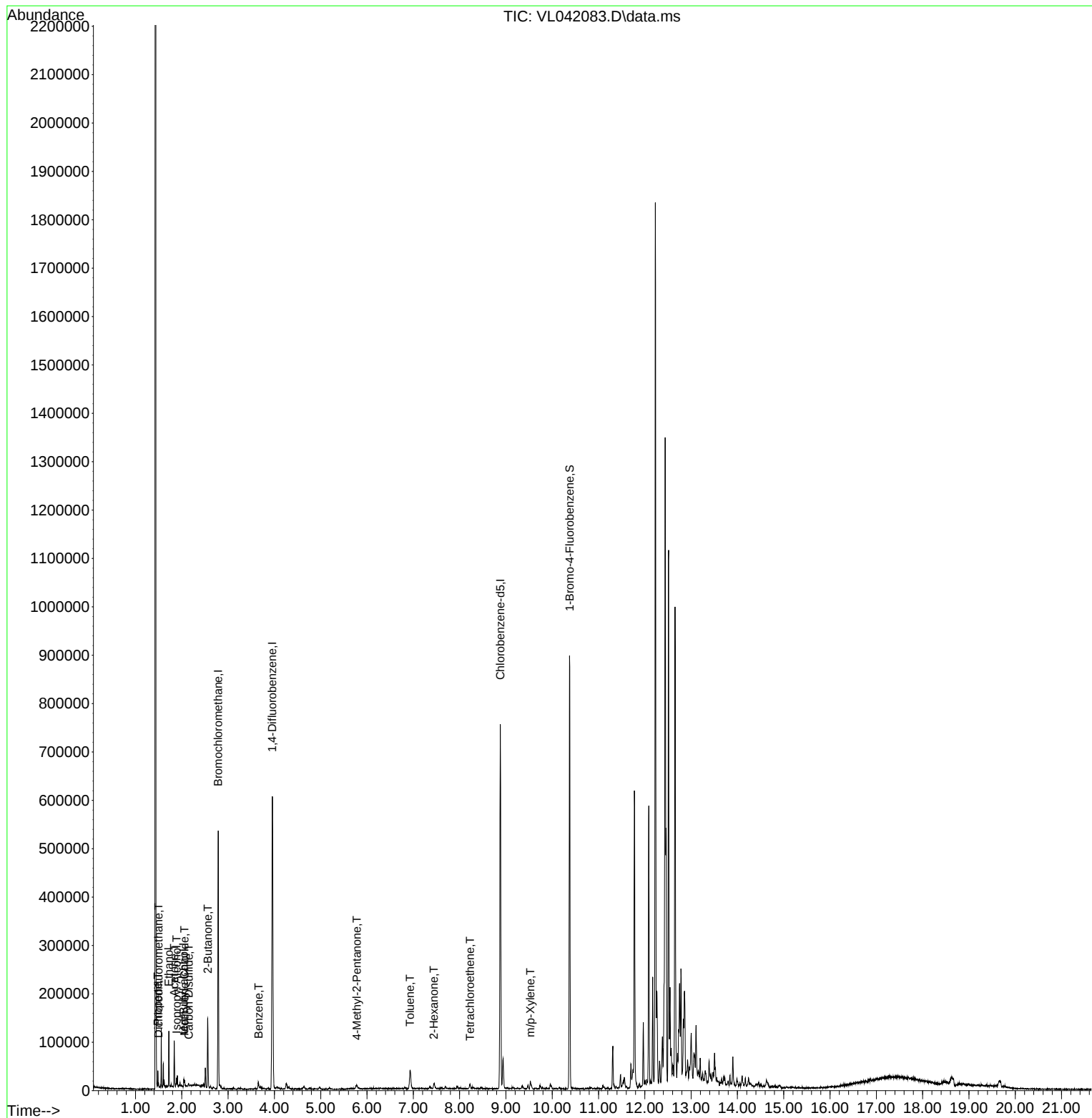
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042083.D
Acq On : 03 Mar 2025 18:26
Operator : SY/MD
Sample : Q1430-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

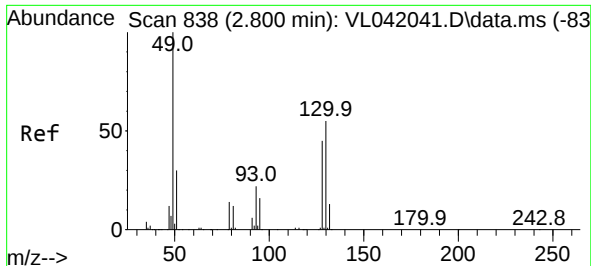
Instrument :
MSVOA_L
ClientSampleId :
SV4

Quant Time: Mar 04 00:20:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

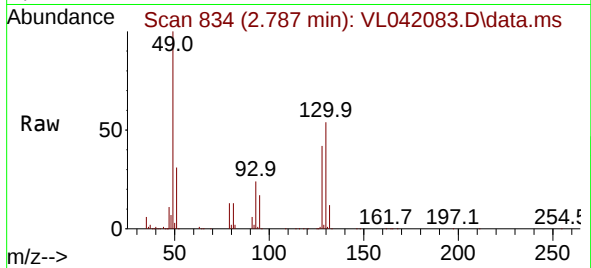
Reviewed By : Semsettin Yesilyurt 03/04/2025
Supervised By : Mahesh Dadoda 03/05/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

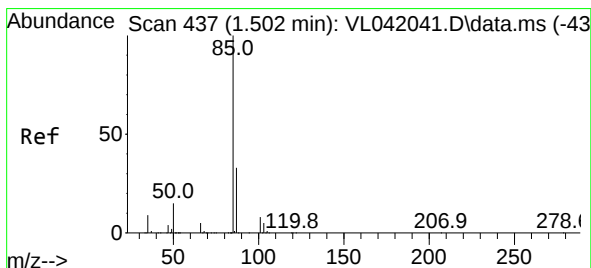
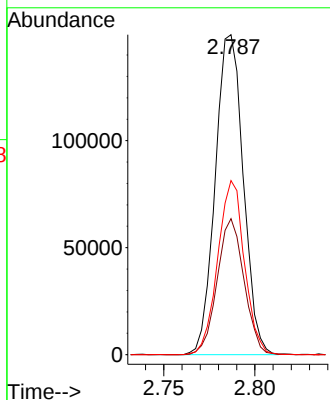
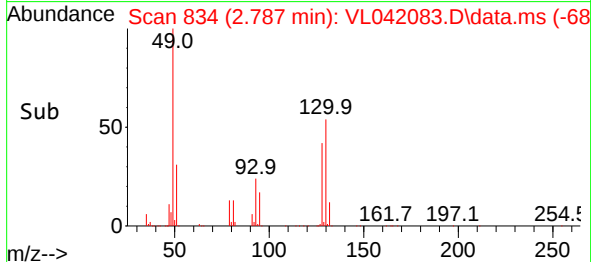
Instrument :
MSVOA_L
ClientSampleId :
SV4



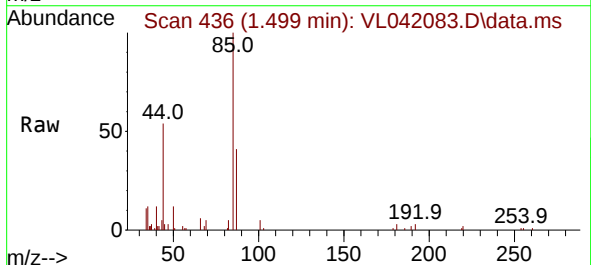
Tgt Ion: 49 Resp: 159834
Ion Ratio Lower Upper
49 100
128 40.8 21.6 64.8
130 51.9 27.8 83.4

Manual Integrations
APPROVED

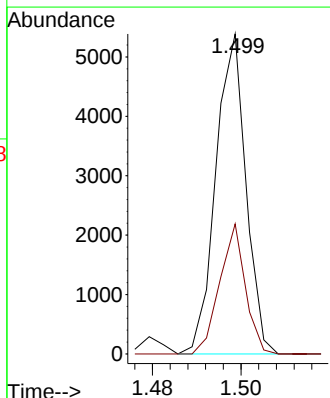
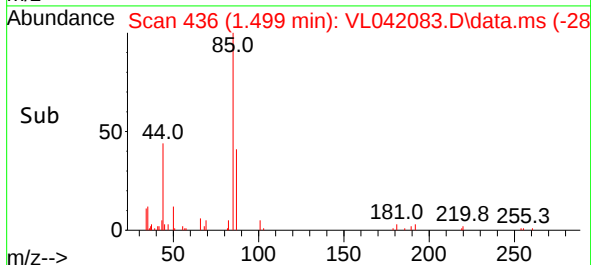
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

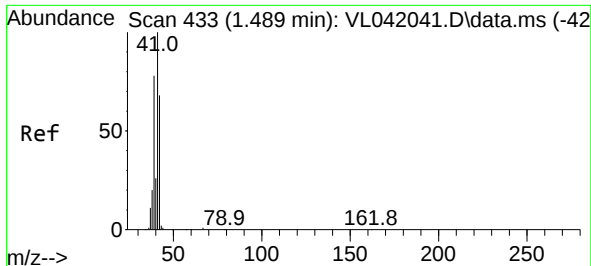


#2
Dichlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26



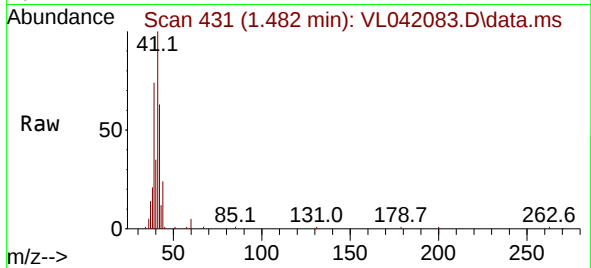
Tgt Ion: 85 Resp: 2542
Ion Ratio Lower Upper
85 100
87 40.7 26.4 39.6#





#9
Propene
Concen: 0.645 ppbv
RT: 1.482 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

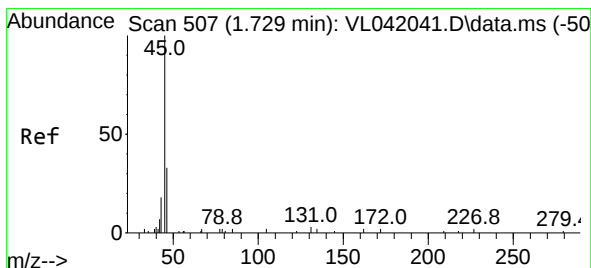
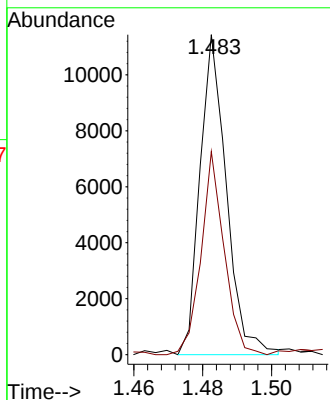
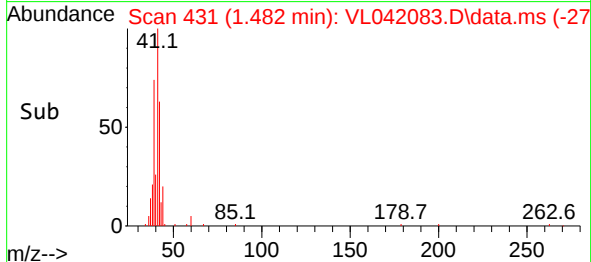
Instrument :
MSVOA_L
ClientSampleId :
SV4



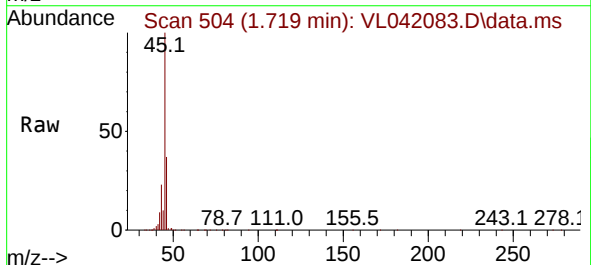
Tgt Ion: 41 Resp: 610
Ion Ratio Lower Upper
41 100
42 57.7 55.8 83.6

Manual Integrations
APPROVED

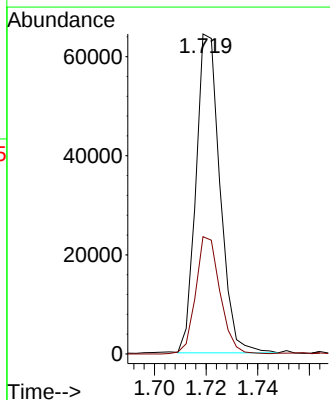
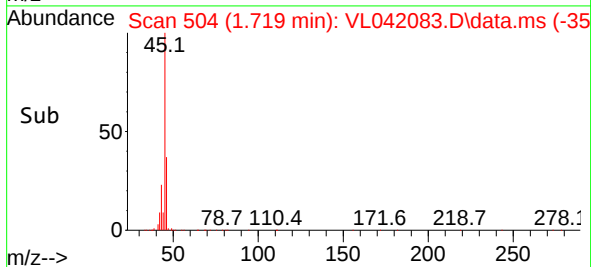
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

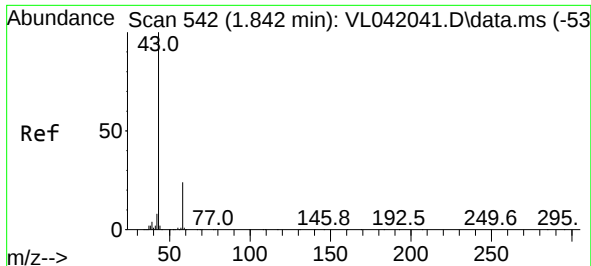


#13
Ethanol
Concen: 69.388 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26



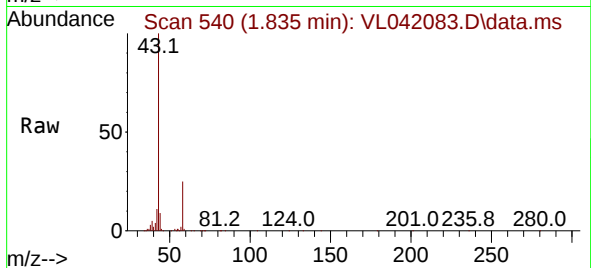
Tgt Ion: 45 Resp: 41685
Ion Ratio Lower Upper
45 100
46 37.9 17.1 68.3





#15
Acetone
Concen: 2.839 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.007 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

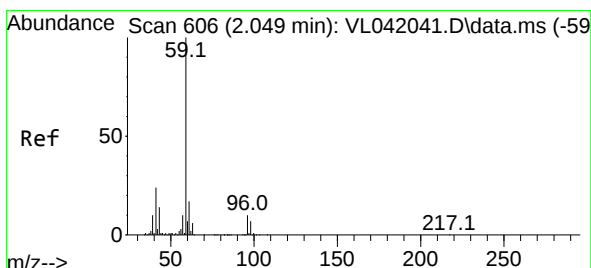
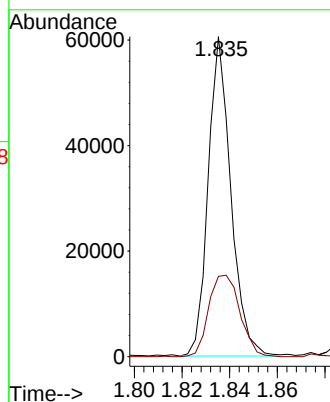
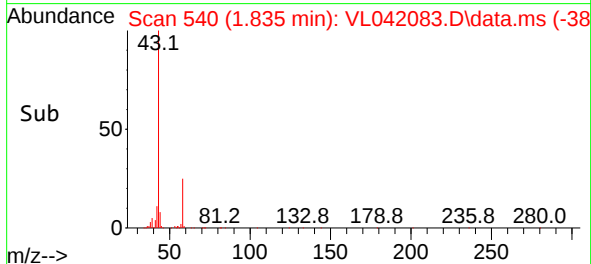
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 43 Resp: 40072
Ion Ratio Lower Upper
43 100
58 35.0 20.7 31.1

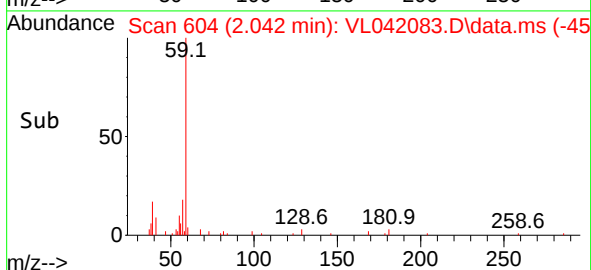
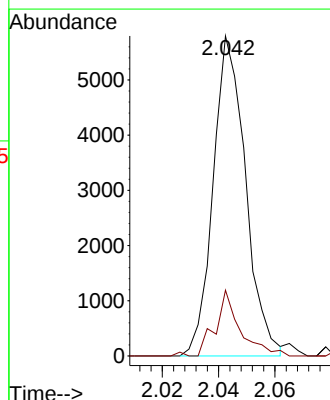
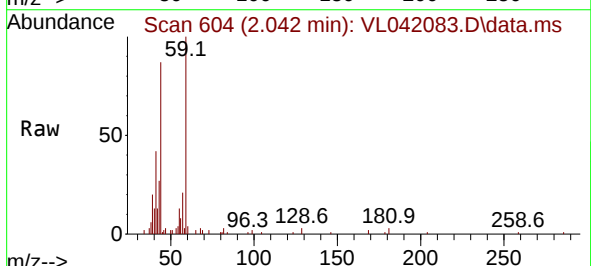
Manual Integrations
APPROVED

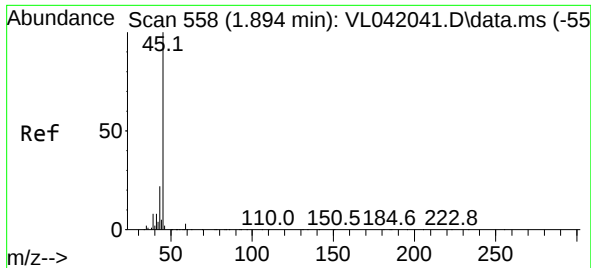
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#17
tert-Butyl alcohol
Concen: 0.262 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.007 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

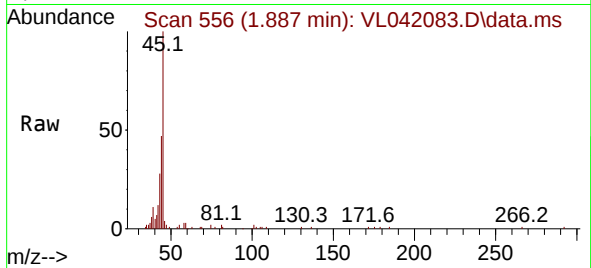
Tgt Ion: 59 Resp: 4626
Ion Ratio Lower Upper
59 100
57 15.8 9.3 13.9





#19
Isopropyl Alcohol
Concen: 0.849 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.007 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

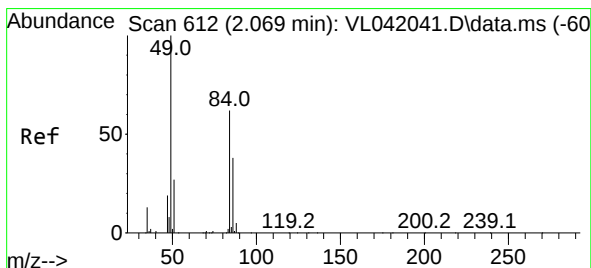
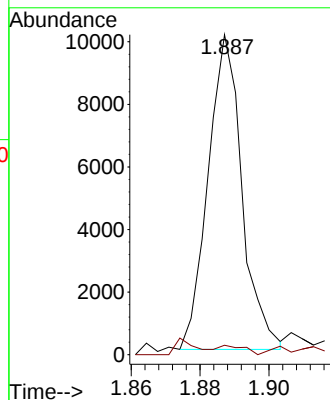
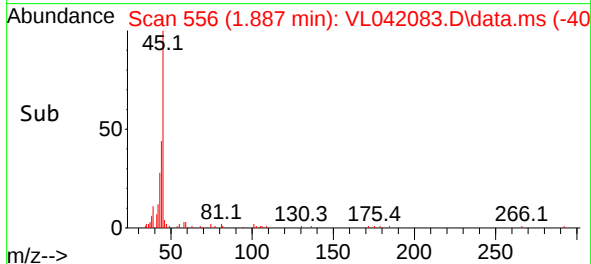
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 45 Resp: 6880
Ion Ratio Lower Upper
45 100
58 8.7 35.3 52.9

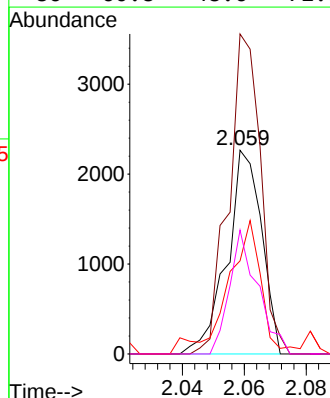
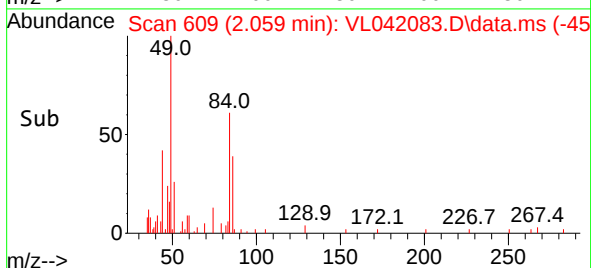
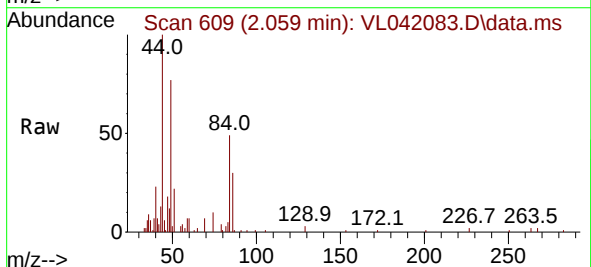
Manual Integrations
APPROVED

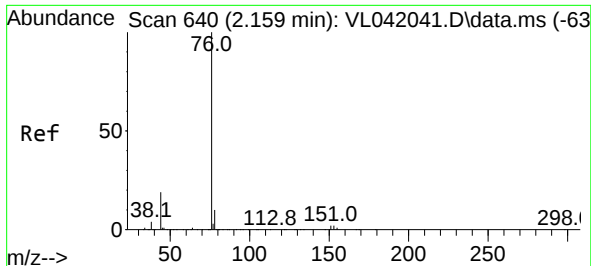
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#20
Methylene Chloride
Concen: 0.329 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

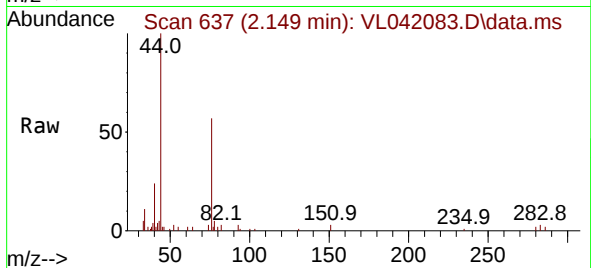
Tgt Ion: 84 Resp: 1758
Ion Ratio Lower Upper
84 100
49 157.1 130.0 195.0
51 42.9 37.4 56.0
86 60.8 48.6 72.8





#27
Carbon Disulfide
Concen: 0.181 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

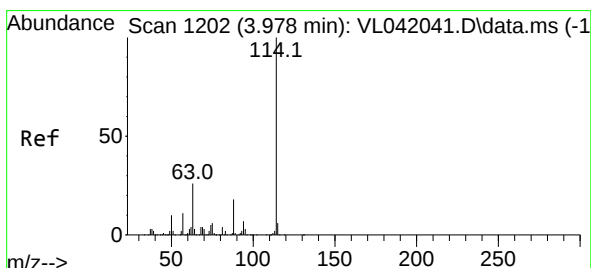
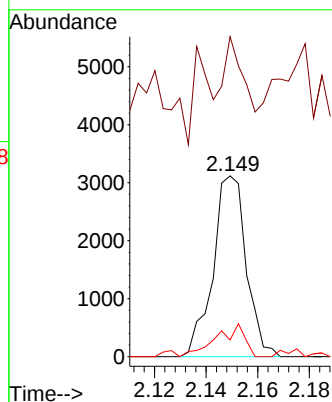
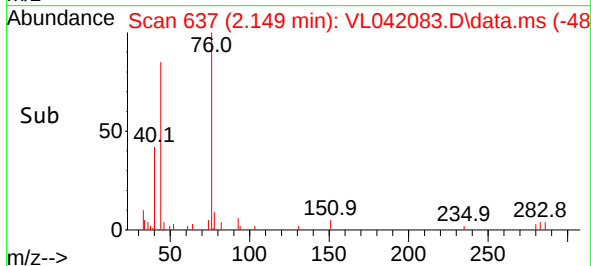
Instrument :
MSVOA_L
ClientSampleId :
SV4



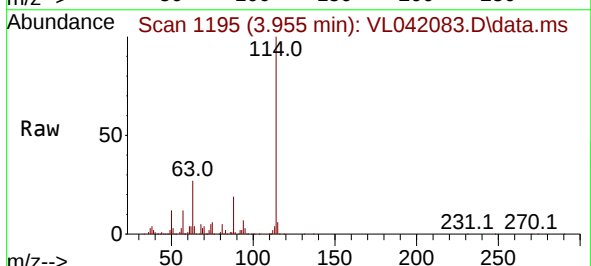
Tgt Ion: 76 Resp: 279
Ion Ratio Lower Upper
76 100
44 234.9 16.2 24.2
78 25.7 9.4 14.0

Manual Integrations
APPROVED

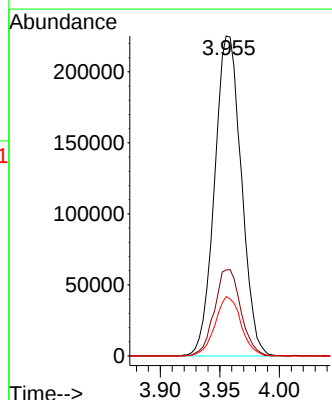
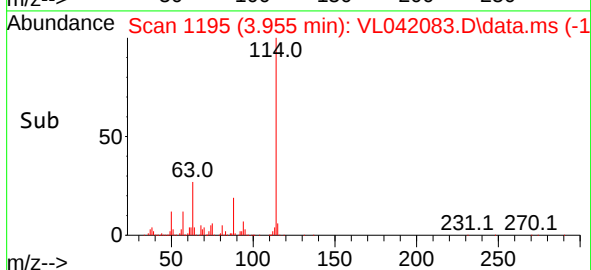
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

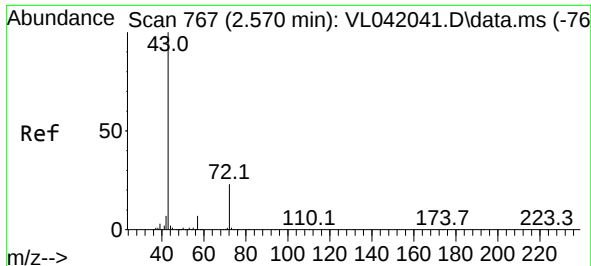


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.023 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26



Tgt Ion:114 Resp: 351160
Ion Ratio Lower Upper
114 100
63 26.8 20.1 30.1
88 17.9 14.3 21.5





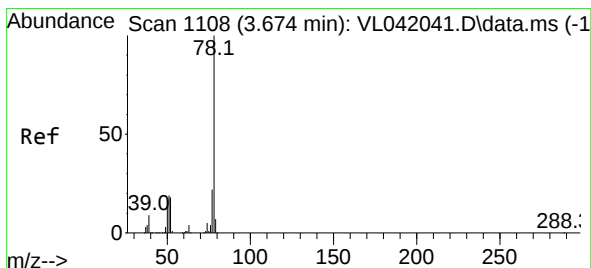
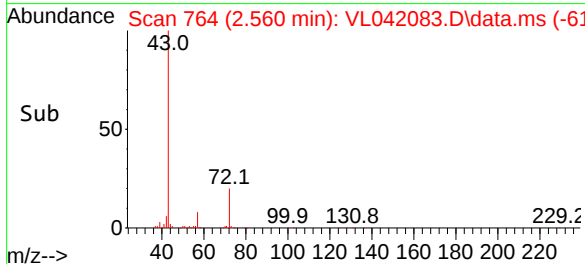
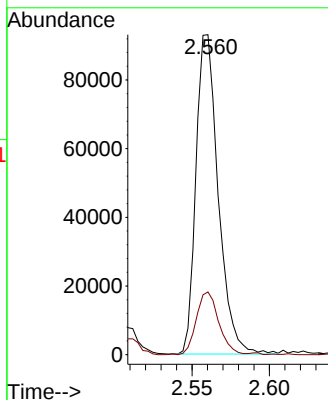
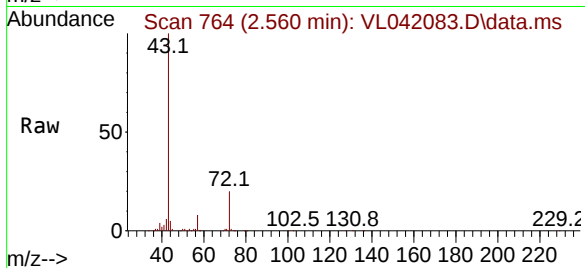
#34
2-Butanone
Concen: 3.406 ppbv
RT: 2.560 min Scan# 70
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 43 Resp: 93192
Ion Ratio Lower Upper
43 100
72 20.2 18.5 27.7

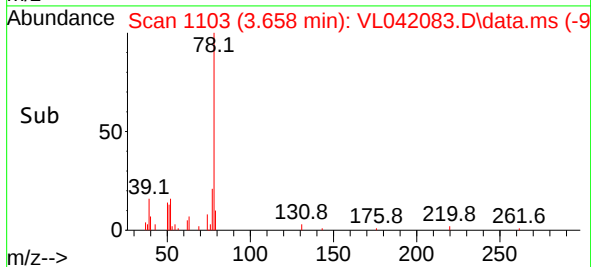
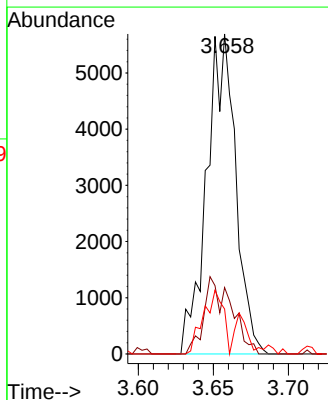
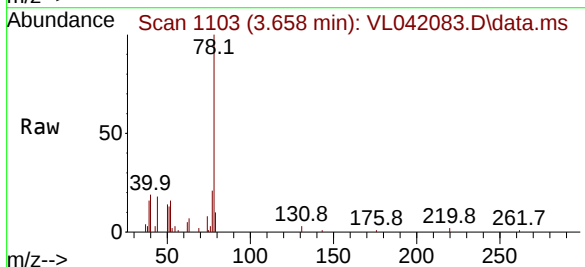
Manual Integrations
APPROVED

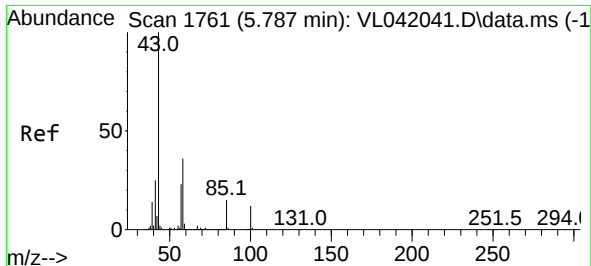
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#36
Benzene
Concen: 0.208 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. -0.016 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

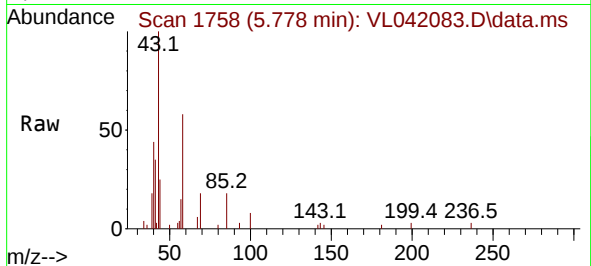
Tgt Ion: 78 Resp: 7658
Ion Ratio Lower Upper
78 100
77 20.7 17.7 26.5
50 14.0 13.9 20.9





#50
4-Methyl-2-Pentanone
Concen: 0.209 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

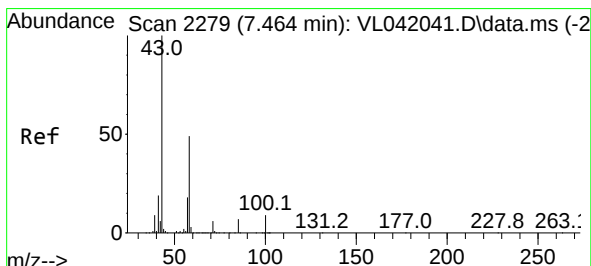
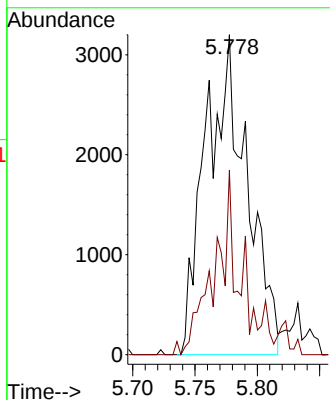
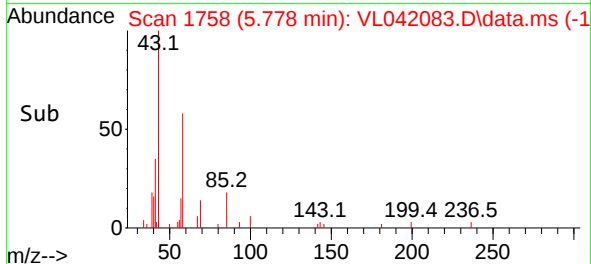
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 43 Resp: 7390
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9

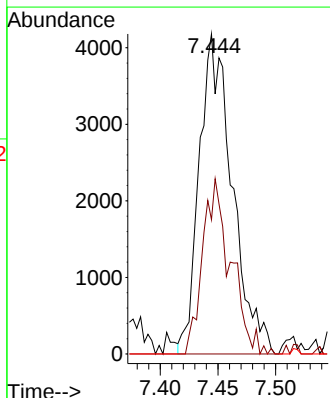
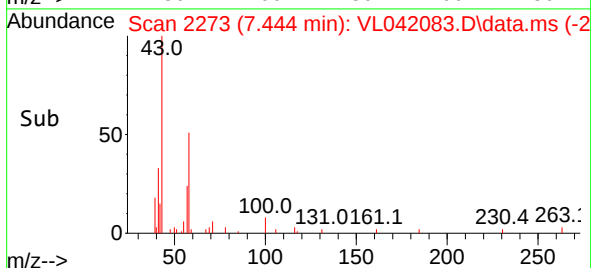
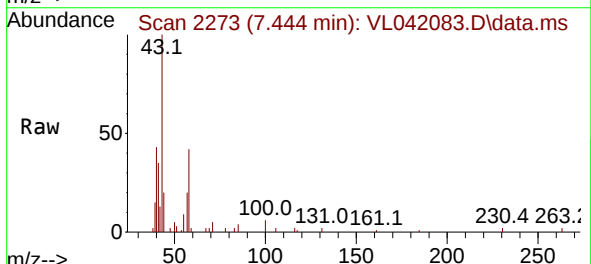
Manual Integrations
APPROVED

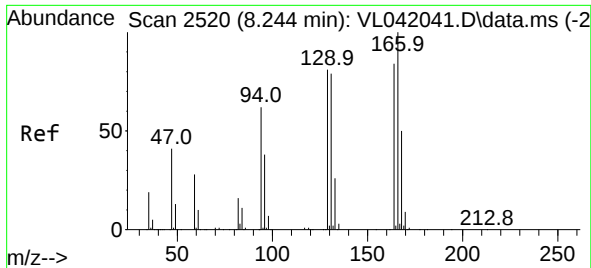
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#51
2-Hexanone
Concen: 0.341 ppbv m
RT: 7.444 min Scan# 2273
Delta R.T. -0.020 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

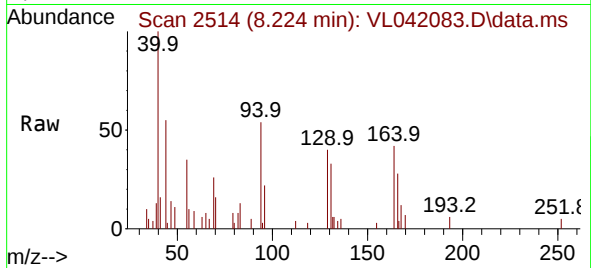
Tgt Ion: 43 Resp: 8303
Ion Ratio Lower Upper
43 100
58 0.0 39.0 58.6#
98 0.0 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 8.224 min Scan# 2113
Delta R.T. -0.020 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

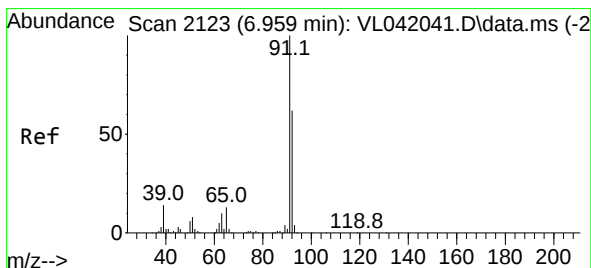
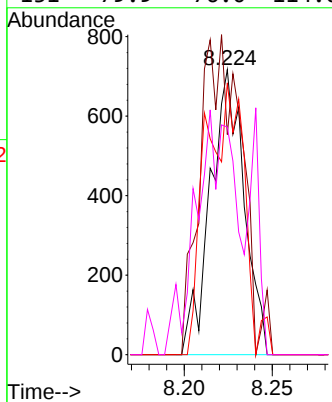
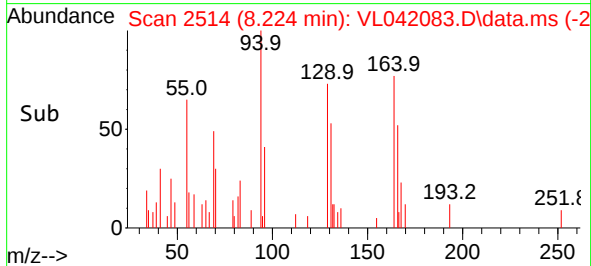
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion:164 Resp: 950
Ion Ratio Lower Upper
164 100
166 67.4 95.7 143.5
129 95.4 77.1 115.7
131 79.9 76.0 114.0

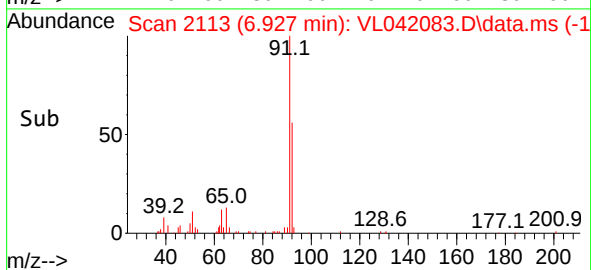
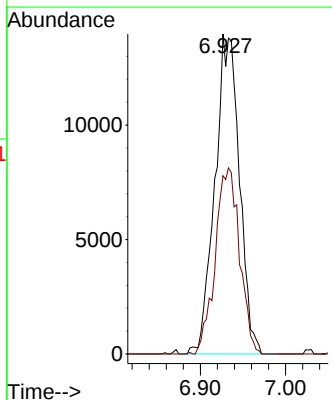
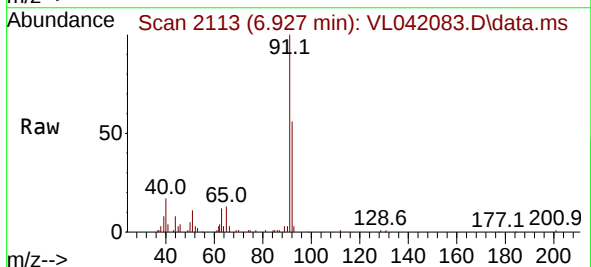
Manual Integrations
APPROVED

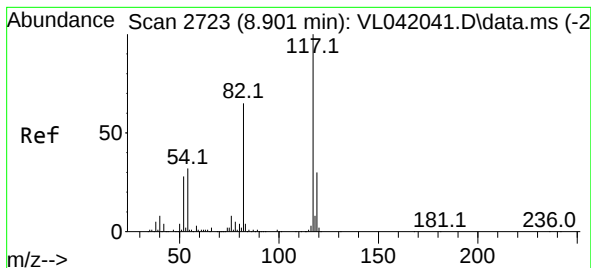
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#53
Toluene
Concen: 0.679 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.033 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

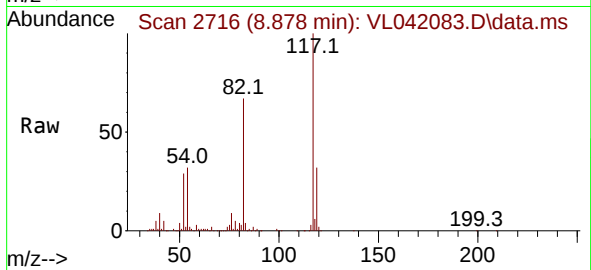
Tgt Ion: 91 Resp: 27881
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2117
Delta R.T. -0.023 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

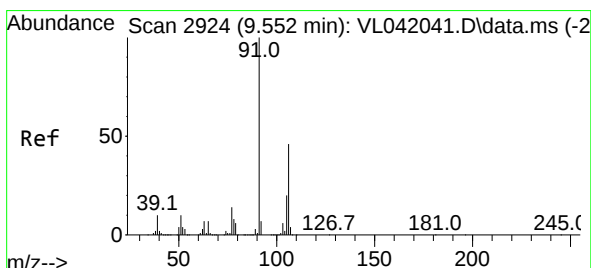
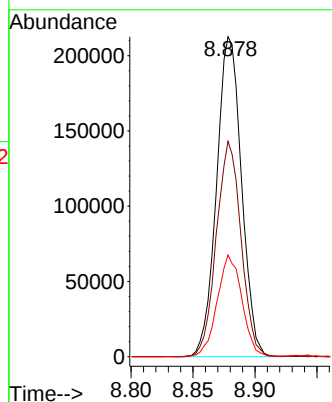
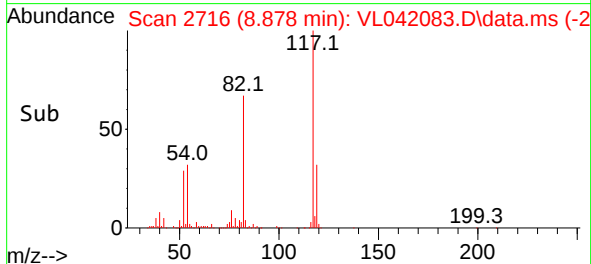
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 117 Resp: 298450
Ion Ratio Lower Upper
117 100
82 66.6 55.0 82.6
119 31.5 25.9 38.9

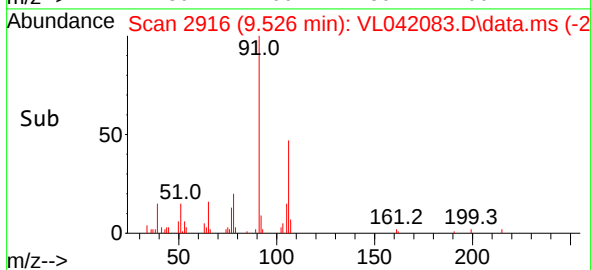
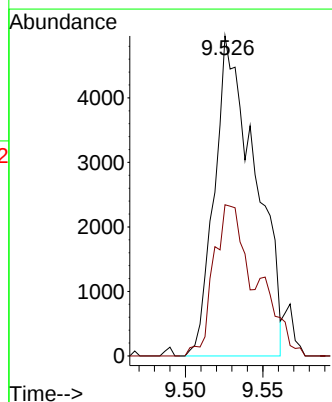
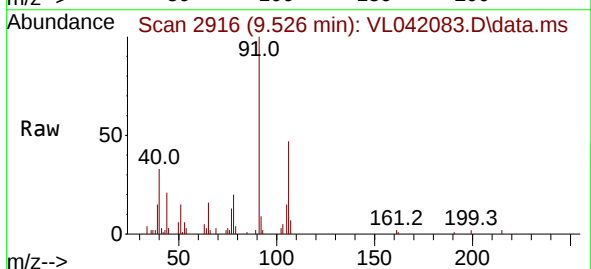
Manual Integrations
APPROVED

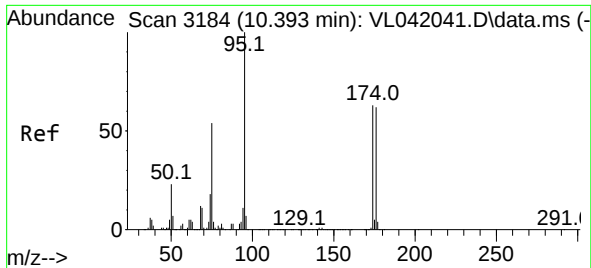
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#59
m/p-Xylene
Concen: 0.207 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

Tgt Ion: 91 Resp: 9044
Ion Ratio Lower Upper
91 100
106 49.7 0.0 0.0#





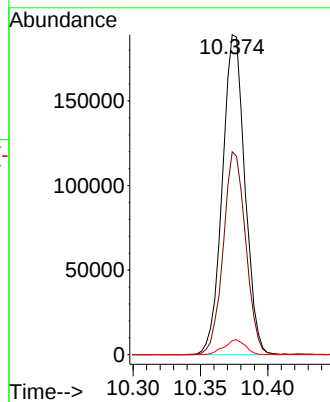
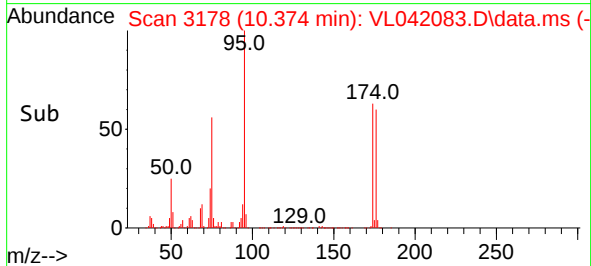
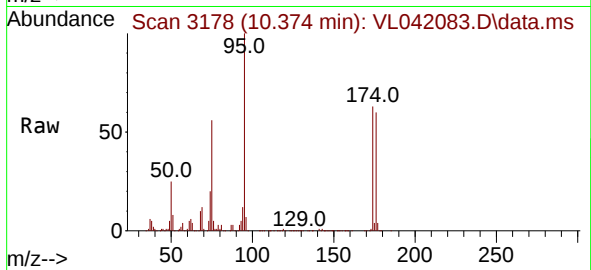
#68
1-Bromo-4-Fluorobenzene
Concen: 9.582 ppbv
RT: 10.374 min Scan# 31
Delta R.T. -0.020 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 95 Resp: 22001
Ion Ratio Lower Upper
95 100
174 63.5 51.8 77.6
175 4.5 3.9 5.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	IA1	SDG No.:	Q1430
Lab Sample ID:	Q1430-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042056.D	1		02/26/25 12:14	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.43	2.13	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.46	0.95	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.50	2.05		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	6.20	14.7		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	10.7	37.2		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.28	0.96	J	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.50	1.47		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.24	1.17	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.50	7.01		0.47	2.34	ug/m3
71-43-2	Benzene	4.30	13.7		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.47	1.93	J	0.37	2.05	ug/m3
108-88-3	Toluene	6.60	24.9		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	IA1	SDG No.:	Q1430
Lab Sample ID:	Q1430-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042056.D	1		02/26/25 12:14	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.040	0.27		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.64	2.78		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	2.60	11.3		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.79	3.43		0.52	2.17	ug/m3
100-42-5	Styrene	0.21	0.89	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.15	0.74	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.43	2.11	J	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.12	0.63		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.17	0.84	J	0.59	2.46	ug/m3
110-54-3	Hexane	4.70	16.6		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000		2.793			
540-36-3	1,4-Difluorobenzene	375000		3.972			
3114-55-4	Chlorobenzene-d5	325000		8.895			

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	IA1	SDG No.:	Q1430
Lab Sample ID:	Q1430-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042056.D	1		02/26/25 12:14	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042056.D
 Acq On : 26 Feb 2025 12:14
 Operator : SY/MD
 Sample : Q1430-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:27:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	159980	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	375140	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	325039	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257137	10.283	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	7102	0.427	ppbv	92
3) Chlorodifluoromethane	1.479	51	5899m	0.254	ppbv	
4) Chloromethane	1.534	50	2821	0.459	ppbv #	86
9) Propene	1.486	41	68586	7.241	ppbv	96
10) Heptane	4.998	43	14598m	0.495	ppbv	
11) Trichlorofluoromethane	1.884	101	3863	0.232	ppbv #	70
13) Ethanol	1.725	45	95218	158.352	ppbv	92
15) Acetone	1.845	43	86914	6.152	ppbv #	79
19) Isopropyl Alcohol	1.890	45	14014	1.727	ppbv #	21
20) Methylene Chloride	2.065	84	57070	10.679	ppbv	96
26) Hexane	2.832	57	107141	4.686	ppbv #	36
29) Chloroform	2.858	83	7381	0.240	ppbv	92
30) Cyclohexane	3.871	84	5261	0.284	ppbv #	82
34) 2-Butanone	2.570	43	14699	0.503	ppbv	100
35) Carbon Tetrachloride	3.774	117	2059	0.080	ppbv #	75
36) Benzene	3.667	78	168374	4.287	ppbv	96
44) 2,2,4-Trimethylpentane	4.655	57	102302	1.476	ppbv #	90
50) 4-Methyl-2-Pentanone	5.784	43	17881m	0.473	ppbv	
52) Tetrachloroethene	8.241	164	567m	0.042	ppbv	
53) Toluene	6.949	91	289557	6.597	ppbv	98
58) Ethyl Benzene	9.367	91	38485	0.643	ppbv	94
59) m/p-Xylene	9.542	91	122792	2.578	ppbv #	100
60) o-Xylene	9.972	91	37715	0.788	ppbv	97
61) Styrene	9.878	104	4760	0.211	ppbv	92
72) 4-Ethyltoluene	11.134	105	9913	0.170	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	7643	0.151	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	24703	0.433	ppbv #	68
79) Naphthalene	13.523	128	4612	0.118	ppbv #	89

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

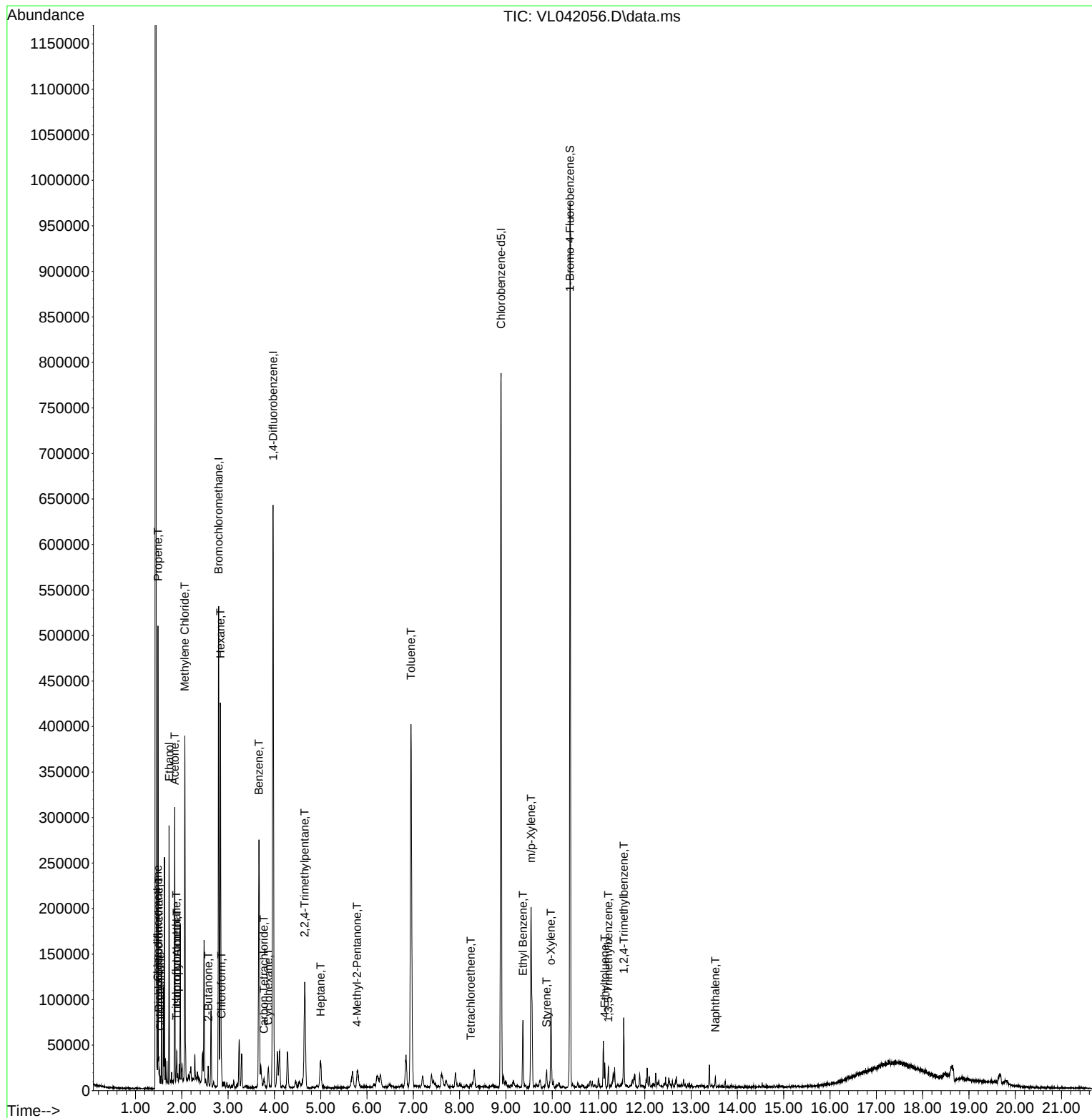
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Data File : VL042056.D
Acq On : 26 Feb 2025 12:14
Operator : SY/MD
Sample : Q1430-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

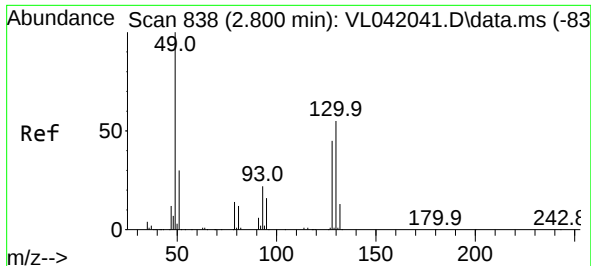
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Feb 27 00:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

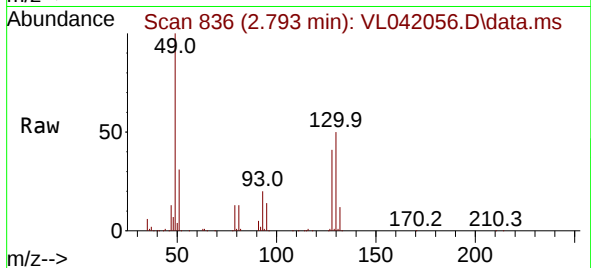
Reviewed By : Semsettin Yesilyurt 02/27/2025
Supervised By : Mahesh Dadoda 02/27/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 836
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

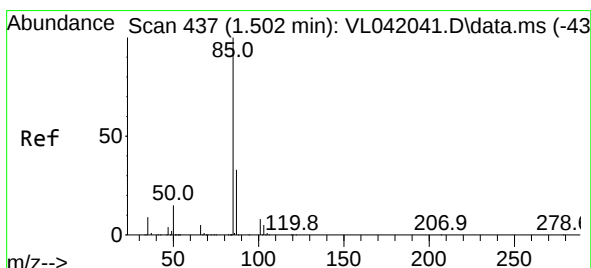
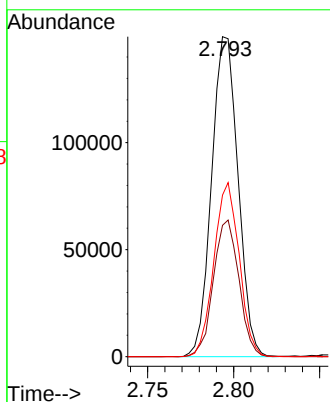
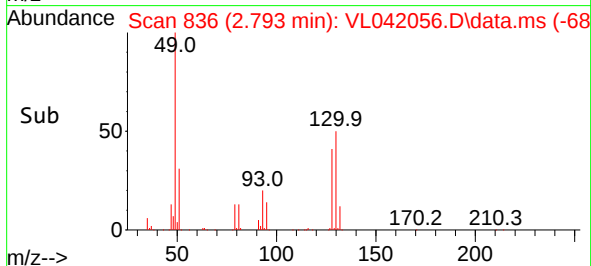
Instrument :
MSVOA_L
ClientSampleId :
IA1



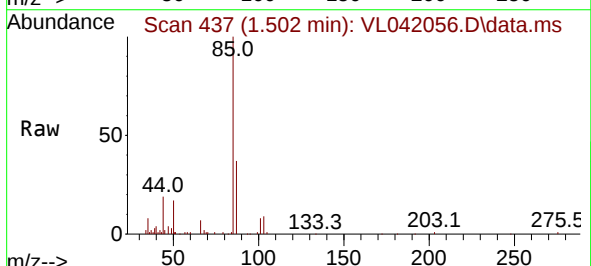
Tgt Ion: 49 Resp: 159980
Ion Ratio Lower Upper
49 100
128 41.3 21.6 64.8
130 52.1 27.8 83.4

Manual Integrations
APPROVED

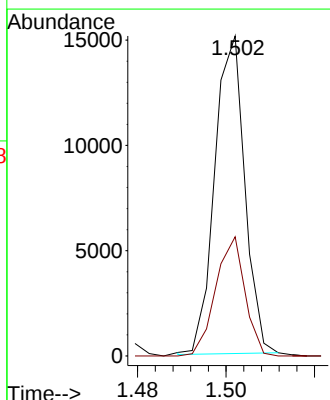
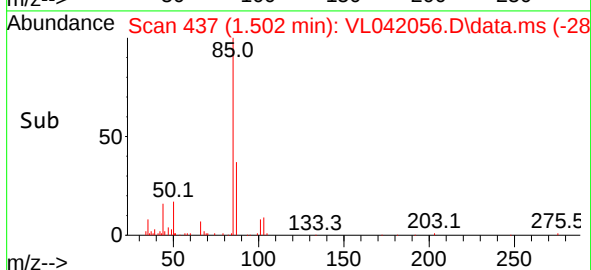
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

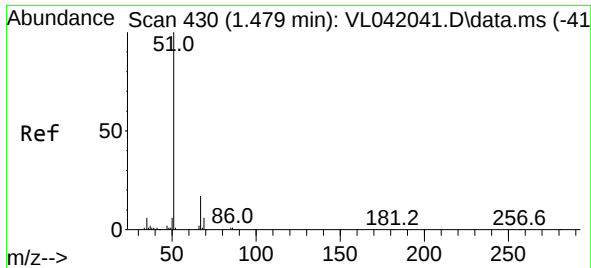


#2
Dichlorodifluoromethane
Concen: 0.427 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion: 85 Resp: 7102
Ion Ratio Lower Upper
85 100
87 37.6 26.4 39.6





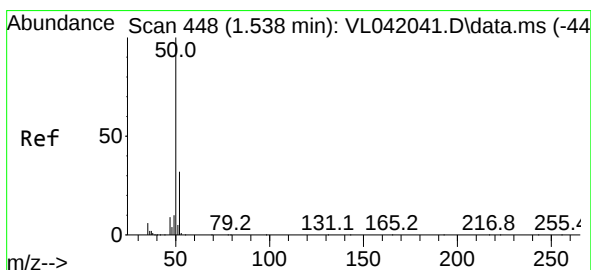
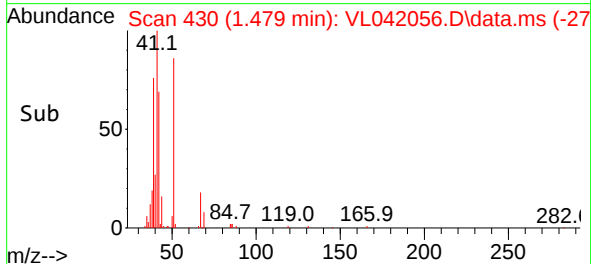
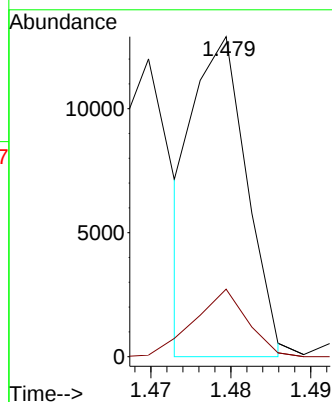
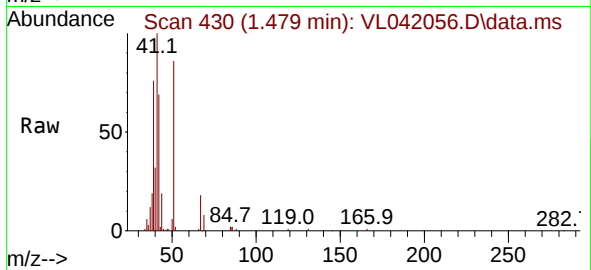
#3
Chlorodifluoromethane
Concen: 0.254 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 589
Ion Ratio Lower Upper
51 100
67 21.7 13.7 20.5

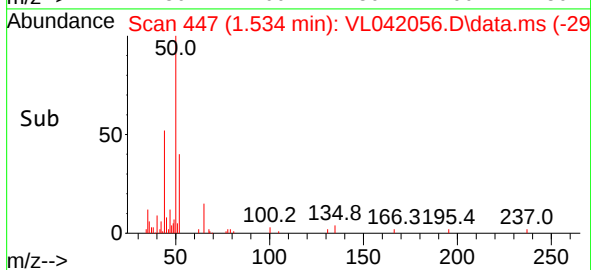
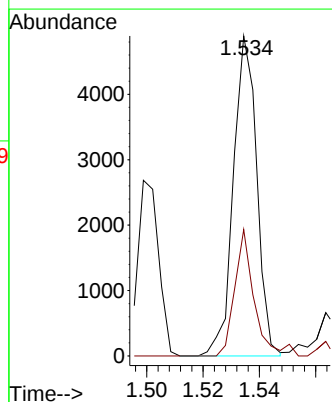
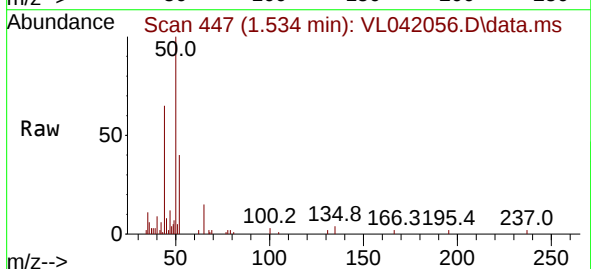
Manual Integrations
APPROVED

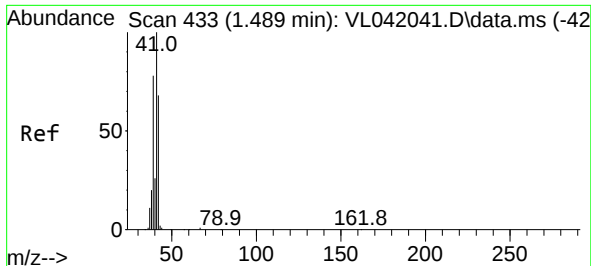
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#4
Chloromethane
Concen: 0.459 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

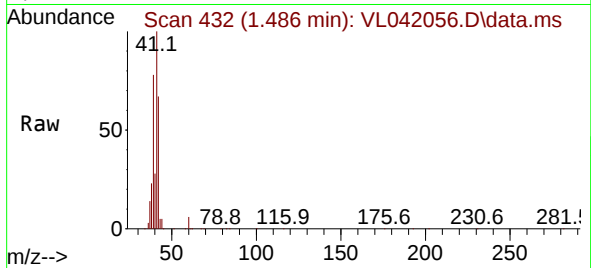
Tgt Ion: 50 Resp: 2821
Ion Ratio Lower Upper
50 100
52 39.5 25.4 38.0





#9
Propene
Concen: 7.241 ppbv
RT: 1.486 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

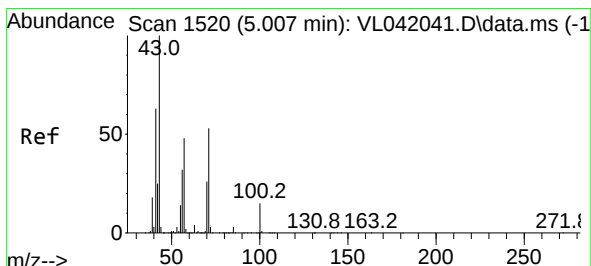
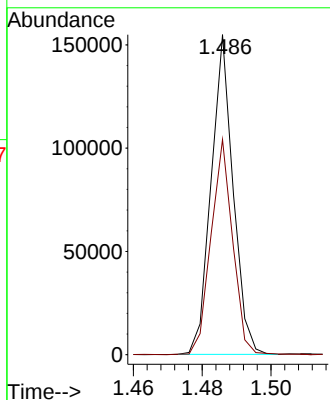
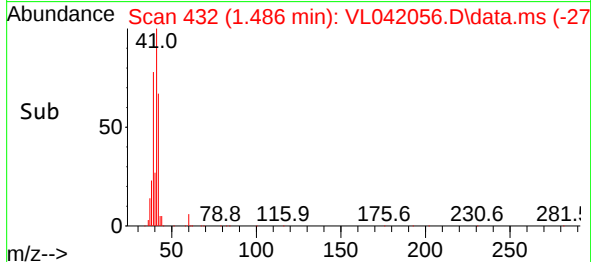
Instrument :
MSVOA_L
ClientSampleId :
IA1



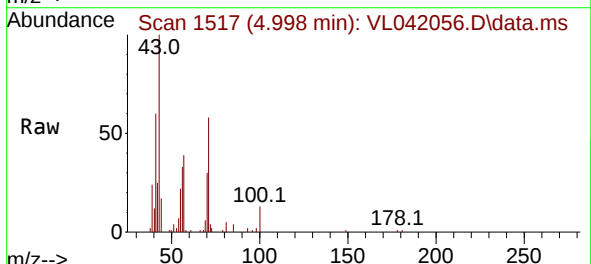
Tgt Ion: 41 Resp: 68580
Ion Ratio Lower Upper
41 100
42 66.4 55.8 83.6

Manual Integrations
APPROVED

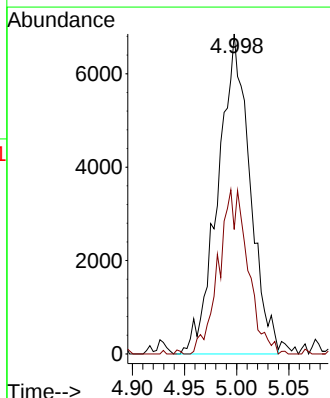
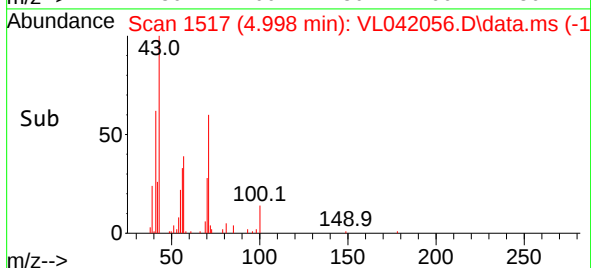
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

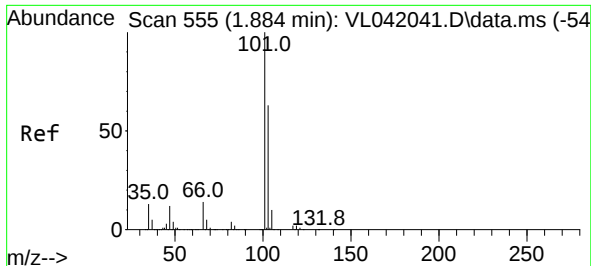


#10
Heptane
Concen: 0.495 ppbv m
RT: 4.998 min Scan# 1517
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



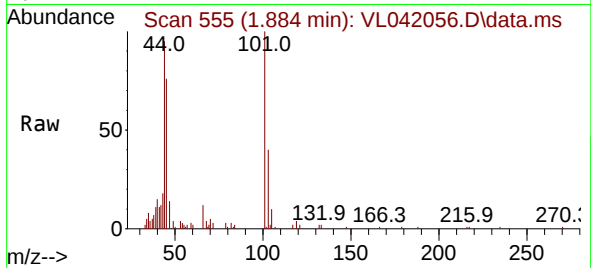
Tgt Ion: 43 Resp: 14598
Ion Ratio Lower Upper
43 100
57 47.5 39.4 59.0





#11
Trichlorofluoromethane
Concen: 0.232 ppbv
RT: 1.884 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

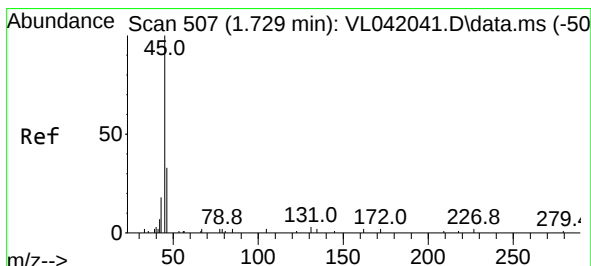
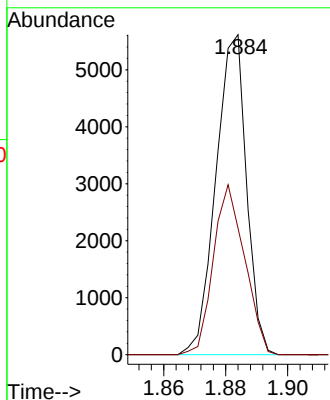
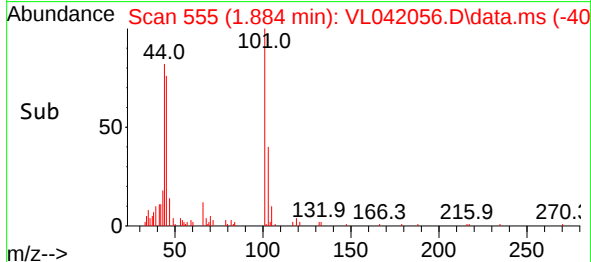
Instrument :
MSVOA_L
ClientSampleId :
IA1



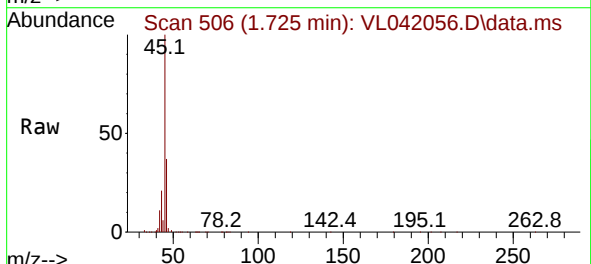
Tgt Ion:101 Resp: 386
Ion Ratio Lower Upper
101 100
103 39.5 50.6 75.8

Manual Integrations
APPROVED

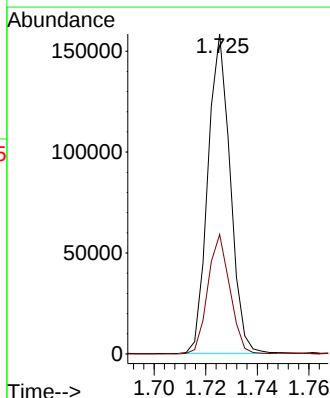
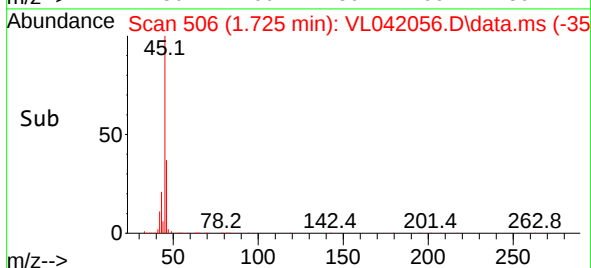
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

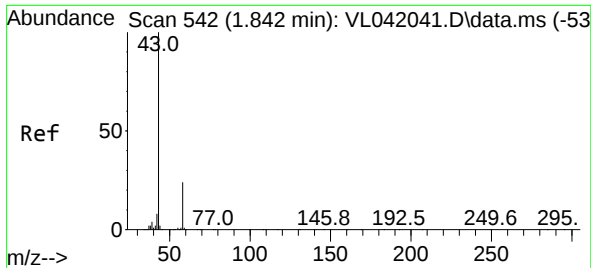


#13
Ethanol
Concen: 158.352 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



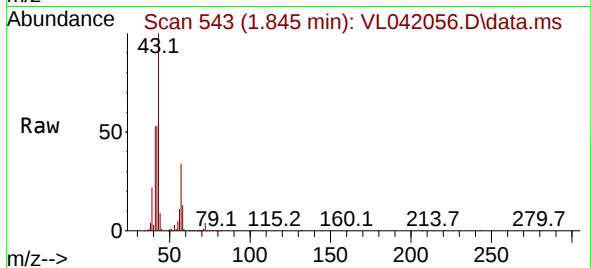
Tgt Ion: 45 Resp: 95218
Ion Ratio Lower Upper
45 100
46 37.4 17.1 68.3





#15
Acetone
Concen: 6.152 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

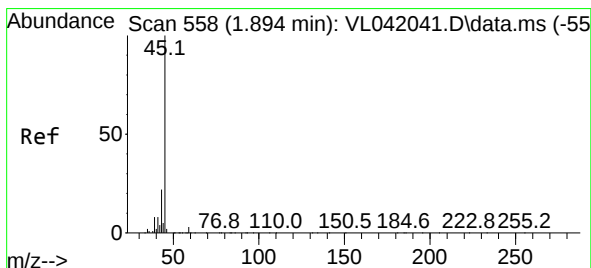
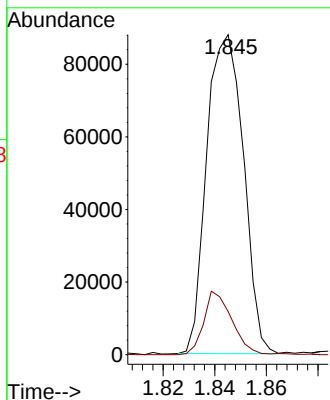
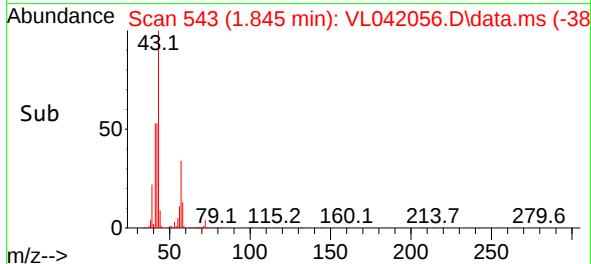
Instrument :
MSVOA_L
ClientSampleId :
IA1



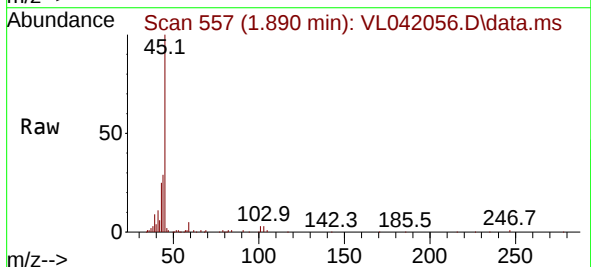
Tgt Ion: 43 Resp: 86914
Ion Ratio Lower Upper
43 100
58 15.4 20.7 31.1

Manual Integrations
APPROVED

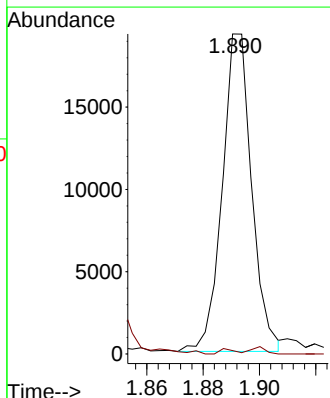
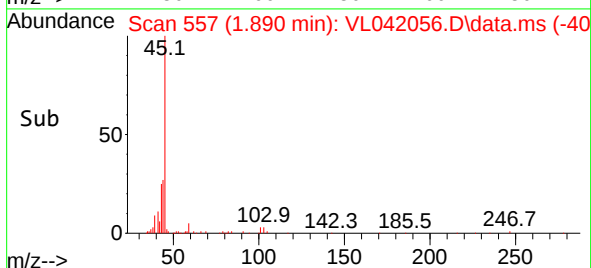
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

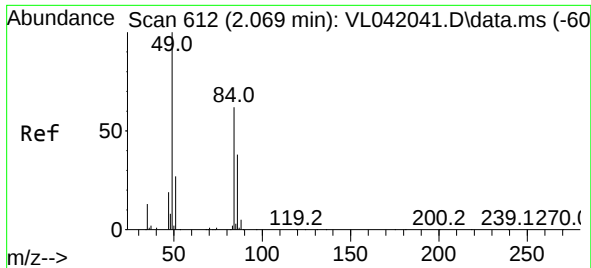


#19
Isopropyl Alcohol
Concen: 1.727 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion: 45 Resp: 14014
Ion Ratio Lower Upper
45 100
58 95.4 35.3 52.9





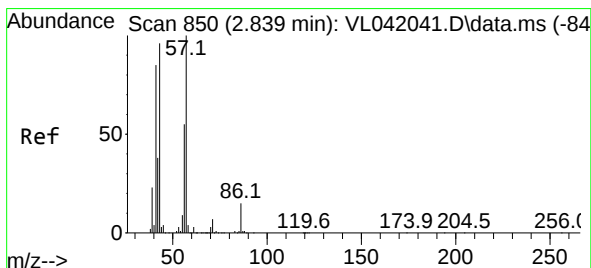
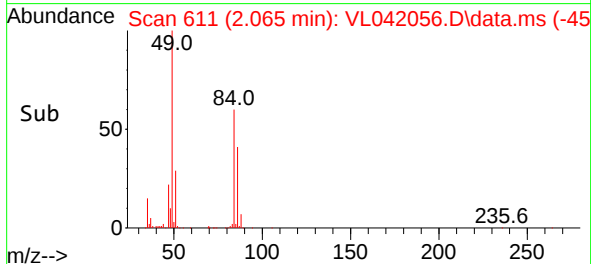
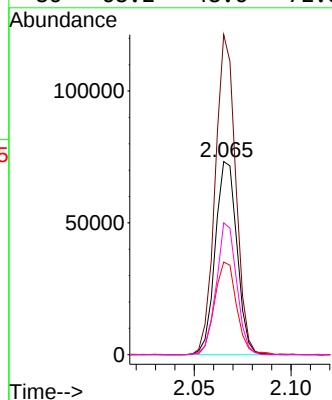
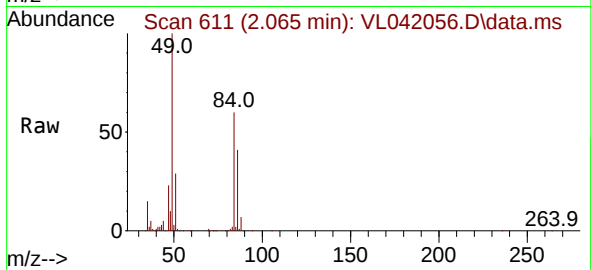
#20
Methylene Chloride
Concen: 10.679 ppbv
RT: 2.065 min Scan# 612
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 84 Resp: 57070
Ion Ratio Lower Upper
84 100
49 165.7 130.0 195.0
51 48.0 37.4 56.0
86 68.2 48.6 72.8

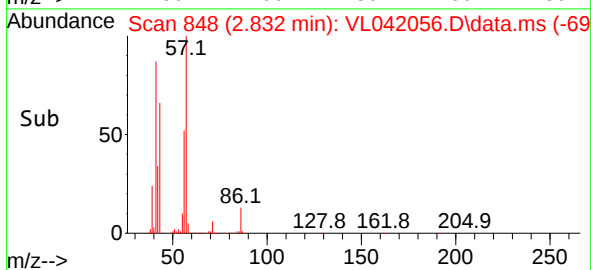
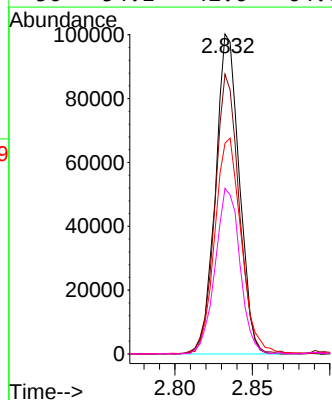
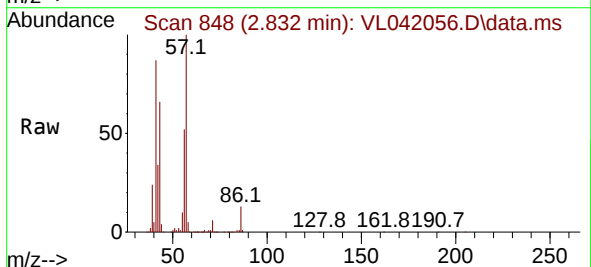
Manual Integrations
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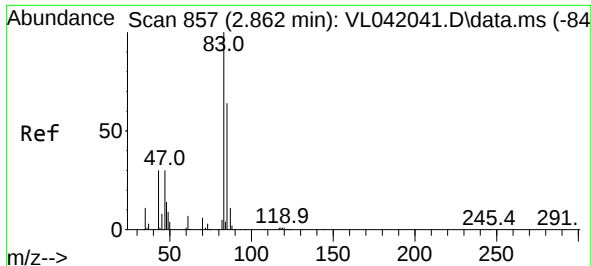
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#26
Hexane
Concen: 4.686 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

Tgt Ion: 57 Resp: 107141
Ion Ratio Lower Upper
57 100
41 89.2 70.6 106.0
43 75.9 199.4 299.0#
56 54.1 42.6 64.0





#29

Chloroform

Concen: 0.240 ppbv

RT: 2.858 min Scan# 856

Delta R.T. -0.003 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 738

Ion Ratio Lower Upper

83 100

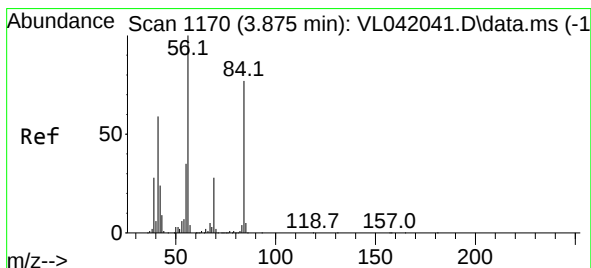
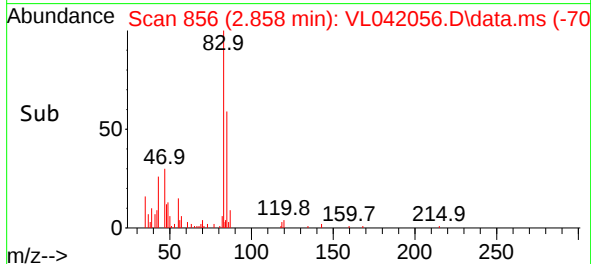
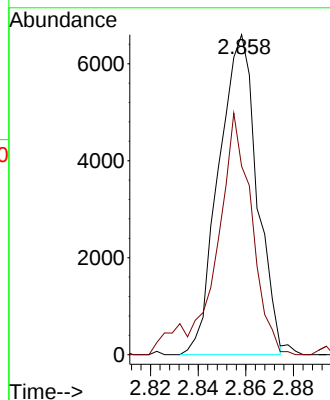
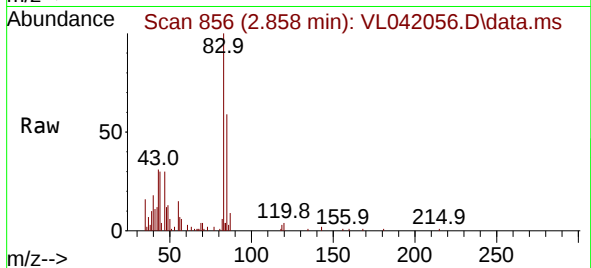
85 57.9 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#30

Cyclohexane

Concen: 0.284 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

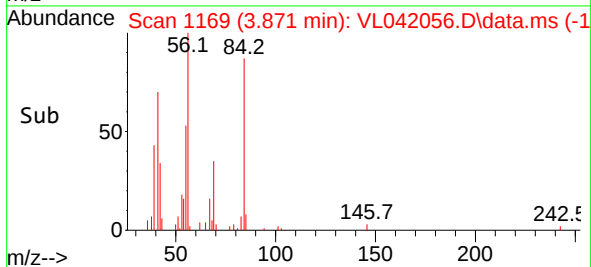
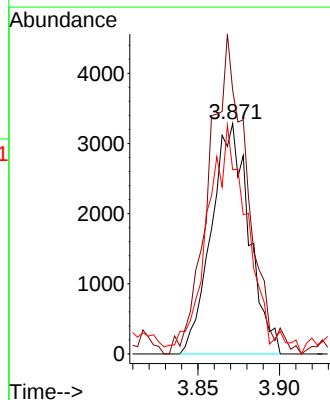
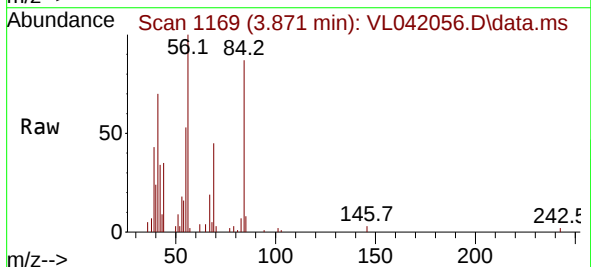
Tgt Ion: 84 Resp: 5261

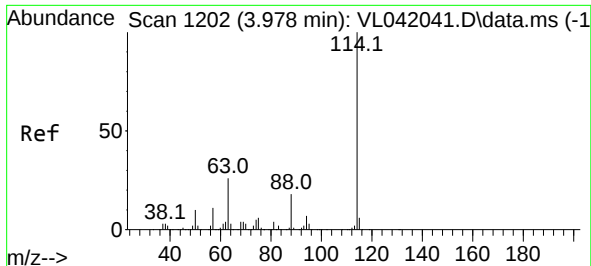
Ion Ratio Lower Upper

84 100

56 135.4 101.5 152.3

41 110.1 62.6 93.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 114

Delta R.T. -0.007 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 375140

Ion Ratio Lower Upper

114 100

63 26.9 20.1 30.1

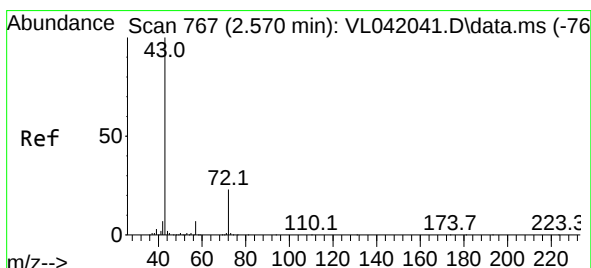
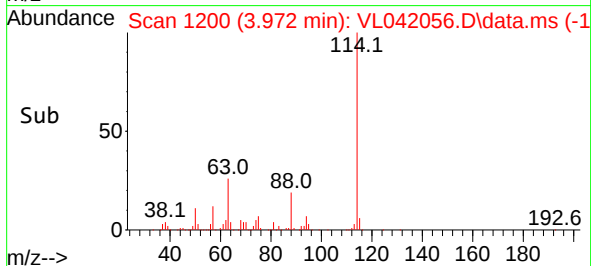
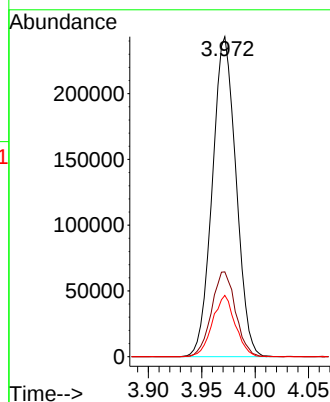
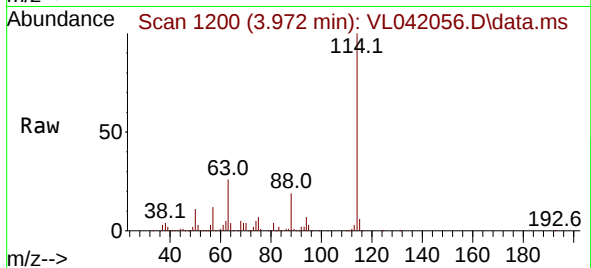
88 18.5 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#34

2-Butanone

Concen: 0.503 ppbv

RT: 2.570 min Scan# 767

Delta R.T. -0.000 min

Lab File: VL042056.D

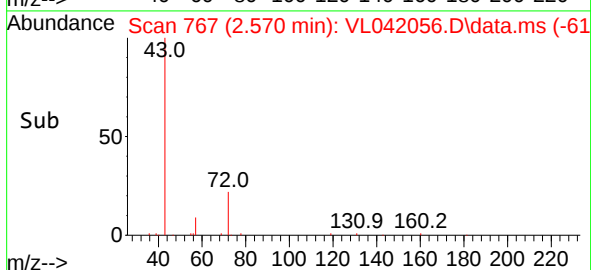
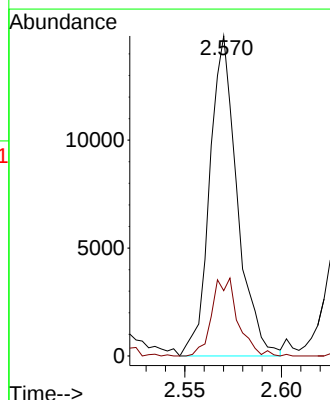
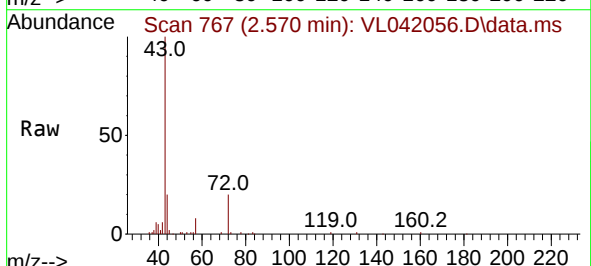
Acq: 26 Feb 2025 12:14

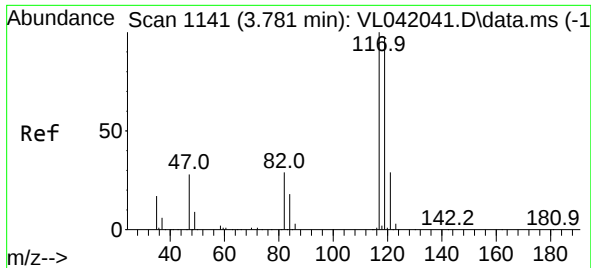
Tgt Ion: 43 Resp: 14699

Ion Ratio Lower Upper

43 100

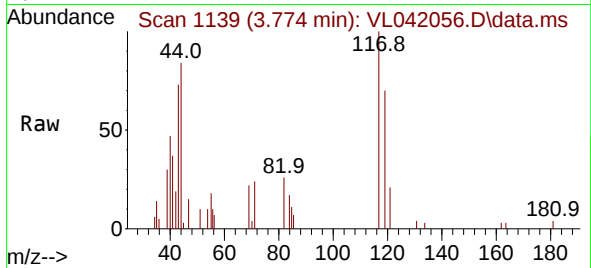
72 22.9 18.5 27.7





#35
Carbon Tetrachloride
Concen: 0.080 ppbv
RT: 3.774 min Scan# 1139
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

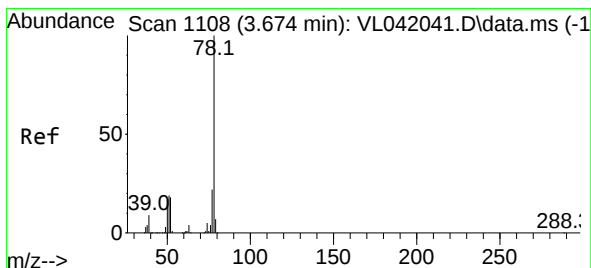
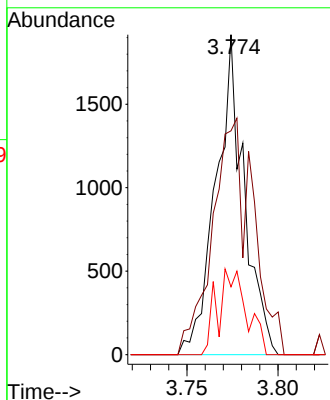
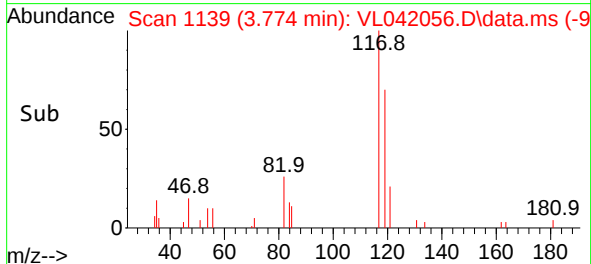
Instrument : MSVOA_L
ClientSampleId : IA1



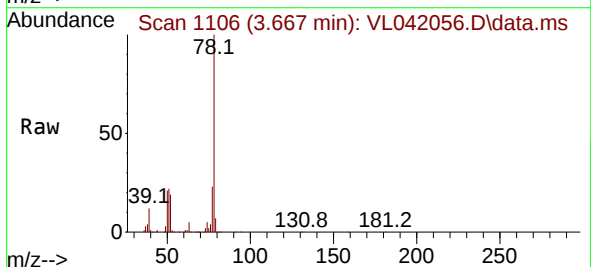
Tgt Ion: 117 Resp: 2059
Ion Ratio Lower Upper
117 100
119 70.0 77.8 116.8
121 21.2 23.4 35.0

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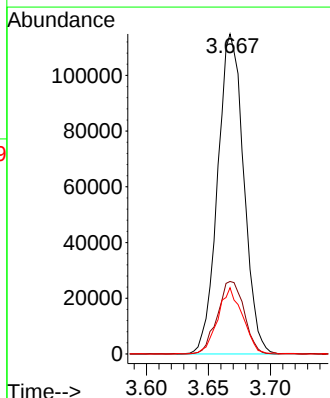
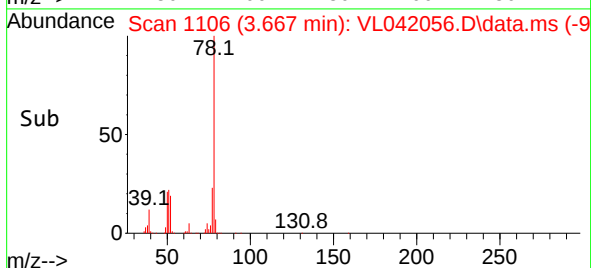
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

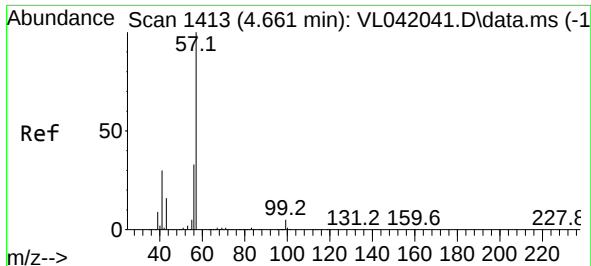


#36
Benzene
Concen: 4.287 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion: 78 Resp: 168374
Ion Ratio Lower Upper
78 100
77 22.6 17.7 26.5
50 20.6 13.9 20.9





#44

2,2,4-Trimethylpentane

Concen: 1.476 ppbv

RT: 4.655 min Scan# 1413

Delta R.T. -0.007 min

Lab File: VL042056.D

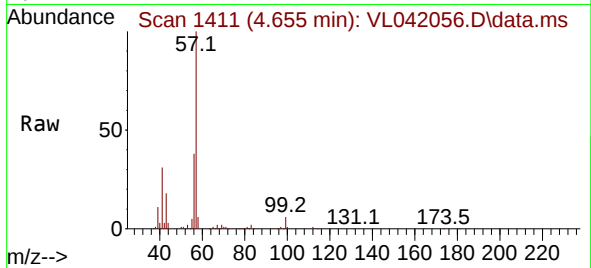
Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

IA1



Tgt Ion: 57 Resp: 10230

Ion Ratio Lower Upper

57 100

41 36.8 24.4 36.6

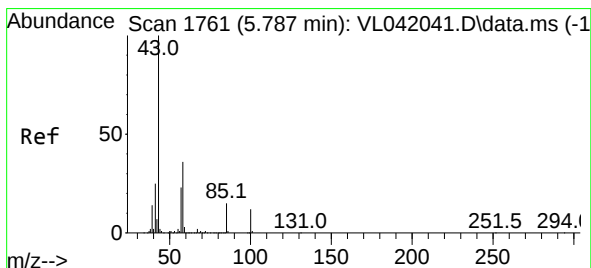
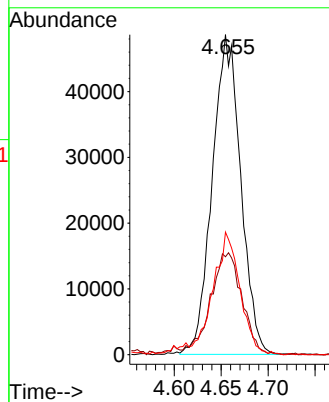
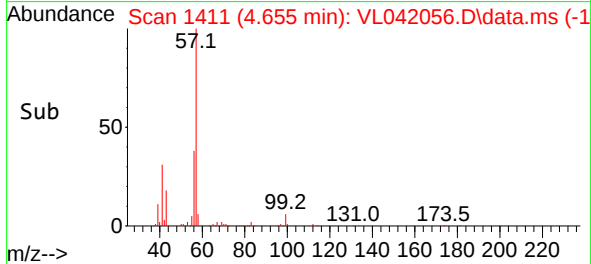
56 38.2 26.5 39.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#50

4-Methyl-2-Pentanone

Concen: 0.473 ppbv m

RT: 5.784 min Scan# 1760

Delta R.T. -0.003 min

Lab File: VL042056.D

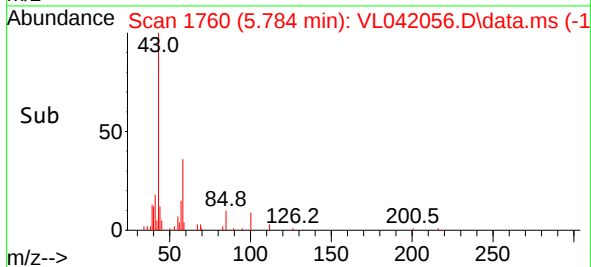
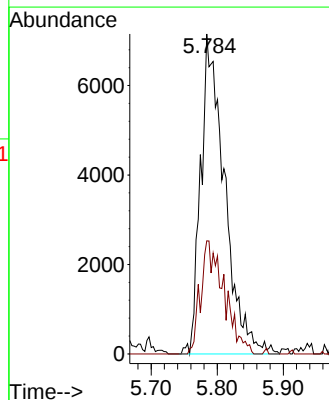
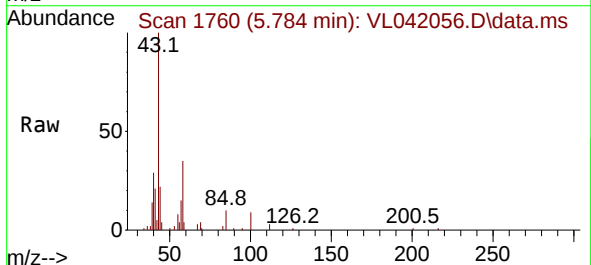
Acq: 26 Feb 2025 12:14

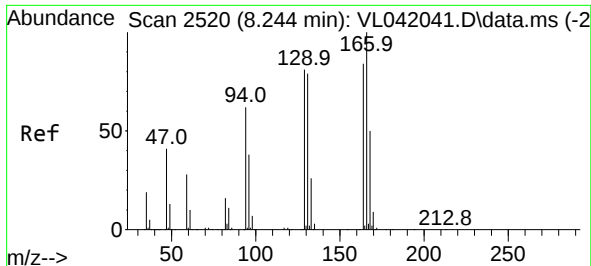
Tgt Ion: 43 Resp: 17881

Ion Ratio Lower Upper

43 100

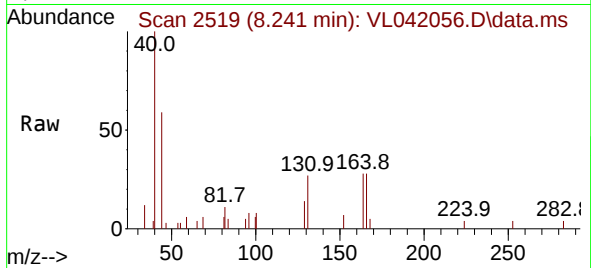
58 35.0 29.3 43.9





#52
Tetrachloroethene
Concen: 0.042 ppbv m
RT: 8.241 min Scan# 2120
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

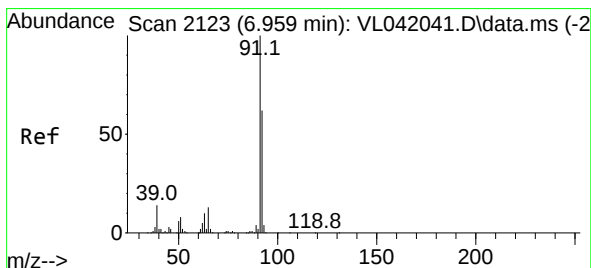
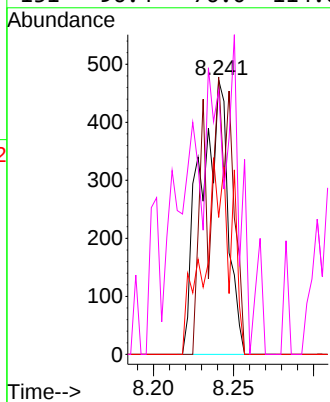
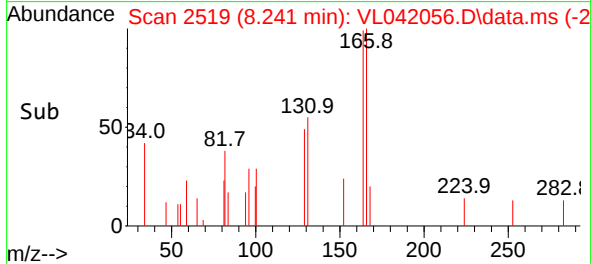
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 56
Ion Ratio Lower Upper
164 100
166 101.1 95.7 143.5
129 49.9 77.1 115.7
131 96.4 76.0 114.0

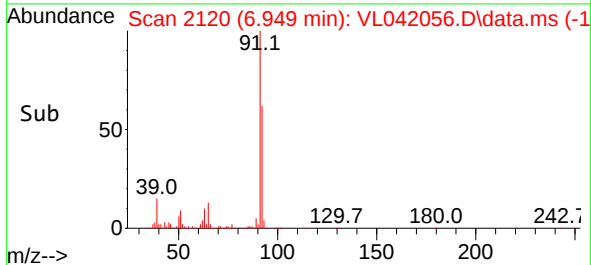
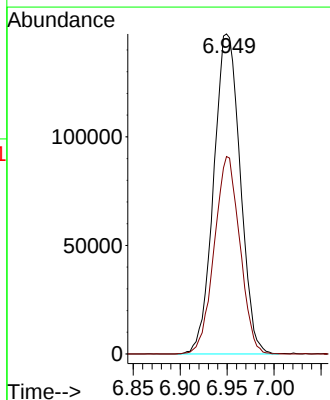
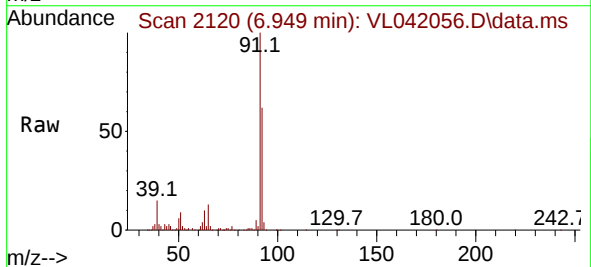
Manual Integrations
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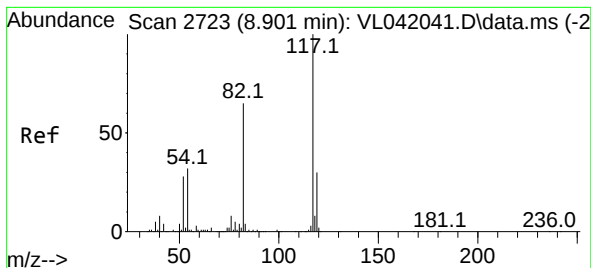
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#53
Toluene
Concen: 6.597 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

Tgt Ion: 91 Resp: 289557
Ion Ratio Lower Upper
91 100
92 59.6 49.0 73.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

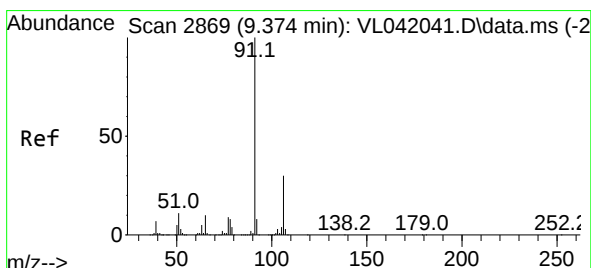
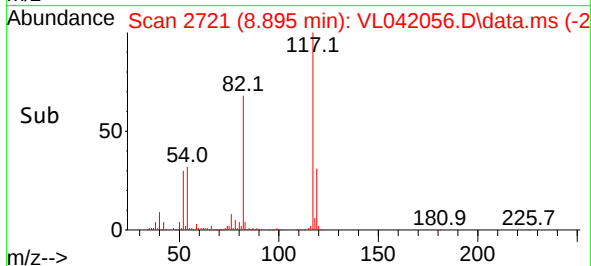
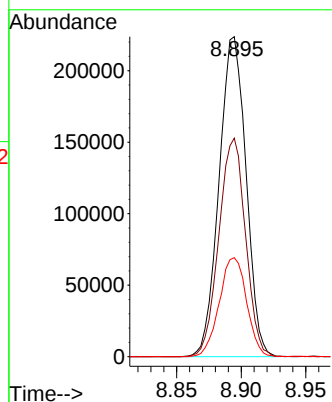
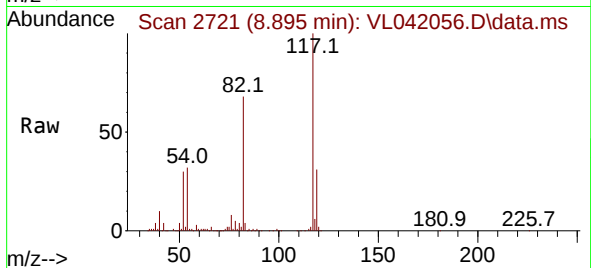
IA1

Tgt Ion:117 Resp: 325039
 Ion Ratio Lower Upper
 117 100
 82 67.6 55.0 82.6
 119 31.5 25.9 38.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025



#58

Ethyl Benzene

Concen: 0.643 ppbv

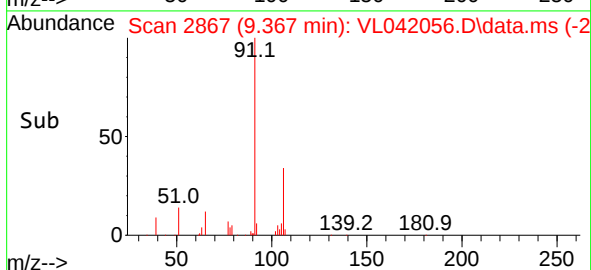
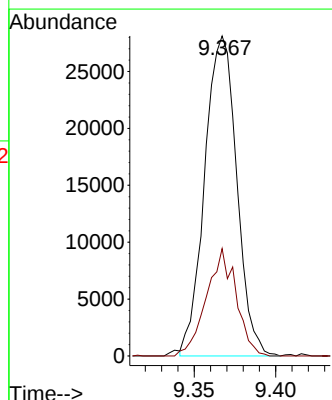
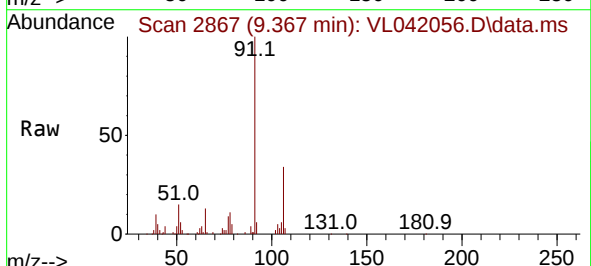
RT: 9.367 min Scan# 2867

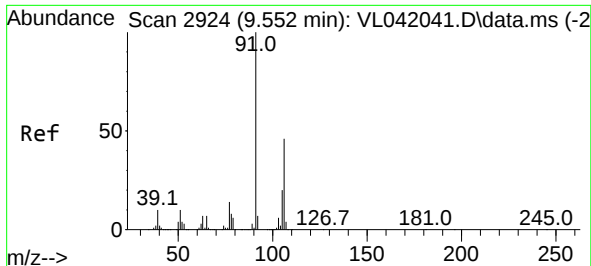
Delta R.T. -0.007 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Tgt Ion: 91 Resp: 38485
 Ion Ratio Lower Upper
 91 100
 106 33.6 24.2 36.2





#59

m/p-Xylene

Concen: 2.578 ppbv

RT: 9.542 min Scan# 2924

Delta R.T. -0.010 min

Lab File: VL042056.D

Acq: 26 Feb 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 122792

Ion Ratio Lower Upper

91 100

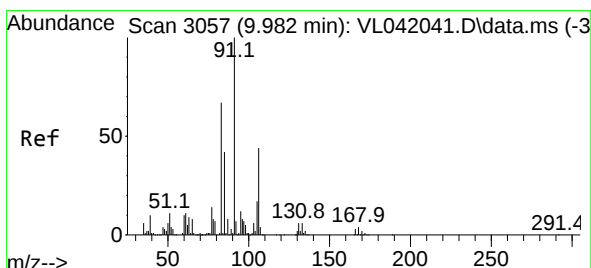
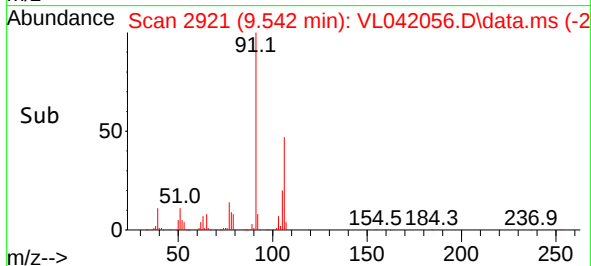
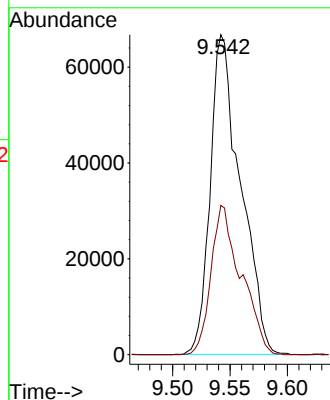
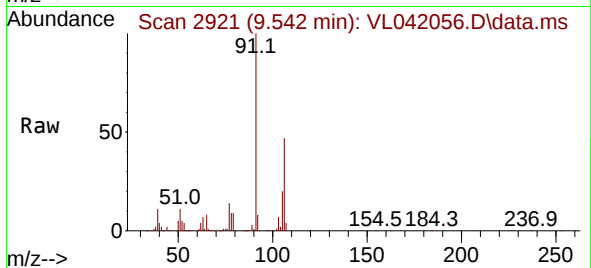
106 46.4 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#60

o-Xylene

Concen: 0.788 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. -0.010 min

Lab File: VL042056.D

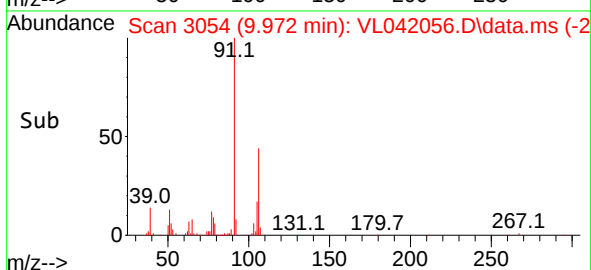
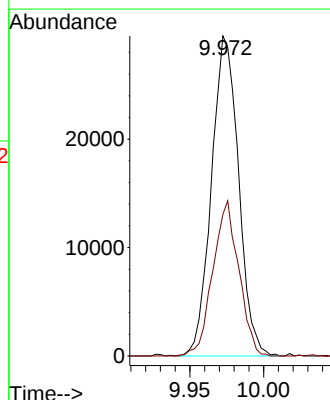
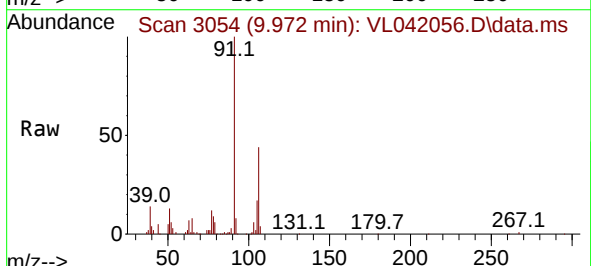
Acq: 26 Feb 2025 12:14

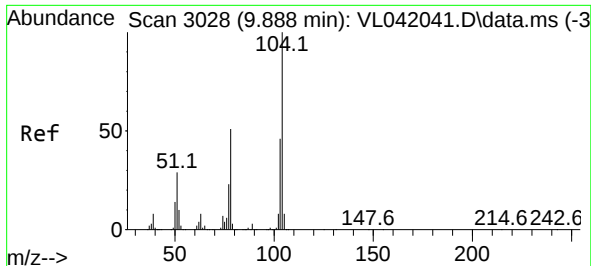
Tgt Ion: 91 Resp: 37715

Ion Ratio Lower Upper

91 100

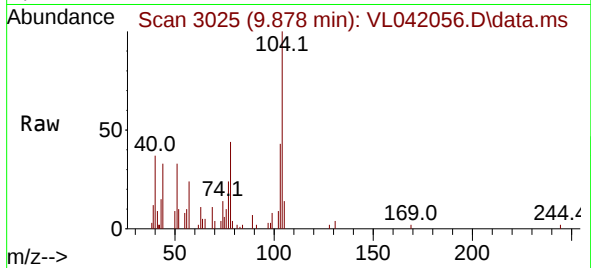
106 46.4 22.3 66.8





#61
Styrene
Concen: 0.211 ppbv
RT: 9.878 min Scan# 3028
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

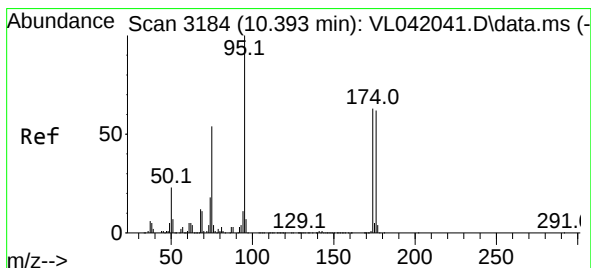
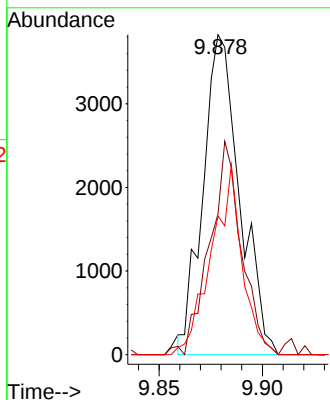
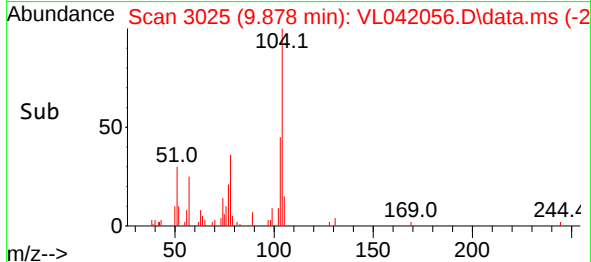
Instrument :
MSVOA_L
ClientSampleId :
IA1



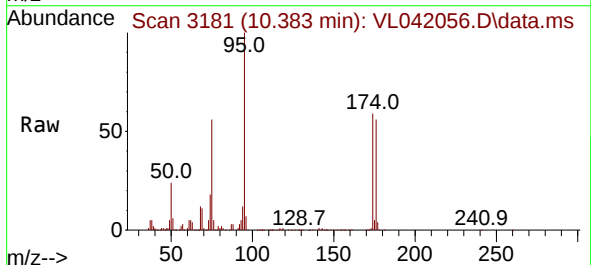
Tgt Ion:104 Resp: 4760
Ion Ratio Lower Upper
104 100
78 59.6 41.0 61.4
103 49.1 37.0 55.6

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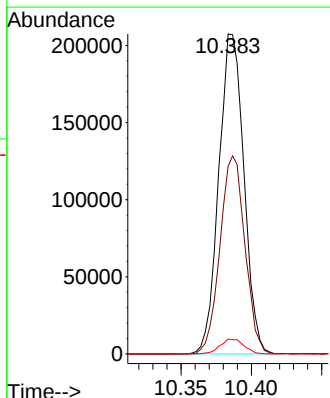
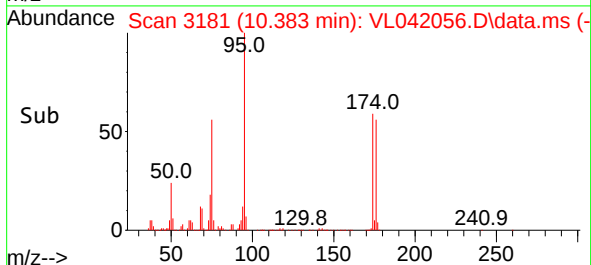
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

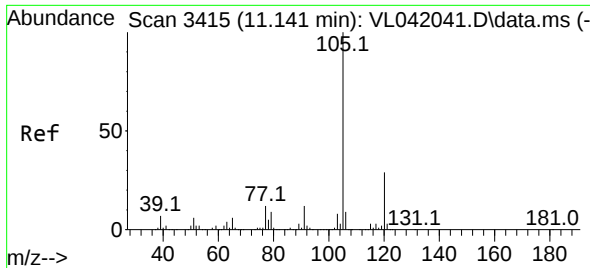


#68
1-Bromo-4-Fluorobenzene
Concen: 10.283 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.010 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



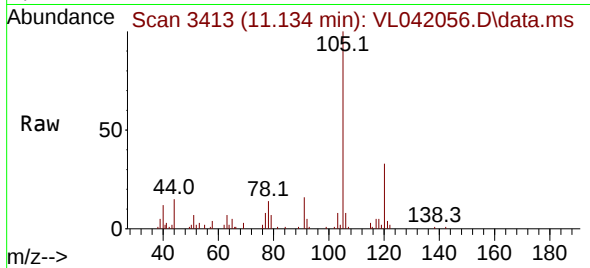
Tgt Ion: 95 Resp: 257137
Ion Ratio Lower Upper
95 100
174 61.6 51.8 77.6
175 4.5 3.9 5.9





#72
4-Ethyltoluene
Concen: 0.170 ppbv
RT: 11.134 min Scan# 3415
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

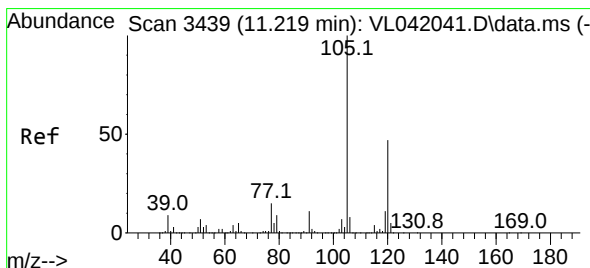
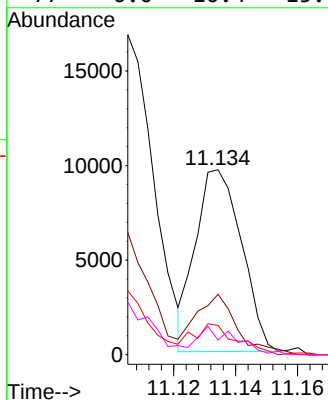
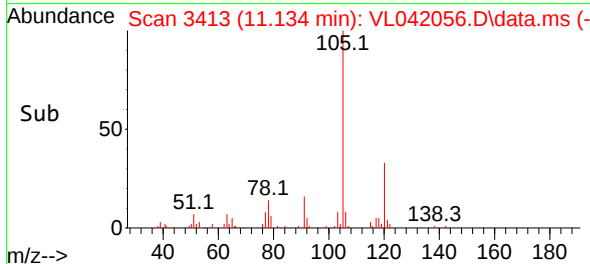
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:105 Resp: 991
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1
91 0.0 10.2 15.4
77 0.0 10.4 15.6#

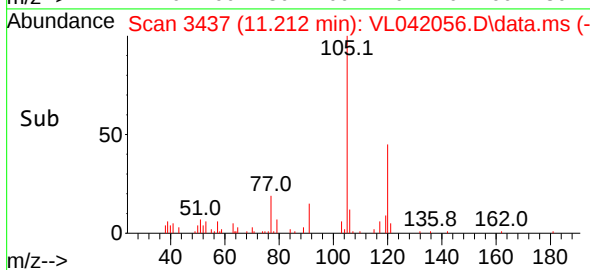
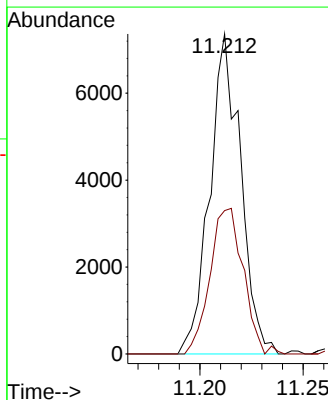
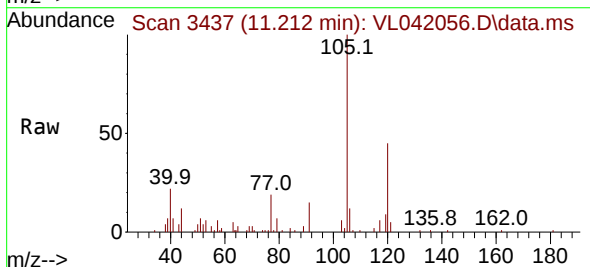
Manual Integrations
APPROVED

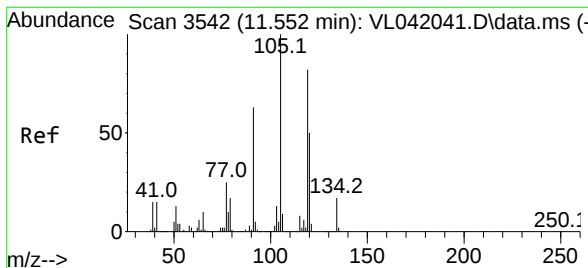
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.151 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

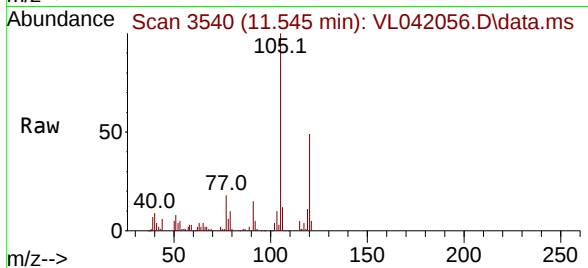
Tgt Ion:105 Resp: 7643
Ion Ratio Lower Upper
105 100
120 44.8 37.4 56.0





#74
1,2,4-Trimethylbenzene
Concen: 0.433 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.007 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14

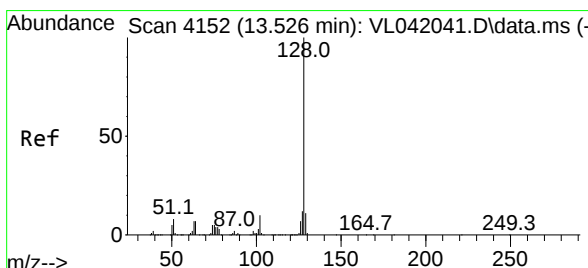
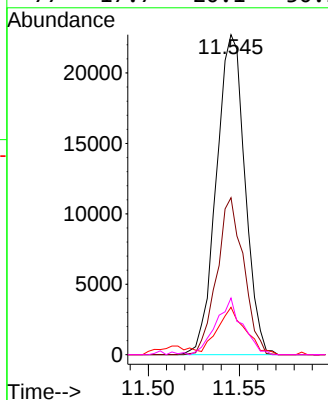
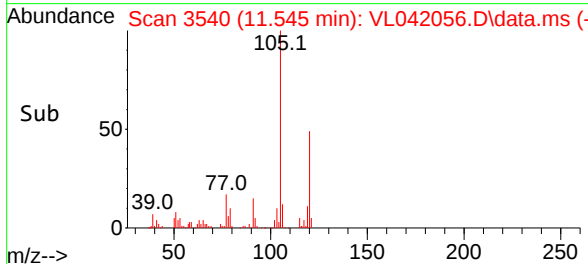
Instrument :
MSVOA_L
ClientSampleId :
IA1



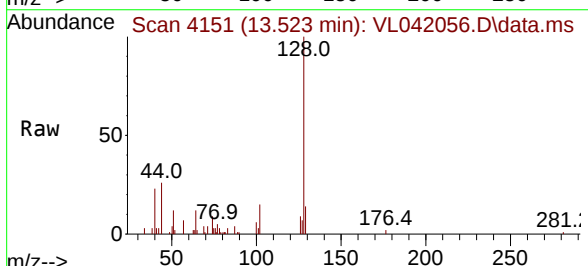
Tgt Ion:105 Resp: 2470
Ion Ratio Lower Upper
105 100
120 49.0 40.2 60.2
91 14.8 51.4 77.2
77 17.7 20.1 30.1#

Manual Integrations
APPROVED

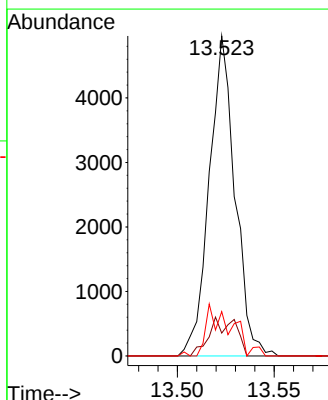
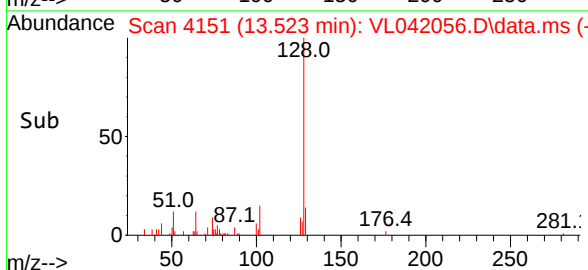
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#79
Naphthalene
Concen: 0.118 ppbv
RT: 13.523 min Scan# 4151
Delta R.T. -0.003 min
Lab File: VL042056.D
Acq: 26 Feb 2025 12:14



Tgt Ion:128 Resp: 4612
Ion Ratio Lower Upper
128 100
127 7.1 9.8 14.6#
129 13.8 8.6 12.8#



Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	OA1	SDG No.:	Q1430
Lab Sample ID:	Q1430-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042058.D	1		02/26/25 13:21	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.43	2.13	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	1.50	3.10		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.25	0.76	J	0.58	1.52	ug/m3
142-82-5	Heptane	0.24	0.98	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	9.50	22.6		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.90	6.60		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.74	2.18		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.11	0.54	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.15	0.70	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.33	1.05	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.82	3.09		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	OA1	SDG No.:	Q1430
Lab Sample ID:	Q1430-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042058.D	1		02/26/25 13:21	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.080	0.54		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.34	1.48	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	J	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.62	2.19		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000		2.797			
540-36-3	1,4-Difluorobenzene	369000		3.971			
3114-55-4	Chlorobenzene-d5	321000		8.898			

Report of Analysis

Client:	GFE LLC	Date Collected:	02/25/25
Project:	38-11 31st St, Long Island City, NY	Date Received:	02/25/25
Client Sample ID:	OA1	SDG No.:	Q1430
Lab Sample ID:	Q1430-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042058.D	1		02/26/25 13:21	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042058.D
 Acq On : 26 Feb 2025 13:21
 Operator : SY/MD
 Sample : Q1430-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:29:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	158058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	369297	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	320901	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	250640	10.152	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	7122	0.433	ppbv	96
3) Chlorodifluoromethane	1.479	51	12853m	0.560	ppbv	
4) Chloromethane	1.538	50	8995	1.480	ppbv	92
9) Propene	1.489	41	12657	1.352	ppbv	87
10) Heptane	5.007	43	7010m	0.241	ppbv	
11) Trichlorofluoromethane	1.884	101	3953	0.240	ppbv	89
13) Ethanol	1.725	45	38875	65.437	ppbv	90
15) Acetone	1.842	43	132778	9.513	ppbv	99
17) tert-Butyl alcohol	2.052	59	4414	0.253	ppbv	95
19) Isopropyl Alcohol	1.894	45	42856	5.345	ppbv #	46
20) Methylene Chloride	2.068	84	10038	1.901	ppbv	94
26) Hexane	2.835	57	13945	0.617	ppbv #	59
29) Chloroform	2.855	83	3270	0.108	ppbv	100
34) 2-Butanone	2.570	43	21157	0.735	ppbv	95
35) Carbon Tetrachloride	3.768	117	2090m	0.082	ppbv	
36) Benzene	3.674	78	12783	0.331	ppbv	98
44) 2,2,4-Trimethylpentane	4.661	57	10220m	0.150	ppbv	
52) Tetrachloroethene	8.244	164	1014m	0.077	ppbv	
53) Toluene	6.959	91	35528	0.822	ppbv	97
58) Ethyl Benzene	9.367	91	5977m	0.101	ppbv	
59) m/p-Xylene	9.548	91	15937m	0.339	ppbv	
60) o-Xylene	9.975	91	5607	0.119	ppbv	99

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

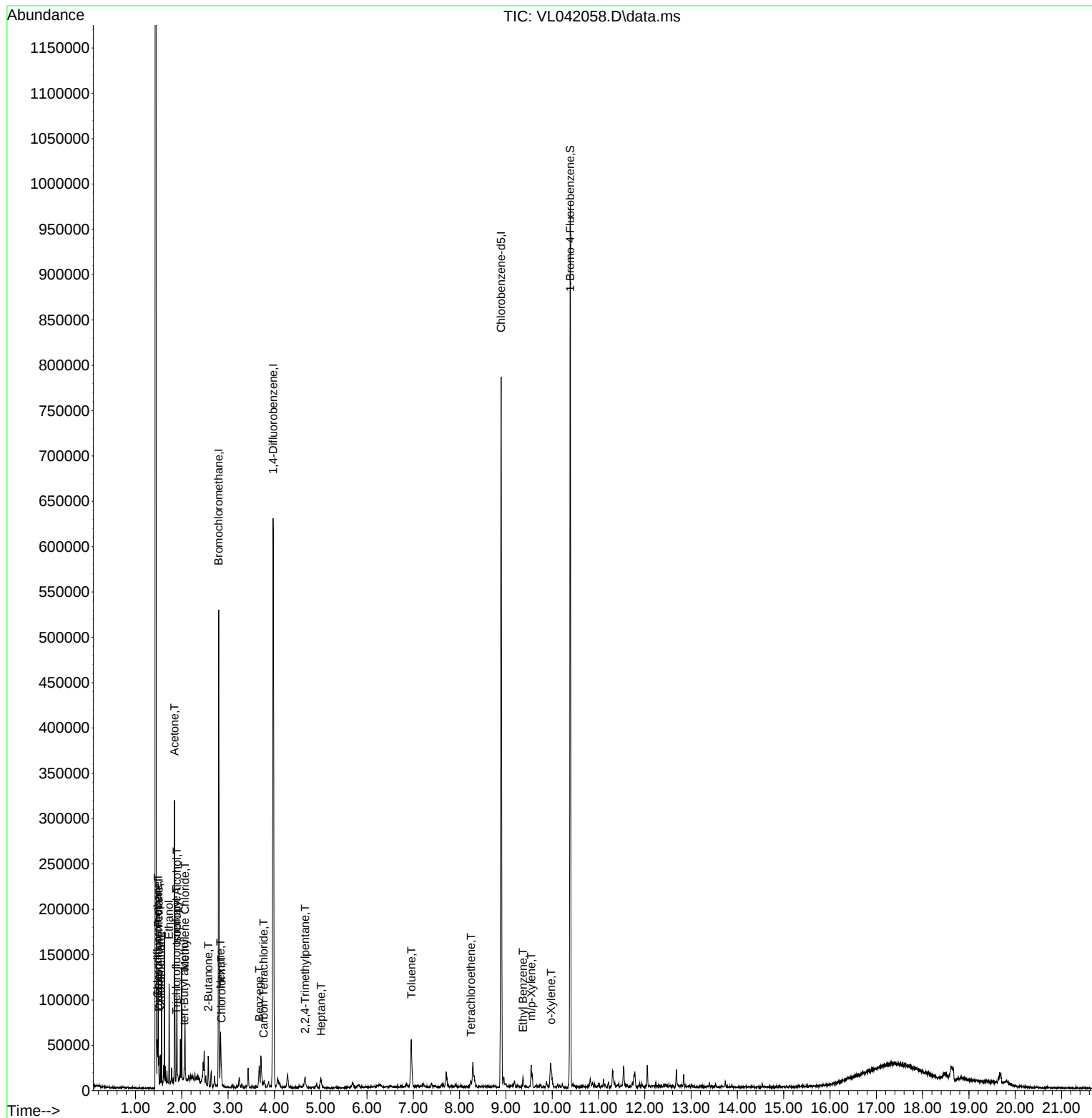
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042058.D
Acq On : 26 Feb 2025 13:21
Operator : SY/MD
Sample : Q1430-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

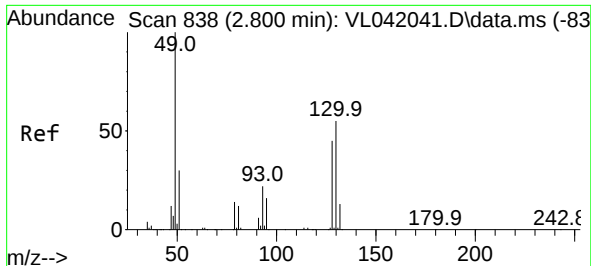
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Feb 27 00:29:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

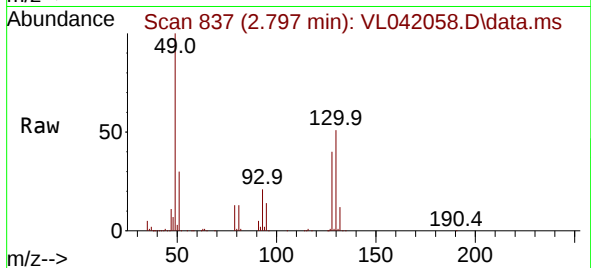
Reviewed By : Semsettin Yesilyurt 02/27/2025
Supervised By : Mahesh Dadoda 02/27/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

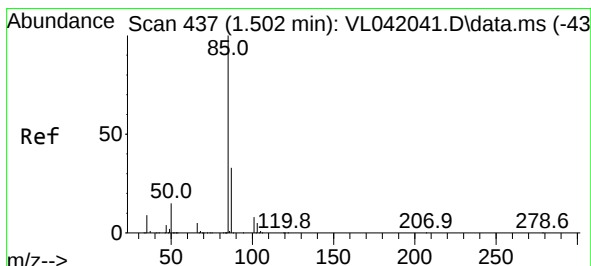
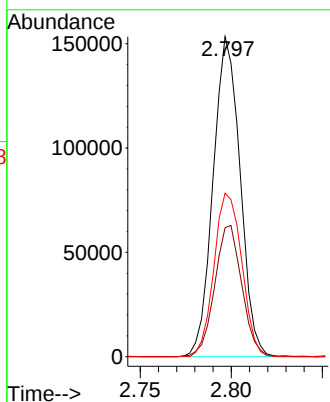
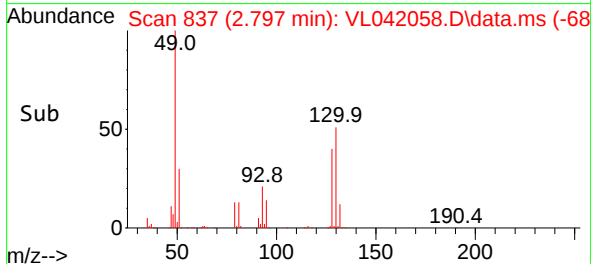
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 158058
Ion Ratio Lower Upper
49 100
128 41.2 21.6 64.8
130 52.5 27.8 83.4

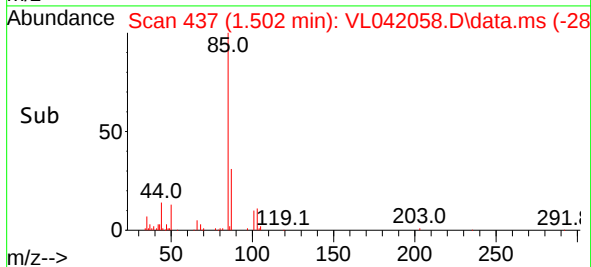
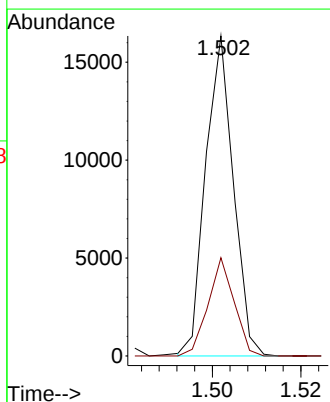
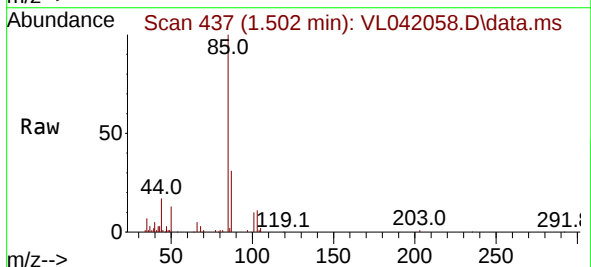
Manual Integrations
APPROVED

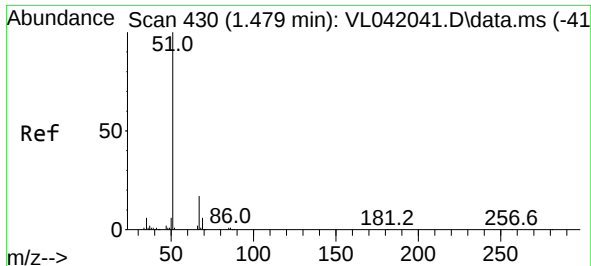
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#2
Dichlorodifluoromethane
Concen: 0.433 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Tgt Ion: 85 Resp: 7122
Ion Ratio Lower Upper
85 100
87 30.7 26.4 39.6





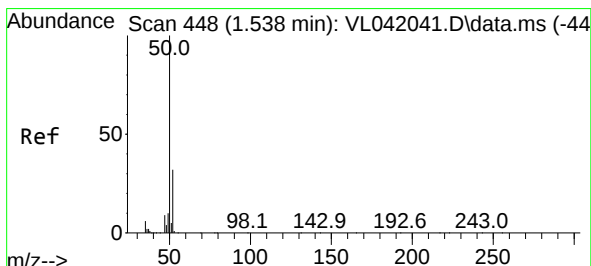
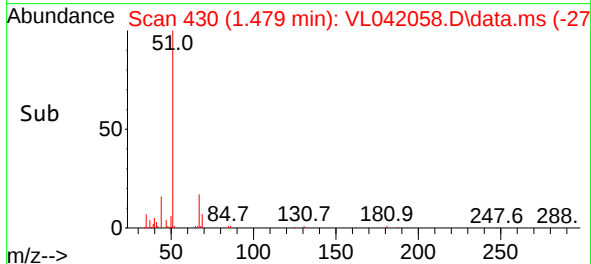
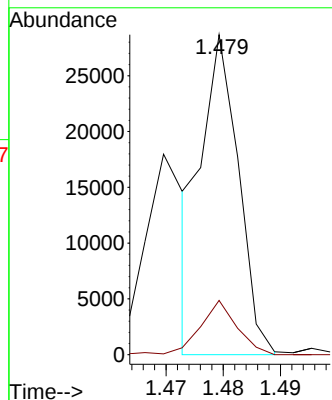
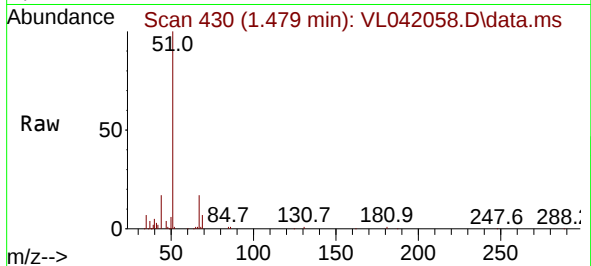
#3
Chlorodifluoromethane
Concen: 0.560 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 1285
Ion Ratio Lower Upper
51 100
67 17.2 13.7 20.5

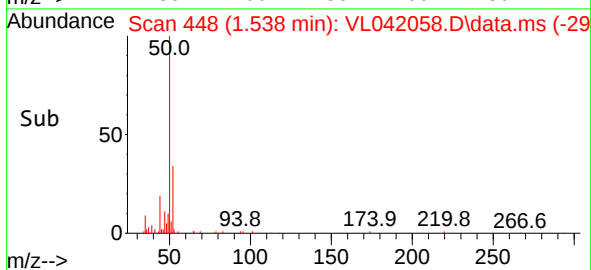
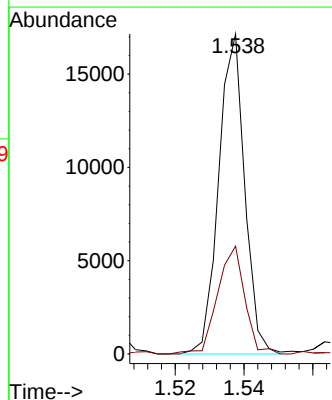
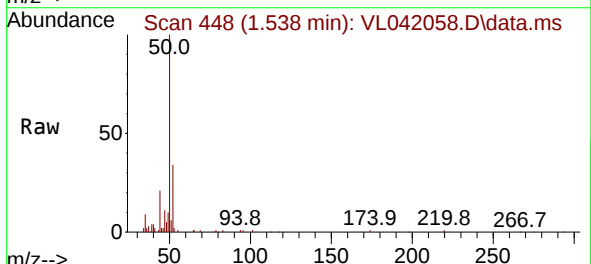
Manual Integrations
APPROVED

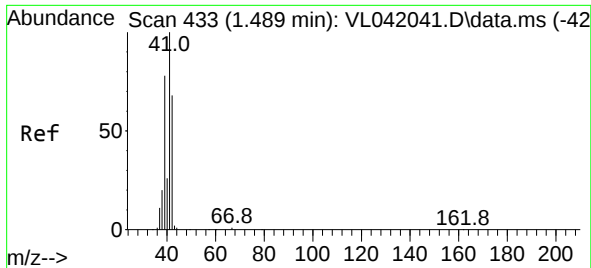
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#4
Chloromethane
Concen: 1.480 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

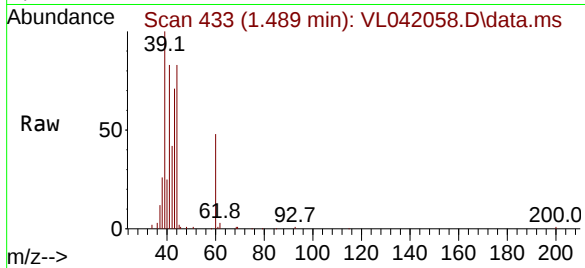
Tgt Ion: 50 Resp: 8995
Ion Ratio Lower Upper
50 100
52 35.9 25.4 38.0





#9
Propene
Concen: 1.352 ppbv
RT: 1.489 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

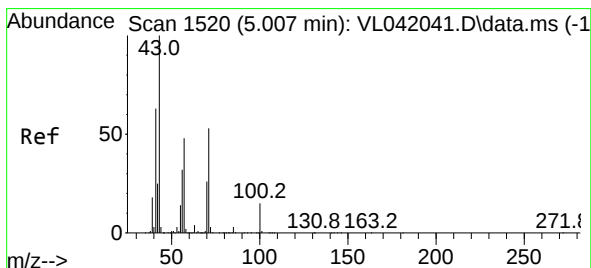
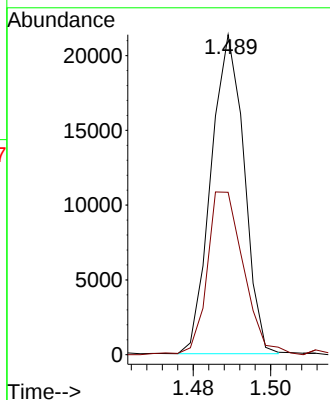
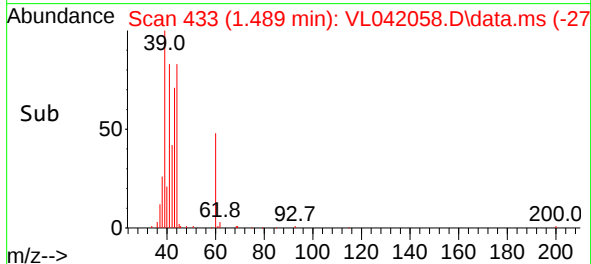
Instrument :
MSVOA_L
ClientSampleId :
OA1



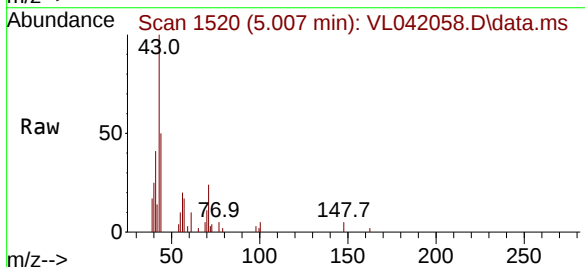
Tgt Ion: 41 Resp: 1265
Ion Ratio Lower Upper
41 100
42 59.2 55.8 83.6

Manual Integrations
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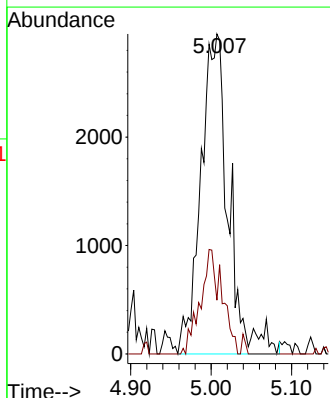
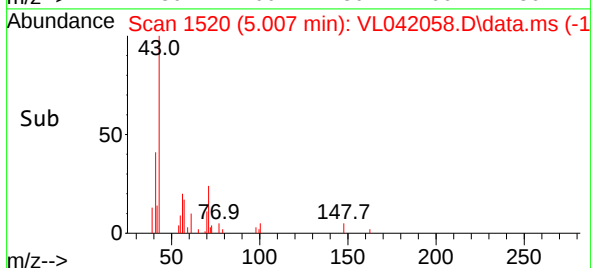
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

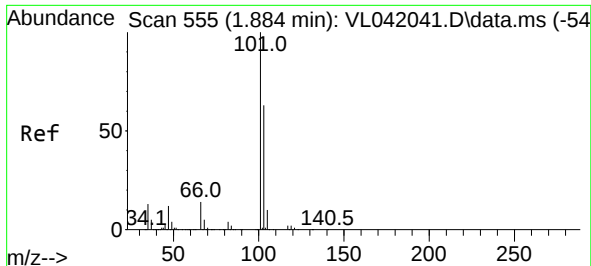


#10
Heptane
Concen: 0.241 ppbv m
RT: 5.007 min Scan# 1520
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21



Tgt Ion: 43 Resp: 7010
Ion Ratio Lower Upper
43 100
57 26.4 39.4 59.0#





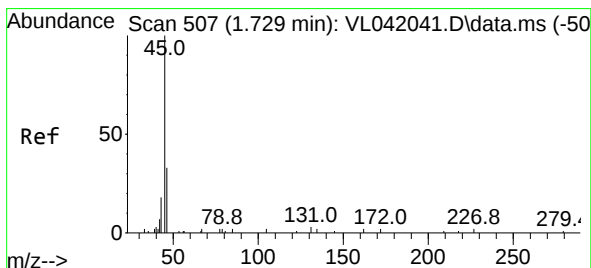
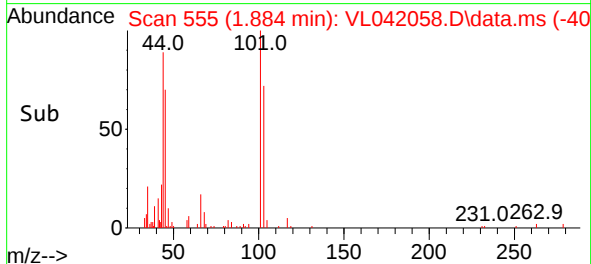
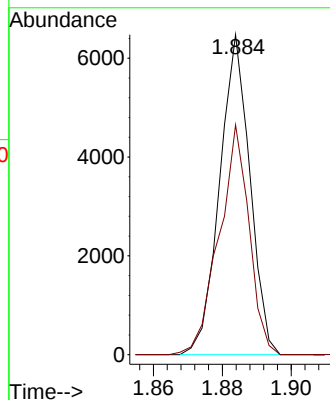
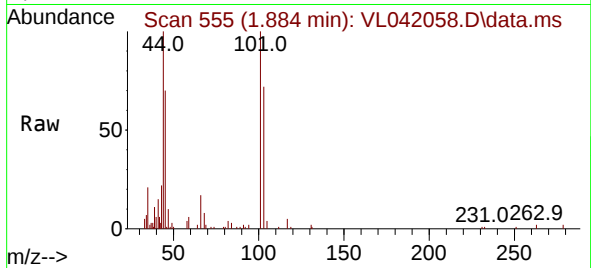
#11
Trichlorofluoromethane
Concen: 0.240 ppbv
RT: 1.884 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:101 Resp: 395
Ion Ratio Lower Upper
101 100
103 71.8 50.6 75.8

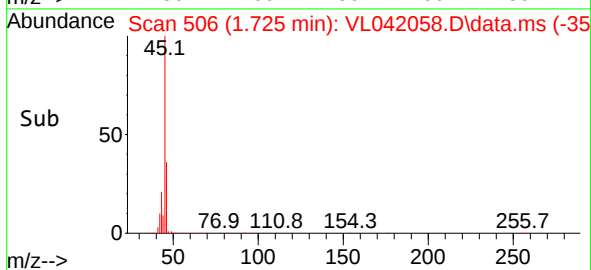
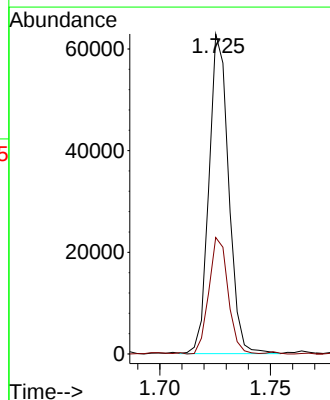
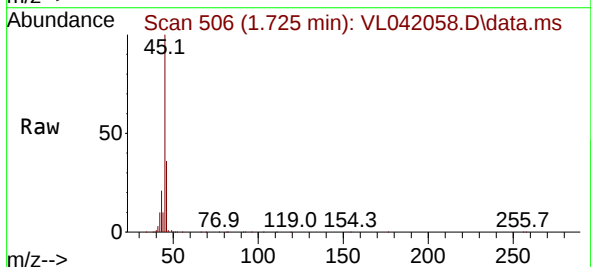
Manual Integrations
APPROVED

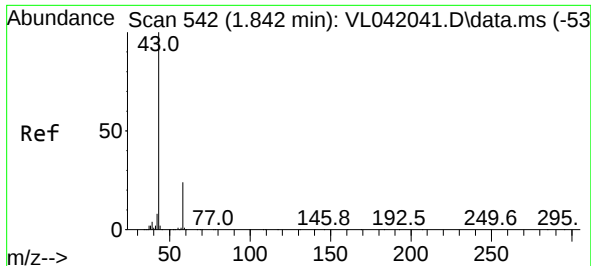
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#13
Ethanol
Concen: 65.437 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

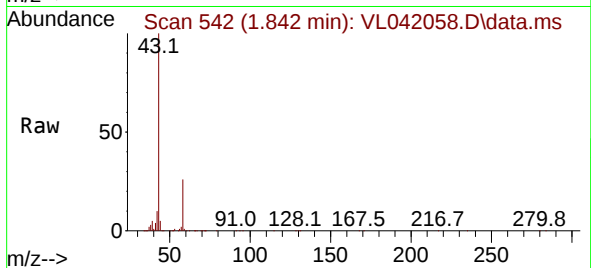
Tgt Ion: 45 Resp: 38875
Ion Ratio Lower Upper
45 100
46 36.6 17.1 68.3





#15
Acetone
Concen: 9.513 ppbv
RT: 1.842 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

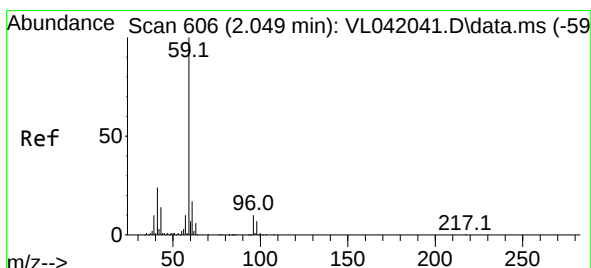
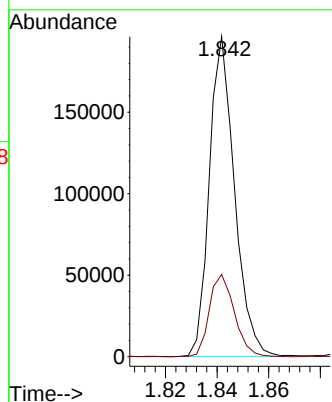
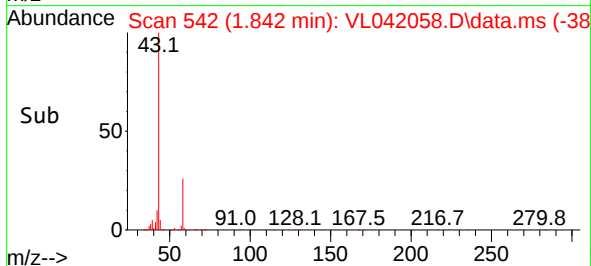
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 132778
Ion Ratio Lower Upper
43 100
58 25.6 20.7 31.1

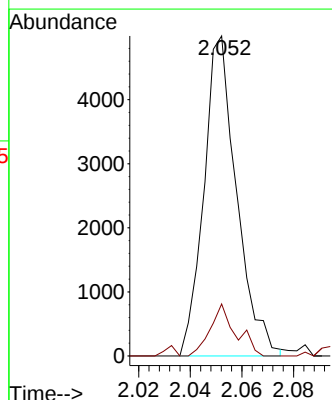
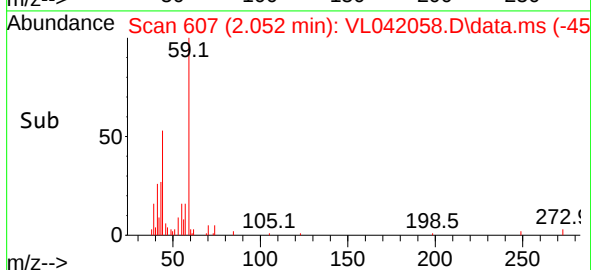
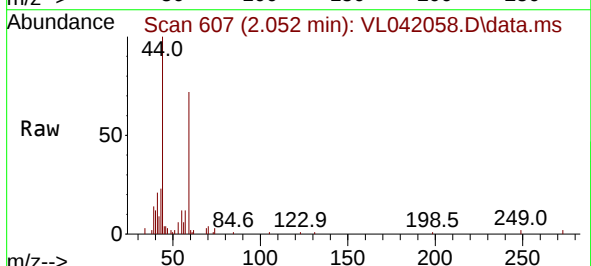
Manual Integrations
APPROVED

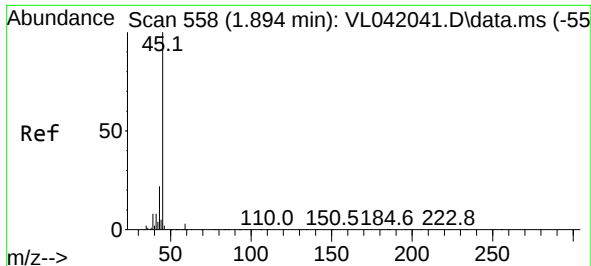
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#17
tert-Butyl alcohol
Concen: 0.253 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.003 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

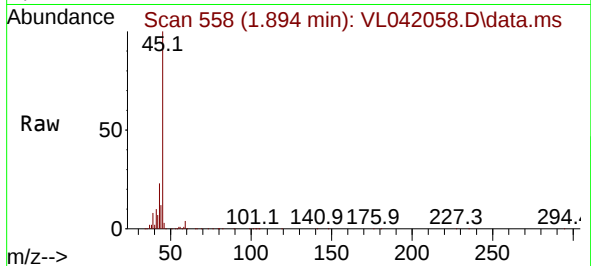
Tgt Ion: 59 Resp: 4414
Ion Ratio Lower Upper
59 100
57 13.7 9.3 13.9





#19
Isopropyl Alcohol
Concen: 5.345 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

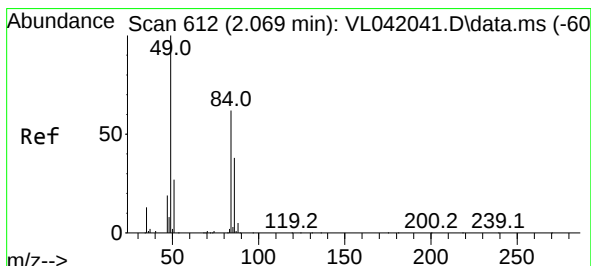
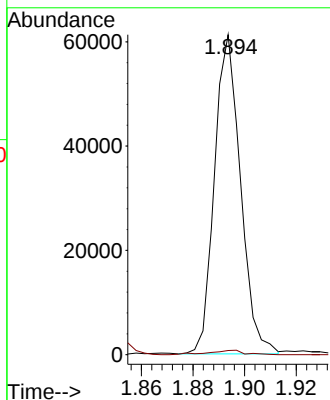
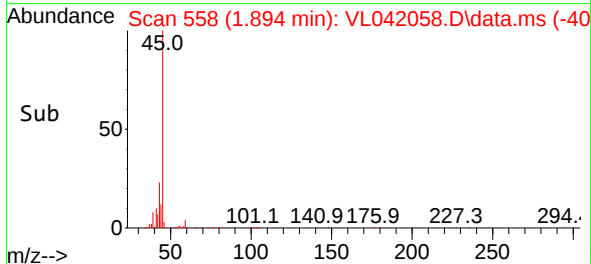
Instrument :
MSVOA_L
ClientSampleId :
OA1



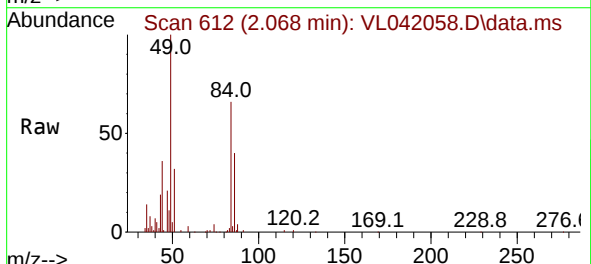
Tgt Ion: 45 Resp: 42850
Ion Ratio Lower Upper
45 100
58 79.3 35.3 52.9

Manual Integrations
APPROVED

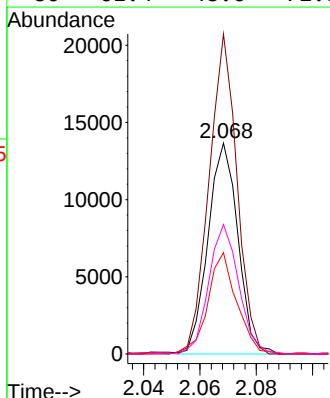
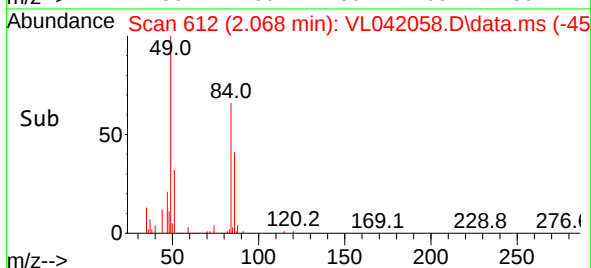
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

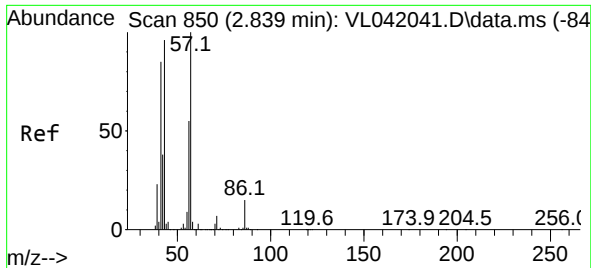


#20
Methylene Chloride
Concen: 1.901 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21



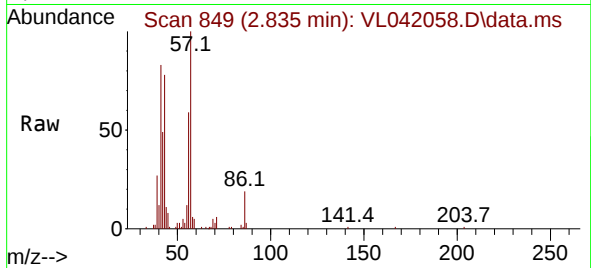
Tgt Ion: 84 Resp: 10038
Ion Ratio Lower Upper
84 100
49 150.9 130.0 195.0
51 48.0 37.4 56.0
86 61.4 48.6 72.8





#26
Hexane
Concen: 0.617 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

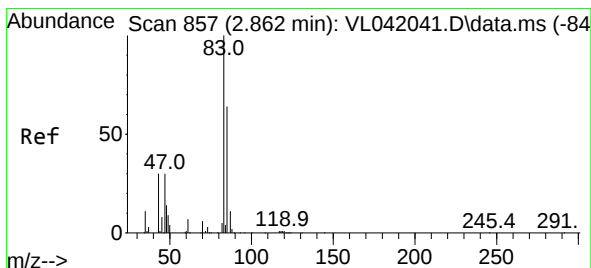
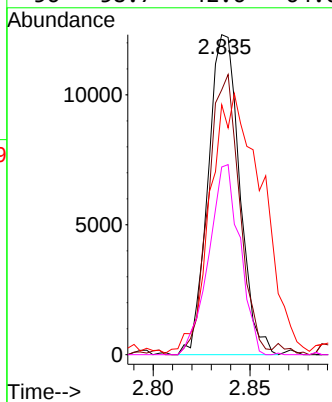
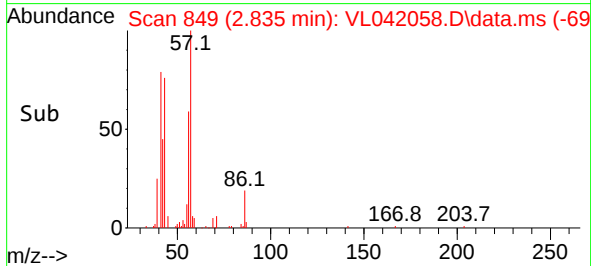
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 1394
Ion Ratio Lower Upper
57 100
41 89.2 70.6 106.0
43 140.0 199.4 299.0
56 58.7 42.6 64.0

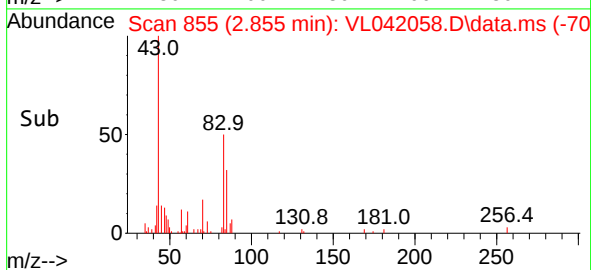
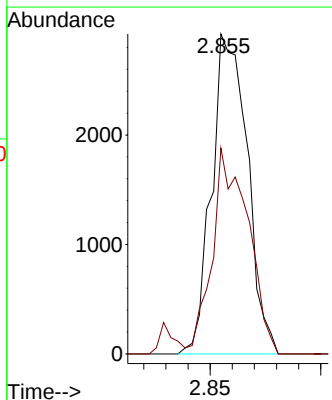
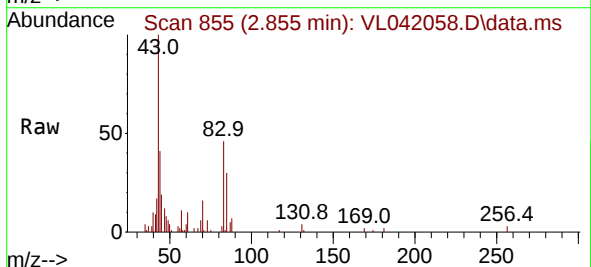
Manual Integrations
APPROVED

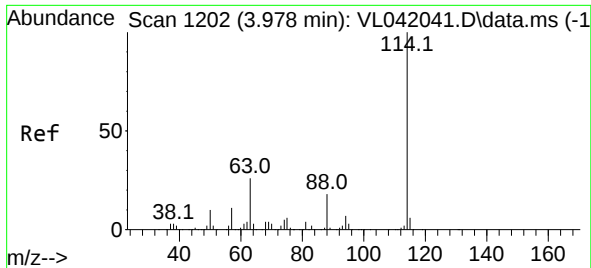
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#29
Chloroform
Concen: 0.108 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.007 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Tgt Ion: 83 Resp: 3270
Ion Ratio Lower Upper
83 100
85 64.3 51.2 76.8





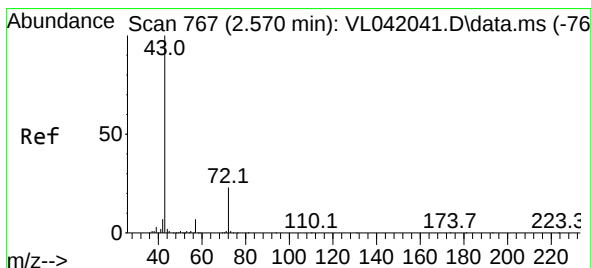
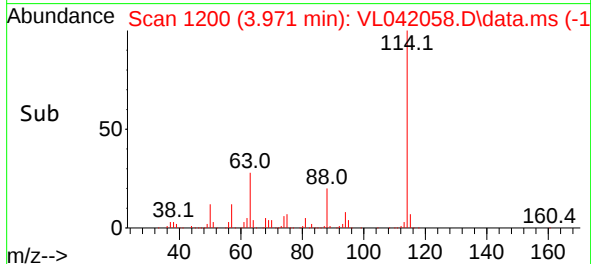
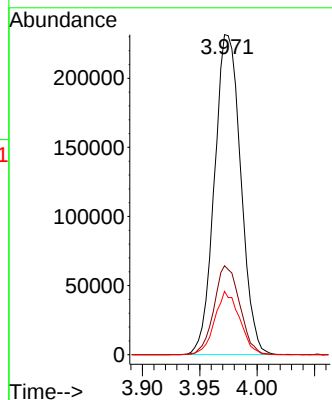
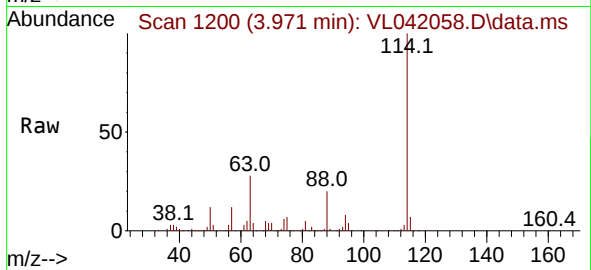
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 114
Delta R.T. -0.007 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:114 Resp: 36929
Ion Ratio Lower Upper
114 100
63 27.2 20.1 30.1
88 18.7 14.3 21.5

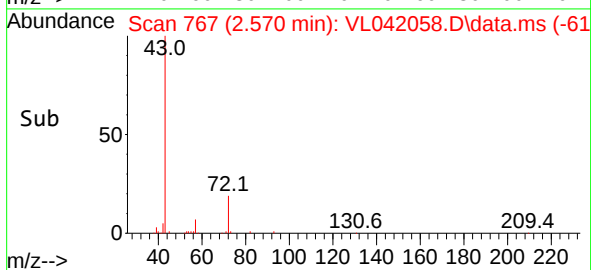
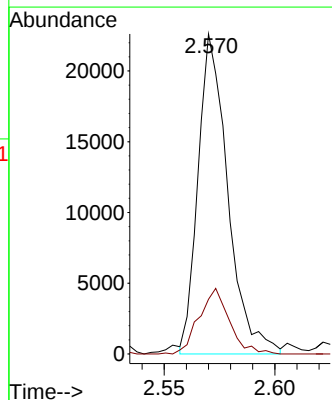
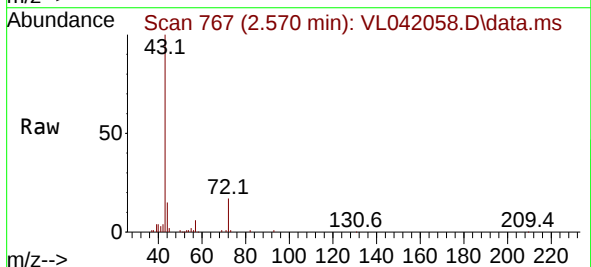
Manual Integrations
APPROVED

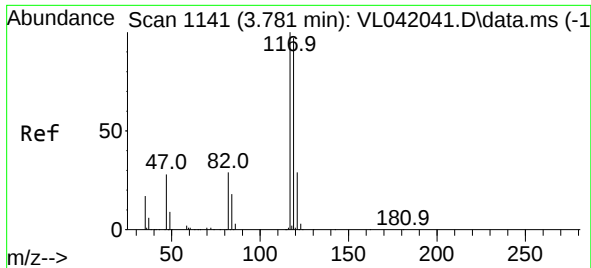
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#34
2-Butanone
Concen: 0.735 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

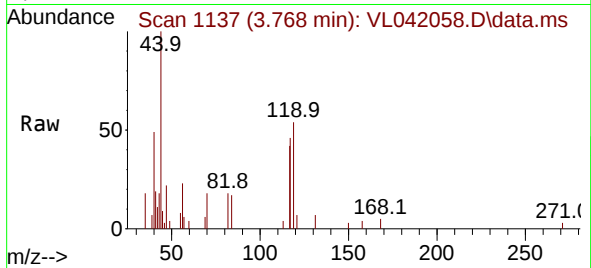
Tgt Ion: 43 Resp: 21157
Ion Ratio Lower Upper
43 100
72 20.9 18.5 27.7





#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.013 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

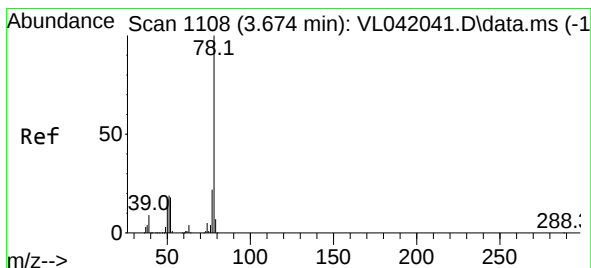
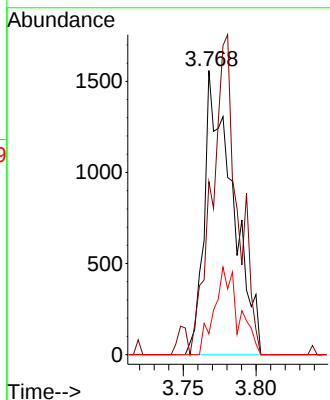
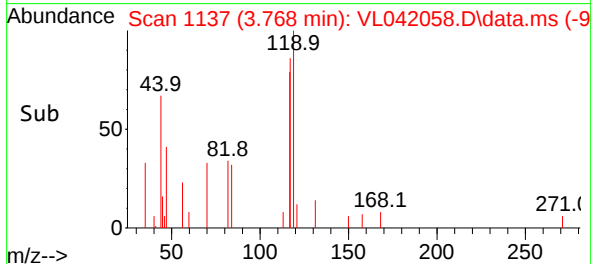
Instrument :
MSVOA_L
ClientSampleId :
OA1



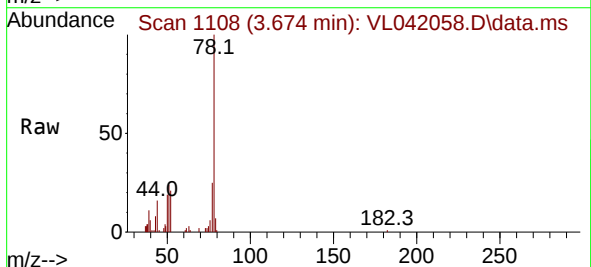
Tgt Ion:117 Resp: 2090
Ion Ratio Lower Upper
117 100
119 116.7 77.8 116.8
121 14.1 23.4 35.0

Manual Integrations
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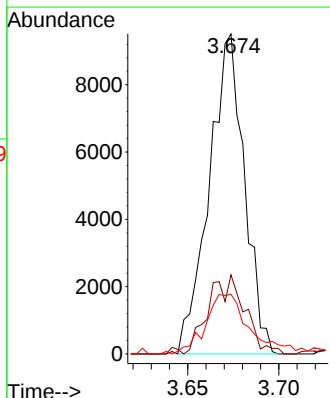
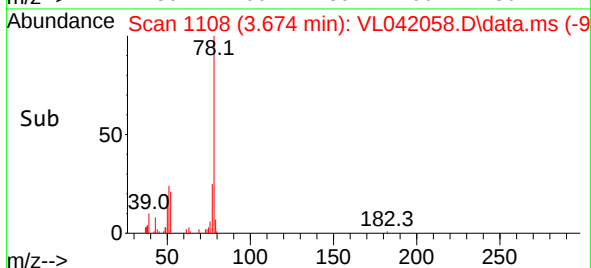
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

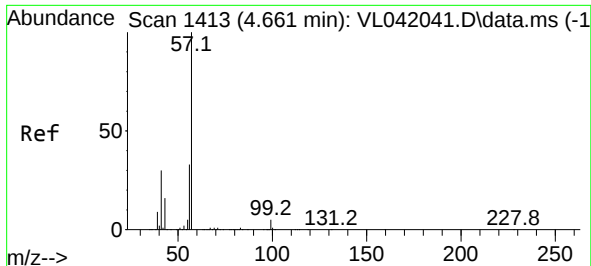


#36
Benzene
Concen: 0.331 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21



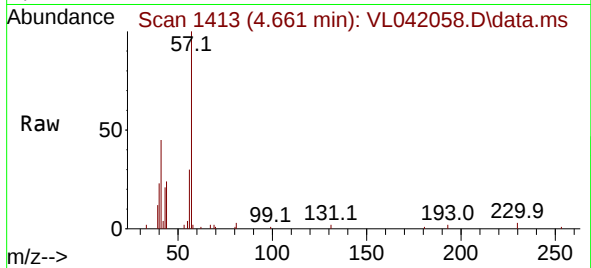
Tgt Ion: 78 Resp: 12783
Ion Ratio Lower Upper
78 100
77 23.3 17.7 26.5
50 17.7 13.9 20.9





#44
2,2,4-Trimethylpentane
Concen: 0.150 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

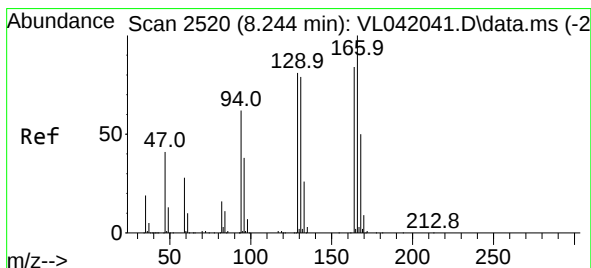
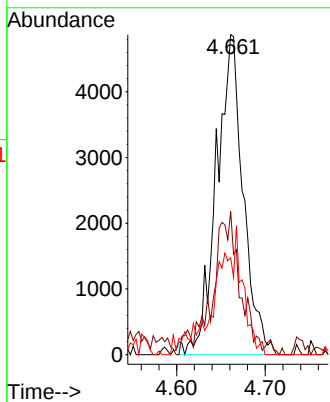
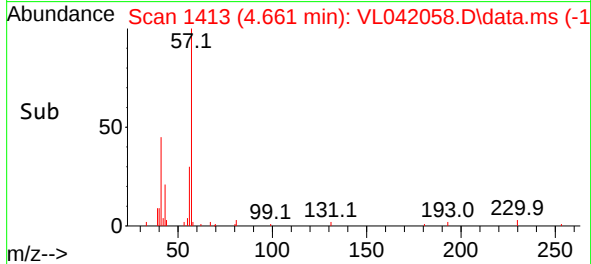
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 10220
Ion Ratio Lower Upper
57 100
41 47.2 24.4 36.6
56 41.2 26.5 39.7

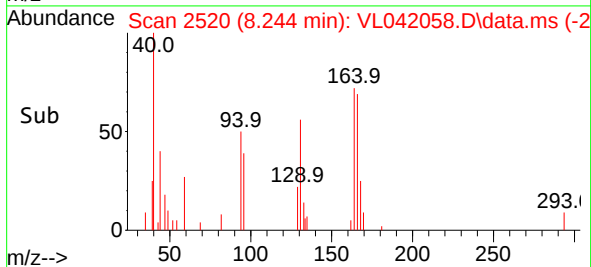
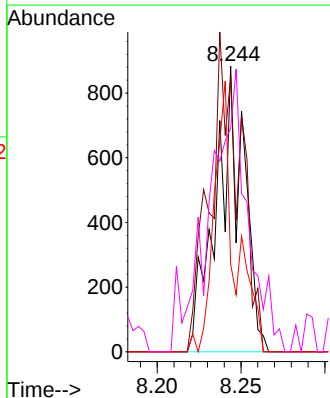
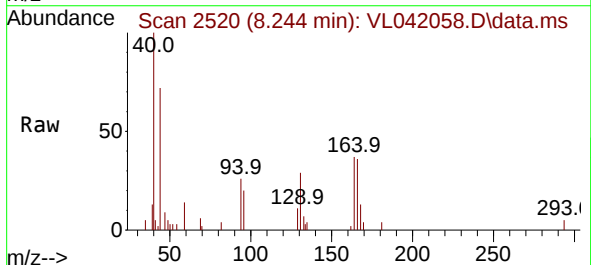
Manual Integrations
APPROVED

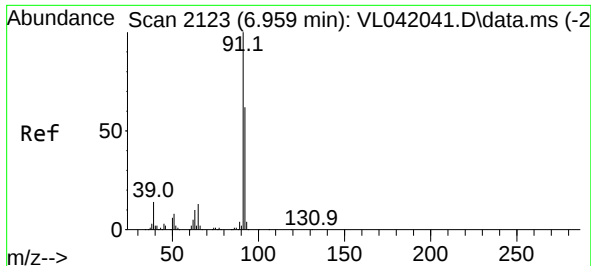
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#52
Tetrachloroethene
Concen: 0.077 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Tgt Ion:164 Resp: 1014
Ion Ratio Lower Upper
164 100
166 96.3 95.7 143.5
129 30.7 77.1 115.7#
131 78.4 76.0 114.0





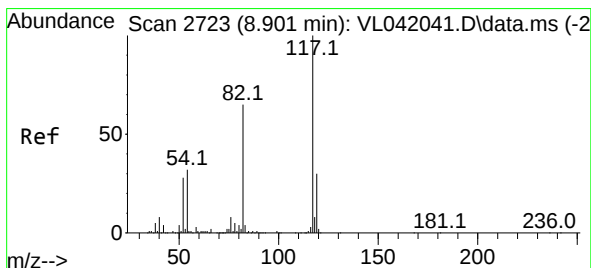
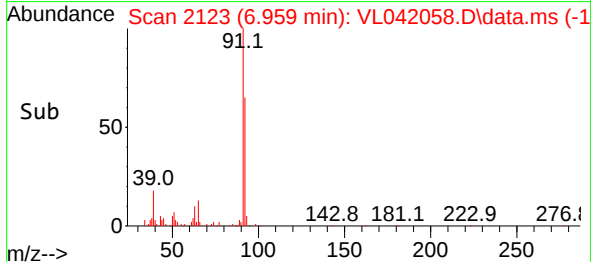
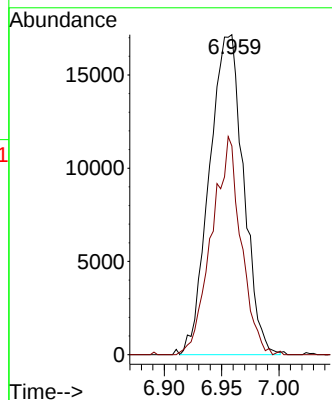
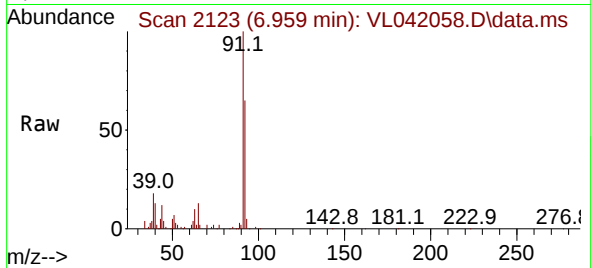
#53
Toluene
Concen: 0.822 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. -0.000 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 35528
Ion Ratio Lower Upper
91 100
92 58.8 49.0 73.6

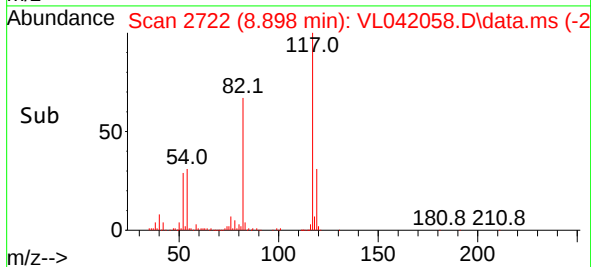
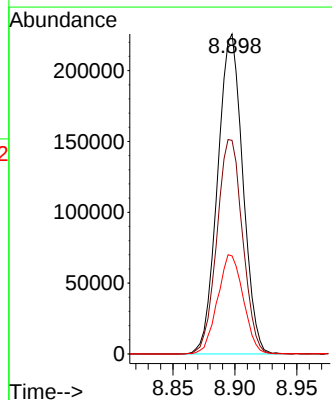
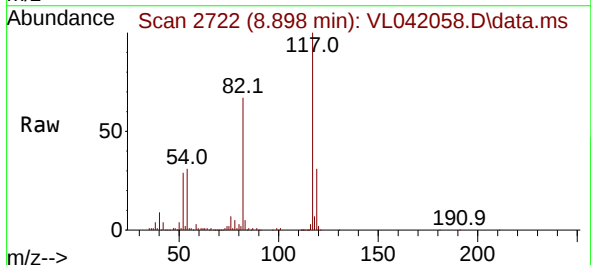
Manual Integrations
APPROVED

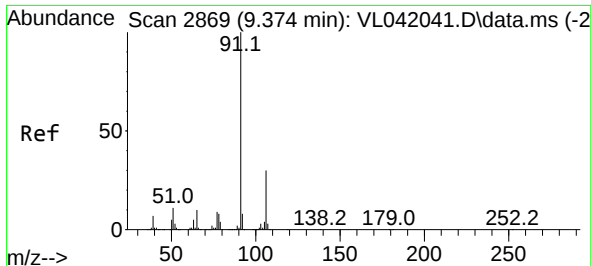
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Tgt Ion:117 Resp: 320901
Ion Ratio Lower Upper
117 100
82 68.3 55.0 82.6
119 31.7 25.9 38.9





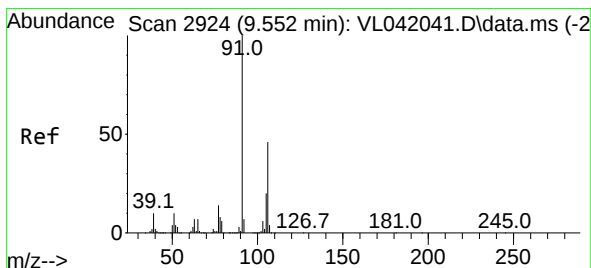
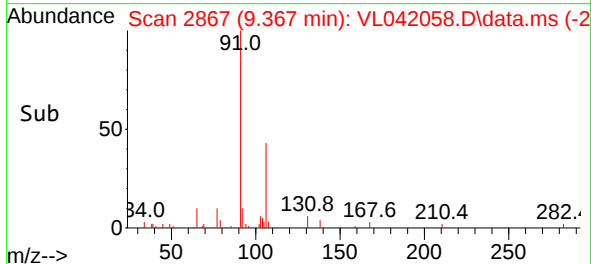
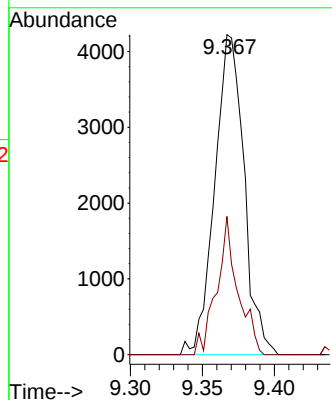
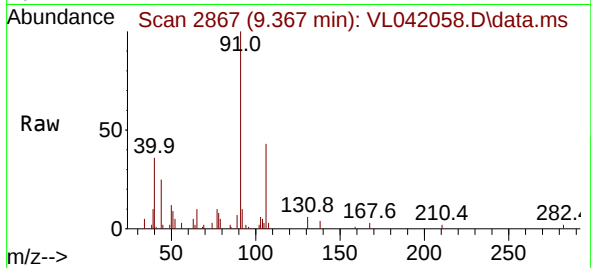
#58
Ethyl Benzene
Concen: 0.101 ppbv m
RT: 9.367 min Scan# 2867
Delta R.T. -0.007 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 597
Ion Ratio Lower Upper
91 100
106 43.2 24.2 36.2

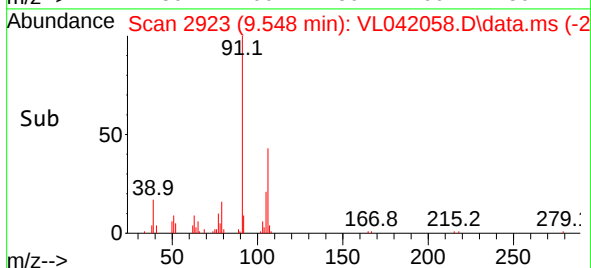
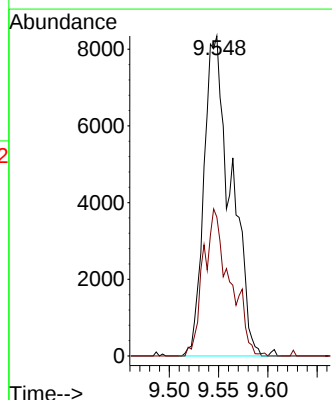
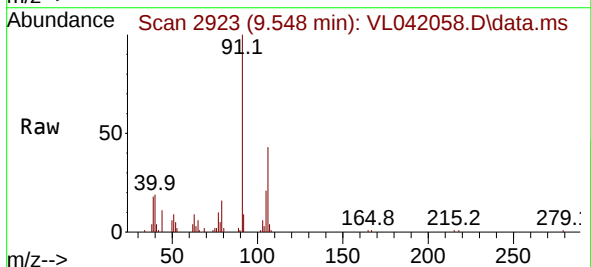
Manual Integrations
APPROVED

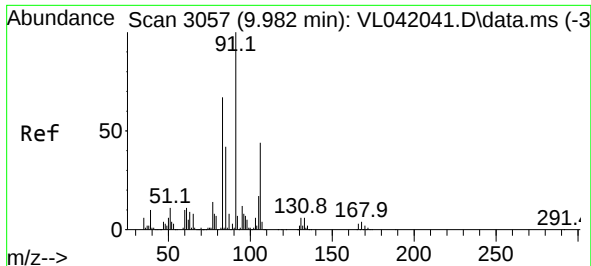
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#59
m/p-Xylene
Concen: 0.339 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Tgt Ion: 91 Resp: 15937
Ion Ratio Lower Upper
91 100
106 45.3 0.0 0.0





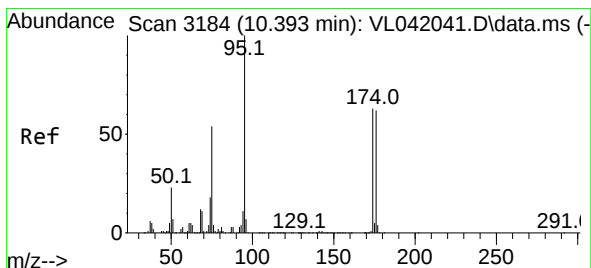
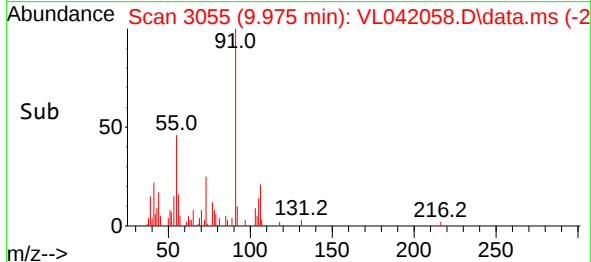
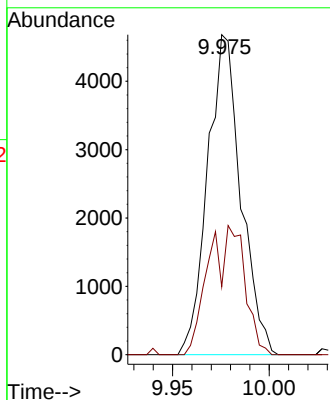
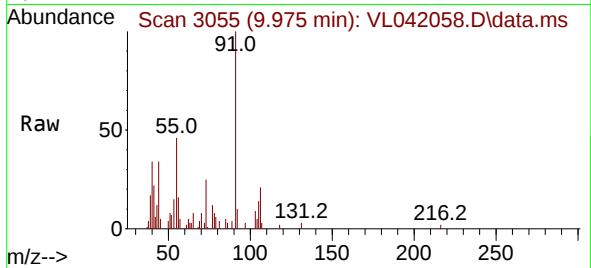
#60
o-Xylene
Concen: 0.119 ppbv
RT: 9.975 min Scan# 3055
Delta R.T. -0.007 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 560
Ion Ratio Lower Upper
91 100
106 44.1 22.3 66.8

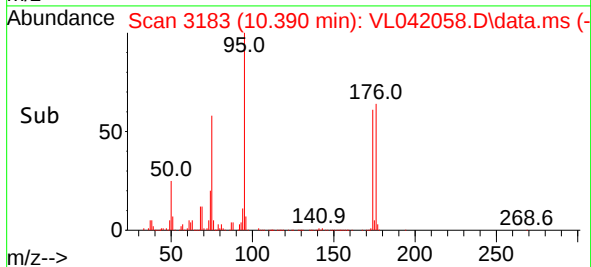
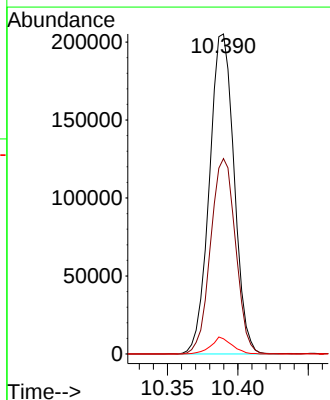
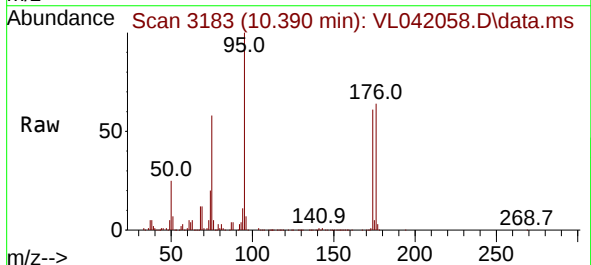
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.152 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042058.D
Acq: 26 Feb 2025 13:21

Tgt Ion: 95 Resp: 250640
Ion Ratio Lower Upper
95 100
174 61.8 51.8 77.6
175 4.5 3.9 5.9





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG No.: Q1430

Instrument ID: MSVOA_L Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:								
RRF010 = VL042041.D			RRF002 = VL042042.D			RRF001 = VL042043.D		
RRF0.5 = VL042044.D			RRF0.1 = VL042045.D			RRF.03 = VL042046.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Dichlorodifluoromethane	0.943	1.091	1.084	1.109			1.040	7.3
Chloromethane	0.344	0.399	0.398	0.438			0.385	10.5
Vinyl Chloride	0.337	0.361	0.346	0.376	0.336	0.447	0.364	10.9
Bromomethane	0.160	0.186	0.184	0.170			0.173	6.6
Chloroethane	0.135	0.156	0.158	0.151			0.148	6.8
Tetrahydrofuran	0.418	0.473	0.492	0.469			0.460	6
Trichlorofluoromethane	0.944	1.119	1.122	1.056			1.042	8
1,1,2-Trichlorotrifluoroethane	0.697	0.865	0.902	0.919			0.831	11.3
Dichlorotetrafluoroethane	0.779	0.901	0.910	0.892			0.855	7.5
tert-Butyl alcohol	0.950	1.201	1.185	1.184			1.105	10.7
Heptane	1.662	1.960	1.946	1.971			1.844	8.6
1,1-Dichloroethene	0.320	0.386	0.437	0.398			0.376	12.6
Acetone	0.714	0.933	0.960	1.084			0.883	18.2
Carbon Disulfide	0.856	1.032	0.972	1.042			0.969	7.8
Methyl tert-Butyl Ether	0.522	0.838	0.844	0.650			0.711	19
Methylene Chloride	0.261	0.329	0.374	0.429			0.334	20.7
trans-1,2-Dichloroethene	0.358	0.450	0.506	0.481			0.438	13.9
1,1-Dichloroethane	0.669	0.863	0.856	0.927			0.815	12.4
Cyclohexane	1.076	1.255	1.239	1.154			1.160	7.4
2-Butanone	0.692	0.812	0.799	0.833			0.779	7.2
Carbon Tetrachloride	0.655	0.725	0.723	0.675	0.705	0.664	0.690	4.1
cis-1,2-Dichloroethene	1.237	1.450	1.401	1.421			1.353	7.3
Chloroform	1.722	1.971	2.044	2.165			1.923	10.4
1,1,1-Trichloroethane	1.771	1.944	1.916	1.883	1.875	1.921	1.866	4.1
2,2,4-Trimethylpentane	1.670	1.955	1.935	1.928			1.848	7
Benzene	0.969	1.104	1.084	1.079			1.047	5.7
1,2-Dichloroethane	0.520	0.598	0.604	0.624			0.580	7.2
Trichloroethene	0.378	0.447	0.447	0.433	0.462	0.447	0.427	8.1
1,2-Dichloropropane	0.357	0.414	0.415	0.421			0.397	7
Bromodichloromethane	0.739	0.810	0.791	0.806			0.782	3.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1430</u>
Instrument ID:	<u>MSVOA_L</u>	SAS No.:	<u>Q1430</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>Q1430</u>
GC Column:	<u>RTX-1</u>	Calibration Date(s):	<u>02/25/2025</u>
ID:	<u>0.32 (mm)</u>	Calibration Time(s):	<u>08:56</u>
			<u>12:07</u>

LAB FILE ID:		RRF010 = VL042041.D		RRF002 = VL042042.D		RRF001 = VL042043.D		
		RRF0.5 = VL042044.D		RRF0.1 = VL042045.D		RRF.03 = VL042046.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
4-Methyl-2-Pentanone	1.014	0.975	0.974	0.996			1.008	4.3
Toluene	1.088	1.284	1.210	1.150			1.170	6.7
t-1,3-Dichloropropene	0.393	0.418	0.392	0.414			0.406	3.1
cis-1,3-Dichloropropene	0.516	0.548	0.523	0.514			0.526	2.6
1,1,2-Trichloroethane	0.361	0.426	0.429	0.426			0.403	8.1
Dibromochloromethane	0.594	0.667	0.667	0.618			0.632	5.2
1,2-Dibromoethane	0.500	0.586	0.553	0.556	0.563		0.545	5.9
Tetrachloroethene	0.327	0.385	0.383	0.380	0.374	0.322	0.358	7.9
Chlorobenzene	0.910	1.121	1.113	1.102			1.037	10
Ethyl Benzene	1.694	1.974	1.906	1.886			1.842	6.3
m/p-Xylene	1.330	1.580	1.550	1.488			1.466	7.4
o-Xylene	1.317	1.577	1.550	1.572			1.473	8.7
Styrene	0.658	0.738	0.719	0.659			0.693	5.2
Bromoform	0.525	0.588	0.551	0.553			0.549	4.7
1,1,2,2-Tetrachloroethane	0.848	1.031	1.041	1.026	0.975	0.999	0.970	8.1
2-Chlorotoluene	1.514	1.853	1.829	1.758			1.701	9.3
1,3,5-Trimethylbenzene	1.381	1.696	1.732	1.592			1.560	10.5
1,2,4-Trimethylbenzene	1.471	1.990	1.982	1.855			1.757	14.8
1,3-Dichlorobenzene	0.869	1.083	1.110	1.112			1.011	12.3
1,4-Dichlorobenzene	0.861	1.092	1.061	1.120			1.004	12.1
1,2-Dichlorobenzene	0.836	1.063	1.097	1.059			0.981	12.9
1,2,4-Trichlorobenzene	0.644	0.765	0.687	0.589			0.671	9.6
Hexachloro-1,3-Butadiene	0.637	0.844	0.832	0.840			0.764	13.5
1,3-Butadiene	0.358	0.418	0.435	0.476			0.411	12
Naphthalene	1.371	1.352	1.237	0.978	0.841		1.205	20.2
4-Ethyltoluene	1.621	1.985	1.944	1.775			1.799	9
1-Bromo-4-Fluorobenzene	0.764	0.765	0.777	0.768	0.760	0.773	0.769	0.9
Hexane	1.282	1.519	1.462	1.596			1.429	9.8
Allyl Chloride	0.538	0.639	0.717	0.707			0.638	11.9
1,4-Dioxane	164.198	180.798	196.498	192.054			181.383	7.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG No.: Q1430
 Instrument ID: MSVOA_L Calibration Date(s): 02/25/2025 02/25/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:56 12:07
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:								
RRF010 = VL042041.D			RRF002 = VL042042.D			RRF001 = VL042043.D		
RRF0.5 = VL042044.D			RRF0.1 = VL042045.D			RRF.03 = VL042046.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Methyl Methacrylate	0.392	0.426	0.418	0.400			0.409	3.3

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL022525AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3) Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4) Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5) T Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6) T Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7) Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8) T Dichlorotetra...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9) T Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10) T Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11) T Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12) T 1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13) Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14) T Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15) T Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16) T 1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17) tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18) T 1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19) T Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20) T Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21) T Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22) T trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23) T Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24) T 1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25) T Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26) T Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27) T Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28) T Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29) T Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30) T Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31) T cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32) T 1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35) T Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36) T Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37) T 1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38) T Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39) T 1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL022525AIR.M											
40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2-...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 285943 9.263 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 289049 9.273 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

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

Manual Integrations

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	31354m	0.854	ppbv	
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	915m	0.614	ppbv	
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv	
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv	
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv	
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv	97
49) Bromoform	9.500	173	23310	0.858	ppbv	94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv	
51) 2-Hexanone	7.470	43	24117	0.527	ppbv #	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv	89
53) Toluene	6.959	91	51231	0.838	ppbv	99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv	97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv	96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv	97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv	
60) o-Xylene	9.979	91	57322	0.889	ppbv	99
61) Styrene	9.885	104	26596	0.865	ppbv	98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv	98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv	94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv	99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv	
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv	99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv	99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv	98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv	98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv	99
79) Naphthalene	13.526	128	45743	0.665	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv	94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	281042	9.310	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv	
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv	
49) Bromoform	9.496	173	11640	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv	
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv	
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv	95
53) Toluene	6.956	91	24224	0.398	ppbv	96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv #	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv	97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv	90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv	
60) o-Xylene	9.979	91	28757	0.451	ppbv	95
61) Styrene	9.885	104	12051	0.396	ppbv	99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv	96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv	100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv	98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv #	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv	97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv	95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv	99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv	99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv	91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv	97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv	96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv	93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv	99
79) Naphthalene	13.523	128	17897	0.263	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042045.D
 Acq On : 25 Feb 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
5) Vinyl Chloride	1.586	62	543	0.042	ppbv #	88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv #	86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv #	91

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

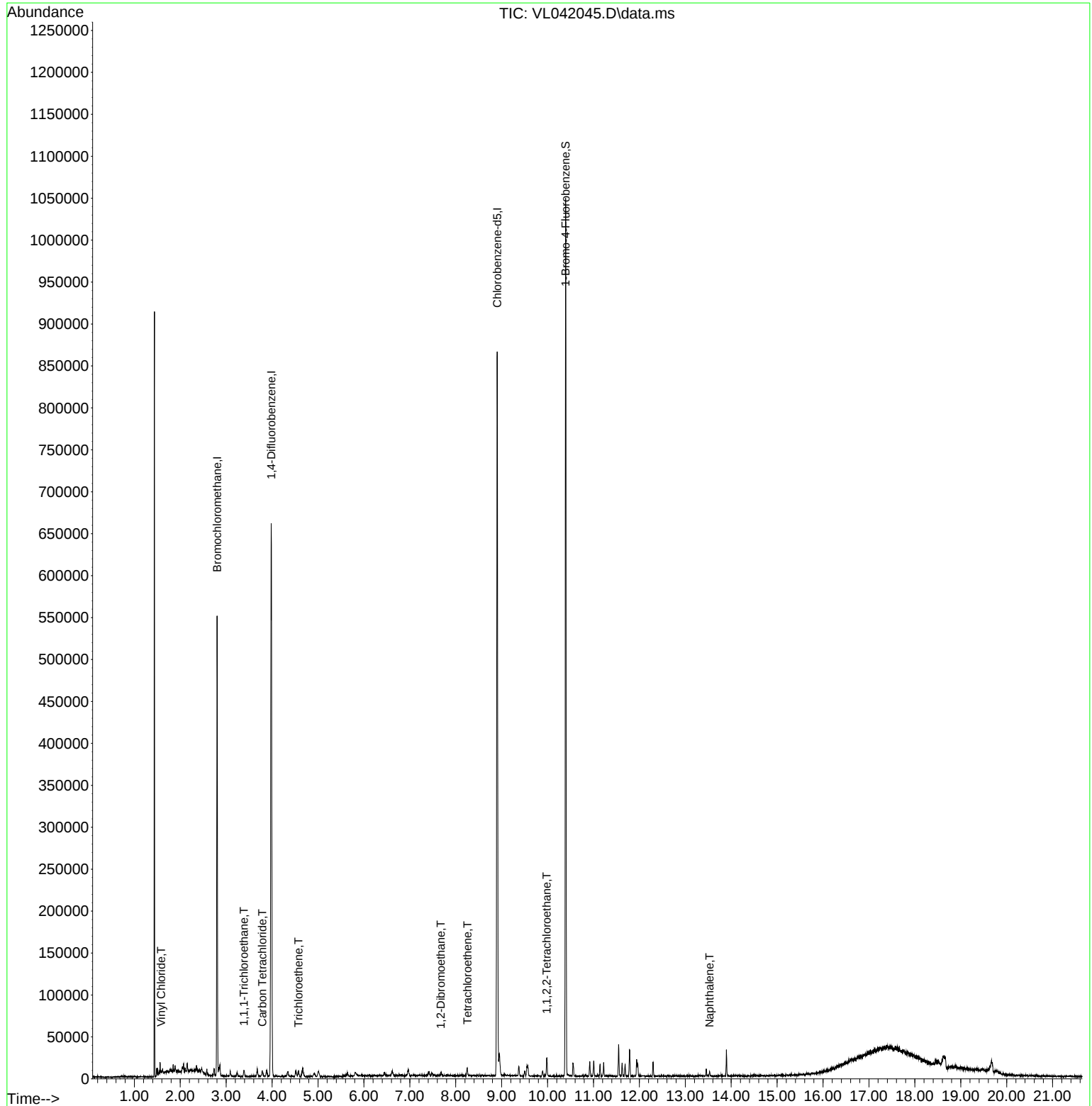
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042046.D
 Acq On : 25 Feb 2025 11:34
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%

Target Compounds	Qvalue

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

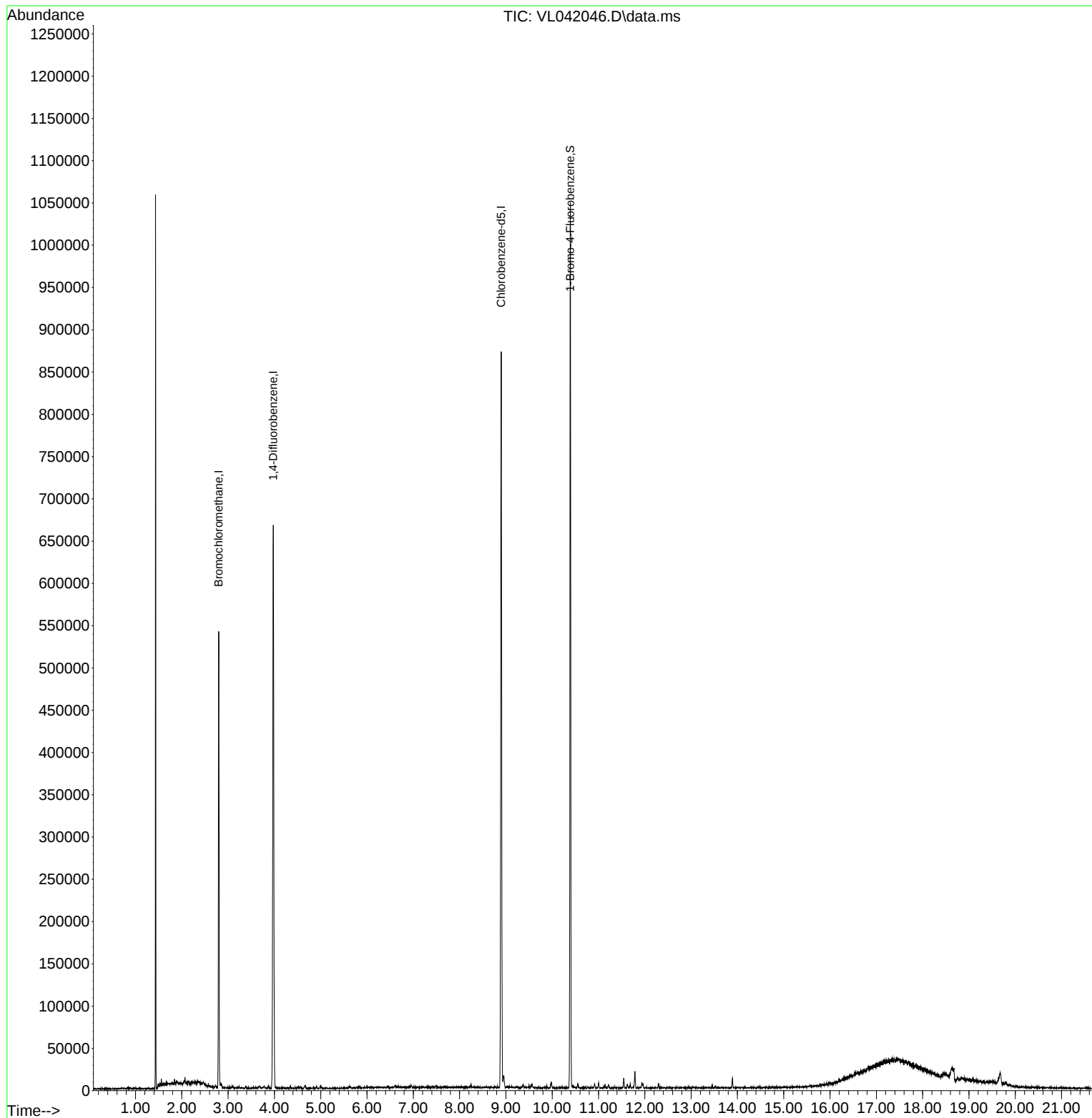
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	158881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv	99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv	100
4) Chloromethane	1.537	50	54628	8.941	ppbv	100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv	98
6) Bromomethane	1.673	94	25374	9.221	ppbv	100
7) Chloroethane	1.709	64	22174	9.443	ppbv #	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv	100
9) Propene	1.489	41	90844	9.657	ppbv	96
10) Heptane	5.010	43	269133	9.188	ppbv	99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv	99
13) Ethanol	1.728	45	2630	4.404	ppbv	98
14) Bromoethene	1.790	108	43546	9.338	ppbv	98
15) Acetone	1.842	43	118697	8.460	ppbv	97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv	98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv	98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv	98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv	96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv	96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv	98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv	100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv	99
26) Hexane	2.839	57	208955	9.203	ppbv	97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv	97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv	100
29) Chloroform	2.865	83	281191	9.202	ppbv	97
30) Cyclohexane	3.878	84	168830	9.161	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv	98
34) 2-Butanone	2.570	43	308064	9.727	ppbv	97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv	98
36) Benzene	3.677	78	399804	9.395	ppbv	98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv	99
38) Trichloroethene	4.573	130	156488	9.005	ppbv	96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv	97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv #	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv	99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv	97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv	95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv	99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv	96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv	95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv	100
49) Bromoform	9.503	173	210370	9.432	ppbv	98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv	98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv #	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv	97
53) Toluene	6.962	91	448495	9.430	ppbv	98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv	99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv	99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv	99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv	
60) o-Xylene	9.985	91	481683	9.334	ppbv	100
61) Styrene	9.891	104	241617	9.959	ppbv	99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv	99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv	99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv	100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv	98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv	99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv	100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv	99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv	100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv	95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv	99
79) Naphthalene	13.529	128	513148	12.160	ppbv	98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv	97

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

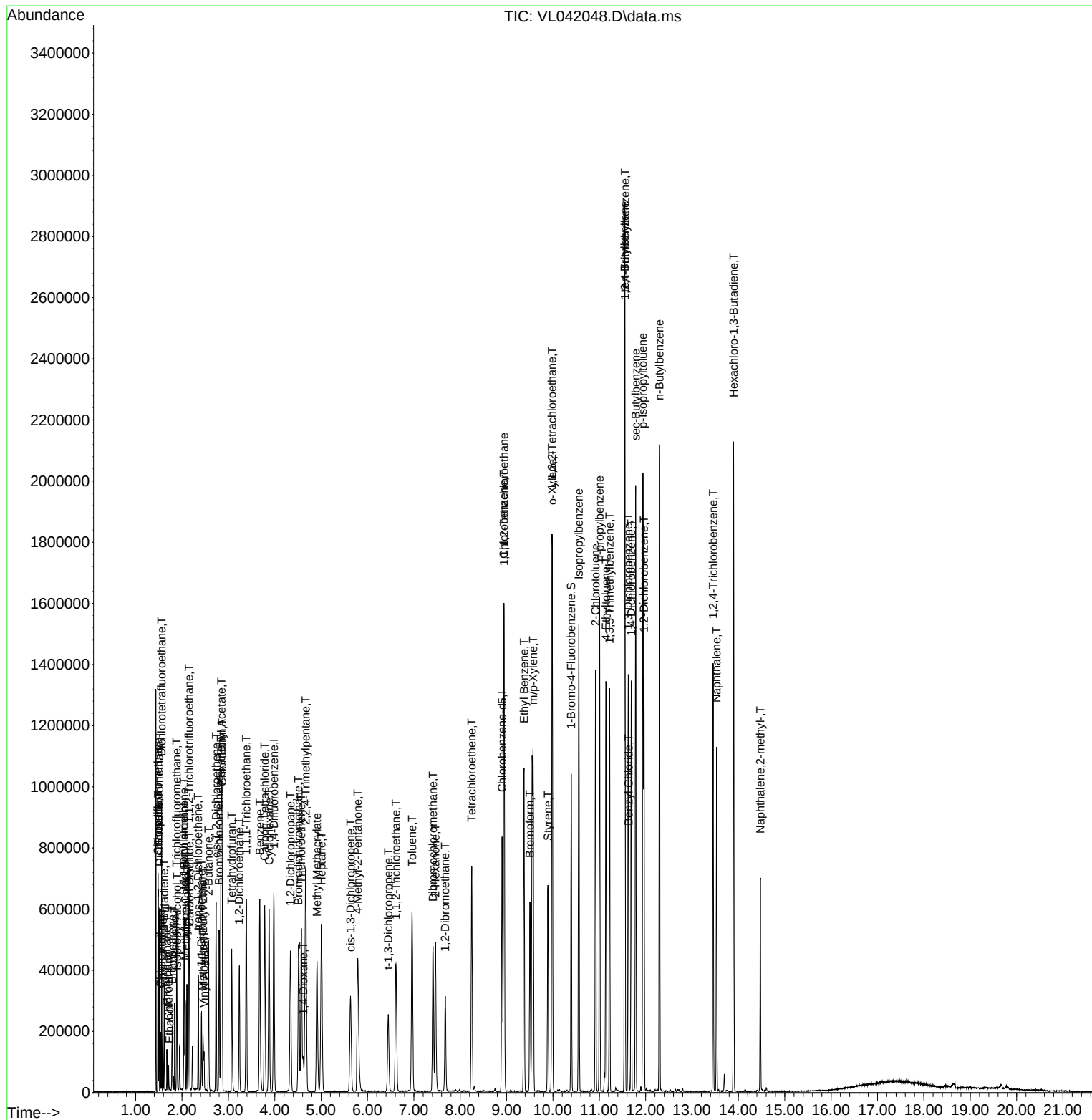
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3	Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4	Chloromethane	0.385	0.344	10.6	99	0.00
5 T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6 T	Bromomethane	0.173	0.160	7.5	98	0.00
7	Chloroethane	0.148	0.140	5.4	102	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9 T	Propene	0.592	0.572	3.4	108	0.00
10 T	Heptane	1.844	1.694	8.1	100	0.00
11 T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13	Ethanol	0.038	0.017#	55.3#	83	0.00
14 T	Bromoethene	0.293	0.274	6.5	103	0.00
15 T	Acetone	0.883	0.747	15.4	103	0.00
16 T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17	tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18 T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20 T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21 T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23 T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24 T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25 T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26 T	Hexane	1.429	1.315	8.0	101	0.00
27 T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29 T	Chloroform	1.923	1.770	8.0	101	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32 T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.779	0.758	2.7	105	0.00
35 T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36 T	Benzene	1.047	0.983	6.1	98	0.00
37 T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	98	0.00
39 T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40 T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41 T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42 T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43	Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45 T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47 T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48 T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.517	5.8	95	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51 T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52 T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53 T	Toluene	1.170	1.103	5.7	97	0.00
54 T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57 T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58 T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59 T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60 T	o-Xylene	1.473	1.375	6.7	98	0.00
61 T	Styrene	0.693	0.690	0.4	98	0.00
62	Isopropylbenzene	2.207	2.082	5.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64	n-propylbenzene	0.579	0.550	5.0	98	0.00
65	tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66 T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67	sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69	p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70	n-Butylbenzene	2.332	2.230	4.4	101	0.00
71	2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72 T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75 T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79 T	Naphthalene	1.205	1.465	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	10.000	9.606	3.9	104	0.00
3	Chlorodifluoromethane	10.000	9.512	4.9	104	0.00
4	Chloromethane	10.000	8.941	10.6	99	0.00
5 T	Vinyl Chloride	10.000	9.114	8.9	97	0.00
6 T	Bromomethane	10.000	9.221	7.8	98	0.00
7	Chloroethane	10.000	9.443	5.6	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.354	6.5	101	0.00
9 T	Propene	10.000	9.657	3.4	108	0.00
10 T	Heptane	10.000	9.188	8.1	100	0.00
11 T	Trichlorofluoromethane	10.000	9.476	5.2	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.715	12.9	102	0.00
13	Ethanol	10.000	4.404	56.0#	83	0.00
14 T	Bromoethene	10.000	9.338	6.6	103	0.00
15 T	Acetone	10.000	8.460	15.4	103	0.00
16 T	1,3-Butadiene	10.000	9.434	5.7	107	0.00
17	tert-Butyl alcohol	10.000	8.779	12.2	101	0.00
18 T	1,1-Dichloroethene	10.000	8.711	12.9	101	0.00
19 T	Isopropyl Alcohol	10.000	8.629	13.7	103	0.00
20 T	Methylene Chloride	10.000	7.919	20.8	100	0.00
21 T	Allyl Chloride	10.000	8.951	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.502	15.0	103	0.00
23 T	Vinyl Acetate	10.000	9.488	5.1	112	0.00
24 T	1,1-Dichloroethane	10.000	8.721	12.8	105	0.00
25 T	Ethyl Acetate	10.000	9.492	5.1	104	0.00
26 T	Hexane	10.000	9.203	8.0	101	0.00
27 T	Carbon Disulfide	10.000	8.978	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.365	16.3	112	0.00
29 T	Chloroform	10.000	9.202	8.0	101	0.00
30 T	Cyclohexane	10.000	9.161	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.285	7.1	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.396	6.0	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	96	0.00
34 T	2-Butanone	10.000	9.727	2.7	105	0.00
35 T	Carbon Tetrachloride	10.000	9.867	1.3	100	0.00
36 T	Benzene	10.000	9.395	6.1	98	0.00
37 T	1,2-Dichloroethane	10.000	9.491	5.1	102	0.00
38 T	Trichloroethene	10.000	9.005	9.9	98	0.00
39 T	1,2-Dichloropropane	10.000	9.414	5.9	101	0.00
40 T	1,4-Dioxane	10.000	8.817	11.8	94	0.00
41 T	Tetrahydrofuran	10.000	9.696	3.0	103	0.00
42 T	Bromodichloromethane	10.000	9.606	3.9	98	0.00
43	Methyl Methacrylate	10.000	9.685	3.1	97	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.480	5.2	101	0.00
45 T	t-1,3-Dichloropropene	10.000	9.671	3.3	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.680	3.2	95	0.00
47 T	1,1,2-Trichloroethane	10.000	9.039	9.6	97	0.00
48 T	Dibromochloromethane	10.000	9.407	5.9	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	9.432	5.7	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.526	-5.3	101	0.00
51 T	2-Hexanone	10.000	12.576	-25.8	101	0.00
52 T	Tetrachloroethene	10.000	9.202	8.0	97	0.00
53 T	Toluene	10.000	9.430	5.7	97	0.00
54 T	1,2-Dibromoethane	10.000	9.307	6.9	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.234	7.7	97	0.00
57 T	Chlorobenzene	10.000	9.216	7.8	98	0.00
58 T	Ethyl Benzene	10.000	9.513	4.9	97	0.00
59 T	m/p-Xylene	20.000	19.041	4.8	98	0.02
60 T	o-Xylene	10.000	9.334	6.7	98	0.00
61 T	Styrene	10.000	9.959	0.4	98	0.00
62	Isopropylbenzene	10.000	9.437	5.6	99	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.204	8.0	99	0.00
64	n-propylbenzene	10.000	9.506	4.9	98	0.00
65	tert-Butylbenzene	10.000	8.988	10.1	97	0.00
66 T	Benzyl Chloride	10.000	9.808	1.9	92	0.00
67	sec-Butylbenzene	10.000	9.090	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.188	-1.9	96	0.00
69	p-Isopropyltoluene	10.000	9.418	5.8	100	0.00
70	n-Butylbenzene	10.000	9.560	4.4	101	0.00
71	2-Chlorotoluene	10.000	9.399	6.0	99	0.00
72 T	4-Ethyltoluene	10.000	9.557	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.248	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.891	11.1	99	0.00
75 T	1,3-Dichlorobenzene	10.000	9.161	8.4	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.176	8.2	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.081	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.543	14.6	96	0.00
79 T	Naphthalene	10.000	12.160	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	10.000	17.152	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.965	0.4	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG No.: Q1430

Instrument ID: MSVOA_L Calibration Date/Time: 02/26/2025 08:38

Lab File ID: VL042050.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.040	1.010		-2.88	30
Chloromethane	0.385	0.345		-10.39	30
Vinyl Chloride	0.364	0.342		-6.04	30
Bromomethane	0.173	0.163		-5.78	30
Chloroethane	0.148	0.140		-5.41	30
Tetrahydrofuran	0.460	0.462		0.44	30
Trichlorofluoromethane	1.042	0.989		-5.09	30
1,1,2-Trichlorotrifluoroethane	0.831	0.726		-12.64	30
Dichlorotetrafluoroethane	0.855	0.822		-3.86	30
tert-Butyl alcohol	1.105	0.973		-11.95	30
Heptane	1.844	1.702		-7.7	30
1,1-Dichloroethene	0.376	0.324		-13.83	30
Acetone	0.883	0.739		-16.31	30
Carbon Disulfide	0.969	0.880		-9.19	30
Methyl tert-Butyl Ether	0.711	0.563		-20.82	30
Methylene Chloride	0.334	0.272		-18.56	30
trans-1,2-Dichloroethene	0.438	0.391		-10.73	30
1,1-Dichloroethane	0.815	0.751		-7.85	30
Cyclohexane	1.160	1.063		-8.36	30
2-Butanone	0.779	0.771		-1.03	30
Carbon Tetrachloride	0.690	0.703		1.88	30
cis-1,2-Dichloroethene	1.353	1.254		-7.32	30
Chloroform	1.923	1.740		-9.52	30
1,1,1-Trichloroethane	1.866	1.748		-6.32	30
2,2,4-Trimethylpentane	1.848	1.817		-1.68	30
Benzene	1.047	1.019		-2.67	30
1,2-Dichloroethane	0.580	0.580		0	30
Trichloroethene	0.427	0.385		-9.84	30
1,2-Dichloropropane	0.397	0.392		-1.26	30
Bromodichloromethane	0.782	0.792		1.28	30
4-Methyl-2-Pentanone	1.008	1.093		8.43	30
Toluene	1.170	1.136		-2.91	30
t-1,3-Dichloropropene	0.406	0.401		-1.23	30
cis-1,3-Dichloropropene	0.526	0.530		0.76	30
1,1,2-Trichloroethane	0.403	0.382		-5.21	30
Dibromochloromethane	0.632	0.621		-1.74	30
1,2-Dibromoethane	0.545	0.518		-4.95	30
Tetrachloroethene	0.358	0.339		-5.31	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG No.: Q1430

Instrument ID: MSVOA_L Calibration Date/Time: 02/26/2025 08:38

Lab File ID: VL042050.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.037	0.972		-6.27	30
Ethyl Benzene	1.842	1.780		-3.37	30
m/p-Xylene	1.466	1.424		-2.87	30
o-Xylene	1.473	1.416		-3.87	30
Styrene	0.693	0.688		-0.72	30
Bromoform	0.549	0.531		-3.28	30
1,1,2,2-Tetrachloroethane	0.970	0.929		-4.23	30
2-Chlorotoluene	1.701	1.623		-4.59	30
1,3,5-Trimethylbenzene	1.560	1.443		-7.5	30
1,2,4-Trimethylbenzene	1.757	1.571		-10.59	30
1,3-Dichlorobenzene	1.011	0.920		-9	30
1,4-Dichlorobenzene	1.004	0.921		-8.27	30
1,2-Dichlorobenzene	0.981	0.901		-8.15	30
1,2,4-Trichlorobenzene	0.671	0.674		0.45	30
Hexachloro-1,3-Butadiene	0.764	0.682		-10.73	30
1,3-Butadiene	0.411	0.375		-8.76	30
Naphthalene	1.205	1.469		21.91	30
4-Ethyltoluene	1.799	1.710		-4.95	30
1-Bromo-4-Fluorobenzene	0.769	0.787		2.34	30
Hexane	1.429	1.315		-7.98	30
Allyl Chloride	0.638	0.549		-13.95	30
1,4-Dioxane	181.383	177.296		-2.25	30
Methyl Methacrylate	0.409	0.404		-1.22	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	157492	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	387144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	336136	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 264623 10.233 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	159125	9.716	ppbv	96
3) Chlorodifluoromethane	1.479	51	217238	9.491	ppbv	99
4) Chloromethane	1.538	50	54275	8.962	ppbv	97
5) Vinyl Chloride	1.583	62	53871	9.404	ppbv	99
6) Bromomethane	1.670	94	25674	9.412	ppbv	100
7) Chloroethane	1.709	64	22033	9.466	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	129383	9.610	ppbv	99
9) Propene	1.486	41	87439	9.377	ppbv	97
10) Heptane	5.001	43	268030	9.231	ppbv	99
11) Trichlorofluoromethane	1.884	101	155832	9.496	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	114341	8.735	ppbv	99
13) Ethanol	1.725	45	2918	4.929	ppbv	98
14) Bromoethene	1.787	108	44414	9.608	ppbv	95
15) Acetone	1.842	43	116372	8.367	ppbv	98
16) 1,3-Butadiene	1.612	39	59133	9.136	ppbv	99
17) tert-Butyl alcohol	2.046	59	153167	8.802	ppbv	96
18) 1,1-Dichloroethene	2.039	96	51101	8.640	ppbv	93
19) Isopropyl Alcohol	1.890	45	69014	8.638	ppbv	98
20) Methylene Chloride	2.068	84	42907	8.156	ppbv	98
21) Allyl Chloride	2.101	41	86423	8.600	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61551	8.927	ppbv	98
23) Vinyl Acetate	2.470	43	84867	8.678	ppbv	98
24) 1,1-Dichloroethane	2.418	63	118286	9.220	ppbv	99
25) Ethyl Acetate	2.848	43	521677	9.371	ppbv	99
26) Hexane	2.835	57	207168	9.205	ppbv	98
27) Carbon Disulfide	2.156	76	138544	9.081	ppbv	95
28) Methyl tert-Butyl Ether	2.447	73	88652	7.912	ppbv	97
29) Chloroform	2.858	83	273992	9.045	ppbv	98
30) Cyclohexane	3.871	84	167364	9.162	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	197466	9.268	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	275336	9.370	ppbv	97
34) 2-Butanone	2.567	43	298594	9.900	ppbv	97
35) Carbon Tetrachloride	3.777	117	272097	10.192	ppbv	97
36) Benzene	3.670	78	394494	9.734	ppbv	97
37) 1,2-Dichloroethane	3.230	62	224585	9.995	ppbv	99
38) Trichloroethene	4.567	130	149021	9.005	ppbv	97
39) 1,2-Dichloropropane	4.331	63	151626	9.857	ppbv	95
40) 1,4-Dioxane	4.606	88	68639	9.775	ppbv #	98
41) Tetrahydrofuran	3.065	42	178871	10.037	ppbv	97
42) Bromodichloromethane	4.509	83	306517	10.124	ppbv	98
43) Methyl Methacrylate	4.900	69	156460	9.885	ppbv	96
44) 2,2,4-Trimethylpentane	4.658	57	703370	9.834	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	155197	9.870	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	205249	10.087	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	148058	9.481	ppbv	96
48) Dibromochloromethane	7.409	129	240304	9.825	ppbv	100
49) Bromoform	9.496	173	205649	9.682	ppbv	98
50) 4-Methyl-2-Pentanone	5.778	43	423271	10.851	ppbv	97
51) 2-Hexanone	7.454	43	345562	12.872	ppbv #	100
52) Tetrachloroethene	8.237	164	131164	9.454	ppbv	97
53) Toluene	6.952	91	439634	9.706	ppbv	98
54) 1,2-Dibromoethane	7.671	107	200726	9.507	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.940	131	178871	9.415	ppbv	100
57) Chlorobenzene	8.937	112	326805	9.377	ppbv	99
58) Ethyl Benzene	9.367	91	598242	9.664	ppbv	99
59) m/p-Xylene	9.564	91	957021m	19.427	ppbv	
60) o-Xylene	9.979	91	475848	9.608	ppbv	100
61) Styrene	9.885	104	231133	9.927	ppbv	99
62) Isopropylbenzene	10.552	105	718826	9.692	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	312195	9.572	ppbv	98
64) n-propylbenzene	11.001	120	185068	9.513	ppbv	95
65) tert-Butylbenzene	11.542	119	618290	9.160	ppbv	98
66) Benzyl Chloride	11.629	91	49850	9.678	ppbv	98
67) sec-Butylbenzene	11.778	105	890927	9.229	ppbv	100
69) p-Isopropyltoluene	11.937	119	724678	9.435	ppbv	100
70) n-Butylbenzene	12.293	91	756366	9.648	ppbv	99
71) 2-Chlorotoluene	10.914	91	545538	9.541	ppbv	99
72) 4-Ethyltoluene	11.137	105	574661	9.504	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	484912	9.245	ppbv	98
74) 1,2,4-Trimethylbenzene	11.548	105	527932	8.938	ppbv	96
75) 1,3-Dichlorobenzene	11.620	146	309408	9.102	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	309423	9.168	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	302720	9.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	229379	8.937	ppbv	100
79) Naphthalene	13.523	128	493813	12.193	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190978	17.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	226561	10.038	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	1.040	1.010	2.9	105	0.00
3	Chlorodifluoromethane	1.453	1.379	5.1	103	0.00
4	Chloromethane	0.385	0.345	10.4	98	0.00
5 T	Vinyl Chloride	0.364	0.342	6.0	99	0.00
6 T	Bromomethane	0.173	0.163	5.8	99	0.00
7	Chloroethane	0.148	0.140	5.4	101	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.822	3.9	103	0.00
9 T	Propene	0.592	0.555	6.2	104	0.00
10 T	Heptane	1.844	1.702	7.7	100	0.00
11 T	Trichlorofluoromethane	1.042	0.989	5.1	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.726	12.6	102	0.00
13	Ethanol	0.038	0.019#	50.0#	92	0.00
14 T	Bromoethene	0.293	0.282	3.8	105	0.00
15 T	Acetone	0.883	0.739	16.3	101	0.00
16 T	1,3-Butadiene	0.411	0.375	8.8	102	0.00
17	tert-Butyl alcohol	1.105	0.973	11.9	100	0.00
18 T	1,1-Dichloroethene	0.376	0.324	13.8	99	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	102	0.00
20 T	Methylene Chloride	0.334	0.272	18.6	102	0.00
21 T	Allyl Chloride	0.638	0.549	13.9	100	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.391	10.7	107	0.00
23 T	Vinyl Acetate	0.621	0.539	13.2	101	0.00
24 T	1,1-Dichloroethane	0.815	0.751	7.9	110	0.00
25 T	Ethyl Acetate	3.535	3.312	6.3	102	0.00
26 T	Hexane	1.429	1.315	8.0	100	0.00
27 T	Carbon Disulfide	0.969	0.880	9.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.563	20.8	105	0.00
29 T	Chloroform	1.923	1.740	9.5	99	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.254	7.3	99	0.00
32 T	1,1,1-Trichloroethane	1.866	1.748	6.3	96	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.779	0.771	1.0	102	0.00
35 T	Carbon Tetrachloride	0.690	0.703	-1.9	98	0.00
36 T	Benzene	1.047	1.019	2.7	96	0.00
37 T	1,2-Dichloroethane	0.580	0.580	0.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	93	0.00
39 T	1,2-Dichloropropane	0.397	0.392	1.3	100	0.00
40 T	1,4-Dioxane	0.181	0.177	2.2	99	0.00
41 T	Tetrahydrofuran	0.460	0.462	-0.4	101	0.00
42 T	Bromodichloromethane	0.782	0.792	-1.3	98	0.00
43	Methyl Methacrylate	0.409	0.404	1.2	95	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.817	1.7	100	0.00
45 T	t-1,3-Dichloropropene	0.406	0.401	1.2	93	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.530	-0.8	94	0.00
47 T	1,1,2-Trichloroethane	0.403	0.382	5.2	97	0.00
48 T	Dibromochloromethane	0.632	0.621	1.7	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.531	3.3	93	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.093	-8.4	99	0.00
51 T	2-Hexanone	0.693	0.893	-28.9	98	0.00
52 T	Tetrachloroethene	0.358	0.339	5.3	95	0.00
53 T	Toluene	1.170	1.136	2.9	96	0.00
54 T	1,2-Dibromoethane	0.545	0.518	5.0	95	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	95	0.00
57 T	Chlorobenzene	1.037	0.972	6.3	96	0.00
58 T	Ethyl Benzene	1.842	1.780	3.4	94	0.00
59 T	m/p-Xylene	1.466	1.424	2.9	96	0.01
60 T	o-Xylene	1.473	1.416	3.9	97	0.00
61 T	Styrene	0.693	0.688	0.7	94	0.00
62	Isopropylbenzene	2.207	2.138	3.1	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.929	4.2	98	0.00
64	n-propylbenzene	0.579	0.551	4.8	94	0.00
65	tert-Butylbenzene	2.008	1.839	8.4	95	0.00
66 T	Benzyl Chloride	0.153	0.148	3.3	87	0.00
67	sec-Butylbenzene	2.872	2.650	7.7	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.787	-2.3	93	0.00
69	p-Isopropyltoluene	2.285	2.156	5.6	96	0.00
70	n-Butylbenzene	2.332	2.250	3.5	98	0.00
71	2-Chlorotoluene	1.701	1.623	4.6	96	0.00
72 T	4-Ethyltoluene	1.799	1.710	4.9	95	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	94	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.571	10.6	96	0.00
75 T	1,3-Dichlorobenzene	1.011	0.920	9.0	95	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	96	0.00
77 T	1,2-Dichlorobenzene	0.981	0.901	8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.682	10.7	96	0.00
79 T	Naphthalene	1.205	1.469	-21.9	96	0.00
80 T	Naphthalene,2-methyl-	0.330	0.568	-72.1#	91	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.674	-0.4	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	10.000	9.716	2.8	105	0.00
3	Chlorodifluoromethane	10.000	9.491	5.1	103	0.00
4	Chloromethane	10.000	8.962	10.4	98	0.00
5 T	Vinyl Chloride	10.000	9.404	6.0	99	0.00
6 T	Bromomethane	10.000	9.412	5.9	99	0.00
7	Chloroethane	10.000	9.466	5.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.610	3.9	103	0.00
9 T	Propene	10.000	9.377	6.2	104	0.00
10 T	Heptane	10.000	9.231	7.7	100	0.00
11 T	Trichlorofluoromethane	10.000	9.496	5.0	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.735	12.7	102	0.00
13	Ethanol	10.000	4.929	50.7#	92	0.00
14 T	Bromoethene	10.000	9.608	3.9	105	0.00
15 T	Acetone	10.000	8.367	16.3	101	0.00
16 T	1,3-Butadiene	10.000	9.136	8.6	102	0.00
17	tert-Butyl alcohol	10.000	8.802	12.0	100	0.00
18 T	1,1-Dichloroethene	10.000	8.640	13.6	99	0.00
19 T	Isopropyl Alcohol	10.000	8.638	13.6	102	0.00
20 T	Methylene Chloride	10.000	8.156	18.4	102	0.00
21 T	Allyl Chloride	10.000	8.600	14.0	100	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.927	10.7	107	0.00
23 T	Vinyl Acetate	10.000	8.678	13.2	101	0.00
24 T	1,1-Dichloroethane	10.000	9.220	7.8	110	0.00
25 T	Ethyl Acetate	10.000	9.371	6.3	102	0.00
26 T	Hexane	10.000	9.205	7.9	100	0.00
27 T	Carbon Disulfide	10.000	9.081	9.2	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	7.912	20.9	105	0.00
29 T	Chloroform	10.000	9.045	9.6	99	0.00
30 T	Cyclohexane	10.000	9.162	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.268	7.3	99	0.00
32 T	1,1,1-Trichloroethane	10.000	9.370	6.3	96	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34 T	2-Butanone	10.000	9.900	1.0	102	0.00
35 T	Carbon Tetrachloride	10.000	10.192	-1.9	98	0.00
36 T	Benzene	10.000	9.734	2.7	96	0.00
37 T	1,2-Dichloroethane	10.000	9.995	0.1	102	0.00
38 T	Trichloroethene	10.000	9.005	9.9	93	0.00
39 T	1,2-Dichloropropane	10.000	9.857	1.4	100	0.00
40 T	1,4-Dioxane	10.000	9.775	2.2	99	0.00
41 T	Tetrahydrofuran	10.000	10.037	-0.4	101	0.00
42 T	Bromodichloromethane	10.000	10.124	-1.2	98	0.00
43	Methyl Methacrylate	10.000	9.885	1.2	95	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.834	1.7	100	0.00
45 T	t-1,3-Dichloropropene	10.000	9.870	1.3	93	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.087	-0.9	94	0.00
47 T	1,1,2-Trichloroethane	10.000	9.481	5.2	97	0.00
48 T	Dibromochloromethane	10.000	9.825	1.8	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.682	3.2	93	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.851	-8.5	99	0.00
51 T	2-Hexanone	10.000	12.872	-28.7	98	0.00
52 T	Tetrachloroethene	10.000	9.454	5.5	95	0.00
53 T	Toluene	10.000	9.706	2.9	96	0.00
54 T	1,2-Dibromoethane	10.000	9.507	4.9	95	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.415	5.9	95	0.00
57 T	Chlorobenzene	10.000	9.377	6.2	96	0.00
58 T	Ethyl Benzene	10.000	9.664	3.4	94	0.00
59 T	m/p-Xylene	20.000	19.427	2.9	96	0.01
60 T	o-Xylene	10.000	9.608	3.9	97	0.00
61 T	Styrene	10.000	9.927	0.7	94	0.00
62	Isopropylbenzene	10.000	9.692	3.1	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.572	4.3	98	0.00
64	n-propylbenzene	10.000	9.513	4.9	94	0.00
65	tert-Butylbenzene	10.000	9.160	8.4	95	0.00
66 T	Benzyl Chloride	10.000	9.678	3.2	87	0.00
67	sec-Butylbenzene	10.000	9.229	7.7	96	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.233	-2.3	93	0.00
69	p-Isopropyltoluene	10.000	9.435	5.6	96	0.00
70	n-Butylbenzene	10.000	9.648	3.5	98	0.00
71	2-Chlorotoluene	10.000	9.541	4.6	96	0.00
72 T	4-Ethyltoluene	10.000	9.504	5.0	95	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.245	7.6	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.938	10.6	96	0.00
75 T	1,3-Dichlorobenzene	10.000	9.102	9.0	95	0.00
76 T	1,4-Dichlorobenzene	10.000	9.168	8.3	96	0.00
77 T	1,2-Dichlorobenzene	10.000	9.177	8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.937	10.6	96	0.00
79 T	Naphthalene	10.000	12.193	-21.9	96	0.00
80 T	Naphthalene,2-methyl-	10.000	17.232	-72.3#	91	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.038	-0.4	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG No.: Q1430

Instrument ID: MSVOA_L Calibration Date/Time: 03/03/2025 12:15

Lab File ID: VL042075.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.040	1.021		-1.83	30
Chloromethane	0.385	0.353		-8.31	30
Vinyl Chloride	0.364	0.348		-4.4	30
Bromomethane	0.173	0.174		0.58	30
Chloroethane	0.148	0.139		-6.08	30
Tetrahydrofuran	0.460	0.463		0.65	30
Trichlorofluoromethane	1.042	1.082		3.84	30
1,1,2-Trichlorotrifluoroethane	0.831	0.821		-1.2	30
Dichlorotetrafluoroethane	0.855	0.831		-2.81	30
tert-Butyl alcohol	1.105	1.009		-8.69	30
Heptane	1.844	1.646		-10.74	30
1,1-Dichloroethene	0.376	0.362		-3.72	30
Acetone	0.883	0.773		-12.46	30
Carbon Disulfide	0.969	0.960		-0.93	30
Methyl tert-Butyl Ether	0.711	0.591		-16.88	30
Methylene Chloride	0.334	0.306		-8.38	30
trans-1,2-Dichloroethene	0.438	0.419		-4.34	30
1,1-Dichloroethane	0.815	0.788		-3.31	30
Cyclohexane	1.160	0.983		-15.26	30
2-Butanone	0.779	0.793		1.8	30
Carbon Tetrachloride	0.690	0.687		-0.44	30
cis-1,2-Dichloroethene	1.353	1.208		-10.72	30
Chloroform	1.923	1.697		-11.75	30
1,1,1-Trichloroethane	1.866	1.590		-14.79	30
2,2,4-Trimethylpentane	1.848	1.787		-3.3	30
Benzene	1.047	1.003		-4.2	30
1,2-Dichloroethane	0.580	0.575		-0.86	30
Trichloroethene	0.427	0.378		-11.48	30
1,2-Dichloropropane	0.397	0.388		-2.27	30
Bromodichloromethane	0.782	0.770		-1.53	30
4-Methyl-2-Pentanone	1.008	1.102		9.32	30
Toluene	1.170	1.096		-6.32	30
t-1,3-Dichloropropene	0.406	0.367		-9.61	30
cis-1,3-Dichloropropene	0.526	0.492		-6.46	30
1,1,2-Trichloroethane	0.403	0.380		-5.71	30
Dibromochloromethane	0.632	0.597		-5.54	30
1,2-Dibromoethane	0.545	0.507		-6.97	30
Tetrachloroethene	0.358	0.330		-7.82	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1430 SAS No.: Q1430 SDG No.: Q1430

Instrument ID: MSVOA_L Calibration Date/Time: 03/03/2025 12:15

Lab File ID: VL042075.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.037	0.983		-5.21	30
Ethyl Benzene	1.842	1.764		-4.24	30
m/p-Xylene	1.466	1.426		-2.73	30
o-Xylene	1.473	1.425		-3.26	30
Styrene	0.693	0.685		-1.15	30
Bromoform	0.549	0.525		-4.37	30
1,1,2,2-Tetrachloroethane	0.970	0.936		-3.51	30
2-Chlorotoluene	1.701	1.623		-4.59	30
1,3,5-Trimethylbenzene	1.560	1.474		-5.51	30
1,2,4-Trimethylbenzene	1.757	1.627		-7.4	30
1,3-Dichlorobenzene	1.011	0.951		-5.93	30
1,4-Dichlorobenzene	1.004	0.955		-4.88	30
1,2-Dichlorobenzene	0.981	0.939		-4.28	30
1,2,4-Trichlorobenzene	0.671	0.679		1.19	30
Hexachloro-1,3-Butadiene	0.764	0.673		-11.91	30
1,3-Butadiene	0.411	0.375		-8.76	30
Naphthalene	1.205	1.484		23.15	30
4-Ethyltoluene	1.799	1.735		-3.56	30
1-Bromo-4-Fluorobenzene	0.769	0.781		1.56	30
Hexane	1.429	1.250		-12.53	30
Allyl Chloride	0.638	0.622		-2.51	30
1,4-Dioxane	181.383	169.533		-6.53	30
Methyl Methacrylate	0.409	0.392		-4.16	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:16:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	173325	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.952	114	409365	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	350236	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 273654 10.156 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	176895	9.815	ppbv	98
3) Chlorodifluoromethane	1.473	51	229308	9.103	ppbv	100
4) Chloromethane	1.531	50	61184	9.180	ppbv	99
5) Vinyl Chloride	1.576	62	60317	9.567	ppbv	100
6) Bromomethane	1.664	94	30156	10.045	ppbv	92
7) Chloroethane	1.703	64	24074	9.398	ppbv	98
8) Dichlorotetrafluoroethane	1.550	85	144041	9.722	ppbv	99
9) Propene	1.482	41	95116	9.268	ppbv	99
10) Heptane	4.972	43	285343	8.930	ppbv	96
11) Trichlorofluoromethane	1.874	101	187492	10.382	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	142259	9.875	ppbv	98
13) Ethanol	1.719	45	3376	5.182	ppbv	95
14) Bromoethene	1.780	108	48570	9.548	ppbv	100
15) Acetone	1.832	43	133956	8.752	ppbv	99
16) 1,3-Butadiene	1.605	39	64990	9.124	ppbv	99
17) tert-Butyl alcohol	2.036	59	174843	9.130	ppbv	97
18) 1,1-Dichloroethene	2.029	96	62817	9.651	ppbv	98
19) Isopropyl Alcohol	1.884	45	79667	9.061	ppbv	100
20) Methylene Chloride	2.059	84	53086	9.169	ppbv	97
21) Allyl Chloride	2.091	41	107750	9.743	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	72547	9.561	ppbv	93
23) Vinyl Acetate	2.460	43	89888	8.352	ppbv	99
24) 1,1-Dichloroethane	2.405	63	136644	9.678	ppbv	99
25) Ethyl Acetate	2.832	43	563012	9.189	ppbv	99
26) Hexane	2.822	57	216702	8.749	ppbv	94
27) Carbon Disulfide	2.146	76	166324	9.906	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	102443	8.307	ppbv	99
29) Chloroform	2.845	83	294142	8.824	ppbv	100
30) Cyclohexane	3.852	84	170364	8.474	ppbv	91
31) cis-1,2-Dichloroethene	2.716	61	209328	8.928	ppbv	95
32) 1,1,1-Trichloroethane	3.363	97	275584	8.522	ppbv	94
34) 2-Butanone	2.554	43	324639	10.179	ppbv	96
35) Carbon Tetrachloride	3.755	117	281106	9.958	ppbv	93
36) Benzene	3.651	78	410714	9.584	ppbv	98
37) 1,2-Dichloroethane	3.214	62	235420	9.908	ppbv	98
38) Trichloroethene	4.541	130	154616	8.836	ppbv	99
39) 1,2-Dichloropropane	4.308	63	159010	9.776	ppbv	95
40) 1,4-Dioxane	4.577	88	69401	9.347	ppbv #	99
41) Tetrahydrofuran	3.052	42	189509	10.057	ppbv	97
42) Bromodichloromethane	4.483	83	315387	9.852	ppbv	97
43) Methyl Methacrylate	4.871	69	160485	9.589	ppbv	92
44) 2,2,4-Trimethylpentane	4.635	57	731737	9.675	ppbv	98
45) t-1,3-Dichloropropene	6.409	75	150198	9.033	ppbv	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:16:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	201389	9.360	ppbv	97
47) 1,1,2-Trichloroethane	6.574	97	155548	9.419	ppbv	94
48) Dibromochloromethane	7.380	129	244551	9.456	ppbv	99
49) Bromoform	9.477	173	215068	9.576	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	451104	10.937	ppbv	97
51) 2-Hexanone	7.428	43	364047	12.824	ppbv #	98
52) Tetrachloroethene	8.218	164	135049	9.205	ppbv	96
53) Toluene	6.926	91	448652	9.368	ppbv	99
54) 1,2-Dibromoethane	7.645	107	207672	9.302	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	186364	9.414	ppbv	99
57) Chlorobenzene	8.917	112	344415	9.485	ppbv	99
58) Ethyl Benzene	9.351	91	617808	9.578	ppbv	99
59) m/p-Xylene	9.545	91	999203m	19.467	ppbv	
60) o-Xylene	9.959	91	499183	9.674	ppbv	99
61) Styrene	9.865	104	239891	9.888	ppbv	99
62) Isopropylbenzene	10.535	105	742029	9.602	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	327826	9.647	ppbv	99
64) n-propylbenzene	10.985	120	194972	9.618	ppbv	95
65) tert-Butylbenzene	11.529	119	655219	9.316	ppbv	98
66) Benzyl Chloride	11.613	91	44259	8.247	ppbv	99
67) sec-Butylbenzene	11.765	105	956463	9.509	ppbv	100
69) p-Isopropyltoluene	11.924	119	773774	9.669	ppbv	99
70) n-Butylbenzene	12.280	91	803607	9.837	ppbv	99
71) 2-Chlorotoluene	10.898	91	568423	9.541	ppbv	99
72) 4-Ethyltoluene	11.121	105	607815	9.647	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	516320	9.447	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	569704	9.257	ppbv #	91
75) 1,3-Dichlorobenzene	11.603	146	332997	9.402	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	334533	9.513	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	328836	9.567	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	235840	8.819	ppbv	98
79) Naphthalene	13.510	128	519908	12.321	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	193268	16.737	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	237980	10.120	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	108	-0.02
2 T	Dichlorodifluoromethane	1.040	1.021	1.8	116	0.00
3	Chlorodifluoromethane	1.453	1.323	8.9	109	0.00
4	Chloromethane	0.385	0.353	8.3	111	0.00
5 T	Vinyl Chloride	0.364	0.348	4.4	111	0.00
6 T	Bromomethane	0.173	0.174	-0.6	117	0.00
7	Chloroethane	0.148	0.139	6.1	111	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.831	2.8	115	0.00
9 T	Propene	0.592	0.549	7.3	113	0.00
10 T	Heptane	1.844	1.646	10.7	107	-0.04
11 T	Trichlorofluoromethane	1.042	1.082	-3.8	123	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.821	1.2	127	0.00
13	Ethanol	0.038	0.019#	50.0#	106	0.00
14 T	Bromoethene	0.293	0.280	4.4	114	0.00
15 T	Acetone	0.883	0.773	12.5	116	0.00
16 T	1,3-Butadiene	0.411	0.375	8.8	113	0.00
17	tert-Butyl alcohol	1.105	1.009	8.7	114	-0.01
18 T	1,1-Dichloroethene	0.376	0.362	3.7	122	-0.01
19 T	Isopropyl Alcohol	0.507	0.460	9.3	118	0.00
20 T	Methylene Chloride	0.334	0.306	8.4	126	0.00
21 T	Allyl Chloride	0.638	0.622	2.5	124	-0.01
22 T	trans-1,2-Dichloroethene	0.438	0.419	4.3	126	-0.01
23 T	Vinyl Acetate	0.621	0.519	16.4	107	-0.01
24 T	1,1-Dichloroethane	0.815	0.788	3.3	127	-0.01
25 T	Ethyl Acetate	3.535	3.248	8.1	110	-0.02
26 T	Hexane	1.429	1.250	12.5	105	-0.02
27 T	Carbon Disulfide	0.969	0.960	0.9	121	-0.01
28 T	Methyl tert-Butyl Ether	0.711	0.591	16.9	122	-0.01
29 T	Chloroform	1.923	1.697	11.8	106	-0.02
30 T	Cyclohexane	1.160	0.983	15.3	98	-0.02
31 T	cis-1,2-Dichloroethene	1.353	1.208	10.7	105	-0.02
32 T	1,1,1-Trichloroethane	1.866	1.590	14.8	97	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	-0.03
34 T	2-Butanone	0.779	0.793	-1.8	111	-0.02
35 T	Carbon Tetrachloride	0.690	0.687	0.4	102	-0.03
36 T	Benzene	1.047	1.003	4.2	100	-0.02
37 T	1,2-Dichloroethane	0.580	0.575	0.9	107	-0.02
38 T	Trichloroethene	0.427	0.378	11.5	97	-0.03
39 T	1,2-Dichloropropane	0.397	0.388	2.3	105	-0.03
40 T	1,4-Dioxane	0.181	0.170	6.1	100	-0.03
41 T	Tetrahydrofuran	0.460	0.463	-0.7	107	-0.02
42 T	Bromodichloromethane	0.782	0.770	1.5	101	-0.03
43	Methyl Methacrylate	0.409	0.392	4.2	97	-0.04
44 T	2,2,4-Trimethylpentane	1.848	1.787	3.3	104	-0.03
45 T	t-1,3-Dichloropropene	0.406	0.367	9.6	90	-0.04
46 T	cis-1,3-Dichloropropene	0.526	0.492	6.5	92	-0.04
47 T	1,1,2-Trichloroethane	0.403	0.380	5.7	102	-0.04
48 T	Dibromochloromethane	0.632	0.597	5.5	97	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.525	4.4	97	-0.03
50 T	4-Methyl-2-Pentanone	1.008	1.102	-9.3	105	-0.05
51 T	2-Hexanone	0.693	0.889	-28.3	103	-0.04
52 T	Tetrachloroethene	0.358	0.330	7.8	98	-0.03
53 T	Toluene	1.170	1.096	6.3	98	-0.03
54 T	1,2-Dibromoethane	0.545	0.507	7.0	98	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	-0.03
56	1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	99	-0.03
57 T	Chlorobenzene	1.037	0.983	5.2	101	-0.02
58 T	Ethyl Benzene	1.842	1.764	4.2	97	-0.02
59 T	m/p-Xylene	1.466	1.426	2.7	100	0.00
60 T	o-Xylene	1.473	1.425	3.3	101	-0.02
61 T	Styrene	0.693	0.685	1.2	97	-0.02
62	Isopropylbenzene	2.207	2.119	4.0	101	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.970	0.936	3.5	103	-0.02
64	n-propylbenzene	0.579	0.557	3.8	99	-0.02
65	tert-Butylbenzene	2.008	1.871	6.8	101	-0.02
66 T	Benzyl Chloride	0.153	0.126	17.6	77	-0.02
67	sec-Butylbenzene	2.872	2.731	4.9	103	-0.02
68 S	1-Bromo-4-Fluorobenzene	0.769	0.781	-1.6	96	-0.02
69	p-Isopropyltoluene	2.285	2.209	3.3	102	-0.02
70	n-Butylbenzene	2.332	2.294	1.6	104	-0.02
71	2-Chlorotoluene	1.701	1.623	4.6	100	-0.02
72 T	4-Ethyltoluene	1.799	1.735	3.6	100	-0.02
73 T	1,3,5-Trimethylbenzene	1.560	1.474	5.5	100	-0.02
74 T	1,2,4-Trimethylbenzene	1.757	1.627	7.4	104	-0.02
75 T	1,3-Dichlorobenzene	1.011	0.951	5.9	102	-0.02
76 T	1,4-Dichlorobenzene	1.004	0.955	4.9	104	-0.02
77 T	1,2-Dichlorobenzene	0.981	0.939	4.3	105	-0.02
78 T	Hexachloro-1,3-Butadiene	0.764	0.673	11.9	99	-0.02
79 T	Naphthalene	1.205	1.484	-23.2	101	-0.02
80 T	Naphthalene,2-methyl-	0.330	0.552	-67.3#	92	-0.02
81 T	1,2,4-Trichlorobenzene	0.671	0.679	-1.2	99	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	108	-0.02
2 T	Dichlorodifluoromethane	10.000	9.815	1.9	116	0.00
3	Chlorodifluoromethane	10.000	9.103	9.0	109	0.00
4	Chloromethane	10.000	9.180	8.2	111	0.00
5 T	Vinyl Chloride	10.000	9.567	4.3	111	0.00
6 T	Bromomethane	10.000	10.045	-0.4	117	0.00
7	Chloroethane	10.000	9.398	6.0	111	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.722	2.8	115	0.00
9 T	Propene	10.000	9.268	7.3	113	0.00
10 T	Heptane	10.000	8.930	10.7	107	-0.04
11 T	Trichlorofluoromethane	10.000	10.382	-3.8	123	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.875	1.3	127	0.00
13	Ethanol	10.000	5.182	48.2#	106	0.00
14 T	Bromoethene	10.000	9.548	4.5	114	0.00
15 T	Acetone	10.000	8.752	12.5	116	0.00
16 T	1,3-Butadiene	10.000	9.124	8.8	113	0.00
17	tert-Butyl alcohol	10.000	9.130	8.7	114	-0.01
18 T	1,1-Dichloroethene	10.000	9.651	3.5	122	-0.01
19 T	Isopropyl Alcohol	10.000	9.061	9.4	118	0.00
20 T	Methylene Chloride	10.000	9.169	8.3	126	0.00
21 T	Allyl Chloride	10.000	9.743	2.6	124	-0.01
22 T	trans-1,2-Dichloroethene	10.000	9.561	4.4	126	-0.01
23 T	Vinyl Acetate	10.000	8.352	16.5	107	-0.01
24 T	1,1-Dichloroethane	10.000	9.678	3.2	127	-0.01
25 T	Ethyl Acetate	10.000	9.189	8.1	110	-0.02
26 T	Hexane	10.000	8.749	12.5	105	-0.02
27 T	Carbon Disulfide	10.000	9.906	0.9	121	-0.01
28 T	Methyl tert-Butyl Ether	10.000	8.307	16.9	122	-0.01
29 T	Chloroform	10.000	8.824	11.8	106	-0.02
30 T	Cyclohexane	10.000	8.474	15.3	98	-0.02
31 T	cis-1,2-Dichloroethene	10.000	8.928	10.7	105	-0.02
32 T	1,1,1-Trichloroethane	10.000	8.522	14.8	97	-0.02
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	97	-0.03
34 T	2-Butanone	10.000	10.179	-1.8	111	-0.02
35 T	Carbon Tetrachloride	10.000	9.958	0.4	102	-0.03
36 T	Benzene	10.000	9.584	4.2	100	-0.02
37 T	1,2-Dichloroethane	10.000	9.908	0.9	107	-0.02
38 T	Trichloroethene	10.000	8.836	11.6	97	-0.03
39 T	1,2-Dichloropropane	10.000	9.776	2.2	105	-0.03
40 T	1,4-Dioxane	10.000	9.347	6.5	100	-0.03
41 T	Tetrahydrofuran	10.000	10.057	-0.6	107	-0.02
42 T	Bromodichloromethane	10.000	9.852	1.5	101	-0.03
43	Methyl Methacrylate	10.000	9.589	4.1	97	-0.04
44 T	2,2,4-Trimethylpentane	10.000	9.675	3.2	104	-0.03
45 T	t-1,3-Dichloropropene	10.000	9.033	9.7	90	-0.04
46 T	cis-1,3-Dichloropropene	10.000	9.360	6.4	92	-0.04
47 T	1,1,2-Trichloroethane	10.000	9.419	5.8	102	-0.04
48 T	Dibromochloromethane	10.000	9.456	5.4	97	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.576	4.2	97	-0.03
50 T	4-Methyl-2-Pentanone	10.000	10.937	-9.4	105	-0.05
51 T	2-Hexanone	10.000	12.824	-28.2	103	-0.04
52 T	Tetrachloroethene	10.000	9.205	7.9	98	-0.03
53 T	Toluene	10.000	9.368	6.3	98	-0.03
54 T	1,2-Dibromoethane	10.000	9.302	7.0	98	-0.03
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	-0.03
56	1,1,1,2-Tetrachloroethane	10.000	9.414	5.9	99	-0.03
57 T	Chlorobenzene	10.000	9.485	5.2	101	-0.02
58 T	Ethyl Benzene	10.000	9.578	4.2	97	-0.02
59 T	m/p-Xylene	20.000	19.467	2.7	100	0.00
60 T	o-Xylene	10.000	9.674	3.3	101	-0.02
61 T	Styrene	10.000	9.888	1.1	97	-0.02
62	Isopropylbenzene	10.000	9.602	4.0	101	-0.02
63 T	1,1,2,2-Tetrachloroethane	10.000	9.647	3.5	103	-0.02
64	n-propylbenzene	10.000	9.618	3.8	99	-0.02
65	tert-Butylbenzene	10.000	9.316	6.8	101	-0.02
66 T	Benzyl Chloride	10.000	8.247	17.5	77	-0.02
67	sec-Butylbenzene	10.000	9.509	4.9	103	-0.02
68 S	1-Bromo-4-Fluorobenzene	10.000	10.156	-1.6	96	-0.02
69	p-Isopropyltoluene	10.000	9.669	3.3	102	-0.02
70	n-Butylbenzene	10.000	9.837	1.6	104	-0.02
71	2-Chlorotoluene	10.000	9.541	4.6	100	-0.02
72 T	4-Ethyltoluene	10.000	9.647	3.5	100	-0.02
73 T	1,3,5-Trimethylbenzene	10.000	9.447	5.5	100	-0.02
74 T	1,2,4-Trimethylbenzene	10.000	9.257	7.4	104	-0.02
75 T	1,3-Dichlorobenzene	10.000	9.402	6.0	102	-0.02
76 T	1,4-Dichlorobenzene	10.000	9.513	4.9	104	-0.02
77 T	1,2-Dichlorobenzene	10.000	9.567	4.3	105	-0.02
78 T	Hexachloro-1,3-Butadiene	10.000	8.819	11.8	99	-0.02
79 T	Naphthalene	10.000	12.321	-23.2	101	-0.02
80 T	Naphthalene,2-methyl-	10.000	16.737	-67.4#	92	-0.02
81 T	1,2,4-Trichlorobenzene	10.000	10.120	-1.2	99	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



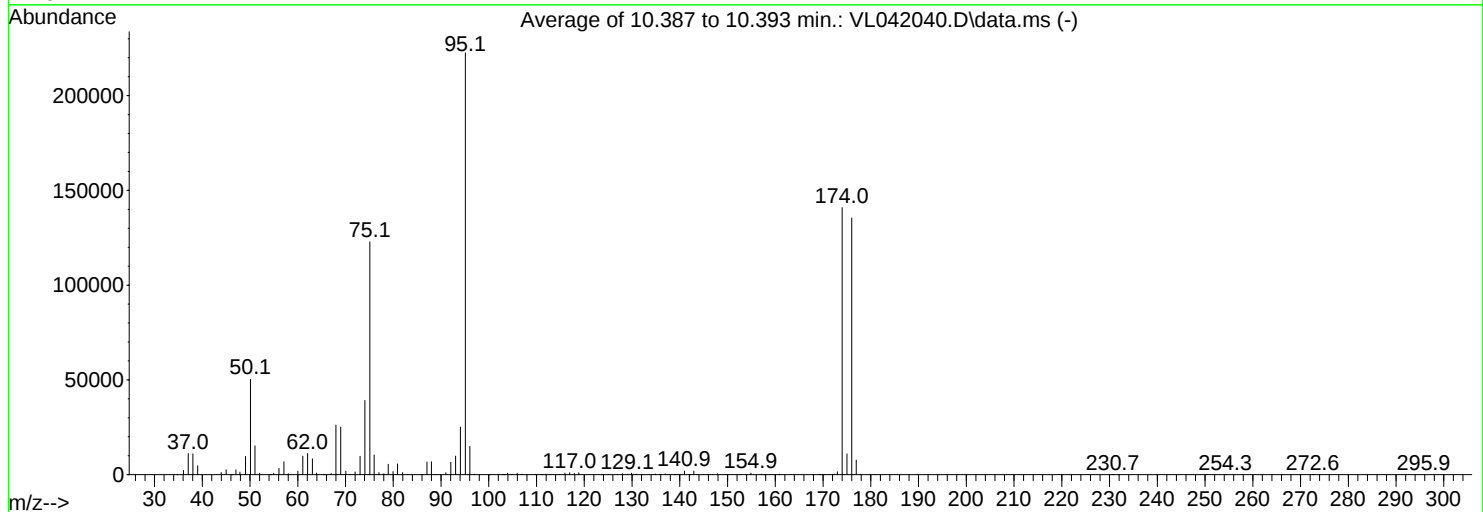
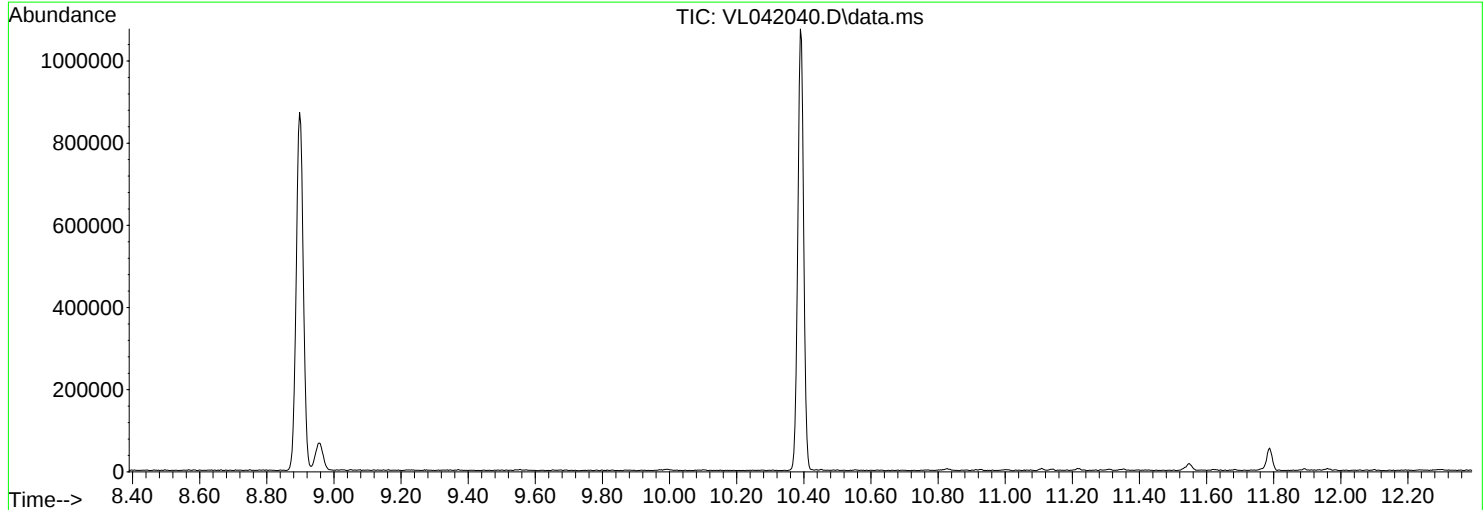
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
34.70	28	47.05	2526	58.05	414	68.00	2618
36.05	2223	47.90	1374	60.00	1900	69.00	2505
37.05	11140	49.05	9623	61.05	9827	70.05	185
38.05	10945	50.10	50320	62.05	11140	71.00	6
39.05	4647	51.05	15242	63.05	8365	72.00	1450
41.85	112	52.00	740	63.95	890	73.05	9731
43.00	126	54.30	17	64.95	122	74.05	39184
43.95	1131	54.95	752	65.40	22	75.10	122859
45.00	2511	56.05	3327	66.10	82	76.00	10406
45.90	77	57.10	6812	66.70	141	77.00	1084
46.20	45	57.90	131	67.00	689	77.90	437

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.10	265	91.00	978	103.95	765	114.85	144
78.95	5465	92.05	6469	104.70	49	115.95	842
79.95	1631	93.05	9774	105.00	247	116.95	1016
80.90	5642	94.05	25088	105.95	752	117.90	687
81.95	1083	95.10	222571	106.95	295	118.85	1016
82.95	188	96.05	14875	109.80	139	123.80	72
85.80	135	97.00	284	110.90	160	124.00	81
86.20	121	99.90	37	111.10	25	125.10	63
87.05	6697	100.10	27	111.95	220	126.90	143
88.00	6841	102.90	35	112.85	148	127.95	520
88.80	63	103.20	35	114.50	51	129.05	303

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.90	788	140.95	1984	150.00	105	167.80	25
130.70	187	141.90	37	152.90	126	169.10	103
130.95	248	142.05	44	153.85	131	169.40	46
134.60	83	142.95	1834	154.90	850	169.95	64
134.95	371	143.65	110	156.00	119	170.40	64
135.90	48	144.95	99	156.85	134	170.60	88
136.95	394	145.75	130	157.10	226	171.25	175
138.90	30	146.00	95	157.70	18	171.90	106
139.50	84	146.85	213	158.00	51	172.40	228
139.90	68	147.90	442	158.90	147	173.00	1534
140.10	99	149.70	178	160.90	256	174.00	140957

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

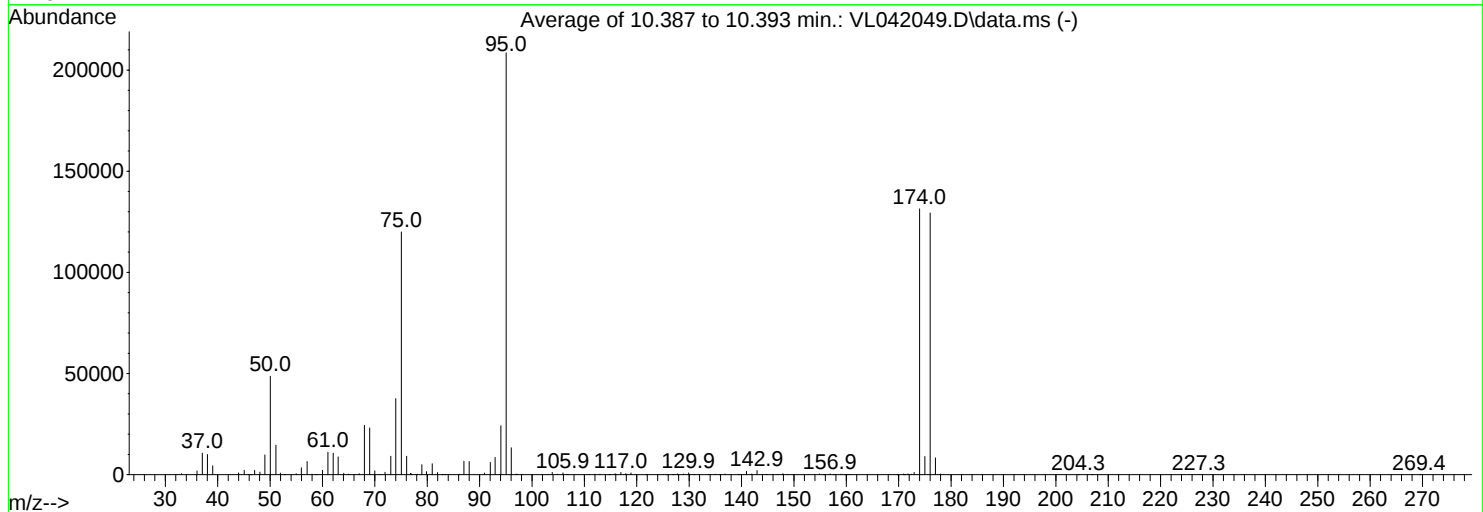
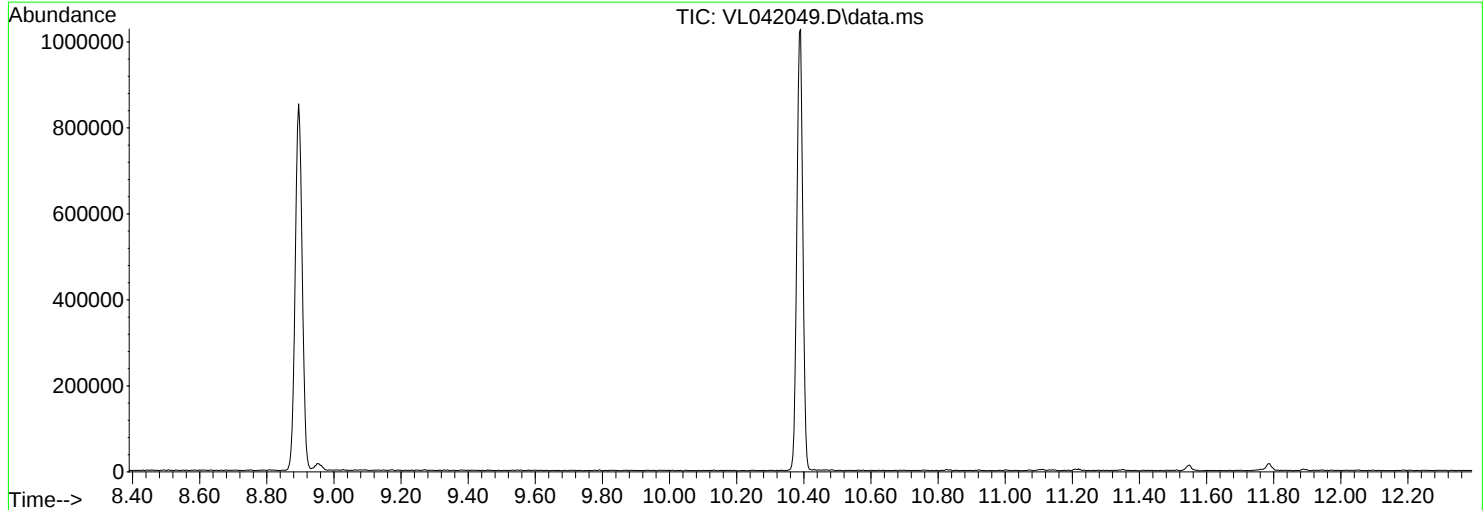
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	11014						
176.00	135437						
176.95	7676						
177.90	161						
180.95	55						
230.70	27						
231.90	20						
254.30	36						
272.60	20						
295.85	67						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042049.D
Acq On : 26 Feb 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.3	48688	PASS
75	95	30	66	57.6	120021	PASS
95	95	100	100	100.0	208533	PASS
96	95	5	9	6.4	13271	PASS
173	174	0.00	2	0.8	1077	PASS
174	95	50	120	63.0	131429	PASS
175	174	4	9	6.8	8951	PASS
176	174	93	101	98.5	129411	PASS
177	176	5	9	6.4	8302	PASS

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	444	46.30	33	58.00	267	68.00	2439
34.10	89	47.05	2153	58.70	32	69.00	2312
36.05	1844	48.05	1303	60.00	2109	70.00	188
37.05	10667	49.00	9754	61.05	11094	70.90	4
38.05	10014	50.05	48688	62.05	10570	71.95	1166
39.05	4341	51.10	14536	63.00	8757	73.05	9099
39.95	189	51.95	802	64.05	705	74.00	37563
42.35	56	52.70	38	65.00	222	75.05	120021
44.00	882	55.00	489	66.20	139	76.05	9120
45.05	2180	55.95	3385	66.80	237	76.80	665
45.90	90	57.05	6526	67.05	420	77.00	419

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.80	203	88.00	6528	103.85	1108	116.10	59
78.10	234	89.90	62	104.85	242	116.95	1104
78.95	4879	90.90	798	105.90	845	117.90	569
79.85	1525	92.05	6030	106.70	150	118.90	897
80.95	5390	92.95	8533	106.90	52	121.80	44
81.95	1037	94.05	24184	110.90	178	123.90	33
82.80	33	95.05	208533	112.00	270	125.05	99
82.95	48	96.05	13271	112.95	245	125.70	47
83.30	28	96.90	139	114.70	43	125.90	24
86.10	258	97.10	324	115.00	85	126.90	27
87.00	6686	103.00	143	115.85	504	127.80	366

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	203	140.00	207	150.15	121	169.70	19
128.95	297	140.95	1699	152.70	102	170.00	109
129.90	864	141.95	314	153.85	170	170.90	280
130.90	100	142.95	2085	154.90	374	171.10	47
131.05	133	144.75	159	155.70	26	171.80	411
131.75	78	145.00	70	156.90	423	172.40	275
133.70	60	145.95	199	157.55	37	172.95	1077
134.95	225	146.95	149	158.95	230	174.00	131429
135.80	37	147.90	442	159.70	18	175.00	8951
136.85	340	148.80	149	160.20	18	176.00	129411
139.40	37	149.90	73	160.85	143	177.00	8302

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

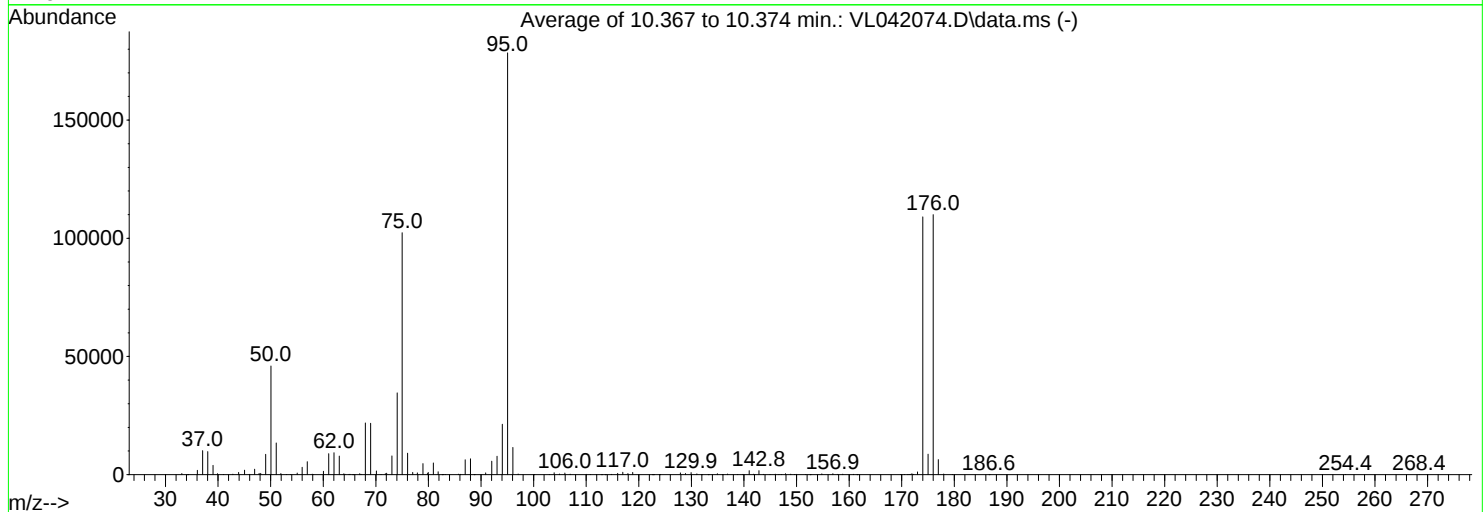
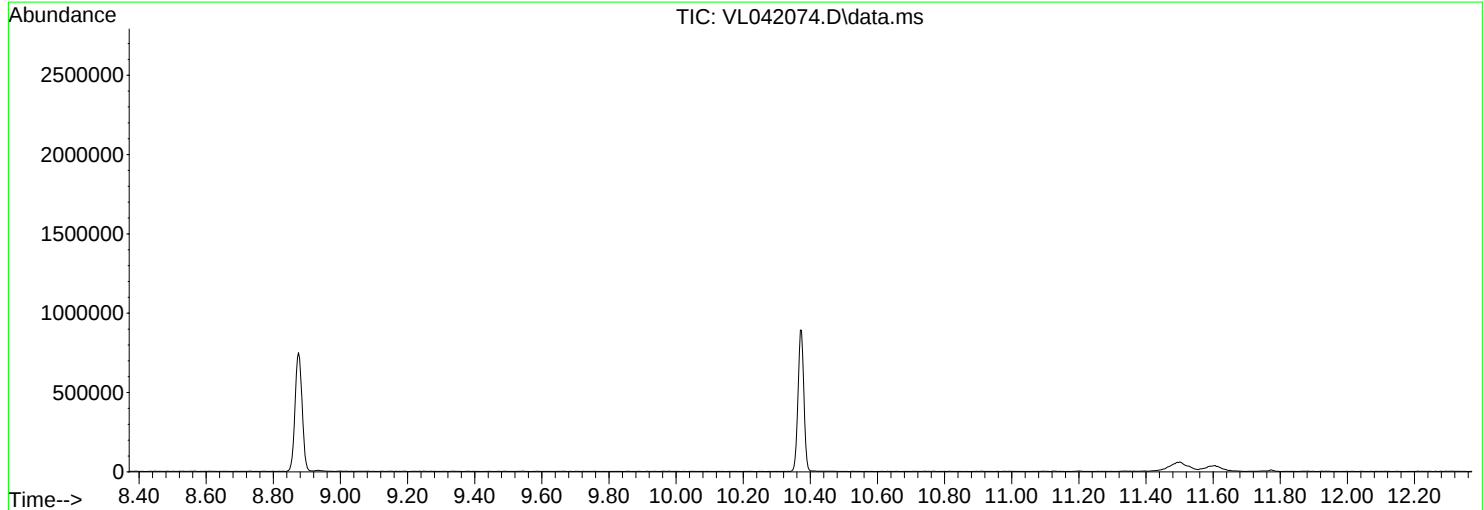
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.95	321						
204.30	18						
206.90	17						
227.35	73						
269.40	18						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042074.D
Acq On : 03 Mar 2025 11:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.8	45971	PASS
75	95	30	66	57.4	102347	PASS
95	95	100	100	100.0	178453	PASS
96	95	5	9	6.5	11542	PASS
173	174	0.00	2	1.0	1135	PASS
174	95	50	120	61.1	109091	PASS
175	174	4	9	7.9	8641	PASS
176	174	93	101	100.9	110029	PASS
177	176	5	9	5.8	6386	PASS

Average of 10.367 to 10.374 min.: VL042074.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	499	45.95	123	56.00	3141	65.10	141
34.20	24	46.95	2324	56.95	5518	65.60	31
36.05	1847	47.80	581	57.90	195	66.00	9
37.05	10159	48.10	557	58.10	87	66.95	39
38.05	9726	49.05	8595	60.05	1431	67.20	111
39.05	3956	50.05	45971	61.05	8845	68.00	21867
39.90	401	51.05	13381	62.05	9305	69.00	21725
41.05	77	51.95	458	63.05	7854	70.10	1543
42.80	217	53.05	71	63.90	365	71.00	68
43.90	939	53.80	86	64.10	192	71.80	400
45.05	1864	55.05	665	64.90	127	72.05	639

Average of 10.367 to 10.374 min.: VL042074.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.05	7939	82.60	20	94.05	21349	110.80	88
74.05	34621	82.90	64	95.05	178453	111.95	81
75.00	102347	83.20	93	96.05	11542	112.90	33
76.05	9040	85.70	222	97.05	259	113.60	17
77.00	952	86.10	141	100.00	26	114.80	166
77.90	743	87.00	6274	103.00	44	116.00	577
78.95	4653	88.00	6722	103.90	820	116.95	1016
79.80	502	88.70	26	104.90	260	117.95	461
79.95	968	90.90	762	105.95	657	118.85	973
80.95	4962	92.05	5671	106.95	192	120.00	59
81.85	1201	93.05	7819	110.05	129	122.60	36

Average of 10.367 to 10.374 min.: VL042074.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
122.80	19	136.90	265	147.10	57	160.85	125
123.90	26	138.80	98	147.90	435	161.50	20
124.15	78	139.80	141	148.90	225	169.80	52
127.90	771	141.00	1695	149.60	44	170.00	52
128.90	476	141.85	195	149.95	159	170.50	74
129.95	904	142.10	50	151.75	87	171.15	95
131.05	359	142.85	1716	152.60	17	171.40	93
131.90	28	143.70	106	154.80	337	171.60	130
133.20	23	144.95	78	156.90	392	171.95	416
134.95	407	145.95	210	157.85	162	172.20	124
135.90	22	146.65	52	158.80	216	173.00	1135

Average of 10.367 to 10.374 min.: VL042074.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.00	109091						
175.00	8641						
176.00	110029						
176.95	6386						
178.00	252						
179.65	41						
186.60	29						
254.40	42						
268.40	46						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0226ABL01	SDG No.:	Q1430
Lab Sample ID:	VL0226ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042051.D	1		02/26/25 09:20	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0226ABL01	SDG No.:	Q1430
Lab Sample ID:	VL0226ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042051.D	1		02/26/25 09:20	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.797			
540-36-3	1,4-Difluorobenzene	387000		3.975			
3114-55-4	Chlorobenzene-d5	332000		8.898			

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0226ABL01	SDG No.:	Q1430
Lab Sample ID:	VL0226ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042051.D	1		02/26/25 09:20	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042051.D
 Acq On : 26 Feb 2025 09:20
 Operator : SY/MD
 Sample : VL0226ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	157395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	386755	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	331916	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	257988	10.103	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

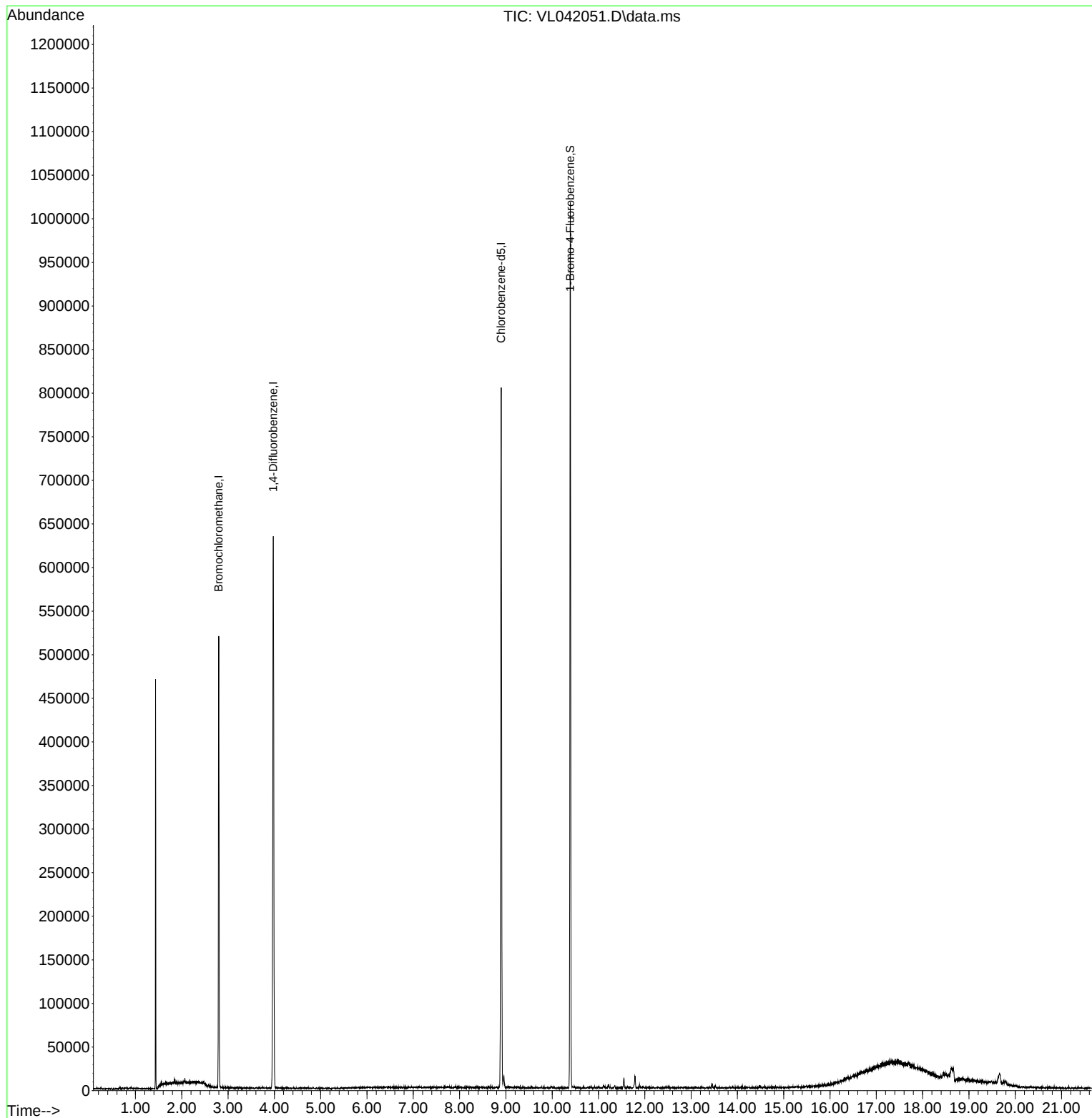
Target Compounds	Qvalue

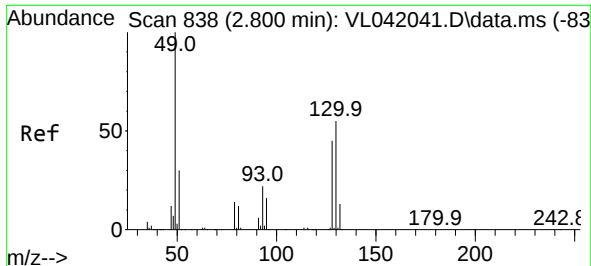
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

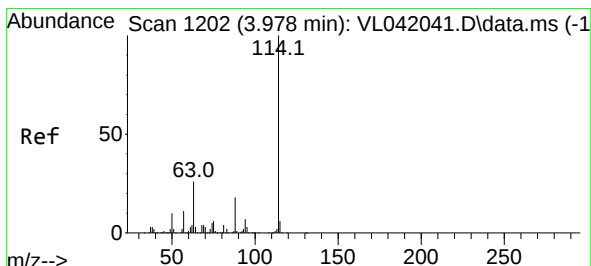
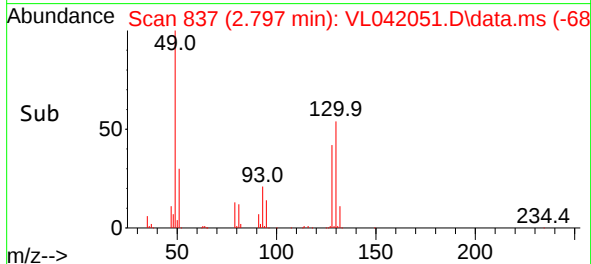
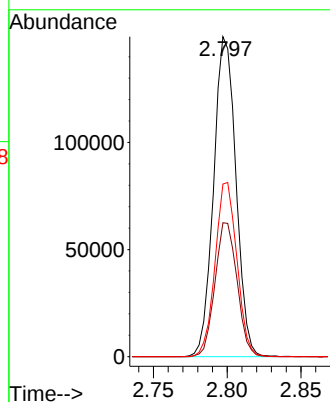
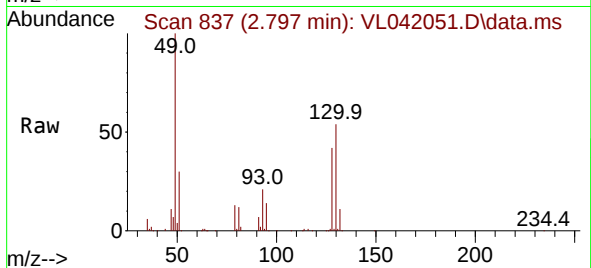




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

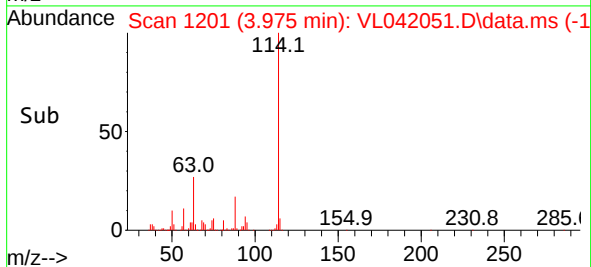
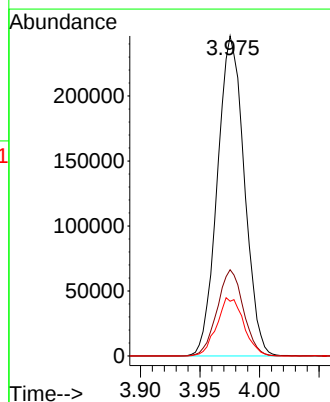
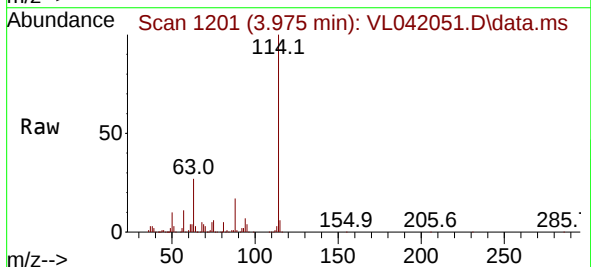
Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

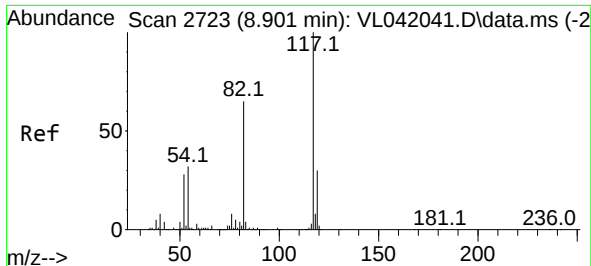
Tgt Ion: 49 Resp: 157395
Ion Ratio Lower Upper
49 100
128 41.4 21.6 64.8
130 53.1 27.8 83.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

Tgt Ion: 114 Resp: 386755
Ion Ratio Lower Upper
114 100
63 26.2 20.1 30.1
88 18.2 14.3 21.5

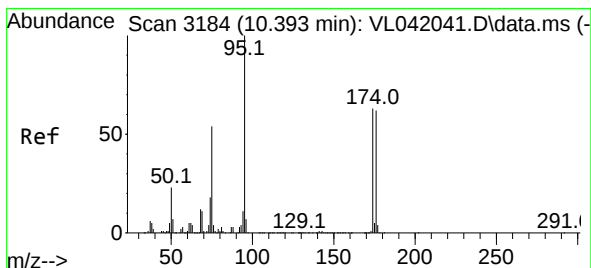
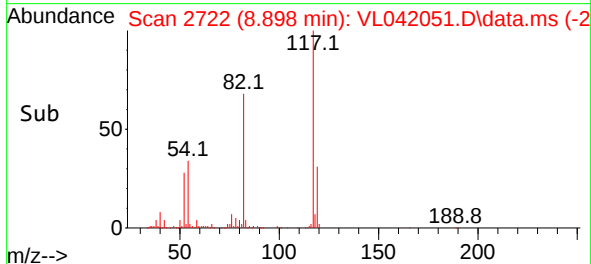
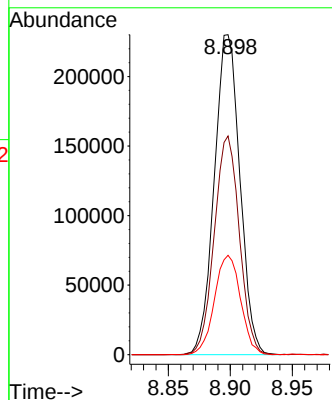
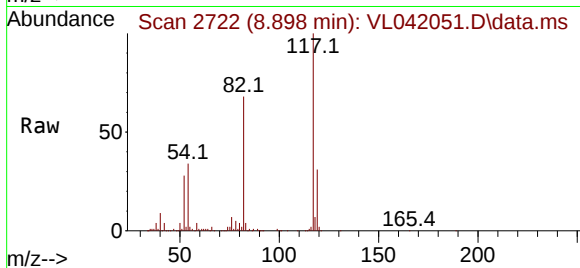




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

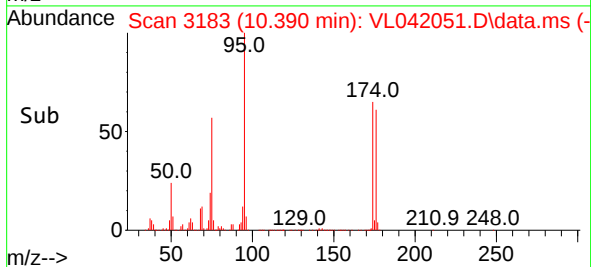
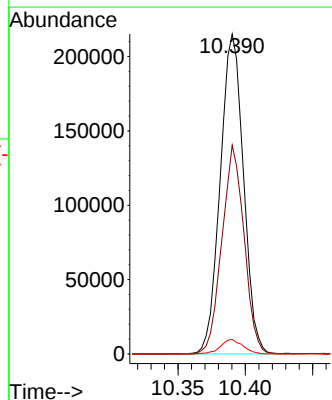
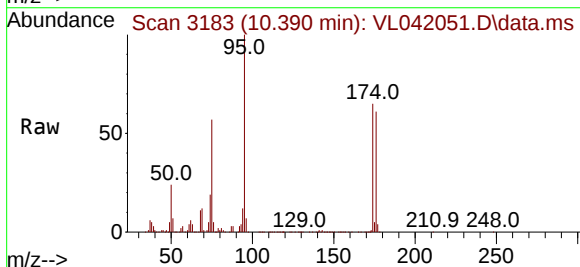
Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Tgt Ion:117 Resp: 331916
Ion Ratio Lower Upper
117 100
82 66.9 55.0 82.6
119 31.7 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.103 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

Tgt Ion: 95 Resp: 257988
Ion Ratio Lower Upper
95 100
174 62.4 51.8 77.6
175 4.4 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0303ABL01	SDG No.:	Q1430
Lab Sample ID:	VL0303ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042076.D	1		03/03/25 14:49	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0303ABL01	SDG No.:	Q1430
Lab Sample ID:	VL0303ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042076.D	1		03/03/25 14:49	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.787			
540-36-3	1,4-Difluorobenzene	350000		3.959			
3114-55-4	Chlorobenzene-d5	303000		8.882			

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0303ABL01	SDG No.:	Q1430
Lab Sample ID:	VL0303ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042076.D	1		03/03/25 14:49	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042076.D
 Acq On : 03 Mar 2025 14:49
 Operator : SY/MD
 Sample : VL0303ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABL01

Quant Time: Mar 04 00:17:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	156551	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	349743	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	302717	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	224142	9.624	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.200%

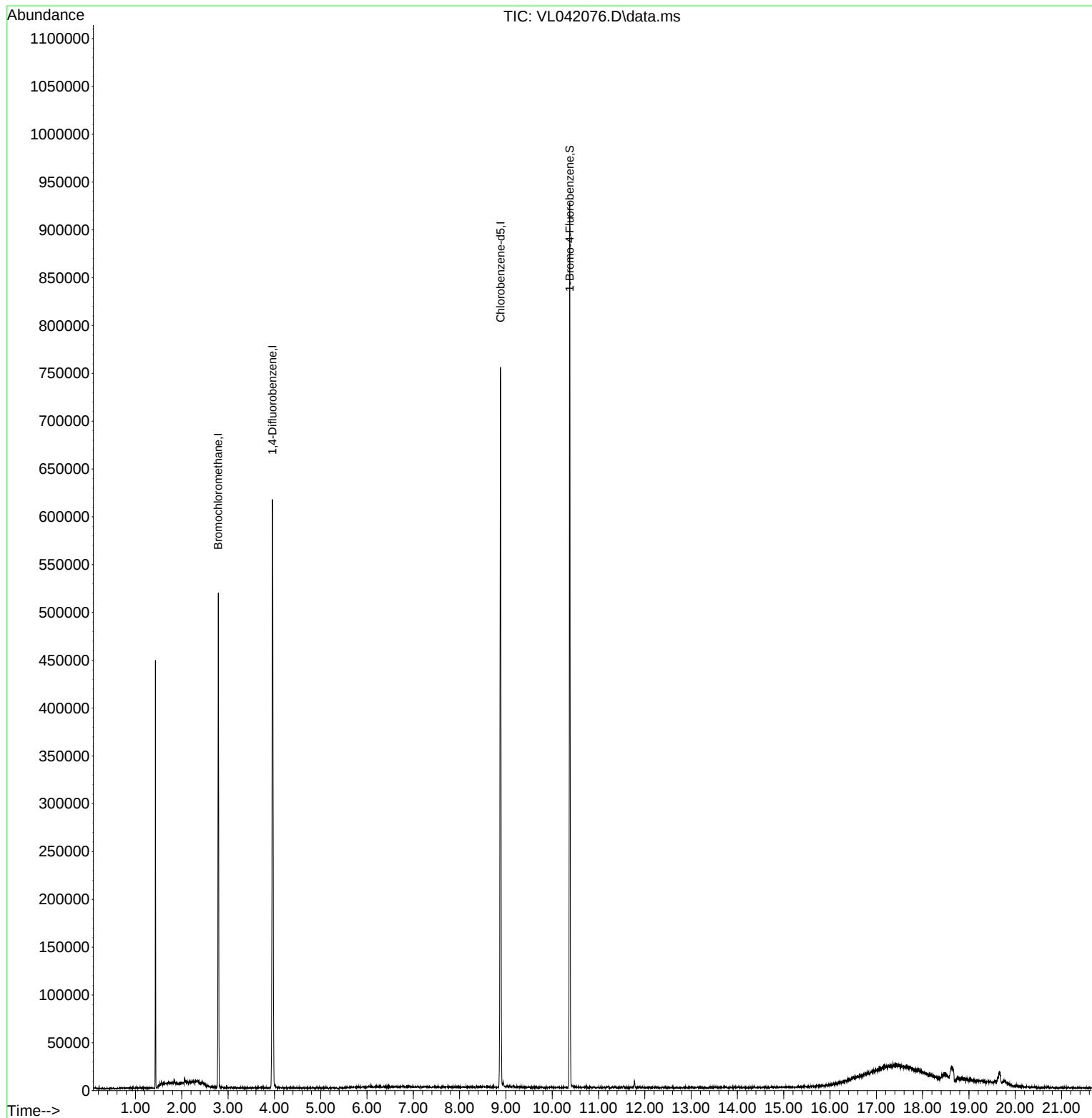
Target Compounds	Qvalue

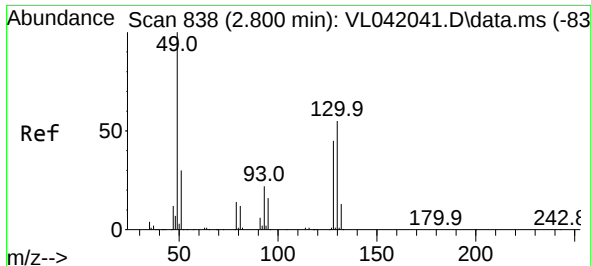
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042076.D
Acq On : 03 Mar 2025 14:49
Operator : SY/MD
Sample : VL0303ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

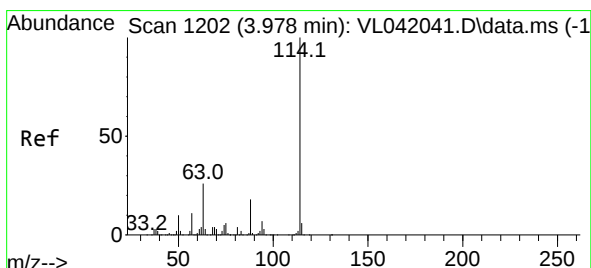
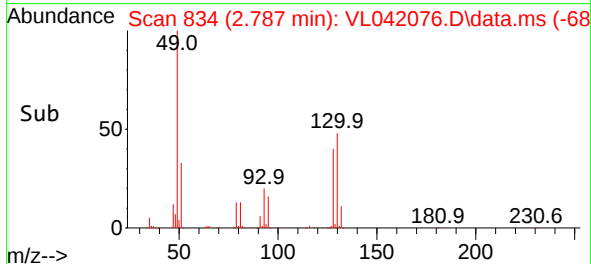
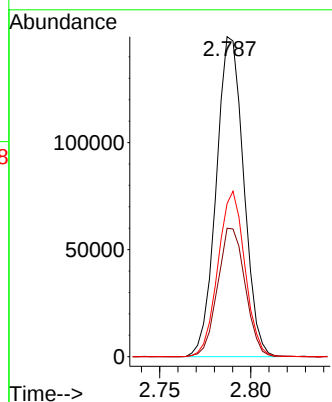
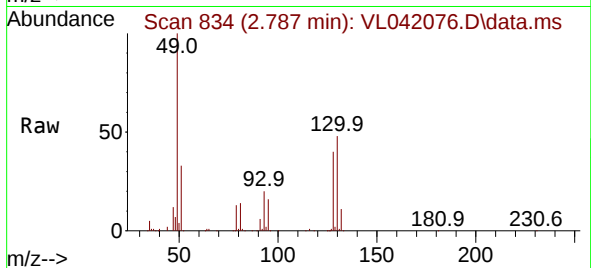




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042076.D
Acq: 03 Mar 2025 14:49

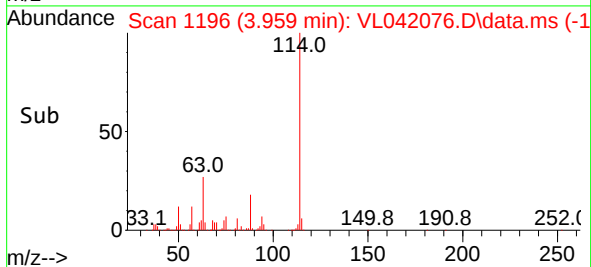
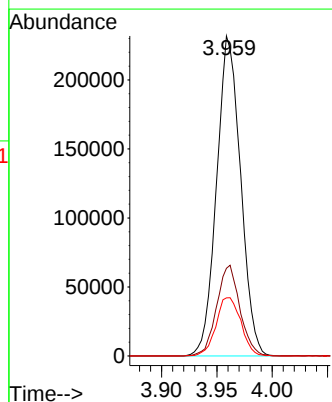
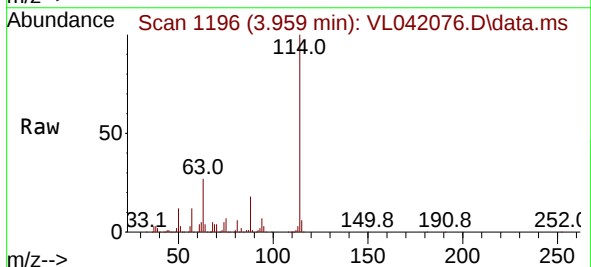
Instrument :
MSVOA_L
ClientSampleId :
VL0303ABL01

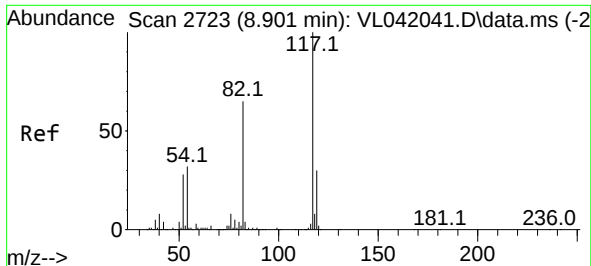
Tgt Ion: 49 Resp: 156551
Ion Ratio Lower Upper
49 100
128 40.3 21.6 64.8
130 50.7 27.8 83.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.020 min
Lab File: VL042076.D
Acq: 03 Mar 2025 14:49

Tgt Ion: 114 Resp: 349743
Ion Ratio Lower Upper
114 100
63 27.5 20.1 30.1
88 18.9 14.3 21.5

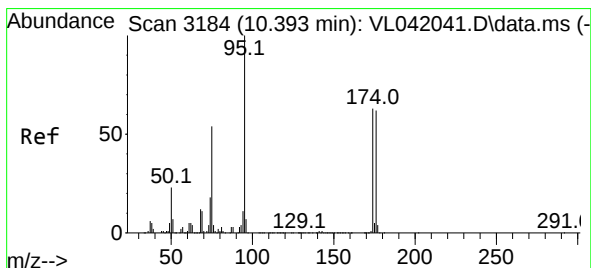
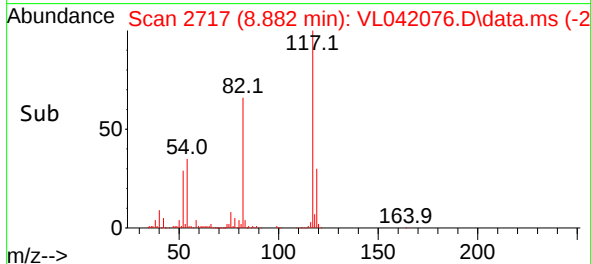
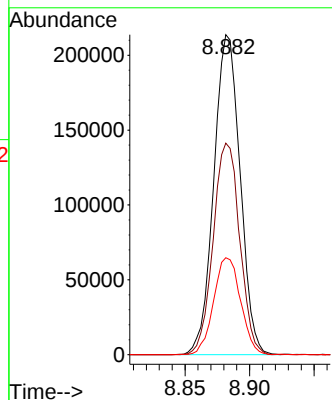
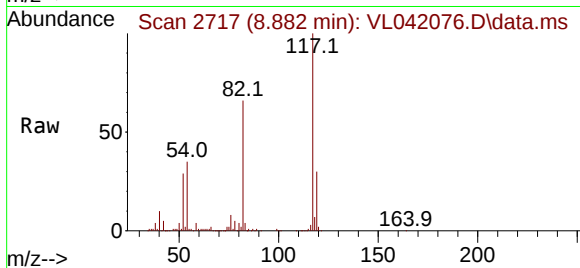




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.020 min
Lab File: VL042076.D
Acq: 03 Mar 2025 14:49

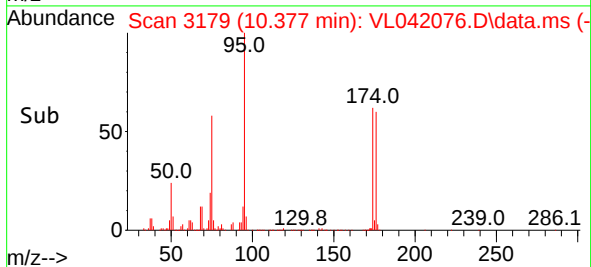
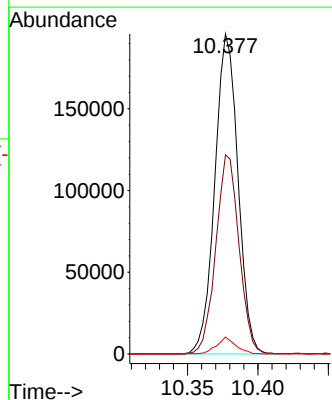
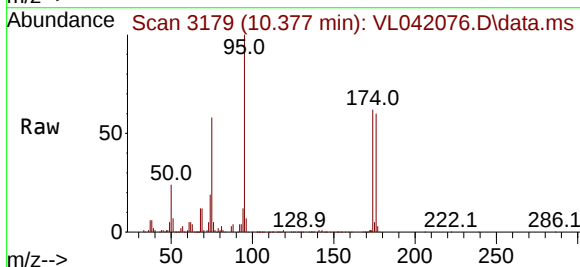
Instrument :
MSVOA_L
ClientSampleId :
VL0303ABL01

Tgt Ion:117 Resp: 302717
Ion Ratio Lower Upper
117 100
82 66.7 55.0 82.6
119 31.1 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.624 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.016 min
Lab File: VL042076.D
Acq: 03 Mar 2025 14:49

Tgt Ion: 95 Resp: 224142
Ion Ratio Lower Upper
95 100
174 62.6 51.8 77.6
175 4.4 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0226ABS01	SDG No.:	Q1430
Lab Sample ID:	VL0226ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042054.D	1		02/26/25 11:07	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.70	48.0		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.10	18.8		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.90	25.3		0.030	0.080	ug/m3
74-83-9	Bromomethane	9.60	37.3		0.54	1.94	ug/m3
75-00-3	Chloroethane	9.30	24.5		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.2	30.1		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.70	54.5		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.80	75.1		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.60	67.1		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.30	28.2		0.58	1.52	ug/m3
142-82-5	Heptane	9.10	37.3		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.30	36.9		0.56	1.98	ug/m3
67-64-1	Acetone	8.60	20.4		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	9.70	30.2		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.80	35.3		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	9.00	31.3		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.20	36.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.60	38.9		0.53	2.02	ug/m3
110-82-7	Cyclohexane	8.90	30.6		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.2	30.1		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.3	64.8		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.30	36.9		0.36	1.98	ug/m3
67-66-3	Chloroform	9.00	44.0		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.20	50.2		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7		0.47	2.34	ug/m3
71-43-2	Benzene	9.70	31.0		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.2	41.3		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.10	48.9		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.0	46.2		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.0	67.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.0	45.1		0.37	2.05	ug/m3
108-88-3	Toluene	9.70	36.5		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.80	44.5		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.90	44.9		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.30	50.7		0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0226ABS01	SDG No.:	Q1430
Lab Sample ID:	VL0226ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042054.D	1		02/26/25 11:07	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	9.80	83.5		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.50	73.0		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	9.40	63.7		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	9.50	43.8		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	9.80	42.6		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	19.5	84.7		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.60	41.7		0.52	2.17	ug/m3
100-42-5	Styrene	9.90	42.1		0.47	2.13	ug/m3
75-25-2	Bromoform	9.60	99.3		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.50	65.2		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.60	49.7		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.60	47.2		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.30	45.7		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.40	56.5		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.30	55.9		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.40	56.5		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.2	75.7		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.90	94.9		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.10	20.1		0.29	1.11	ug/m3
91-20-3	Naphthalene	12.4	65.0		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	9.70	47.7		0.59	2.46	ug/m3
110-54-3	Hexane	8.90	31.4		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.50	29.7		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	9.80	35.3		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	10.0	41.0		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	153000		2.797			
540-36-3	1,4-Difluorobenzene	369000		3.972			
3114-55-4	Chlorobenzene-d5	319000		8.895			

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0226ABS01	SDG No.:	Q1430
Lab Sample ID:	VL0226ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042054.D	1		02/26/25 11:07	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	153181	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	369057	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	318885	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 257152 10.482 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	154942	9.727	ppbv	100
3) Chlorodifluoromethane	1.480	51	208345	9.358	ppbv	100
4) Chloromethane	1.538	50	53585	9.097	ppbv	99
5) Vinyl Chloride	1.583	62	54944	9.861	ppbv	96
6) Bromomethane	1.674	94	25364	9.560	ppbv	96
7) Chloroethane	1.709	64	21007	9.279	ppbv	88
8) Dichlorotetrafluoroethane	1.557	85	125091	9.553	ppbv	98
9) Propene	1.486	41	83500	9.206	ppbv	99
10) Heptane	5.001	43	256046	9.067	ppbv	99
11) Trichlorofluoromethane	1.884	101	154527	9.682	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	124837	9.805	ppbv	96
13) Ethanol	1.726	45	3000	5.211	ppbv	92
14) Bromoethene	1.787	108	43051	9.576	ppbv	99
15) Acetone	1.842	43	116404	8.605	ppbv	100
16) 1,3-Butadiene	1.612	39	57319	9.105	ppbv	99
17) tert-Butyl alcohol	2.049	59	156939	9.273	ppbv	99
18) 1,1-Dichloroethene	2.039	96	53389	9.281	ppbv	86
19) Isopropyl Alcohol	1.891	45	68899	8.867	ppbv	100
20) Methylene Chloride	2.069	84	46174	9.024	ppbv	93
21) Allyl Chloride	2.101	41	92702	9.484	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61477	9.167	ppbv	99
23) Vinyl Acetate	2.470	43	80476	8.461	ppbv	98
24) 1,1-Dichloroethane	2.415	63	119185	9.551	ppbv	99
25) Ethyl Acetate	2.845	43	509260	9.405	ppbv	100
26) Hexane	2.836	57	194754	8.897	ppbv	94
27) Carbon Disulfide	2.156	76	144095	9.711	ppbv #	91
28) Methyl tert-Butyl Ether	2.451	73	106845	9.804	ppbv	99
29) Chloroform	2.858	83	266332	9.040	ppbv	98
30) Cyclohexane	3.871	84	158311	8.910	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	193240	9.325	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	262261	9.177	ppbv	96
34) 2-Butanone	2.567	43	292802	10.184	ppbv	97
35) Carbon Tetrachloride	3.778	117	262129	10.300	ppbv	95
36) Benzene	3.671	78	375533	9.720	ppbv	95
37) 1,2-Dichloroethane	3.231	62	218716	10.211	ppbv	98
38) Trichloroethene	4.567	130	143714	9.110	ppbv	95
39) 1,2-Dichloropropane	4.331	63	146117	9.964	ppbv	99
40) 1,4-Dioxane	4.603	88	65661	9.809	ppbv #	96
41) Tetrahydrofuran	3.066	42	172429	10.150	ppbv	98
42) Bromodichloromethane	4.506	83	289453	10.029	ppbv	100
43) Methyl Methacrylate	4.904	69	151059	10.012	ppbv	95
44) 2,2,4-Trimethylpentane	4.658	57	684336	10.036	ppbv	99
45) t-1,3-Dichloropropene	6.441	75	147062	9.811	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

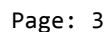
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	191420	9.868	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	139001	9.337	ppbv	97
48) Dibromochloromethane	7.406	129	228694	9.808	ppbv	100
49) Bromoform	9.497	173	194002	9.581	ppbv	99
50) 4-Methyl-2-Pentanone	5.775	43	407870	10.969	ppbv	98
51) 2-Hexanone	7.454	43	327784	12.808	ppbv #	99
52) Tetrachloroethene	8.241	164	123860	9.365	ppbv	95
53) Toluene	6.953	91	418086	9.683	ppbv	98
54) 1,2-Dibromoethane	7.671	107	190454	9.462	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.940	131	171980	9.542	ppbv	100
57) Chlorobenzene	8.937	112	313487	9.482	ppbv	98
58) Ethyl Benzene	9.370	91	575798	9.805	ppbv	99
59) m/p-Xylene	9.565	91	909392m	19.459	ppbv	
60) o-Xylene	9.976	91	450481	9.588	ppbv	100
61) Styrene	9.882	104	218205	9.879	ppbv	100
62) Isopropylbenzene	10.552	105	678100	9.637	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	295251	9.543	ppbv	99
64) n-propylbenzene	10.999	120	178544	9.674	ppbv	95
65) tert-Butylbenzene	11.542	119	599970	9.369	ppbv	98
66) Benzyl Chloride	11.630	91	44022	9.009	ppbv	97
67) sec-Butylbenzene	11.779	105	863022	9.423	ppbv	99
69) p-Isopropyltoluene	11.937	119	715231	9.816	ppbv	99
70) n-Butylbenzene	12.293	91	744799	10.014	ppbv	99
71) 2-Chlorotoluene	10.914	91	520897	9.603	ppbv	99
72) 4-Ethyltoluene	11.138	105	558376	9.734	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	475566	9.557	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	520419	9.288	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	302808	9.390	ppbv	98
76) 1,4-Dichlorobenzene	11.685	146	298128	9.311	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	293043	9.364	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	216968	8.911	ppbv	99
79) Naphthalene	13.523	128	476359	12.399	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187061	17.792	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	218258	10.194	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Feb 27 00:26:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0303ABS01	SDG No.:	Q1430
Lab Sample ID:	VL0303ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042077.D	1		03/03/25 15:19	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.7	52.9		1.04	2.47	ug/m3
74-87-3	Chloromethane	10.2	21.1		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	10.3	26.3		0.030	0.080	ug/m3
74-83-9	Bromomethane	10.4	40.4		0.54	1.94	ug/m3
75-00-3	Chloroethane	10.4	27.4		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.2	33.0		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	11.7	65.8		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	11.2	85.8		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.6	74.1		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.60	29.1		0.58	1.52	ug/m3
142-82-5	Heptane	9.60	39.3		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.4	41.2		0.56	1.98	ug/m3
67-64-1	Acetone	9.90	23.5		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	11.0	34.3		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.40	30.3		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	9.90	34.4		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	10.2	40.4		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.7	43.3		0.53	2.02	ug/m3
110-82-7	Cyclohexane	8.90	30.6		0.76	1.72	ug/m3
78-93-3	2-Butanone	11.3	33.3		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.9	68.6		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.30	36.9		0.36	1.98	ug/m3
67-66-3	Chloroform	9.40	45.9		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.10	49.6		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.9	50.9		0.47	2.34	ug/m3
71-43-2	Benzene	10.5	33.5		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	11.0	44.5		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.80	52.7		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.7	49.5		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.8	72.3		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	12.1	49.6		0.37	2.05	ug/m3
108-88-3	Toluene	10.3	38.8		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.60	43.6		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.1	45.9		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.2	55.6		0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0303ABS01	SDG No.:	Q1430
Lab Sample ID:	VL0303ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042077.D	1		03/03/25 15:19	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.2	86.9		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.2	78.4		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	10.1	68.5		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.2	47.0		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.5	45.6		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	21.5	93.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.7	46.5		0.52	2.17	ug/m3
100-42-5	Styrene	10.6	45.1		0.47	2.13	ug/m3
75-25-2	Bromoform	10.5	109		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.9	74.8		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.5	54.4		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.5	51.6		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.2	50.1		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.5	63.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.6	63.7		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.7	64.3		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	11.0	81.7		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.80	105		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	10.0	22.1		0.29	1.11	ug/m3
91-20-3	Naphthalene	13.5	70.8		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	10.6	52.1		0.59	2.46	ug/m3
110-54-3	Hexane	9.20	32.4		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	10.5	32.9		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	10.4	37.5		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	10.3	42.2		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000		2.787			
540-36-3	1,4-Difluorobenzene	357000		3.959			
3114-55-4	Chlorobenzene-d5	310000		8.882			

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	38-11 31st St, Long Island City, NY	Date Received:	
Client Sample ID:	VL0303ABS01	SDG No.:	Q1430
Lab Sample ID:	VL0303ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042077.D	1		03/03/25 15:19	VL030325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042077.D
 Acq On : 03 Mar 2025 15:19
 Operator : SY/MD
 Sample : VL0303ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	157956	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	356972	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	309763	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 242622 10.181 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	174930	10.650	ppbv	99
3) Chlorodifluoromethane	1.476	51	222297	9.683	ppbv	100
4) Chloromethane	1.531	50	62156	10.233	ppbv	97
5) Vinyl Chloride	1.580	62	59385	10.336	ppbv	100
6) Bromomethane	1.667	94	28458	10.402	ppbv	97
7) Chloroethane	1.703	64	24205	10.368	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	142918	10.584	ppbv	98
9) Propene	1.483	41	90270	9.652	ppbv	98
10) Heptane	4.978	43	279114	9.585	ppbv	97
11) Trichlorofluoromethane	1.878	101	191850	11.657	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	147601	11.243	ppbv	95
13) Ethanol	1.722	45	3648	6.145	ppbv	97
14) Bromoethene	1.780	108	48227	10.403	ppbv	100
15) Acetone	1.835	43	137515	9.858	ppbv	100
16) 1,3-Butadiene	1.609	39	64593	9.950	ppbv	97
17) tert-Butyl alcohol	2.039	59	167124	9.576	ppbv	100
18) 1,1-Dichloroethene	2.033	96	61659	10.394	ppbv	91
19) Isopropyl Alcohol	1.887	45	78936	9.851	ppbv	98
20) Methylene Chloride	2.062	84	52065	9.868	ppbv	96
21) Allyl Chloride	2.098	41	105683	10.486	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	70753	10.232	ppbv	93
23) Vinyl Acetate	2.463	43	74937	7.640	ppbv	98
24) 1,1-Dichloroethane	2.408	63	137183	10.661	ppbv	100
25) Ethyl Acetate	2.836	43	548497	9.824	ppbv	99
26) Hexane	2.826	57	207965	9.213	ppbv	92
27) Carbon Disulfide	2.149	76	168252	10.996	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	94112	8.374	ppbv	100
29) Chloroform	2.849	83	286765	9.439	ppbv	97
30) Cyclohexane	3.858	84	163145	8.905	ppbv	91
31) cis-1,2-Dichloroethene	2.722	61	199200	9.322	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	269140	9.133	ppbv	95
34) 2-Butanone	2.557	43	313084	11.258	ppbv	95
35) Carbon Tetrachloride	3.765	117	268731	10.917	ppbv	96
36) Benzene	3.658	78	390842	10.459	ppbv	96
37) 1,2-Dichloroethane	3.218	62	227067	10.959	ppbv	98
38) Trichloroethene	4.551	130	148971	9.762	ppbv	94
39) 1,2-Dichloropropane	4.315	63	151311	10.668	ppbv	96
40) 1,4-Dioxane	4.587	88	67241	10.385	ppbv #	91
41) Tetrahydrofuran	3.056	42	183578	11.172	ppbv	93
42) Bromodichloromethane	4.490	83	302583	10.839	ppbv	100
43) Methyl Methacrylate	4.881	69	150871	10.338	ppbv	91
44) 2,2,4-Trimethylpentane	4.638	57	718377	10.892	ppbv	98
45) t-1,3-Dichloropropene	6.415	75	139814	9.643	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042077.D
 Acq On : 03 Mar 2025 15:19
 Operator : SY/MD
 Sample : VL0303ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	189075	10.077	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	146747	10.191	ppbv	97
48) Dibromochloromethane	7.390	129	229765	10.188	ppbv	99
49) Bromoform	9.487	173	205188	10.477	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	434273	12.074	ppbv	95
51) 2-Hexanone	7.438	43	347904	14.054	ppbv #	96
52) Tetrachloroethene	8.225	164	128803	10.068	ppbv	97
53) Toluene	6.933	91	428586	10.262	ppbv	97
54) 1,2-Dibromoethane	7.652	107	199250	10.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	181131	10.346	ppbv	99
57) Chlorobenzene	8.924	112	328409	10.225	ppbv	98
58) Ethyl Benzene	9.357	91	596825	10.462	ppbv	100
59) m/p-Xylene	9.552	91	977538m	21.533	ppbv	
60) o-Xylene	9.966	91	488769	10.710	ppbv	100
61) Styrene	9.872	104	226533	10.558	ppbv	99
62) Isopropylbenzene	10.542	105	733758	10.735	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	327069	10.882	ppbv	99
64) n-propylbenzene	10.992	120	192573	10.741	ppbv	97
65) tert-Butylbenzene	11.532	119	643195	10.340	ppbv	98
66) Benzyl Chloride	11.617	91	39375	8.295	ppbv	98
67) sec-Butylbenzene	11.769	105	940060	10.567	ppbv	100
69) p-Isopropyltoluene	11.927	119	759761	10.734	ppbv	100
70) n-Butylbenzene	12.283	91	795433	11.010	ppbv	99
71) 2-Chlorotoluene	10.901	91	553780	10.510	ppbv	99
72) 4-Ethyltoluene	11.128	105	592316	10.629	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	508702	10.524	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	557804	10.248	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	328061	10.473	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	328671	10.568	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	324906	10.688	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	232449	9.827	ppbv	99
79) Naphthalene	13.517	128	503470	13.490	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	184155	18.031	ppbv	97
81) 1,2,4-Trichlorobenzene	13.442	180	227832	10.954	ppbv	98

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

Manual Integration Report

Sequence:

vl022525

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042041.D	m/p-Xylene	MMDadoda	3/6/2025 1:12:13 AM	SAM	3/6/2025 1:24:10 AM	Peak Integrated by Software
VSTDICCC002	VL042042.D	m/p-Xylene	SAM	2/26/2025 7:41:55 AM	MMDadoda	2/26/2025 1:45:07 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,4-Dioxane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Benzyl Chloride	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Ethanol	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Heptane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	m/p-Xylene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC0.5	VL042044.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042044.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,2-Dichloropropane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,4-Dioxane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	2-Hexanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	Dibromochloromethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	m/p-Xylene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Carbon Tetrachloride	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042045.D	Tetrachloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Trichloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,1-Trichloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Carbon Tetrachloride	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Tetrachloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Trichloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC015	VL042047.D	m/p-Xylene	SAM	2/26/2025 7:42:16 AM	MMDadoda	2/26/2025 1:45:16 PM	Peak Integrated by Software
VSTDICV010	VL042048.D	m/p-Xylene	SAM	2/26/2025 7:42:09 AM	MMDadoda	2/26/2025 1:45:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL022625	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDC0010	VL042050.D	m/p-Xylene	SAM	2/27/2025 8:45:59 AM	MMDadoda	2/27/2025 12:12:55 PM	Peak Integrated by Software
VL0226ABS01	VL042054.D	m/p-Xylene	SAM	2/27/2025 8:46:05 AM	MMDadoda	2/27/2025 12:12:57 PM	Peak Integrated by Software
Q1430-05	VL042056.D	4-Methyl-2-Pentanone	SAM	2/27/2025 8:46:09 AM	MMDadoda	2/27/2025 12:13:00 PM	Peak Integrated by Software
Q1430-05	VL042056.D	Heptane	SAM	2/27/2025 8:46:09 AM	MMDadoda	2/27/2025 12:13:00 PM	Peak Integrated by Software
Q1430-05	VL042056.D	Tetrachloroethene	SAM	2/27/2025 8:46:09 AM	MMDadoda	2/27/2025 12:13:00 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	4-Methyl-2-Pentanone	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	Carbon Tetrachloride	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	Styrene	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	Tetrachloroethene	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1430-06	VL042058.D	Carbon Tetrachloride	SAM	2/27/2025 8:46:14 AM	MMDadoda	2/27/2025 12:13:03 PM	Peak Integrated by Software
Q1430-06	VL042058.D	Ethyl Benzene	SAM	2/27/2025 8:46:14 AM	MMDadoda	2/27/2025 12:13:03 PM	Peak Integrated by Software
Q1430-06	VL042058.D	Heptane	SAM	2/27/2025 8:46:14 AM	MMDadoda	2/27/2025 12:13:03 PM	Peak Integrated by Software
Q1430-06	VL042058.D	m/p-Xylene	SAM	2/27/2025 8:46:14 AM	MMDadoda	2/27/2025 12:13:03 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl022625

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1430-06	VL042058.D	Tetrachloroethene	SAM	2/27/2025 8:46:14 AM	MMDadoda	2/27/2025 12:13:03 PM	Peak Integrated by Software
VSTDCCC010	VL042064.D	1,4-Dioxane	SAM	2/27/2025 8:46:24 AM	MMDadoda	2/27/2025 12:13:13 PM	Peak Integrated by Software
VSTDCCC010	VL042064.D	m/p-Xylene	SAM	2/27/2025 8:46:24 AM	MMDadoda	2/27/2025 12:13:13 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL030325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDC0010	VL042075.D	m/p-Xylene	SAM	3/4/2025 1:45:28 PM	MMDadoda	3/5/2025 12:16:48 PM	Peak Integrated by Software
VL0303ABS01	VL042077.D	m/p-Xylene	SAM	3/4/2025 1:45:42 PM	MMDadoda	3/5/2025 12:16:46 PM	Peak Integrated by Software
Q1430-03	VL042079.D	2-Hexanone	SAM	3/4/2025 1:47:13 PM	MMDadoda	3/5/2025 12:16:43 PM	Peak Integrated by Software
Q1430-03	VL042079.D	Ethanol	SAM	3/4/2025 1:47:13 PM	MMDadoda	3/5/2025 12:16:43 PM	Peak Integrated by Software
Q1430-02	VL042081.D	2-Hexanone	SAM	3/4/2025 1:47:26 PM	MMDadoda	3/5/2025 12:16:34 PM	Peak Integrated by Software
Q1430-02	VL042081.D	4-Methyl-2-Pentanone	SAM	3/4/2025 1:47:26 PM	MMDadoda	3/5/2025 12:16:34 PM	Peak Integrated by Software
Q1430-02	VL042081.D	m/p-Xylene	SAM	3/4/2025 1:47:26 PM	MMDadoda	3/5/2025 12:16:34 PM	Peak Integrated by Software
Q1430-02	VL042081.D	Tetrachloroethene	SAM	3/4/2025 1:47:26 PM	MMDadoda	3/5/2025 12:16:34 PM	Peak Integrated by Software
Q1430-04	VL042083.D	2-Hexanone	SAM	3/4/2025 1:48:45 PM	MMDadoda	3/5/2025 12:16:26 PM	Peak Integrated by Software
Q1430-04	VL042083.D	4-Methyl-2-Pentanone	SAM	3/4/2025 1:48:45 PM	MMDadoda	3/5/2025 12:16:26 PM	Peak Integrated by Software
Q1430-04	VL042083.D	Benzene	SAM	3/4/2025 1:48:45 PM	MMDadoda	3/5/2025 12:16:26 PM	Peak Integrated by Software
Q1430-04	VL042083.D	Tetrachloroethene	SAM	3/4/2025 1:48:45 PM	MMDadoda	3/5/2025 12:16:26 PM	Peak Integrated by Software
Q1430-04	VL042083.D	Toluene	SAM	3/4/2025 1:48:45 PM	MMDadoda	3/5/2025 12:16:26 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL030325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1430-01	VL042085.D	2-Hexanone	SAM	3/4/2025 1:48:13 PM	MMDadoda	3/5/2025 12:15:02 PM	Peak Integrated by Software
Q1430-01	VL042085.D	4-Methyl-2-Pentanone	SAM	3/4/2025 1:48:13 PM	MMDadoda	3/5/2025 12:15:02 PM	Peak Integrated by Software
Q1430-01	VL042085.D	Benzene	SAM	3/4/2025 1:48:13 PM	MMDadoda	3/5/2025 12:15:02 PM	Peak Integrated by Software
Q1430-01	VL042085.D	m/p-Xylene	SAM	3/4/2025 1:48:13 PM	MMDadoda	3/5/2025 12:15:02 PM	Peak Integrated by Software
Q1430-01	VL042085.D	o-Xylene	SAM	3/4/2025 1:48:13 PM	MMDadoda	3/5/2025 12:15:02 PM	Peak Integrated by Software
Q1430-01	VL042085.D	Toluene	SAM	3/4/2025 1:48:13 PM	MMDadoda	3/5/2025 12:15:02 PM	Peak Integrated by Software
Q1430-01DUP	VL042087.D	2-Hexanone	SAM	3/4/2025 1:45:52 PM	MMDadoda	3/5/2025 12:14:58 PM	Peak Integrated by Software
Q1430-01DUP	VL042087.D	4-Methyl-2-Pentanone	SAM	3/4/2025 1:45:52 PM	MMDadoda	3/5/2025 12:14:58 PM	Peak Integrated by Software
Q1430-01DUP	VL042087.D	Benzene	SAM	3/4/2025 1:45:52 PM	MMDadoda	3/5/2025 12:14:58 PM	Peak Integrated by Software
Q1430-01DUP	VL042087.D	Dichlorodifluoromethane	SAM	3/4/2025 1:45:52 PM	MMDadoda	3/5/2025 12:14:58 PM	Peak Integrated by Software
Q1430-01DUP	VL042087.D	m/p-Xylene	SAM	3/4/2025 1:45:52 PM	MMDadoda	3/5/2025 12:14:58 PM	Peak Integrated by Software
VSTDCCC010	VL042093.D	m/p-Xylene	SAM	3/4/2025 4:06:54 PM	MMDadoda	3/5/2025 12:14:52 PM	Peak Integrated by Software
VSTDCCC010	VL042093.D	t-1,3-Dichloropropene	SAM	3/4/2025 4:06:54 PM	MMDadoda	3/5/2025 12:14:52 PM	Peak Integrated by Software



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

VL030325

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2576				
Initial Calibration Stds	AP2582,AP2584,AP2585				
CCC	AP2582				
Internal Standard/PEM	AP2576				
ICV/I.BLK	AP2586				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICCC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICCC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICCC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICCC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICCC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICCC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICCC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM		
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:13:24 PM		
SubDirectory	VL022625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2576				
Initial Calibration Stds	AP2582,AP2584,AP2585				
CCC	AP2582				
Internal Standard/PEM	AP2576				
ICV/I.BLK	AP2586				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042049.D	26 Feb 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042050.D	26 Feb 2025 08:38	SY/MD	Ok,M
3	VL0226ABL01	VL042051.D	26 Feb 2025 09:20	SY/MD	Ok
4	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04	SY/MD	Ok
5	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36	SY/MD	Ok
6	VL0226ABS01	VL042054.D	26 Feb 2025 11:07	SY/MD	Ok,M
7	Q1419-02	VL042055.D	26 Feb 2025 11:40	SY/MD	Ok,M
8	Q1430-05	VL042056.D	26 Feb 2025 12:14	SY/MD	Ok,M
9	Q1430-05DUP	VL042057.D	26 Feb 2025 12:48	SY/MD	Ok,M
10	Q1430-06	VL042058.D	26 Feb 2025 13:21	SY/MD	Ok,M
11	Q1430-06DL	VL042059.D	26 Feb 2025 13:52	SY/MD	Not Ok
12	Q1419-01	VL042060.D	26 Feb 2025 14:24	SY/MD	Dilution
13	Q1419-01DL	VL042061.D	26 Feb 2025 14:55	SY/MD	Not Ok
14	Q1419-01DL	VL042062.D	26 Feb 2025 15:27	SY/MD	Ok,M
15	Q1419-01DL2	VL042063.D	26 Feb 2025 15:58	SY/MD	Not Ok
16	VSTDCCC010	VL042064.D	26 Feb 2025 16:29	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL030325

Review By	Semsettin Yesilyurt	Review On	3/4/2025 4:05:35 PM
Supervise By	Maresh Dadoda	Supervise On	3/5/2025 12:17:04 PM
SubDirectory	VL030325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2587		
Initial Calibration Stds	AP2582,AP2584,AP2585		
CCC	AP2582		
Internal Standard/PEM	AP2587		
ICV/I.BLK	AP2586		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042074.D	03 Mar 2025 11:45	SY/MD	Ok
2	VSTDCCC010	VL042075.D	03 Mar 2025 12:15	SY/MD	Ok,M
3	VL0303ABL01	VL042076.D	03 Mar 2025 14:49	SY/MD	Ok
4	VL0303ABS01	VL042077.D	03 Mar 2025 15:19	SY/MD	Ok,M
5	QC022725 CAN 10331	VL042078.D	03 Mar 2025 15:52	SY/MD	Ok
6	Q1430-03	VL042079.D	03 Mar 2025 16:23	SY/MD	Ok,M
7	Q1430-03DL	VL042080.D	03 Mar 2025 16:53	SY/MD	Not Ok
8	Q1430-02	VL042081.D	03 Mar 2025 17:24	SY/MD	Ok,M
9	Q1430-02DL	VL042082.D	03 Mar 2025 17:55	SY/MD	Not Ok
10	Q1430-04	VL042083.D	03 Mar 2025 18:26	SY/MD	Ok,M
11	Q1430-04DL	VL042084.D	03 Mar 2025 18:57	SY/MD	Not Ok
12	Q1430-01	VL042085.D	03 Mar 2025 19:28	SY/MD	Ok,M
13	Q1430-01DL	VL042086.D	03 Mar 2025 19:59	SY/MD	Not Ok
14	Q1430-01DUP	VL042087.D	03 Mar 2025 20:29	SY/MD	Ok,M
15	VIBLK	VL042088.D	03 Mar 2025 21:00	SY/MD	Ok
16	QC022625 CAN 10682	VL042089.D	03 Mar 2025 21:31	SY/MD	Not Ok
17	QC022625 CAN 10746	VL042090.D	03 Mar 2025 22:02	SY/MD	Ok
18	VL0303ABS02	VL042091.D	03 Mar 2025 22:33	SY/MD	Not Ok
19	QC022625 CAN 10682	VL042092.D	04 Mar 2025 08:07	SY/MD	Ok
20	VSTDCCC010	VL042093.D	04 Mar 2025 09:04	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042040.D	25 Feb 2025 07:56		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042041.D	25 Feb 2025 08:56		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042042.D	25 Feb 2025 09:29		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042043.D	25 Feb 2025 10:00		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042047.D	25 Feb 2025 12:07		SY/MD	Ok,M
9	VSTDICV010	ICVVVL022525	VL042048.D	25 Feb 2025 13:15		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:13:24 PM
SubDirectory	VL022625	HP Acquire Method	TO15AIR.M HP Processing Method VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042049.D	26 Feb 2025 07:46		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042050.D	26 Feb 2025 08:38		SY/MD	Ok,M
3	VL0226ABL01	VL0226ABL01	VL042051.D	26 Feb 2025 09:20		SY/MD	Ok
4	QC021725 CAN 10271	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04		SY/MD	Ok
5	QC022525 CAN 10795	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36		SY/MD	Ok
6	VL0226ABS01	VL0226ABS01	VL042054.D	26 Feb 2025 11:07		SY/MD	Ok,M
7	Q1419-02	IA1	VL042055.D	26 Feb 2025 11:40		SY/MD	Ok,M
8	Q1430-05	IA1	VL042056.D	26 Feb 2025 12:14		SY/MD	Ok,M
9	Q1430-05DUP	IA1DUP	VL042057.D	26 Feb 2025 12:48		SY/MD	Ok,M
10	Q1430-06	OA1	VL042058.D	26 Feb 2025 13:21		SY/MD	Ok,M
11	Q1430-06DL	OA1DL	VL042059.D	26 Feb 2025 13:52	Not Required	SY/MD	Not Ok
12	Q1419-01	SV1	VL042060.D	26 Feb 2025 14:24	Need 40X	SY/MD	Dilution
13	Q1419-01DL	SV1DL	VL042061.D	26 Feb 2025 14:55	Need Further Dilution	SY/MD	Not Ok
14	Q1419-01DL	SV1DL	VL042062.D	26 Feb 2025 15:27		SY/MD	Ok,M
15	Q1419-01DL2	SV1DL2	VL042063.D	26 Feb 2025 15:58	Not Required	SY/MD	Not Ok
16	VSTDCCC010	VSTDCCC010EC	VL042064.D	26 Feb 2025 16:29		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL030325

Review By	Semsettin Yesilyurt	Review On	3/4/2025 4:05:35 PM
Supervise By	Mahesh Dadoda	Supervise On	3/5/2025 12:17:04 PM
SubDirectory	VL030325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2587
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2587
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042074.D	03 Mar 2025 11:45		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042075.D	03 Mar 2025 12:15		SY/MD	Ok,M
3	VL0303ABL01	VL0303ABL01	VL042076.D	03 Mar 2025 14:49		SY/MD	Ok
4	VL0303ABS01	VL0303ABS01	VL042077.D	03 Mar 2025 15:19		SY/MD	Ok,M
5	QC022725 CAN 10331	QC022725 CAN 10331	VL042078.D	03 Mar 2025 15:52		SY/MD	Ok
6	Q1430-03	SV3	VL042079.D	03 Mar 2025 16:23		SY/MD	Ok,M
7	Q1430-03DL	SV3DL	VL042080.D	03 Mar 2025 16:53	Not required	SY/MD	Not Ok
8	Q1430-02	SV2	VL042081.D	03 Mar 2025 17:24		SY/MD	Ok,M
9	Q1430-02DL	SV2DL	VL042082.D	03 Mar 2025 17:55	Not required	SY/MD	Not Ok
10	Q1430-04	SV4	VL042083.D	03 Mar 2025 18:26		SY/MD	Ok,M
11	Q1430-04DL	SV4DL	VL042084.D	03 Mar 2025 18:57	Not required	SY/MD	Not Ok
12	Q1430-01	SV1	VL042085.D	03 Mar 2025 19:28		SY/MD	Ok,M
13	Q1430-01DL	SV1DL	VL042086.D	03 Mar 2025 19:59	Not required	SY/MD	Not Ok
14	Q1430-01DUP	SV1DUP	VL042087.D	03 Mar 2025 20:29		SY/MD	Ok,M
15	VIBLK	VIBLK	VL042088.D	03 Mar 2025 21:00		SY/MD	Ok
16	QC022625 CAN 10682	QC022625 CAN 10682	VL042089.D	03 Mar 2025 21:31	rerun carryover	SY/MD	Not Ok
17	QC022625 CAN 10746	QC022625 CAN 10746	VL042090.D	03 Mar 2025 22:02		SY/MD	Ok
18	VL0303ABS02	VL0303ABS02	VL042091.D	03 Mar 2025 22:33	Not required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL030325

Review By	Semsettin Yesilyurt	Review On	3/4/2025 4:05:35 PM
Supervise By	Maresh Dadoda	Supervise On	3/5/2025 12:17:04 PM
SubDirectory	VL030325	HP Acquire Method	TO15AIR.M HP Processing Method VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2587
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2587
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	QC022625 CAN 10682	QC022625 CAN 10682	VL042092.D	04 Mar 2025 08:07		SY/MD	Ok
20	VSTDCCC010	VSTDCCC010EC	VL042093.D	04 Mar 2025 09:04		SY/MD	Ok,M

M : Manual Integration