

Cover Page

Order ID : Q2124

Project ID : Webster Ave Bronx, NY

Client : GFE LLC

Lab Sample Number

Q2124-01
Q2124-02
Q2124-03

Client Sample Number

SV1
SV2
SV3

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: 5/31/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2505033				Courier : FGALDUN				1 of 3 COCs																	
Client ID : GFEL01 Project ID : 12 Maplewood St, Malden MA				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: WEBSTER AVE BRONX, NY																									
Analysis Turnaround Time 5 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY																					
Rush (Specify): 5 Days				EDD Type : PDF																									
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	5/23/25	8:59	10:59	30	5	64	65	-30	-5.5	10525	10334	6 L	50	VL042399.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></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) [Signature]							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
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. REPORT ONLY THOSE VOCs ON ATTACHED LIST 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:																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sam				Date/Time: 5/23/25				Canisters Received by: cl				Date/Time: 5/23/25 10:00				B2505033 - 2													
Samples Relinquished by: FRANK				Date/Time: 5/23/25				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2505033				Courier : FGALDUN				<u>2</u> of <u>3</u> COCs			
Client ID : GFEL01				Project ID : 12 Maplewood St. Malden MA				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer : GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
Site Details: WEBSTER AVE BRONX, NY															
City : Lake Hiawatha				Analysis Turnaround Time : 5 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10 business days OR											
Zip Code : 07034				Rush (Specify): 5 Days				EDD Type : PDF							
Country :															

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
SJ2	5/23/25	9:54	11:41	30	4.5	65	65	-30	-6.7	10503	10439	6 L	50	VL042399.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.

REPORT ONLY THOSE VOCs ON ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: Sam	Date/Time: 05/23/25	Canisters Received by: CP	Date/Time: 5/23/25 10:00
Samples Relinquished by: FJ	Date/Time: 5/23/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Client Contact Information				Bottle Order ID : B2505033				Courier : F Galdun				<u>3</u> of <u>3</u> COCs					
Client ID : GFEL01 Project ID : 12 Maplewood St, Malden MA				Project Manager : FRANK GALDUN				Sampler Name(s) FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Phone Number : 646-542-3465				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified									
				Fax Number : 973-334-1692													
				Site Details: WEBSTER AVE BRONX, NY													
City : Lake Hiawatha																	
State : NJ				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY									
Zip Code : 07034				Standard : 10 business days OR													
Country :				Rush (Specify): <u>5</u> Days				EDD Type : PDF									
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
SN3	5/23/25	9:59	11:59	40	4	65	65	-30	-5.5	10579	10329	6 L	50	VL042399.D	1		1
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE VOCs ON ATTACHED LIST 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: <u> </u>																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Sam				Date/Time: 5/23/25				Canisters Received by: CR				Date/Time: 5/23/25 1005					
Samples Relinquished by: Sam				Date/Time: 5/23/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

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

NA66:

Title: Sample Custodian

Field Sample Seal No. Q2124

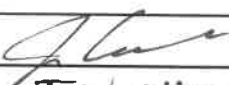
Date Broken 5/23/2025

Military Time Seal Broken: 10:00:00

Case No.: Webster Ave Bronx, NY

Analytical Parameter/Fraction OCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2124-01	SV1		
Q2124-02	SV2		
Q2124-03	SV3		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
5/23/25	12:40	Signature		Signature		AIR LAB
		Printed Name	Cassenara Rene	Printed Name	JOHN CARLON	
		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: Webster Ave Bronx, NY

Project # N/A

Order ID # Q2124

Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:

3 Air samples were received on 05/23/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

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 VOCMS Group2 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 {Q2124-01DUP} with File ID: VL042601.D met criteria except for Cyclohexane[200%], m/p-Xylene[200%] due to difference in results of original and DUP.

The Blank Spike met requirements for all samples.

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.

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

Sample SV1 was diluted due to high concentration.



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

E. Additional Comments:

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 #: Q2124

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: SOHIL JODHANI

Date: 05/31/2025

LAB CHRONICLE

OrderID: Q2124	OrderDate: 5/23/2025 11:49:12 AM
Client: GFE LLC	Project: Webster Ave Bronx, NY
Contact: Frank Galdun	Location: Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2124-01	SV1	Air	VOCMS Group2	TO-15	05/22/25		05/29/25	05/23/25
Q2124-01DL	SV1DL	Air	VOCMS Group2	TO-15	05/22/25		05/29/25	05/23/25
Q2124-02	SV2	Air	VOCMS Group2	TO-15	05/22/25		05/29/25	05/23/25
Q2124-03	SV3	Air	VOCMS Group2	TO-15	05/22/25		05/29/25	05/23/25

Hit Summary Sheet
SW-846

SDG No.: Q2124
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q2124-01	SV1	Air	Heptane	193		1.80	8.20	ug/m3
Q2124-01	SV1	Air	Trichloroethene	12.4		0.38	0.64	ug/m3
Q2124-01	SV1	Air	Toluene	7.16	J	1.66	7.54	ug/m3
Q2124-01	SV1	Air	Tetrachloroethene	19.7		0.41	0.81	ug/m3
Q2124-01	SV1	Air	1,2,4-Trimethylbenzene	2.90	J	1.52	9.83	ug/m3
Q2124-01	SV1	Air	Hexane	285	E	1.55	7.05	ug/m3
Total Voc :				520				
Total Concentration:				520				
Client ID:	SV1DL							
Q2124-01DL	SV1DL	Air	Heptane	204	D	9.02	41.0	ug/m3
Q2124-01DL	SV1DL	Air	Trichloroethene	11.8	D	1.83	3.22	ug/m3
Q2124-01DL	SV1DL	Air	Toluene	8.67	JD	8.29	37.7	ug/m3
Q2124-01DL	SV1DL	Air	Tetrachloroethene	21.0	D	2.03	4.07	ug/m3
Q2124-01DL	SV1DL	Air	Hexane	310	D	7.75	35.2	ug/m3
Total Voc :				556				
Total Concentration:				556				
Client ID:	SV2							
Q2124-02	SV2	Air	Heptane	4.92	J	1.80	8.20	ug/m3
Q2124-02	SV2	Air	Cyclohexane	3.03	J	3.03	6.88	ug/m3
Q2124-02	SV2	Air	Trichloroethene	3.33		0.38	0.64	ug/m3
Q2124-02	SV2	Air	Toluene	9.04		1.66	7.54	ug/m3
Q2124-02	SV2	Air	Tetrachloroethene	33.9		0.41	0.81	ug/m3
Q2124-02	SV2	Air	Ethyl Benzene	2.52	J	2.08	8.69	ug/m3
Q2124-02	SV2	Air	m/p-Xylene	6.08	J	3.65	17.4	ug/m3
Q2124-02	SV2	Air	o-Xylene	3.56	J	2.08	8.69	ug/m3
Q2124-02	SV2	Air	1,3,5-Trimethylbenzene	3.29	J	2.16	9.83	ug/m3
Q2124-02	SV2	Air	1,2,4-Trimethylbenzene	6.88	J	1.52	9.83	ug/m3
Q2124-02	SV2	Air	Naphthalene	2.20		1.57	2.10	ug/m3
Q2124-02	SV2	Air	Hexane	26.8		1.55	7.05	ug/m3
Total Voc :				106				
Total Concentration:				106				
Client ID:	SV3							
Q2124-03	SV3	Air	Heptane	10.7		1.80	8.20	ug/m3
Q2124-03	SV3	Air	Toluene	22.6		1.66	7.54	ug/m3
Q2124-03	SV3	Air	Tetrachloroethene	61.7		0.41	0.81	ug/m3
Q2124-03	SV3	Air	Ethyl Benzene	12.2		2.08	8.69	ug/m3
Q2124-03	SV3	Air	m/p-Xylene	27.8		3.65	17.4	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q2124

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2124-03	SV3	Air	o-Xylene	13.9		2.08	8.69	ug/m3
Q2124-03	SV3	Air	1,2,4-Trimethylbenzene	18.2		1.52	9.83	ug/m3
Q2124-03	SV3	Air	Hexane	60.3		1.55	7.05	ug/m3
Total Voc :				227				
Total Concentration:				227				



QC SUMMARY

Surrogate Summary

SDG No.: Q2124

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2124-01	SV1	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
Q2124-01DL	SV1DL	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
Q2124-01DUP	SV1DUP	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q2124-02	SV2	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
Q2124-03	SV3	1-Bromo-4-Fluorobenzene	10	9.89	99	65	135
VL0529ABL02	VL0529ABL02	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
VL0529ABS01	VL0529ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2124

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042591.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0529ABS01	Vinyl Chloride	10	8.20	ppbv	82			70	130	
	Heptane	10	8.70	ppbv	87			70	130	
	1,1-Dichloroethene	10	9.30	ppbv	93			70	130	
	Cyclohexane	10	8.90	ppbv	89			70	130	
	cis-1,2-Dichloroethene	10	8.90	ppbv	89			70	130	
	1,1,1-Trichloroethane	10	8.80	ppbv	88			70	130	
	2,2,4-Trimethylpentane	10	9.10	ppbv	91			70	130	
	Benzene	10	9.10	ppbv	91			70	130	
	Trichloroethene	10	9.00	ppbv	90			70	130	
	Toluene	10	9.00	ppbv	90			70	130	
	Tetrachloroethene	10	8.70	ppbv	87			70	130	
	Ethyl Benzene	10	9.30	ppbv	93			70	130	
	m/p-Xylene	20	18.5	ppbv	93			70	130	
	o-Xylene	10	9.30	ppbv	93			70	130	
	1,3,5-Trimethylbenzene	10	9.10	ppbv	91			70	130	
	1,2,4-Trimethylbenzene	10	9.00	ppbv	90			70	130	
	Naphthalene	10	9.60	ppbv	96			70	130	
	Hexane	10	8.60	ppbv	86			70	130	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SV1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2124

SAS No.: Q2124 SDG NO.: Q2124

Lab File ID: VL042601.D

Lab Sample ID: Q2124-01DUP

Date Analyzed: 05/29/2025

Time Analyzed: 23:58

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
SV1DUP	Q2124-01DUP	VL042601.D	05/29/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0529ABL02

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2124

SAS No.: Q2124 SDG NO.: Q2124

Lab File ID: VL042588.D

Lab Sample ID: VL0529ABL02

Date Analyzed: 05/29/2025

Time Analyzed: 16:50

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
SV1	Q2124-01	VL042589.D	05/29/2025
SV1DL	Q2124-01DL	VL042590.D	05/29/2025
VL0529ABS01	VL0529ABS01	VL042591.D	05/29/2025
SV2	Q2124-02	VL042592.D	05/29/2025
SV3	Q2124-03	VL042594.D	05/29/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2124 SAS No.: Q2124 SDG NO.: Q2124
Lab File ID: VL042578.D BFB Injection Date: 05/29/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:05
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	22.4
75	30.0 - 66.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	5.2 (7.7) 1
176	93.0 - 101.0% of mass 174	63.6 (94.6) 1
177	5.0 - 9.0% of mass 176	4 (6.3) 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	VL042579.D	05/29/2025	11:09
VSTDICCC002	VSTDICCC002	VL042580.D	05/29/2025	11:43
VSTDICCC001	VSTDICCC001	VL042581.D	05/29/2025	12:15
VSTDICCC0.5	VSTDICCC0.5	VL042582.D	05/29/2025	12:47
VSTDICCC0.1	VSTDICCC0.1	VL042583.D	05/29/2025	13:19
VSTDICCC0.03	VSTDICCC0.03	VL042584.D	05/29/2025	13:51
VSTDICCC015	VSTDICCC015	VL042585.D	05/29/2025	14:24
VL0529ABL02	VL0529ABL02	VL042588.D	05/29/2025	16:50
SV1	Q2124-01	VL042589.D	05/29/2025	17:22
SV1DL	Q2124-01DL	VL042590.D	05/29/2025	17:55
VL0529ABS01	VL0529ABS01	VL042591.D	05/29/2025	18:27
SV2	Q2124-02	VL042592.D	05/29/2025	19:00
SV3	Q2124-03	VL042594.D	05/29/2025	20:05
SV1DUP	Q2124-01DUP	VL042601.D	05/29/2025	23:58

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q2124 SAS No.: Q2124 SDG NO.: Q2124
 Lab File ID: VL042579.D Date Analyzed: 05/29/2025
 Instrument ID: MSVOA_L Time Analyzed: 11:09
 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	102792	2.79	307854	3.96	285844	8.89
UPPER LIMIT	143909	3.12	430996	4.29	400182	9.22
LOWER LIMIT	61675.2	2.46	184712	3.63	171506	8.56
EPA SAMPLE NO.						
SV1	113312	2.80	323127	3.98	284597	8.90
SV1DL	109658	2.80	314559	3.98	278591	8.89
SV1DUP	107163	2.80	298921	3.98	268034	8.90
SV2	109253	2.80	313676	3.97	279800	8.89
SV3	109883	2.80	315583	3.97	284413	8.89
VL0529ABL02	102651	2.80	295997	3.97	264969	8.89
VL0529ABS01	106381	2.80	304509	3.97	271830	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.



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	05/22/25
Project:	Webster Ave Bronx, NY	Date Received:	05/23/25
Client Sample ID:	SV1	SDG No.:	Q2124
Lab Sample ID:	Q2124-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042589.D	4		05/29/25 17:22	VL052925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
142-82-5	Heptane	47.0	193		1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	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
79-01-6	Trichloroethene	2.30	12.4		0.38	0.64	ug/m3
108-88-3	Toluene	1.90	7.16	J	1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	2.90	19.7		0.41	0.81	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
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	0.59	2.90	J	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	80.9	285	E	1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	113000		2.8			
540-36-3	1,4-Difluorobenzene	323000		3.978			
3114-55-4	Chlorobenzene-d5	285000		8.895			

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\VL052925\
 Data File : VL042589.D
 Acq On : 29 May 2025 17:22
 Operator : SY/MD
 Sample : Q2124-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: May 30 02:10:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

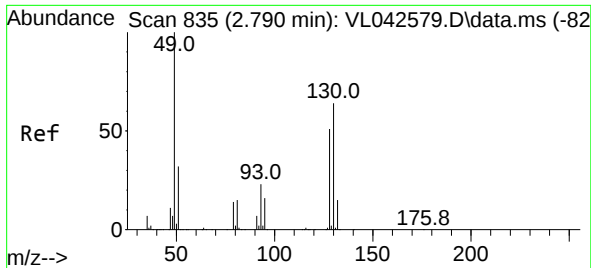
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	113312	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	323127	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.895	117	284597	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	215736	10.112	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1709	0.123	ppbv	89
3) Chlorodifluoromethane	1.473	51	3610m	0.188	ppbv	
9) Propene	1.489	41	117157m	15.168	ppbv	
10) Heptane	5.004	43	255645	11.742	ppbv	99
13) Ethanol	1.729	45	6446	7.003	ppbv #	39
20) Methylene Chloride	2.075	84	2032	0.451	ppbv #	62
26) Hexane	2.839	57	343378	20.232	ppbv #	40
29) Chloroform	2.865	83	26841	1.216	ppbv	96
30) Cyclohexane	3.878	84	2500m	0.178	ppbv	
34) 2-Butanone	2.573	43	14099	0.612	ppbv	98
38) Trichloroethene	4.570	130	7677	0.568	ppbv	94
52) Tetrachloroethene	8.241	164	8503	0.715	ppbv	94
53) Toluene	6.956	91	17436	0.474	ppbv	94
59) m/p-Xylene	9.548	91	4611m	0.121	ppbv	
74) 1,2,4-Trimethylbenzene	11.549	105	6380	0.147	ppbv #	72

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

Quant Time: May 30 02:10:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.800 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042589.D

Acq: 29 May 2025 17:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

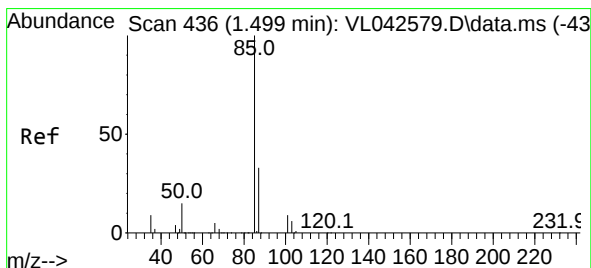
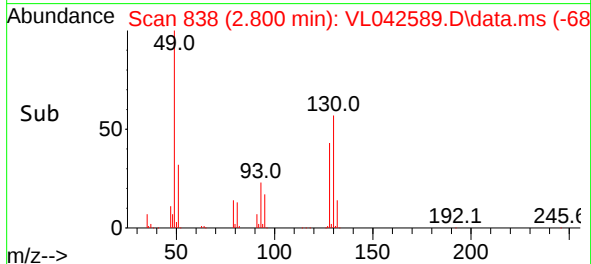
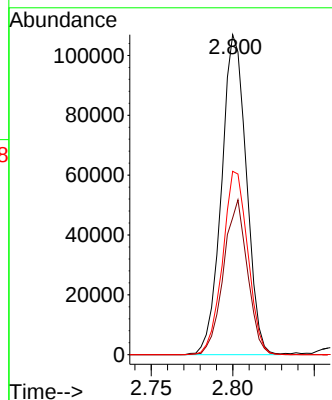
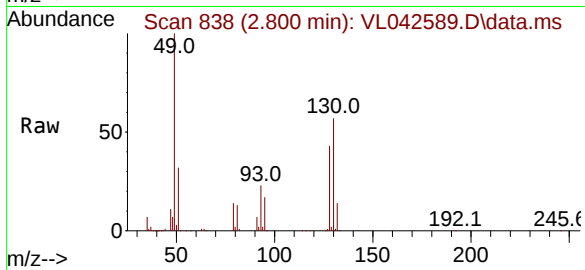
Tgt Ion: 49 Resp: 113312

Ion Ratio Lower Upper

49 100

128 46.6 24.2 72.6

130 58.0 30.4 91.2



#2

Dichlorodifluoromethane

Concen: 0.123 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.000 min

Lab File: VL042589.D

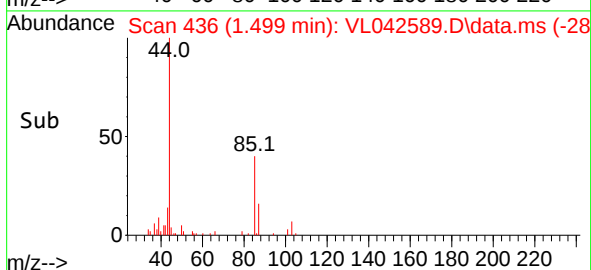
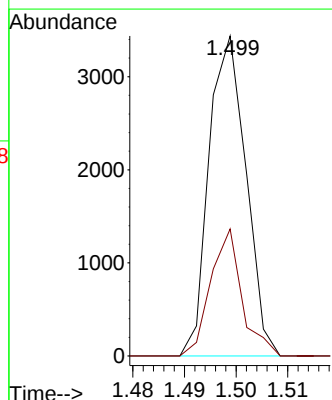
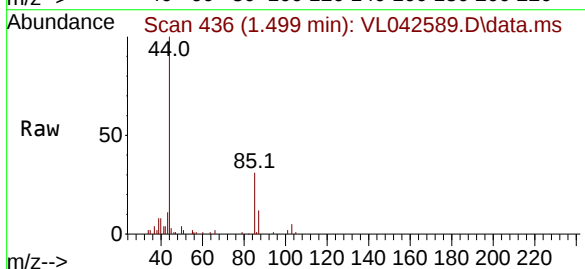
Acq: 29 May 2025 17:22

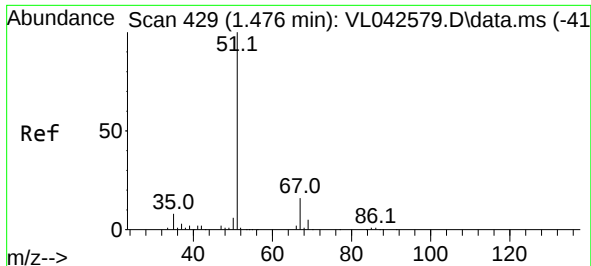
Tgt Ion: 85 Resp: 1709

Ion Ratio Lower Upper

85 100

87 39.7 26.6 39.8

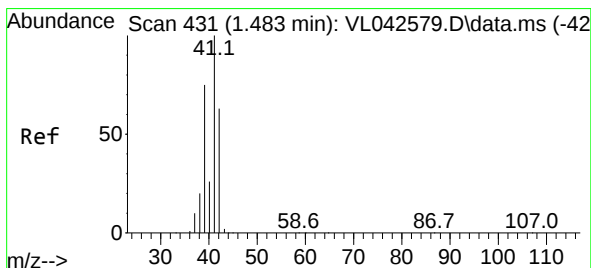
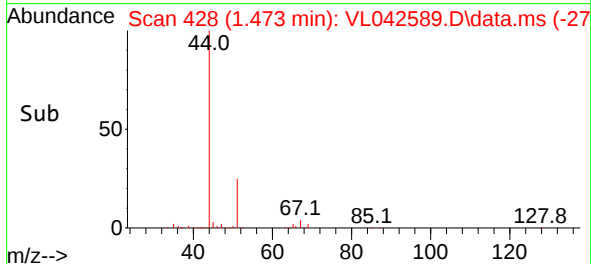
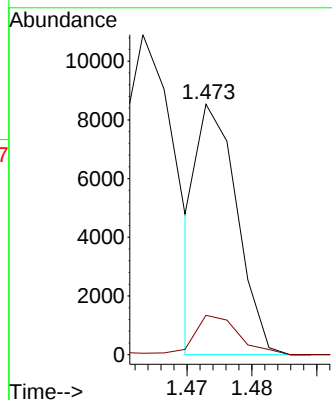
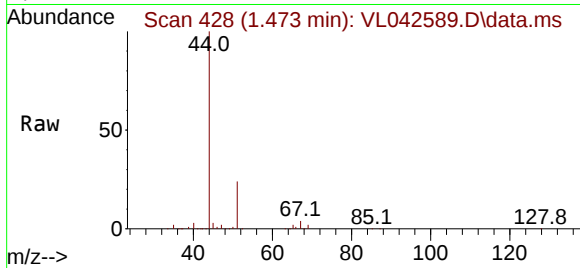




#3
Chlorodifluoromethane
Concen: 0.188 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042589.D
Acq: 29 May 2025 17:22

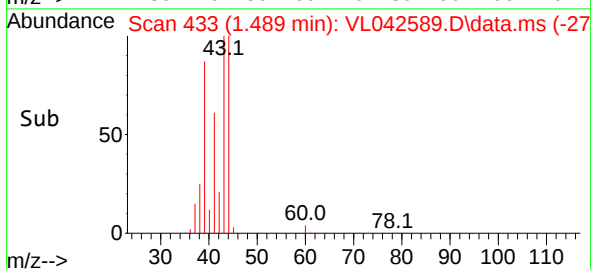
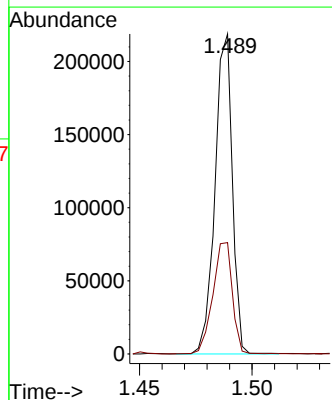
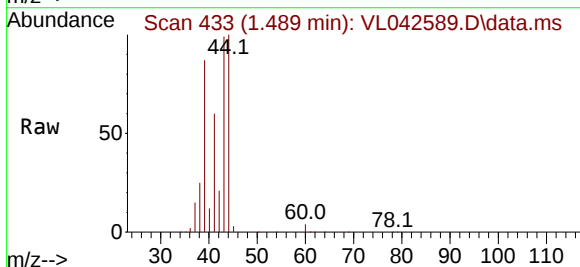
Instrument :
MSVOA_L
ClientSampleId :
SV1

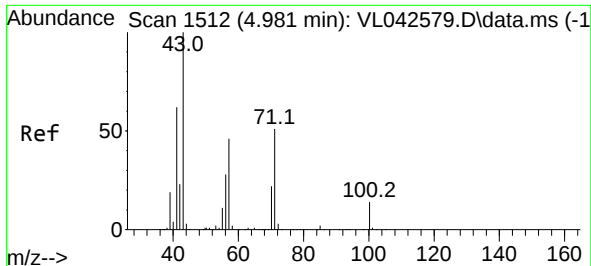
Tgt Ion: 51 Resp: 3610
Ion Ratio Lower Upper
51 100
67 18.3 13.4 20.2



#9
Propene
Concen: 15.168 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042589.D
Acq: 29 May 2025 17:22

Tgt Ion: 41 Resp: 117157
Ion Ratio Lower Upper
41 100
42 21.9 53.3 79.9#

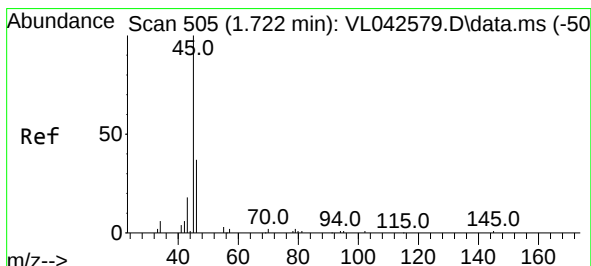
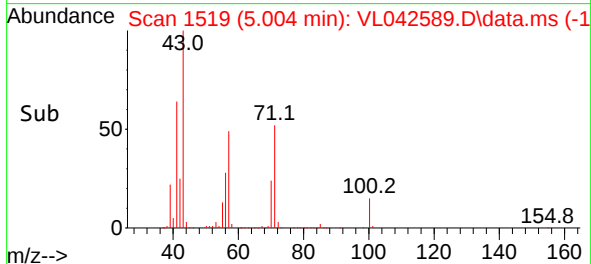
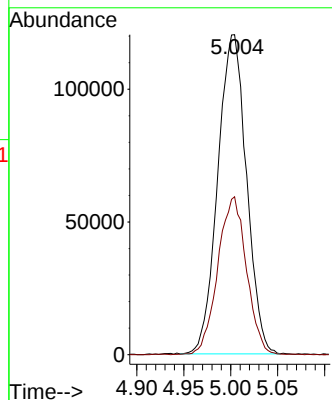
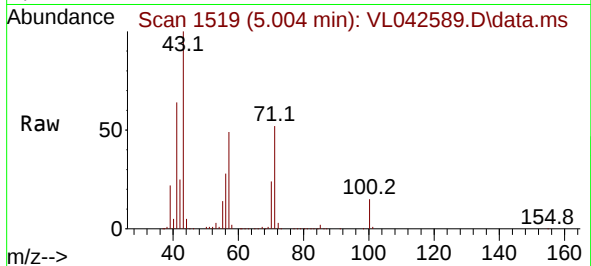




#10
 Heptane
 Concen: 11.742 ppbv
 RT: 5.004 min Scan# 11
 Delta R.T. 0.023 min
 Lab File: VL042589.D
 Acq: 29 May 2025 17:22

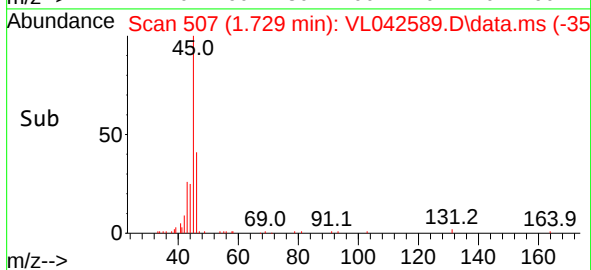
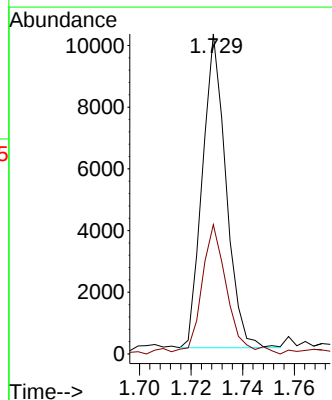
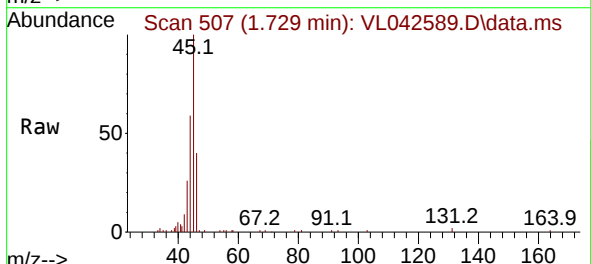
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

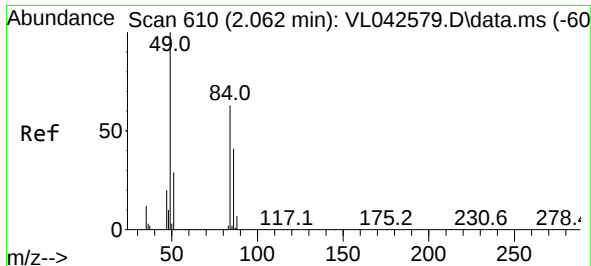
Tgt Ion: 43 Resp: 255645
 Ion Ratio Lower Upper
 43 100
 57 49.5 38.9 58.3



#13
 Ethanol
 Concen: 7.003 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.006 min
 Lab File: VL042589.D
 Acq: 29 May 2025 17:22

Tgt Ion: 45 Resp: 6446
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.5 58.1#

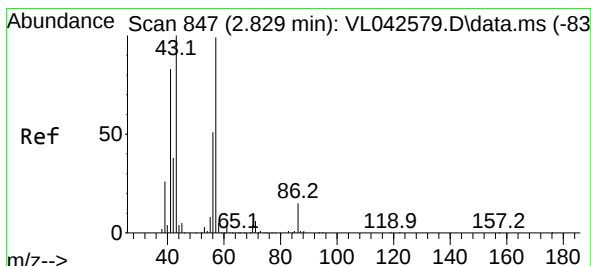
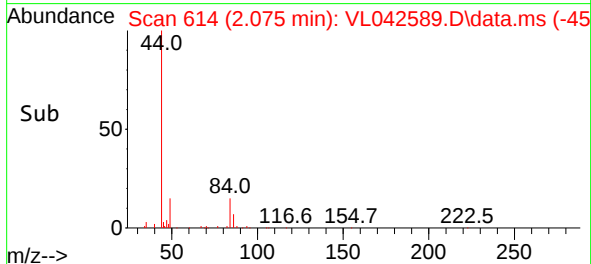
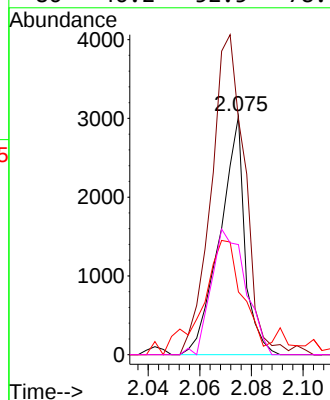
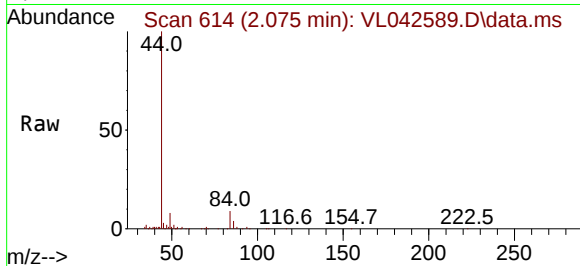




#20
Methylene Chloride
Concen: 0.451 ppbv
RT: 2.075 min Scan# 610
Delta R.T. 0.013 min
Lab File: VL042589.D
Acq: 29 May 2025 17:22

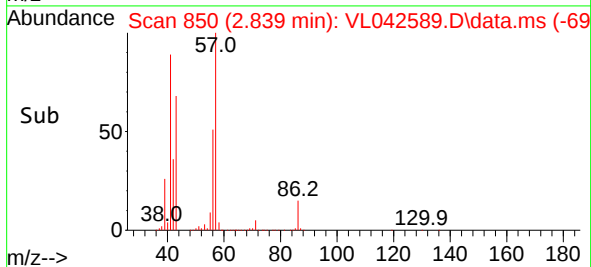
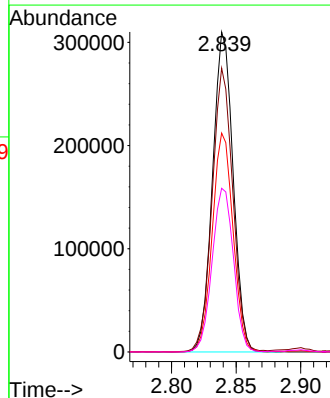
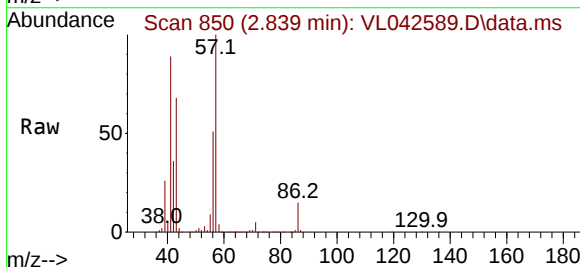
Instrument :
MSVOA_L
ClientSampleId :
SV1

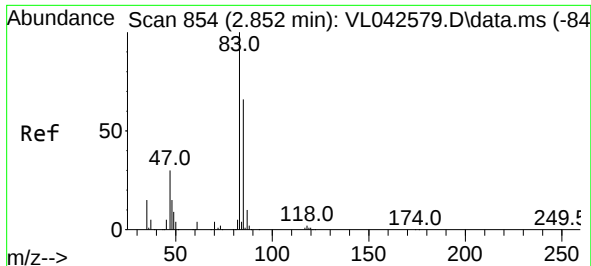
Tgt Ion: 84	Resp: 2032
Ion Ratio	Lower Upper
84 100	
49 105.7	128.8 193.2#
51 18.5	38.6 57.8#
86 46.2	52.5 78.7#



#26
Hexane
Concen: 20.232 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.010 min
Lab File: VL042589.D
Acq: 29 May 2025 17:22

Tgt Ion: 57	Resp: 343378
Ion Ratio	Lower Upper
57 100	
41 89.6	70.6 106.0
43 69.2	181.1 271.7#
56 53.3	42.2 63.4





#29

Chloroform

Concen: 1.216 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042589.D

Acq: 29 May 2025 17:22

Instrument :

MSVOA_L

ClientSampleId :

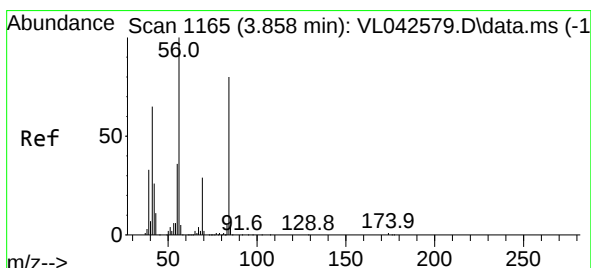
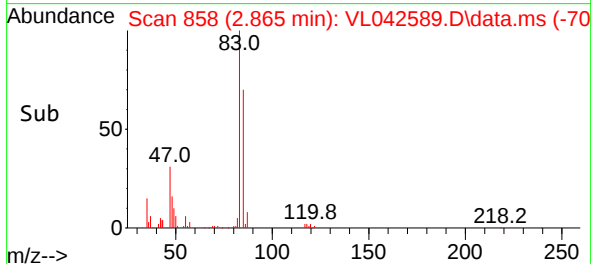
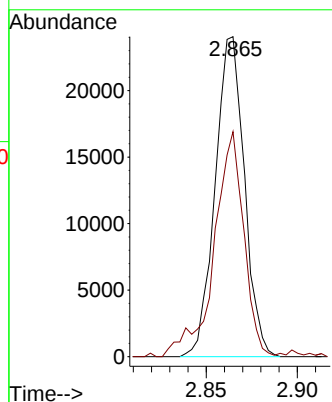
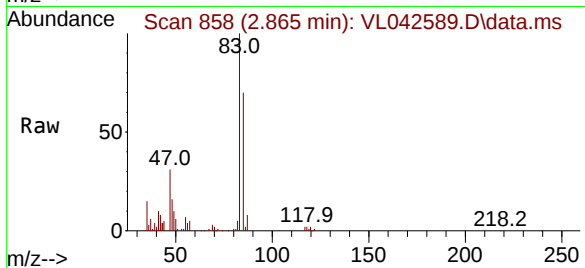
SV1

Tgt Ion: 83 Resp: 26841

Ion Ratio Lower Upper

83 100

85 69.3 52.8 79.2



#30

Cyclohexane

Concen: 0.178 ppbv m

RT: 3.878 min Scan# 1171

Delta R.T. 0.019 min

Lab File: VL042589.D

Acq: 29 May 2025 17:22

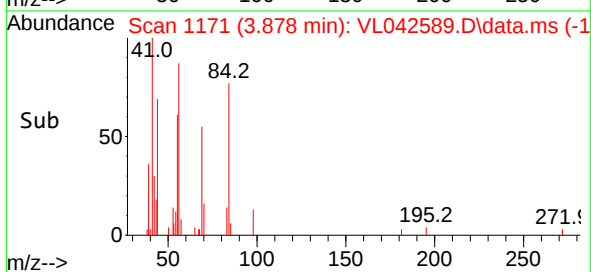
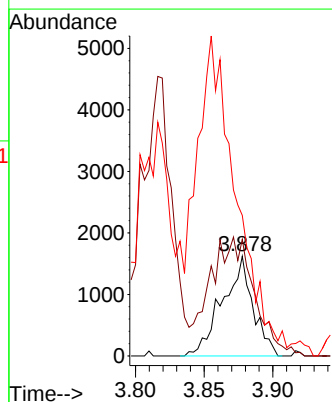
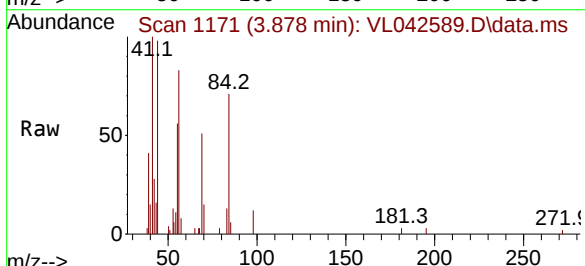
Tgt Ion: 84 Resp: 2500

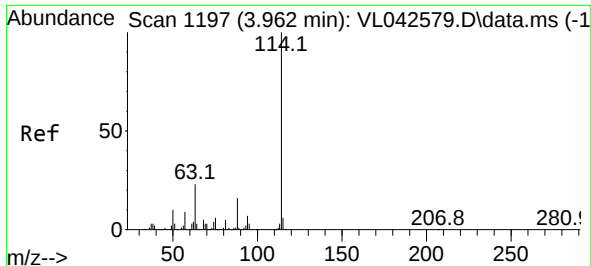
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

41 0.0 65.1 97.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1197

Delta R.T. 0.016 min

Lab File: VL042589.D

Acq: 29 May 2025 17:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

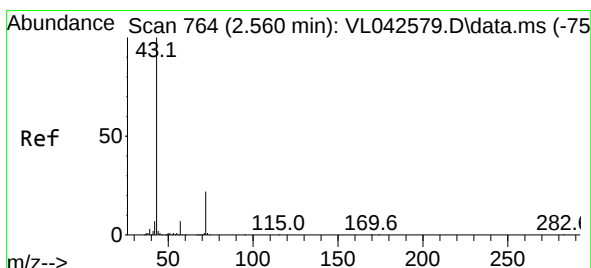
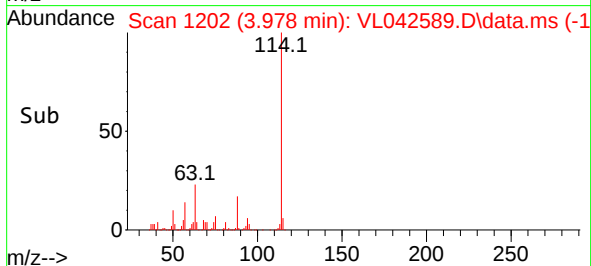
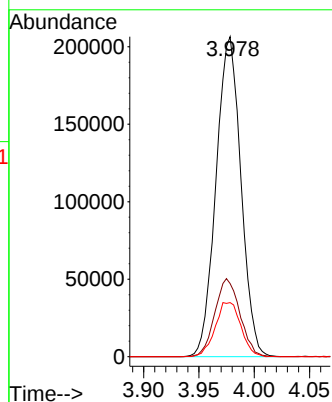
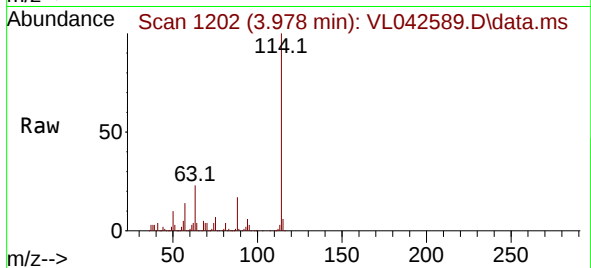
Tgt Ion:114 Resp: 323127

Ion Ratio Lower Upper

114 100

63 24.6 19.0 28.6

88 17.5 13.6 20.4



#34

2-Butanone

Concen: 0.612 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.013 min

Lab File: VL042589.D

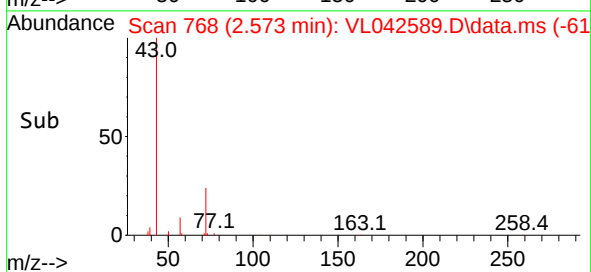
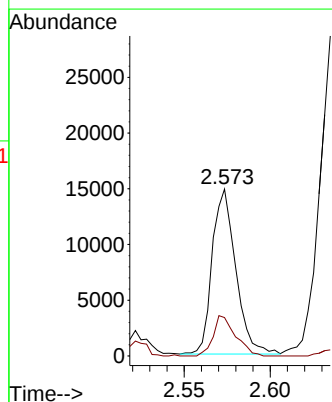
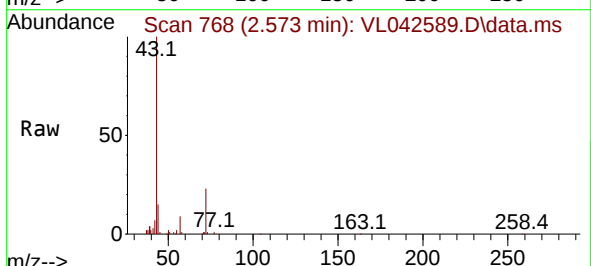
Acq: 29 May 2025 17:22

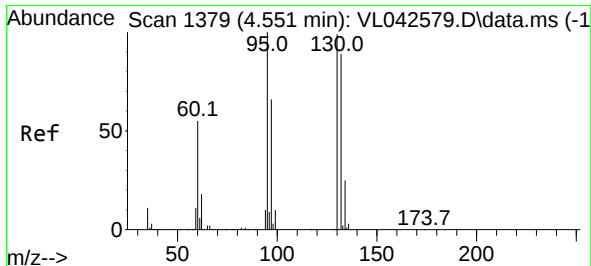
Tgt Ion: 43 Resp: 14099

Ion Ratio Lower Upper

43 100

72 23.1 17.7 26.5

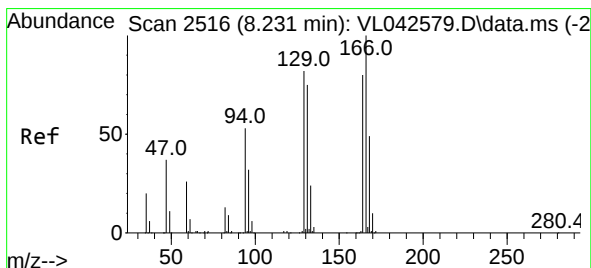
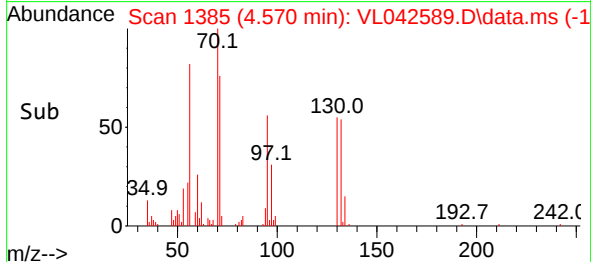
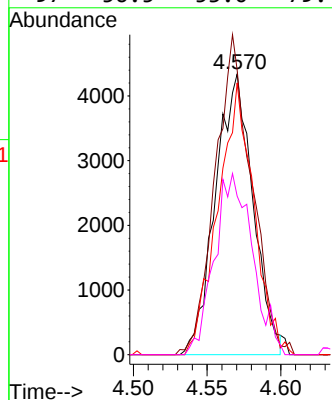
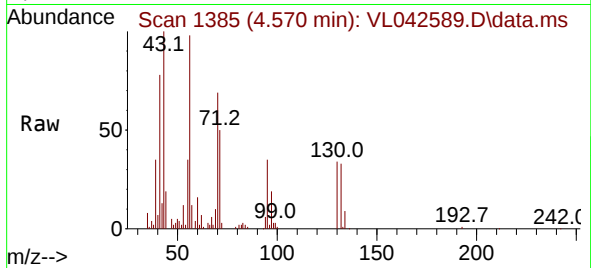




#38
 Trichloroethene
 Concen: 0.568 ppbv
 RT: 4.570 min Scan# 1385
 Delta R.T. 0.019 min
 Lab File: VL042589.D
 Acq: 29 May 2025 17:22

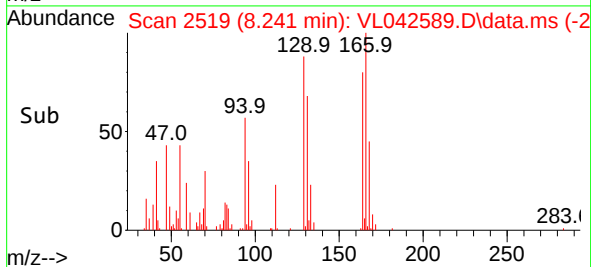
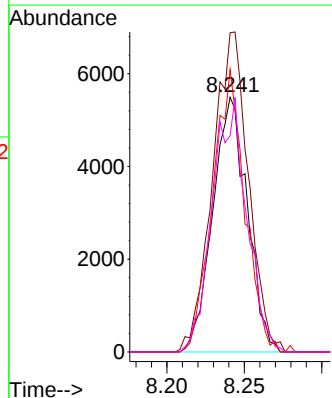
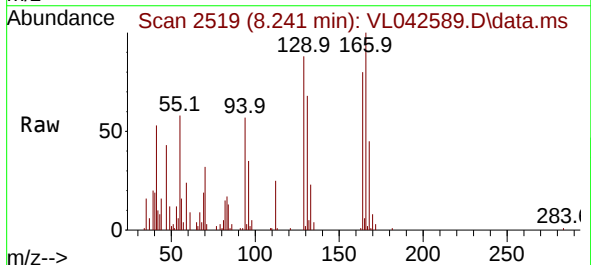
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

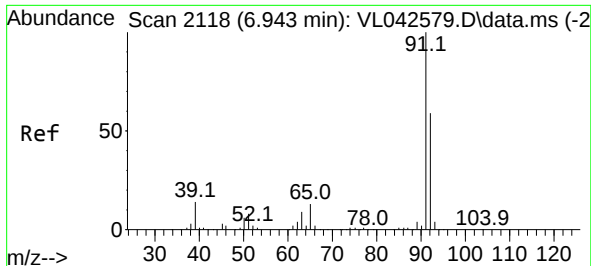
Tgt Ion:130 Resp: 7677
 Ion Ratio Lower Upper
 130 100
 95 99.6 80.6 121.0
 132 96.9 71.8 107.6
 97 56.5 53.0 79.4



#52
 Tetrachloroethene
 Concen: 0.715 ppbv
 RT: 8.241 min Scan# 2519
 Delta R.T. 0.010 min
 Lab File: VL042589.D
 Acq: 29 May 2025 17:22

Tgt Ion:164 Resp: 8503
 Ion Ratio Lower Upper
 164 100
 166 124.3 100.0 150.0
 129 110.8 82.2 123.4
 131 84.9 75.2 112.8

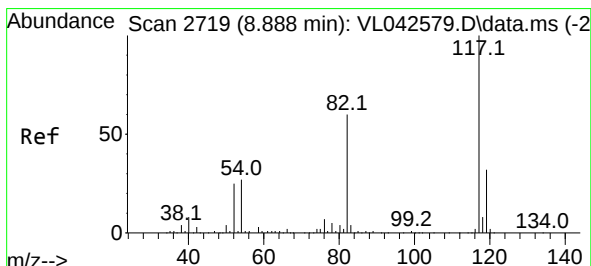
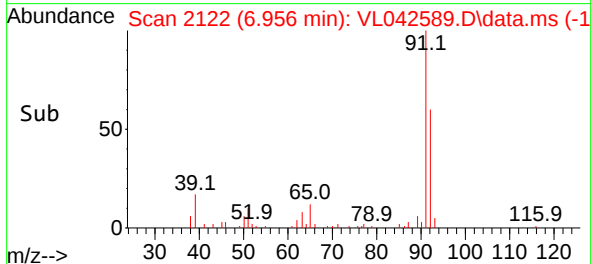
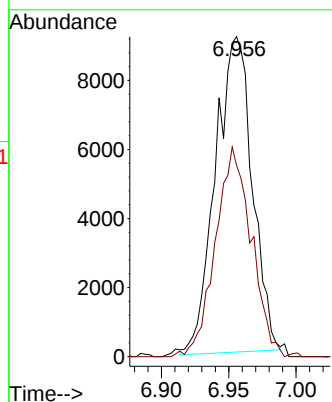
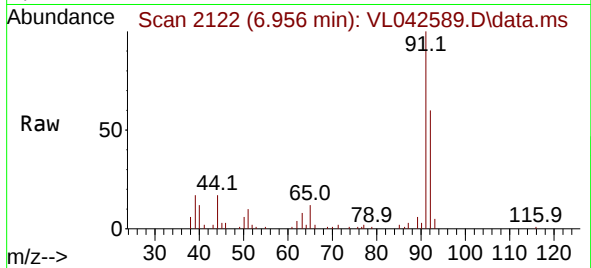




#53
Toluene
Concen: 0.474 ppbv
RT: 6.956 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042589.D
Acq: 29 May 2025 17:22

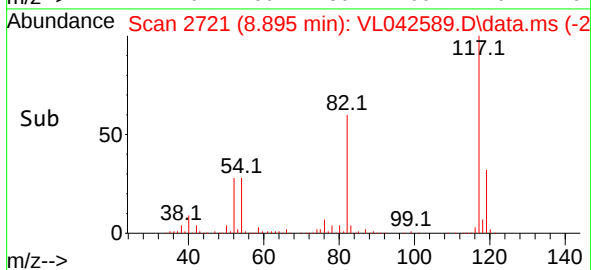
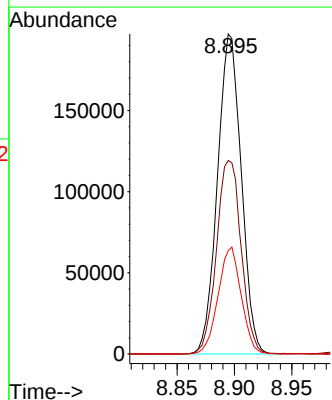
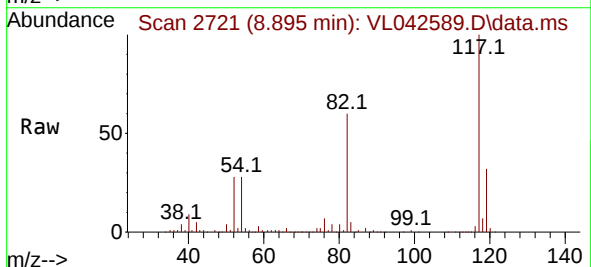
Instrument :
MSVOA_1
ClientSampleId :
SV1

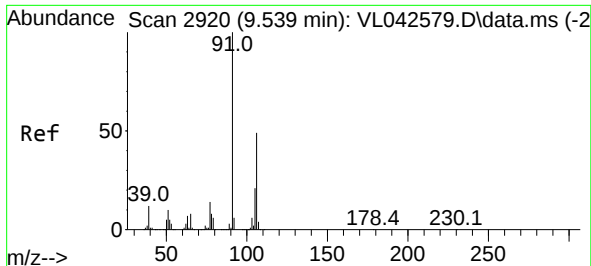
Tgt Ion: 91 Resp: 17436
Ion Ratio Lower Upper
91 100
92 64.7 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.006 min
Lab File: VL042589.D
Acq: 29 May 2025 17:22

Tgt Ion: 117 Resp: 284597
Ion Ratio Lower Upper
117 100
82 62.6 51.2 76.8
119 32.5 26.3 39.5





#59

m/p-Xylene

Concen: 0.121 ppbv m

RT: 9.548 min Scan# 2920

Delta R.T. 0.010 min

Lab File: VL042589.D

Acq: 29 May 2025 17:22

Instrument :

MSVOA_L

ClientSampleId :

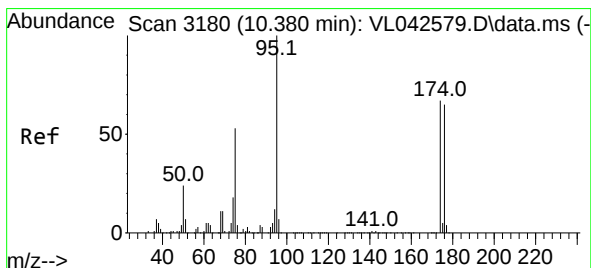
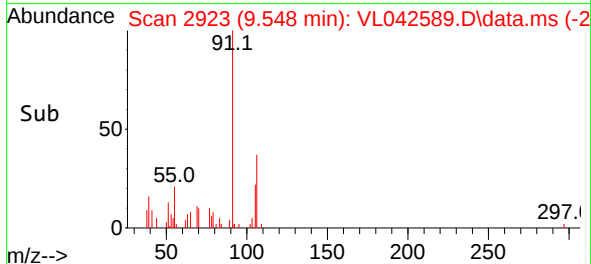
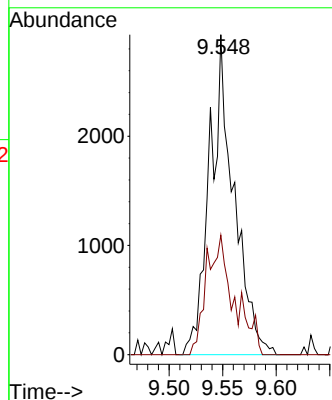
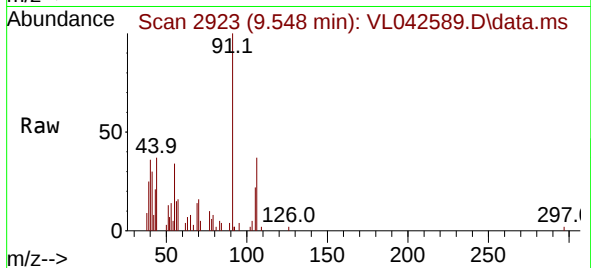
SV1

Tgt Ion: 91 Resp: 4611

Ion Ratio Lower Upper

91 100

106 42.6 38.8 58.2



#68

1-Bromo-4-Fluorobenzene

Concen: 10.112 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. 0.006 min

Lab File: VL042589.D

Acq: 29 May 2025 17:22

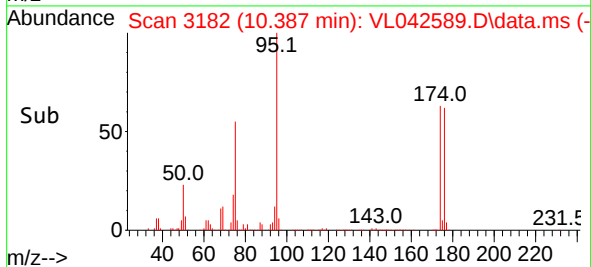
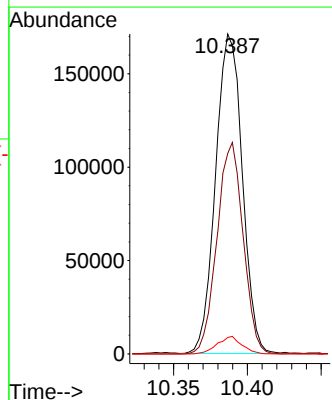
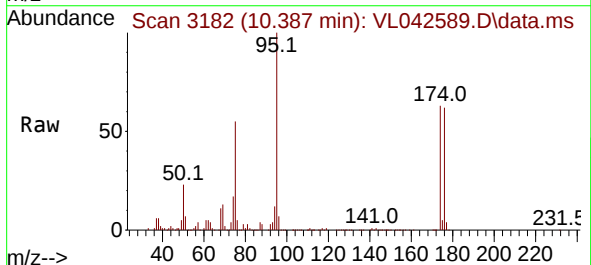
Tgt Ion: 95 Resp: 215736

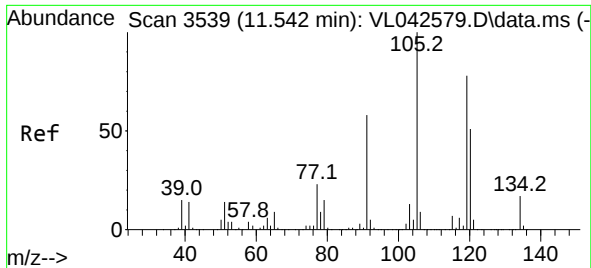
Ion Ratio Lower Upper

95 100

174 64.7 53.1 79.7

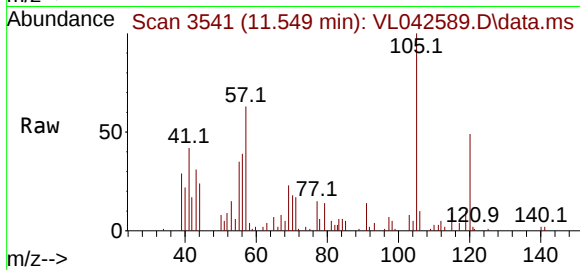
175 5.1 4.2 6.2



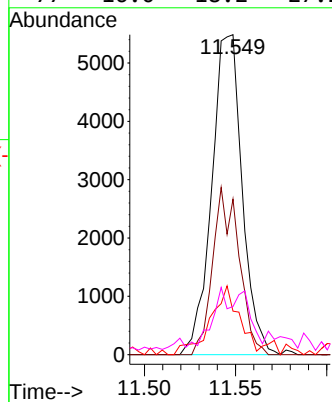
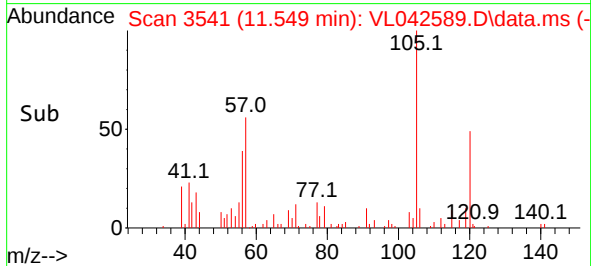


#74
 1,2,4-Trimethylbenzene
 Concen: 0.147 ppbv
 RT: 11.549 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL042589.D
 Acq: 29 May 2025 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	6380
Ion	Ratio	Lower	Upper
105	100		
120	50.9	40.8	61.2
91	15.9	46.8	70.2#
77	16.0	18.2	27.2#



Report of Analysis

Client:	GFE LLC	Date Collected:	05/22/25
Project:	Webster Ave Bronx, NY	Date Received:	05/23/25
Client Sample ID:	SV1DL	SDG No.:	Q2124
Lab Sample ID:	Q2124-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042590.D	20		05/29/25 17:55	VL052925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
142-82-5	Heptane	49.8	204	D	9.02	41.0	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.00	9.34	UD	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
79-01-6	Trichloroethene	2.20	11.8	D	1.83	3.22	ug/m3
108-88-3	Toluene	2.30	8.67	JD	8.29	37.7	ug/m3
127-18-4	Tetrachloroethene	3.10	21.0	D	2.03	4.07	ug/m3
100-41-4	Ethyl Benzene	2.40	10.4	UD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	4.20	18.2	UD	18.2	86.9	ug/m3
95-47-6	o-Xylene	2.40	10.4	UD	10.4	43.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.20	10.8	UD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.60	7.87	UD	7.87	49.2	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
110-54-3	Hexane	88.1	310	D	7.75	35.2	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	110000		2.8			
540-36-3	1,4-Difluorobenzene	315000		3.975			
3114-55-4	Chlorobenzene-d5	279000		8.891			

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\VL052925\
 Data File : VL042590.D
 Acq On : 29 May 2025 17:55
 Operator : SY/MD
 Sample : Q2124-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: May 30 02:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

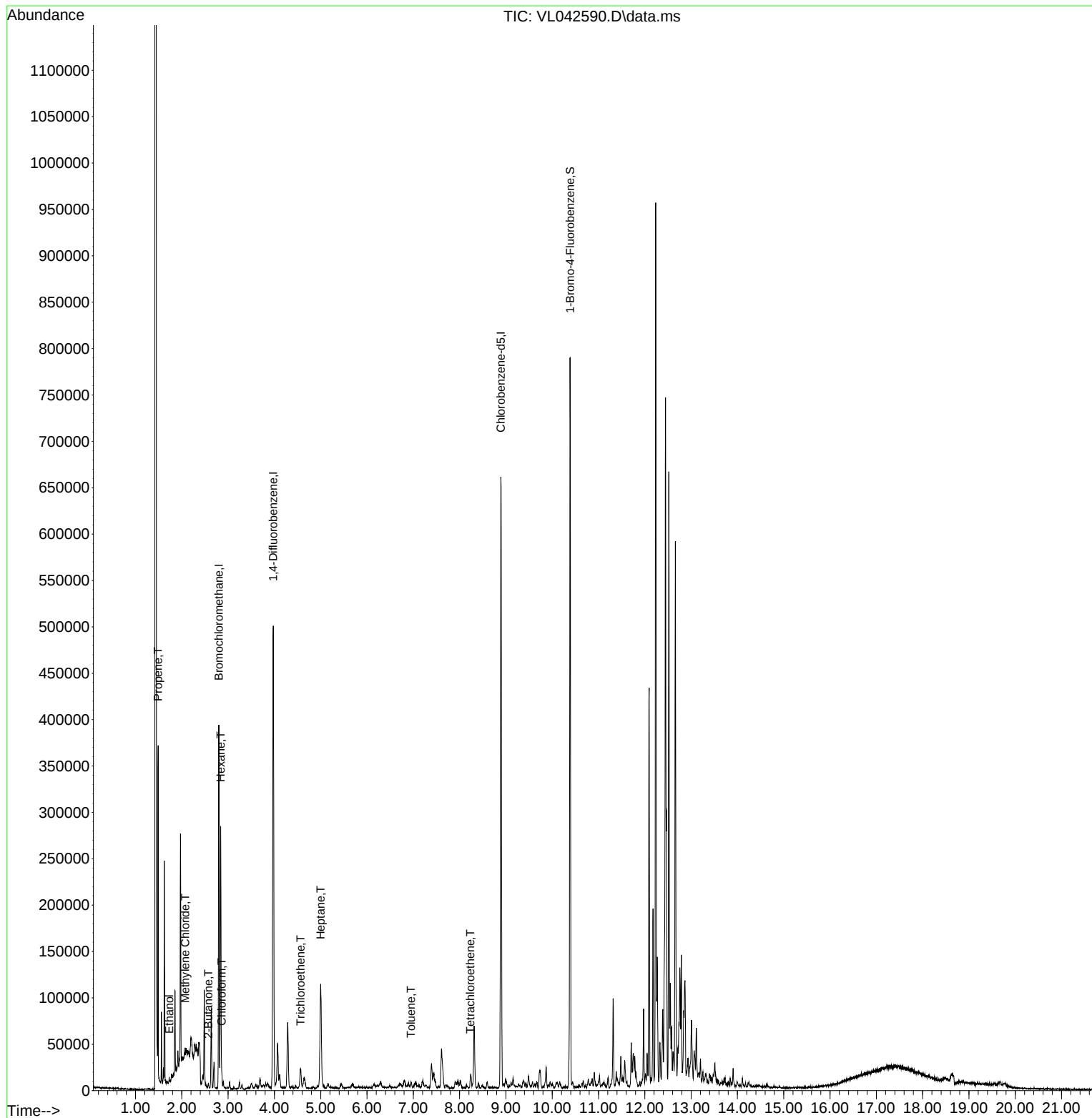
Internal Standards							
1) Bromochloromethane		2.800	49	109658	10.000	ppbv	0.01
33) 1,4-Difluorobenzene		3.975	114	314559	10.000	ppbv	0.01
55) Chlorobenzene-d5		8.891	117	278591	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.387	95	209427	10.028	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 100.300%	
Target Compounds							
							Qvalue
9) Propene		1.489	41	25753	3.445	ppbv	# 67
10) Heptane		4.998	43	52482	2.491	ppbv	98
13) Ethanol		1.729	45	2004m	2.250	ppbv	
20) Methylene Chloride		2.072	84	1221	0.280	ppbv	94
26) Hexane		2.839	57	72379	4.407	ppbv	# 41
29) Chloroform		2.862	83	5962	0.279	ppbv	100
34) 2-Butanone		2.573	43	3661	0.163	ppbv	98
38) Trichloroethene		4.564	130	1476m	0.112	ppbv	
52) Tetrachloroethene		8.231	164	1823m	0.157	ppbv	
53) Toluene		6.949	91	4045m	0.113	ppbv	

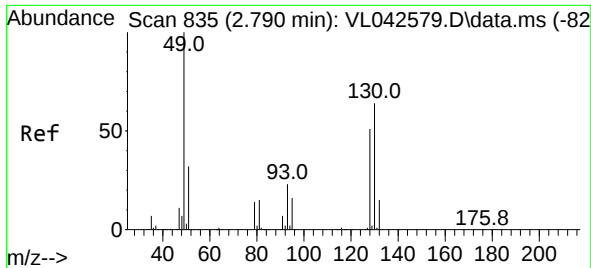
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042590.D
Acq On : 29 May 2025 17:55
Operator : SY/MD
Sample : Q2124-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: May 30 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

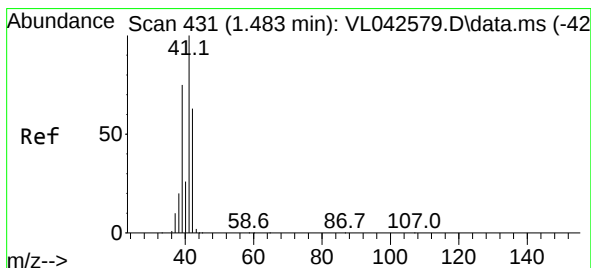
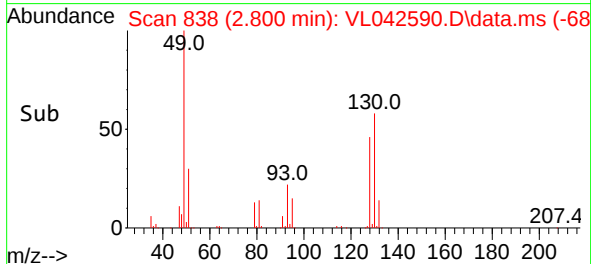
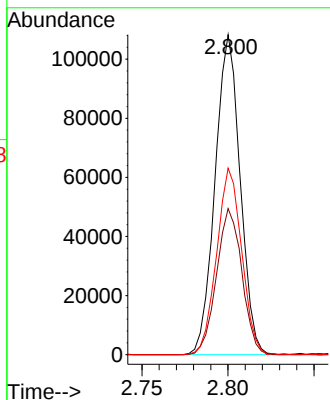
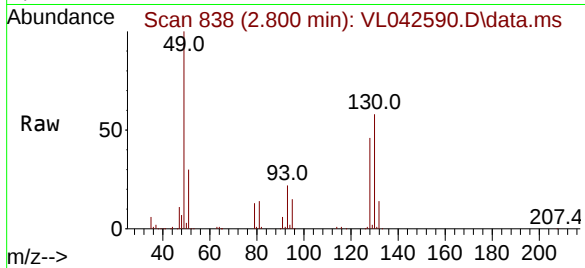




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

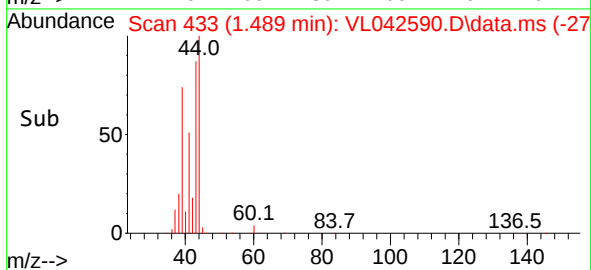
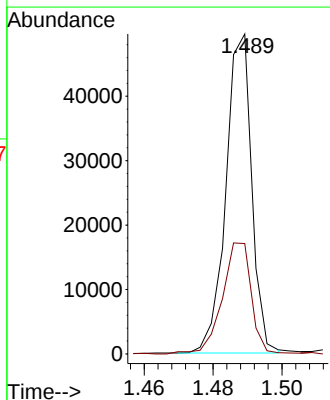
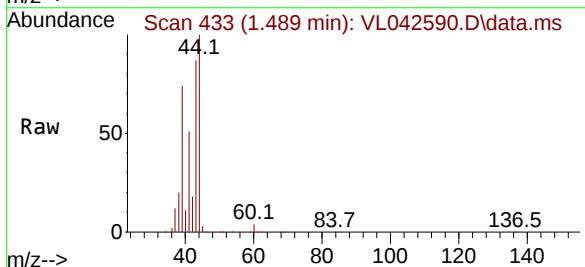
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

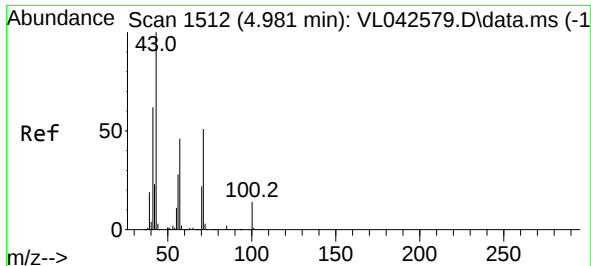
Tgt Ion: 49 Resp: 109658
Ion Ratio Lower Upper
49 100
128 46.1 24.2 72.6
130 58.2 30.4 91.2



#9
Propene
Concen: 3.445 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

Tgt Ion: 41 Resp: 25753
Ion Ratio Lower Upper
41 100
42 40.4 53.3 79.9#

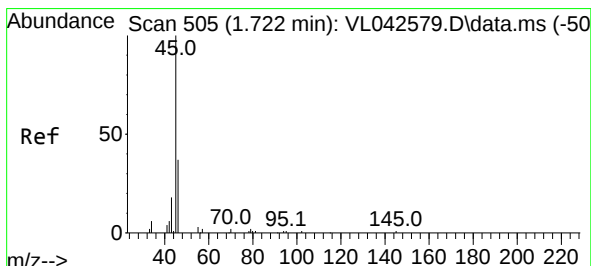
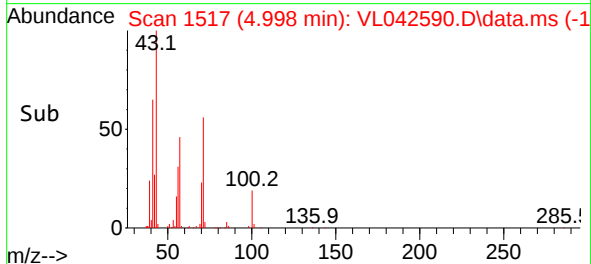
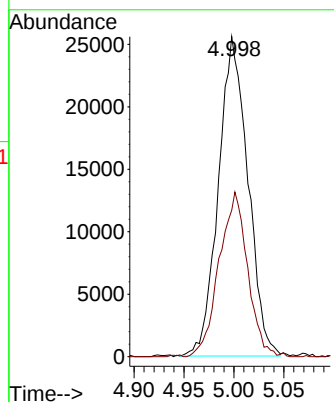
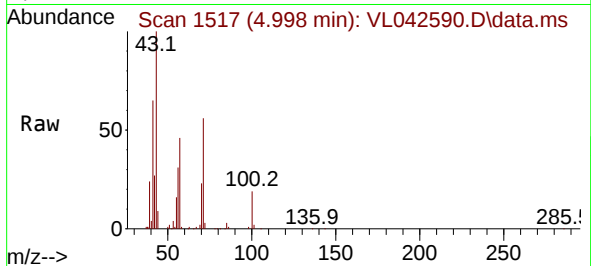




#10
 Heptane
 Concen: 2.491 ppbv
 RT: 4.998 min Scan# 11
 Delta R.T. 0.016 min
 Lab File: VL042590.D
 Acq: 29 May 2025 17:55

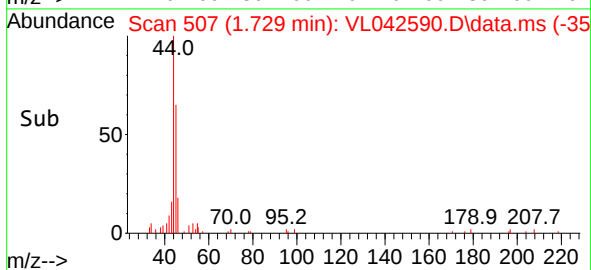
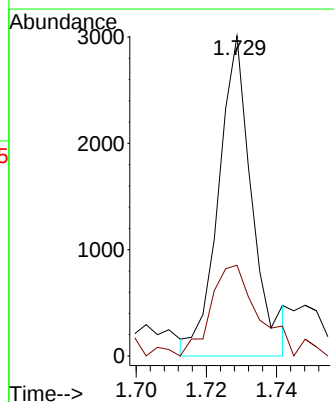
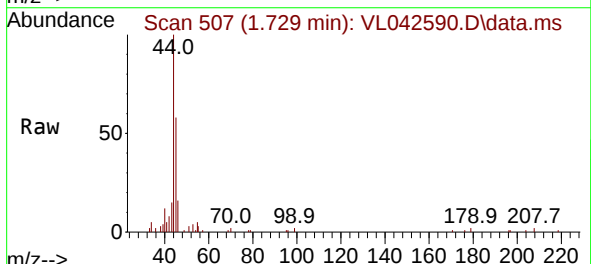
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

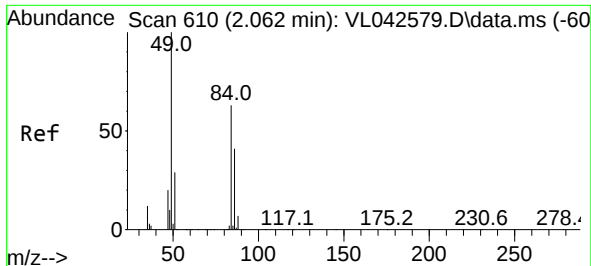
Tgt Ion: 43 Resp: 52482
 Ion Ratio Lower Upper
 43 100
 57 50.0 38.9 58.3



#13
 Ethanol
 Concen: 2.250 ppbv m
 RT: 1.729 min Scan# 507
 Delta R.T. 0.007 min
 Lab File: VL042590.D
 Acq: 29 May 2025 17:55

Tgt Ion: 45 Resp: 2004
 Ion Ratio Lower Upper
 45 100
 46 11595.6 14.5 58.1#

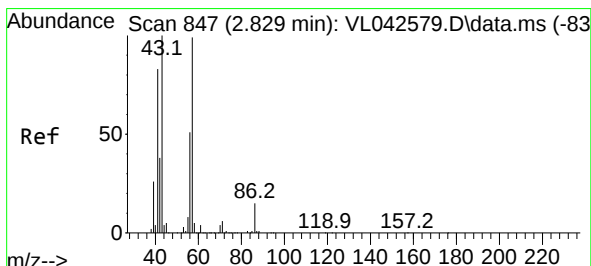
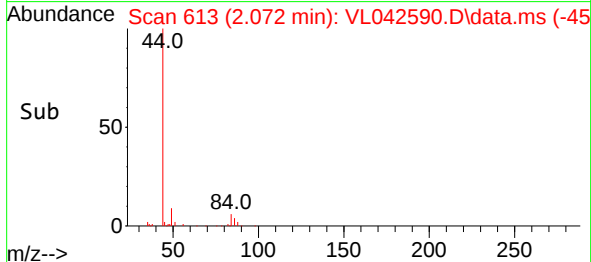
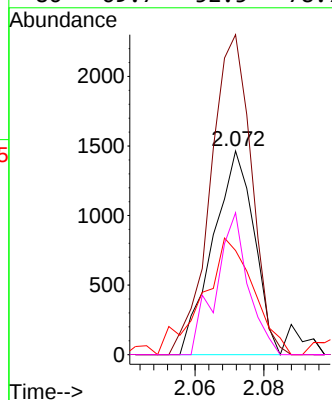
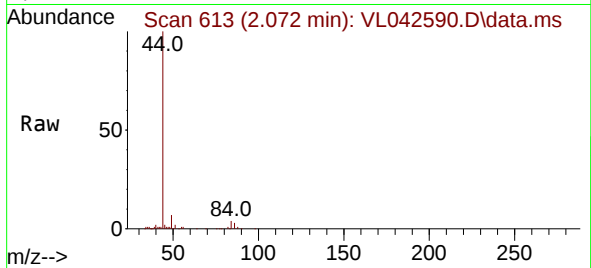




#20
Methylene Chloride
Concen: 0.280 ppbv
RT: 2.072 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

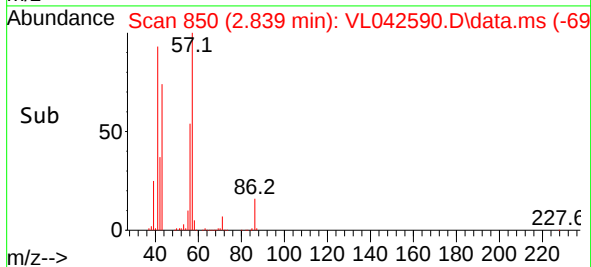
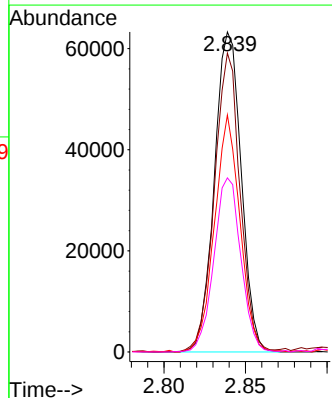
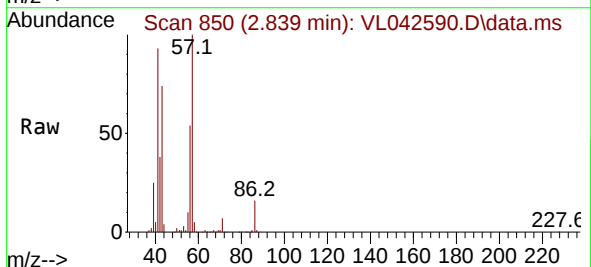
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

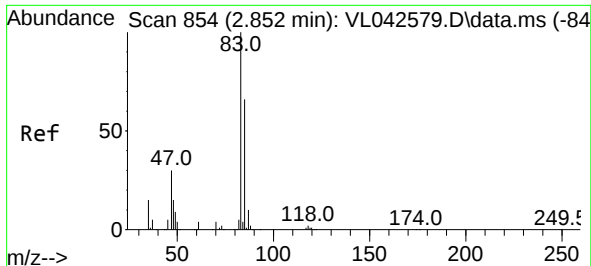
Tgt Ion:	84	Resp:	1221
Ion	Ratio	Lower	Upper
84	100		
49	153.4	128.8	193.2
51	42.9	38.6	57.8
86	69.7	52.5	78.7



#26
Hexane
Concen: 4.407 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.010 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

Tgt Ion:	57	Resp:	72379
Ion	Ratio	Lower	Upper
57	100		
41	90.0	70.6	106.0
43	71.0	181.1	271.7#
56	55.0	42.2	63.4





#29

Chloroform

Concen: 0.279 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042590.D

Acq: 29 May 2025 17:55

Instrument :

MSVOA_L

ClientSampleId :

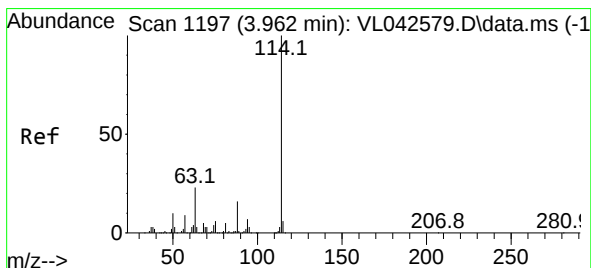
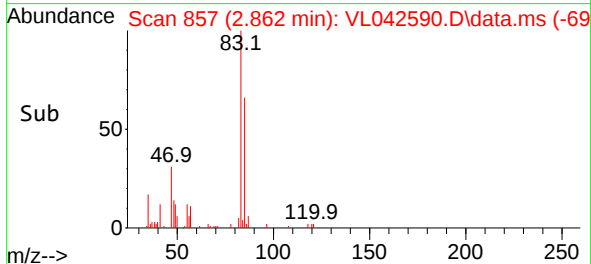
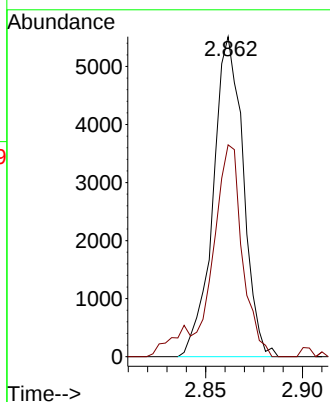
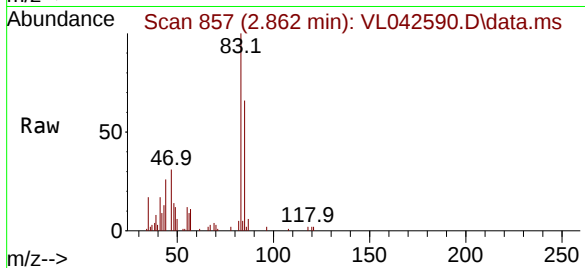
SV1DL

Tgt Ion: 83 Resp: 5962

Ion Ratio Lower Upper

83 100

85 66.2 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. 0.013 min

Lab File: VL042590.D

Acq: 29 May 2025 17:55

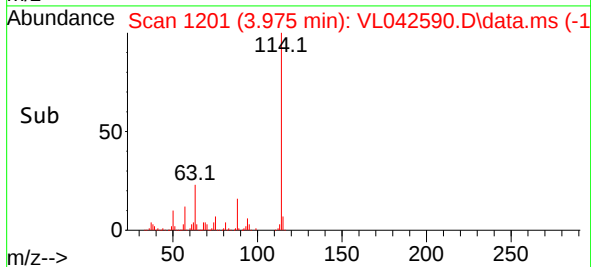
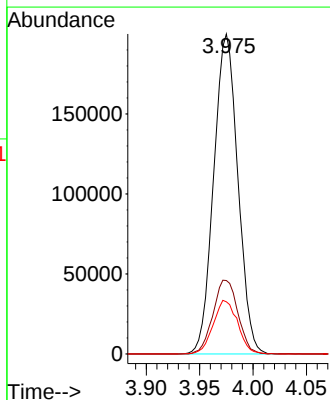
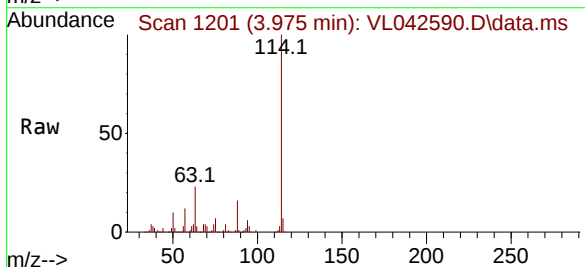
Tgt Ion: 114 Resp: 314559

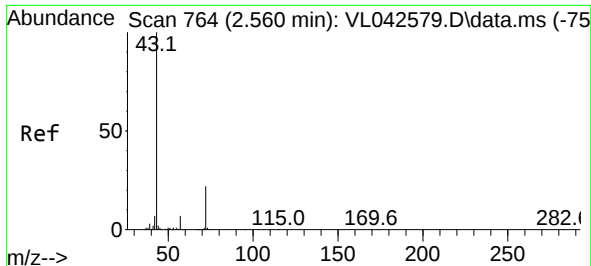
Ion Ratio Lower Upper

114 100

63 23.8 19.0 28.6

88 17.0 13.6 20.4

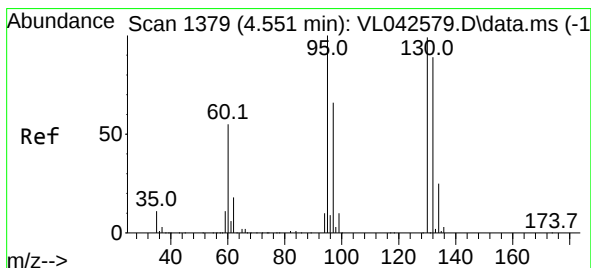
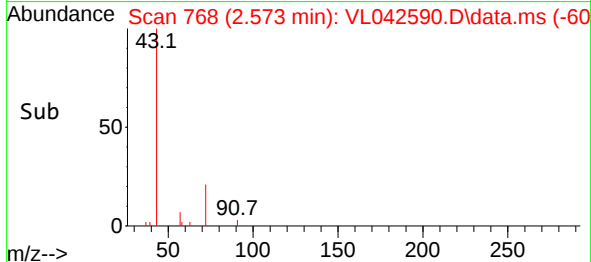
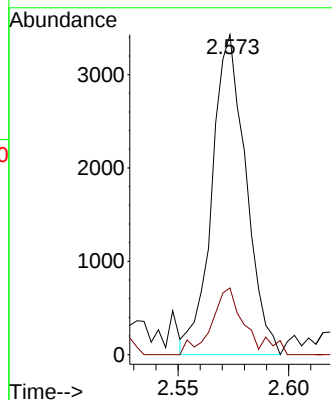
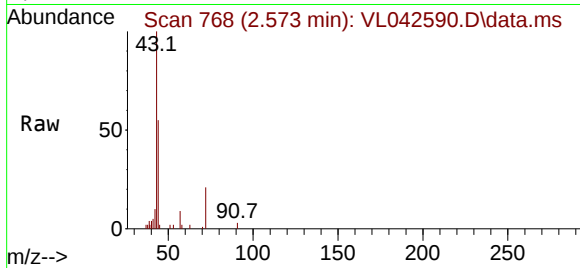




#34
2-Butanone
Concen: 0.163 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

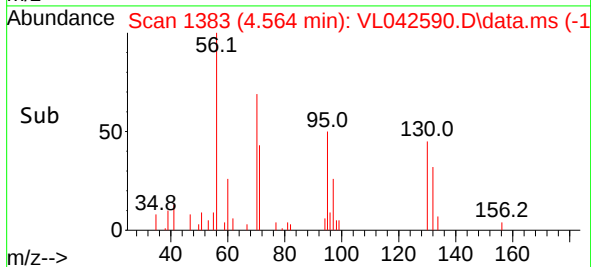
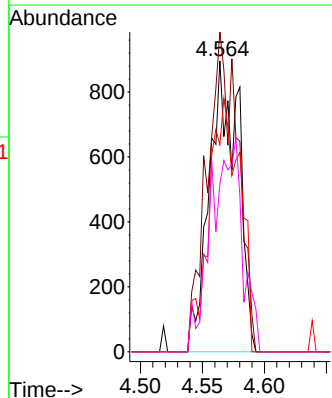
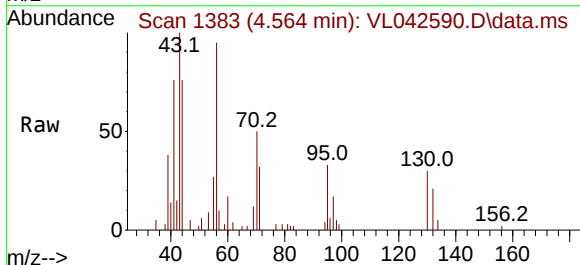
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

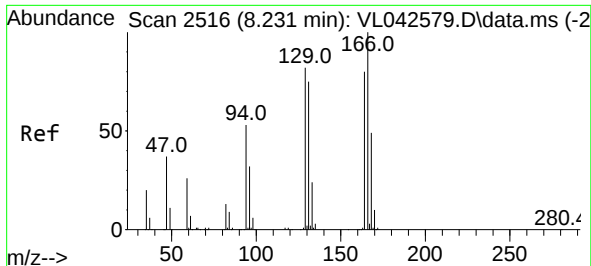
Tgt Ion: 43 Resp: 3661
Ion Ratio Lower Upper
43 100
72 21.0 17.7 26.5



#38
Trichloroethene
Concen: 0.112 ppbv m
RT: 4.564 min Scan# 1383
Delta R.T. 0.013 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

Tgt Ion:130 Resp: 1476
Ion Ratio Lower Upper
130 100
95 109.9 80.6 121.0
132 71.2 71.8 107.6#
97 57.7 53.0 79.4

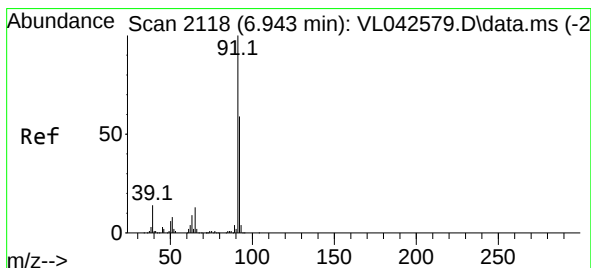
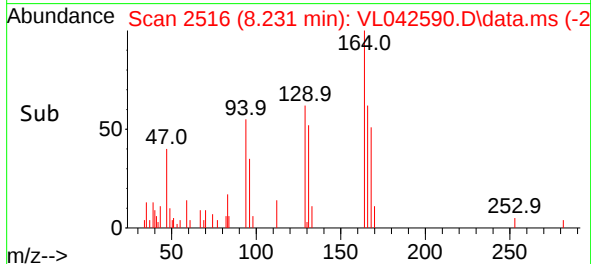
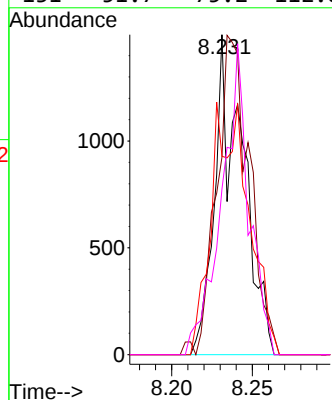
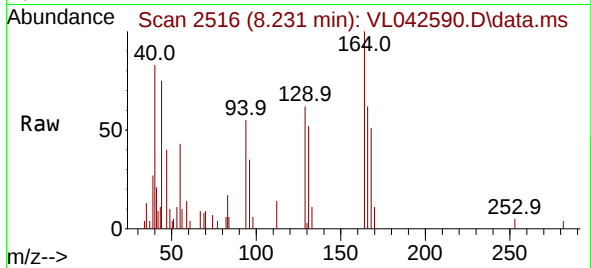




#52
Tetrachloroethene
Concen: 0.157 ppbv m
RT: 8.231 min Scan# 2110
Delta R.T. 0.000 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

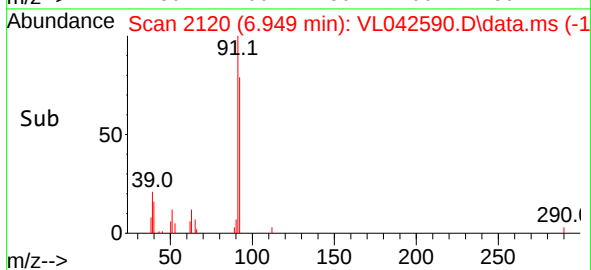
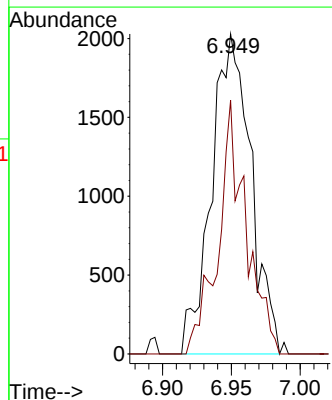
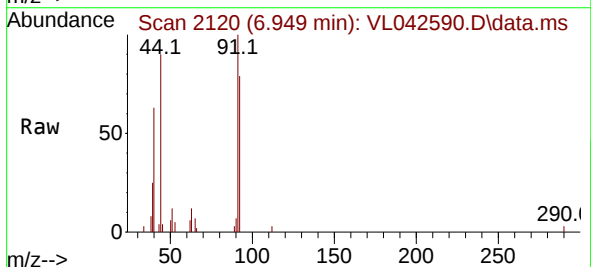
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

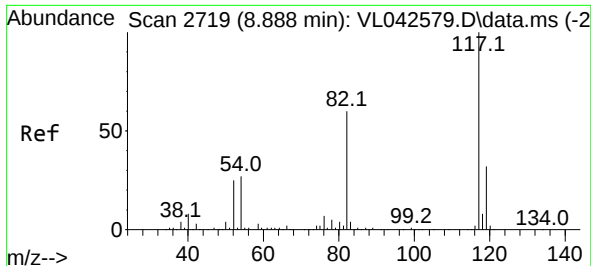
Tgt Ion:164 Resp: 1823
Ion Ratio Lower Upper
164 100
166 61.7 100.0 150.0#
129 62.0 82.2 123.4#
131 51.7 75.2 112.8#



#53
Toluene
Concen: 0.113 ppbv m
RT: 6.949 min Scan# 2120
Delta R.T. 0.007 min
Lab File: VL042590.D
Acq: 29 May 2025 17:55

Tgt Ion: 91 Resp: 4045
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042590.D

Acq: 29 May 2025 17:55

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

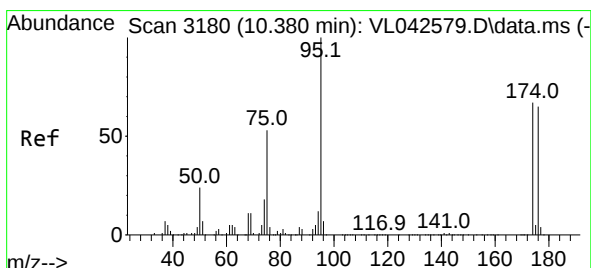
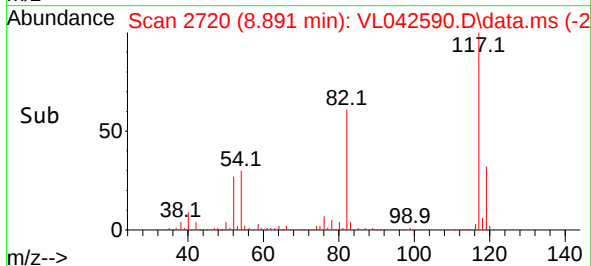
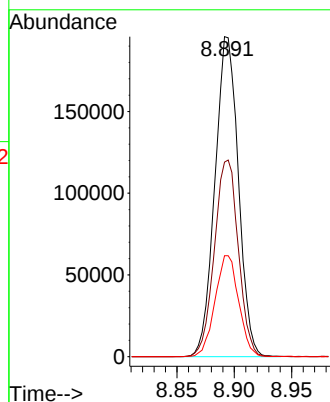
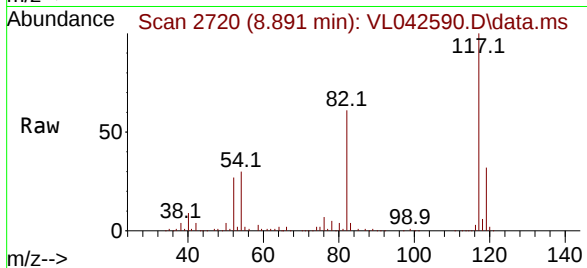
Tgt Ion:117 Resp: 278591

Ion Ratio Lower Upper

117 100

82 62.7 51.2 76.8

119 31.9 26.3 39.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.028 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. 0.007 min

Lab File: VL042590.D

Acq: 29 May 2025 17:55

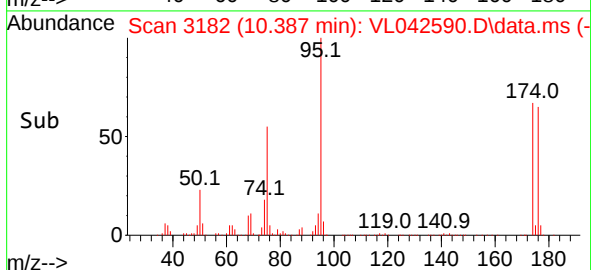
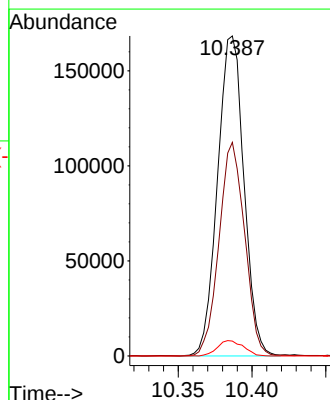
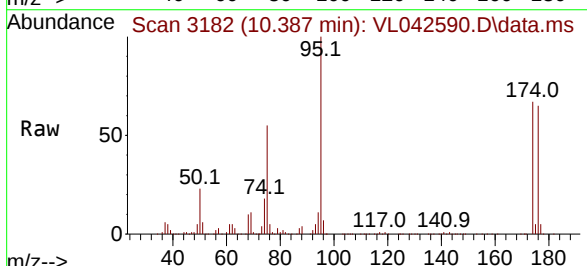
Tgt Ion: 95 Resp: 209427

Ion Ratio Lower Upper

95 100

174 65.1 53.1 79.7

175 4.8 4.2 6.2



Report of Analysis

Client:	GFE LLC	Date Collected:	05/22/25
Project:	Webster Ave Bronx, NY	Date Received:	05/23/25
Client Sample ID:	SV2	SDG No.:	Q2124
Lab Sample ID:	Q2124-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042592.D	4		05/29/25 19:00	VL052925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
142-82-5	Heptane	1.20	4.92	J	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	J	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	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
79-01-6	Trichloroethene	0.62	3.33		0.38	0.64	ug/m3
108-88-3	Toluene	2.40	9.04		1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	5.00	33.9		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	0.58	2.52	J	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.40	6.08	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.82	3.56	J	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.67	3.29	J	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.40	6.88	J	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.42	2.20		1.57	2.10	ug/m3
110-54-3	Hexane	7.60	26.8		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	109000		2.797			
540-36-3	1,4-Difluorobenzene	314000		3.971			
3114-55-4	Chlorobenzene-d5	280000		8.894			

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\VL052925\
 Data File : VL042592.D
 Acq On : 29 May 2025 19:00
 Operator : SY/MD
 Sample : Q2124-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

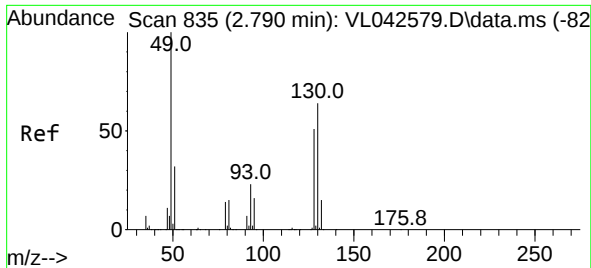
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: May 30 02:43:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	109253	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	313676	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	279800	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	212619	10.137	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1698	0.126	ppbv #	86
3) Chlorodifluoromethane	1.476	51	2477m	0.134	ppbv	
10) Heptane	4.994	43	6244m	0.297	ppbv	
13) Ethanol	1.728	45	1922m	2.166	ppbv	
15) Acetone	1.842	43	17665	1.342	ppbv #	87
20) Methylene Chloride	2.068	84	1206	0.278	ppbv #	76
26) Hexane	2.835	57	31101	1.901	ppbv #	42
27) Carbon Disulfide	2.156	76	36546	2.909	ppbv #	1
29) Chloroform	2.858	83	33248	1.562	ppbv	94
30) Cyclohexane	3.871	84	2997m	0.221	ppbv	
34) 2-Butanone	2.567	43	19439	0.869	ppbv	99
38) Trichloroethene	4.567	130	2043m	0.156	ppbv	
41) Tetrahydrofuran	3.072	42	6484	0.495	ppbv	98
52) Tetrachloroethene	8.237	164	14382m	1.246	ppbv	
53) Toluene	6.949	91	21355m	0.598	ppbv	
58) Ethyl Benzene	9.370	91	6883	0.145	ppbv	92
59) m/p-Xylene	9.542	91	12974m	0.347	ppbv	
60) o-Xylene	9.979	91	7651	0.205	ppbv	85
69) p-Isopropyltoluene	11.934	119	8515	0.145	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	6426	0.167	ppbv	95
74) 1,2,4-Trimethylbenzene	11.545	105	14552	0.341	ppbv #	66
79) Naphthalene	13.523	128	4237m	0.105	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.797 min Scan# 81

Delta R.T. 0.007 min

Lab File: VL042592.D

Acq: 29 May 2025 19:00

Instrument :

MSVOA_L

ClientSampleId :

SV2

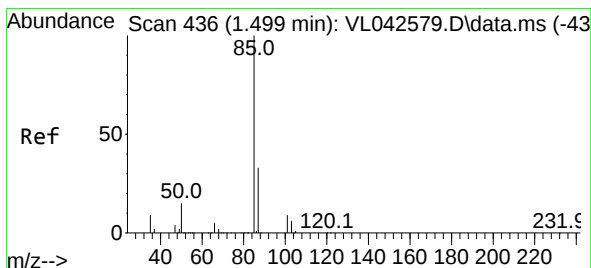
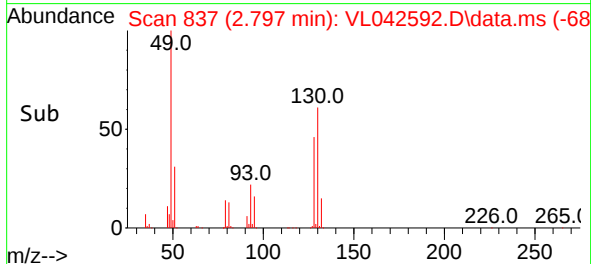
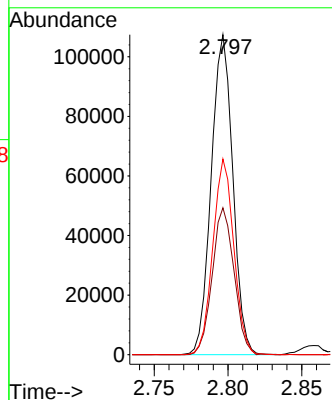
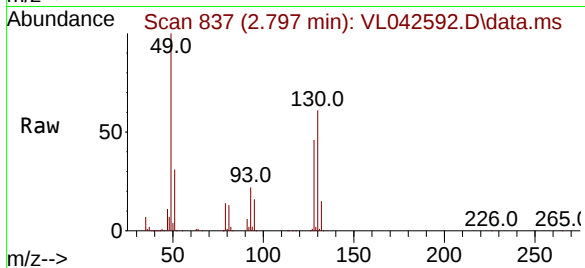
Tgt Ion: 49 Resp: 109253

Ion Ratio Lower Upper

49 100

128 46.4 24.2 72.6

130 59.6 30.4 91.2



#2

Dichlorodifluoromethane

Concen: 0.126 ppbv

RT: 1.499 min Scan# 436

Delta R.T. -0.000 min

Lab File: VL042592.D

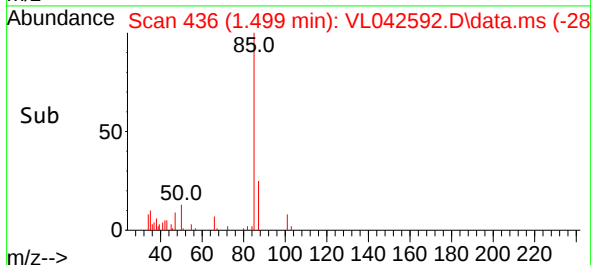
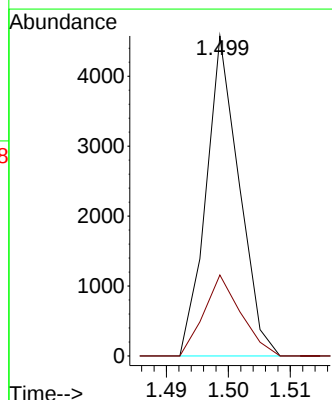
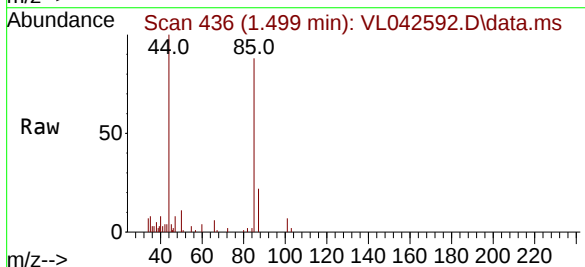
Acq: 29 May 2025 19:00

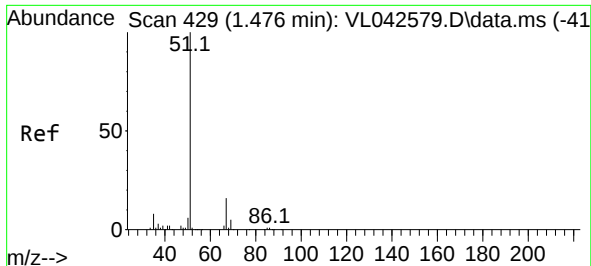
Tgt Ion: 85 Resp: 1698

Ion Ratio Lower Upper

85 100

87 25.3 26.6 39.8#

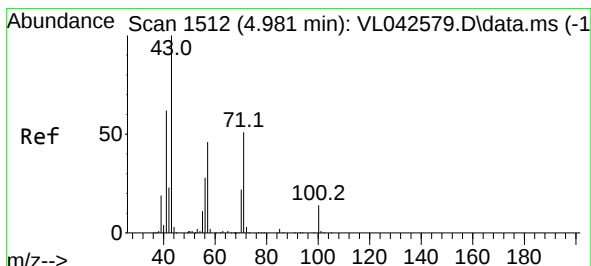
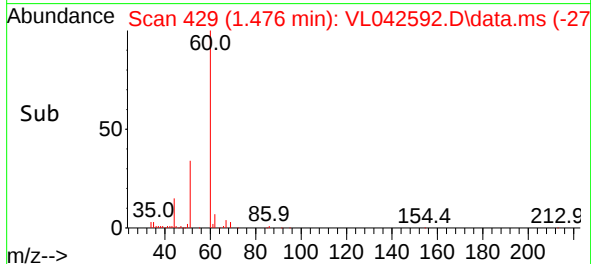
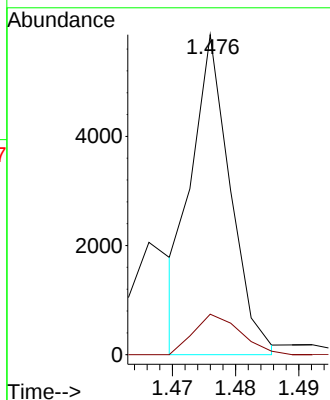
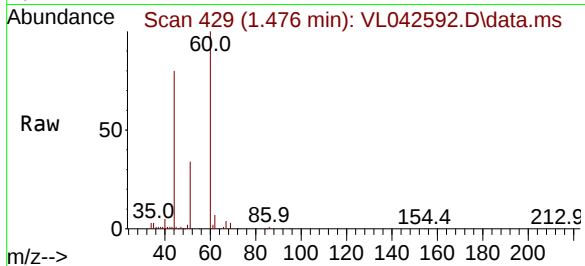




#3
Chlorodifluoromethane
Concen: 0.134 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

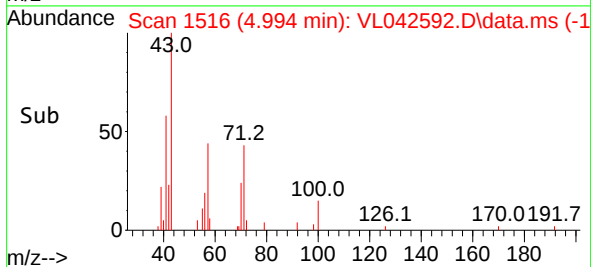
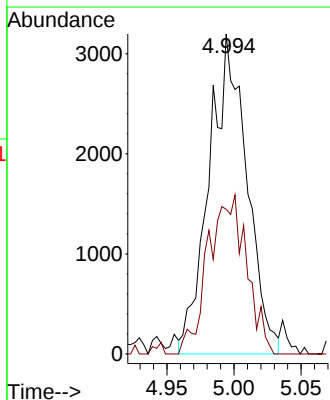
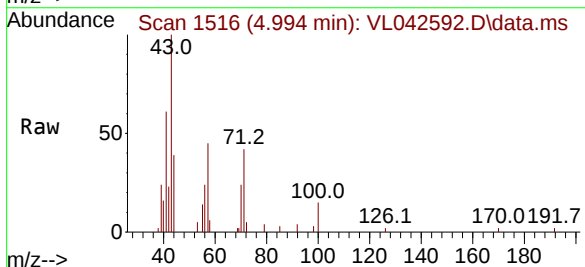
Instrument :
MSVOA_L
ClientSampleId :
SV2

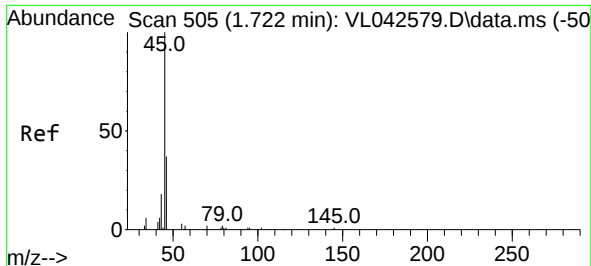
Tgt Ion: 51 Resp: 2477
Ion Ratio Lower Upper
51 100
67 18.3 13.4 20.2



#10
Heptane
Concen: 0.297 ppbv m
RT: 4.994 min Scan# 1516
Delta R.T. 0.013 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion: 43 Resp: 6244
Ion Ratio Lower Upper
43 100
57 0.0 38.9 58.3#

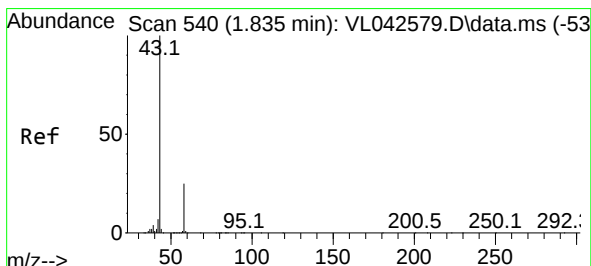
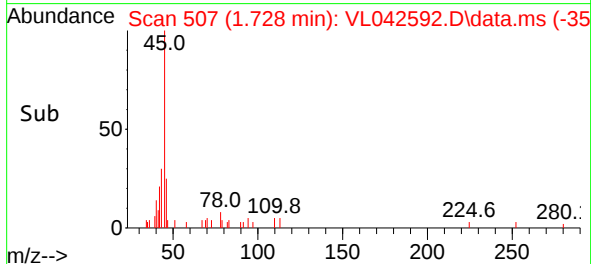
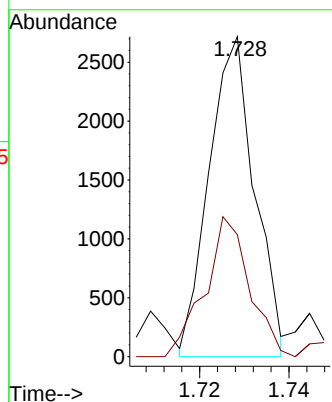
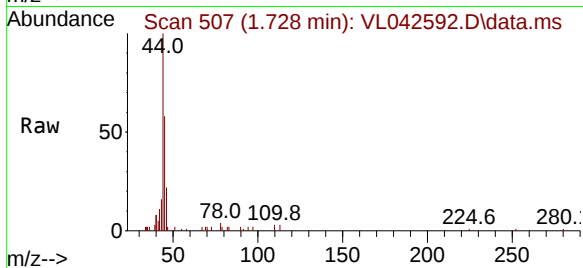




#13
Ethanol
Concen: 2.166 ppbv m
RT: 1.728 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

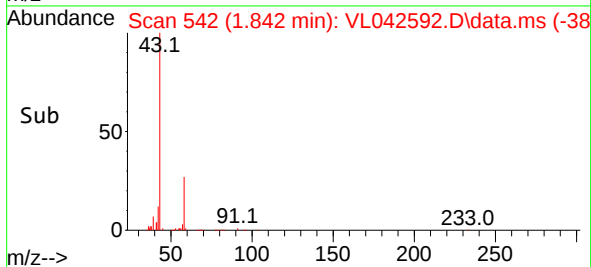
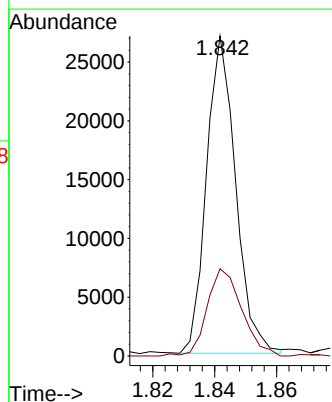
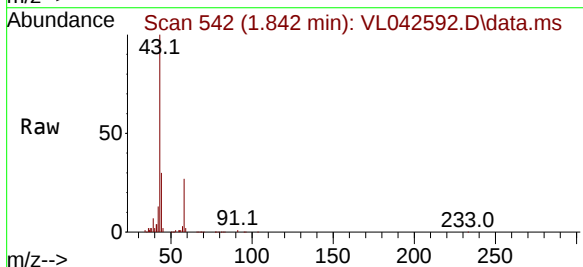
Instrument :
MSVOA_L
ClientSampleId :
SV2

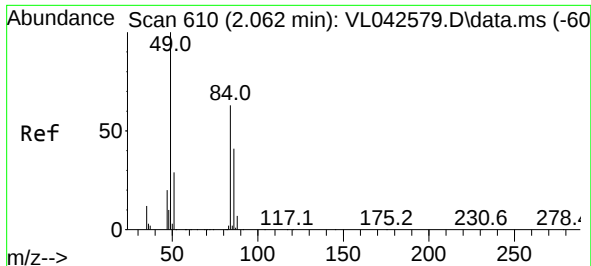
Tgt Ion: 45 Resp: 1922
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#



#15
Acetone
Concen: 1.342 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion: 43 Resp: 17665
Ion Ratio Lower Upper
43 100
58 32.9 21.0 31.4#

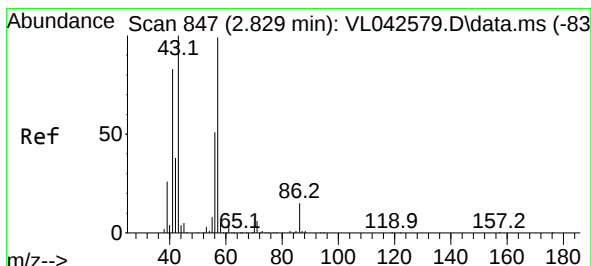
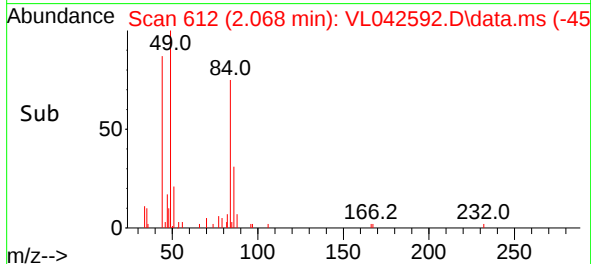
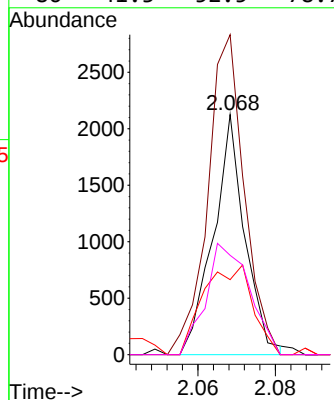
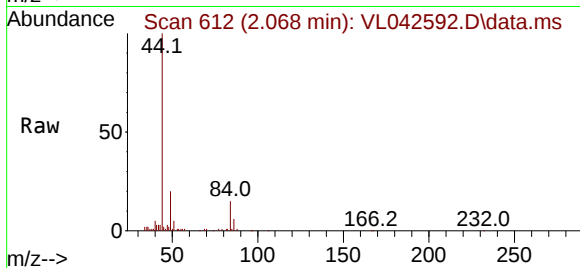




#20
Methylene Chloride
Concen: 0.278 ppbv
RT: 2.068 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

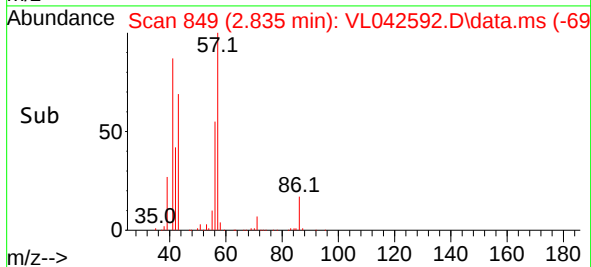
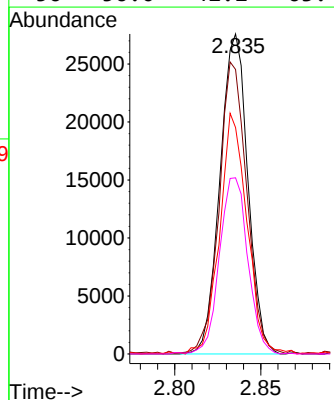
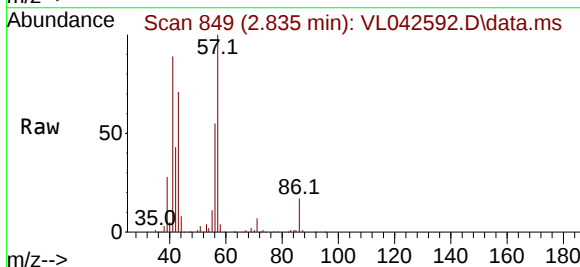
Instrument :
MSVOA_L
ClientSampleId :
SV2

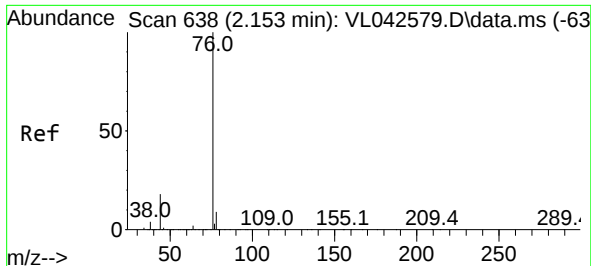
Tgt Ion: 84	Resp:	1206
Ion	Ratio	Lower Upper
84	100	
49	133.3	128.8 193.2
51	31.2	38.6 57.8#
86	41.3	52.5 78.7#



#26
Hexane
Concen: 1.901 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion: 57	Resp:	31101
Ion	Ratio	Lower Upper
57	100	
41	90.0	70.6 106.0
43	74.6	181.1 271.7#
56	56.0	42.2 63.4

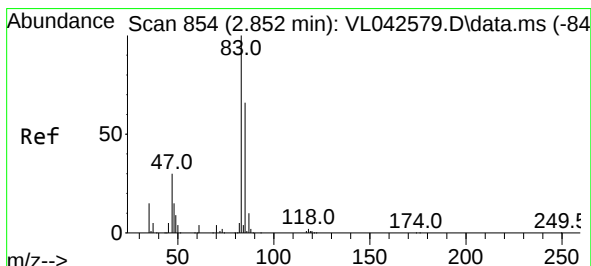
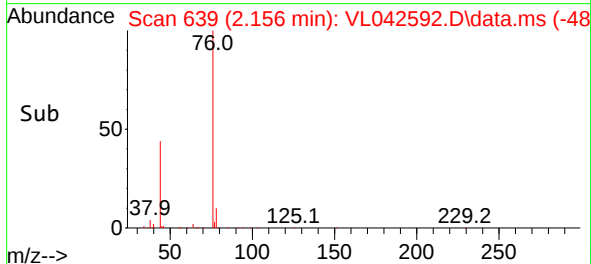
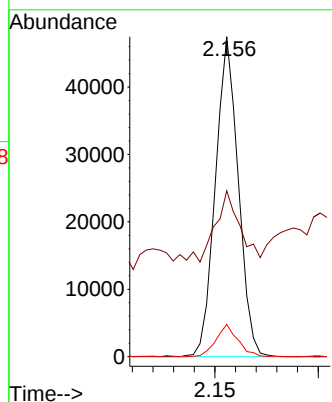
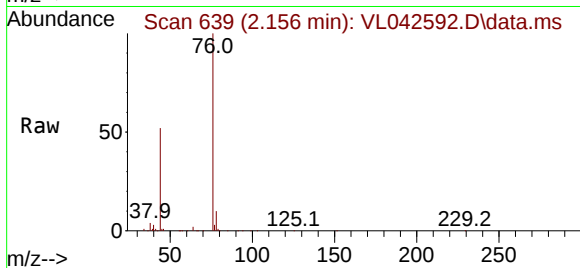




#27
Carbon Disulfide
Concen: 2.909 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

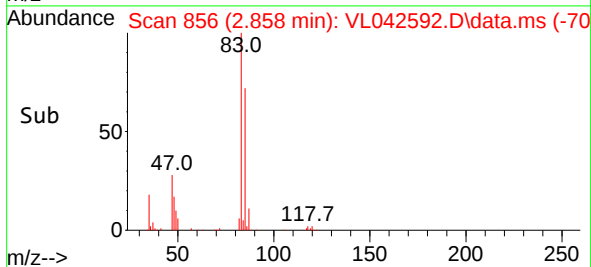
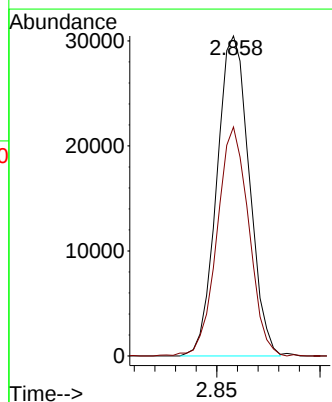
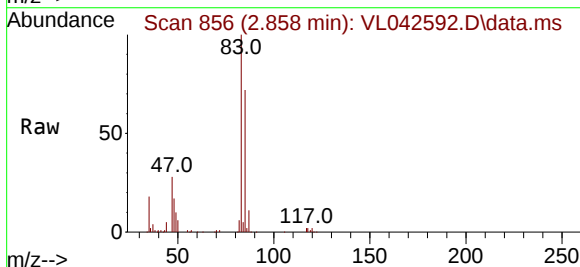
Instrument :
MSVOA_L
ClientSampleId :
SV2

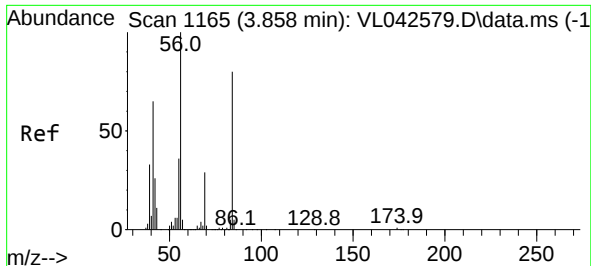
Tgt Ion: 76 Resp: 36546
Ion Ratio Lower Upper
76 100
44 177.2 21.3 31.9#
78 9.8 9.4 14.0



#29
Chloroform
Concen: 1.562 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion: 83 Resp: 33248
Ion Ratio Lower Upper
83 100
85 71.0 52.8 79.2

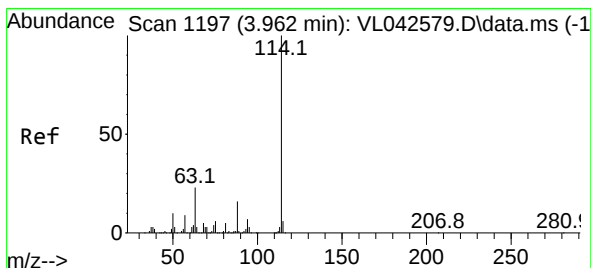
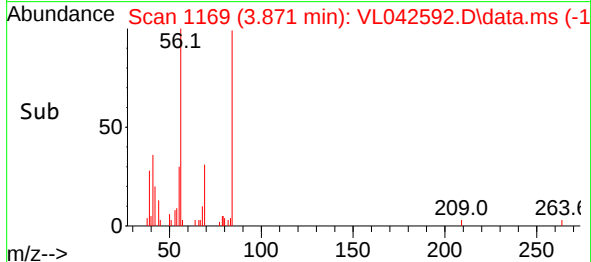
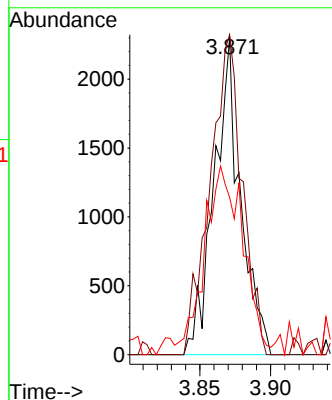
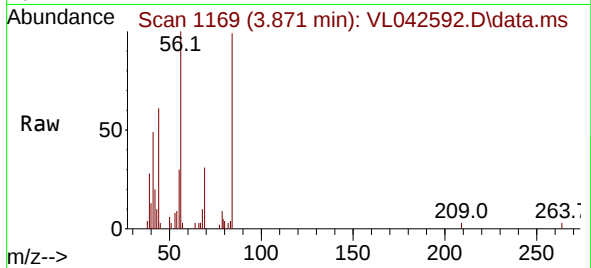




#30
Cyclohexane
Concen: 0.221 ppbv m
RT: 3.871 min Scan# 1165
Delta R.T. 0.013 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

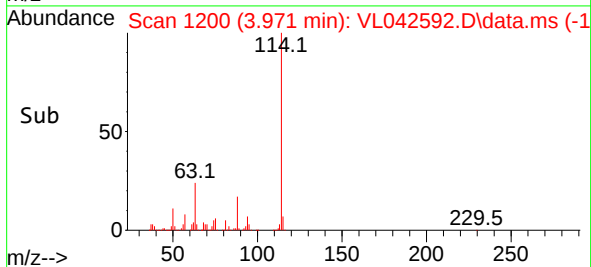
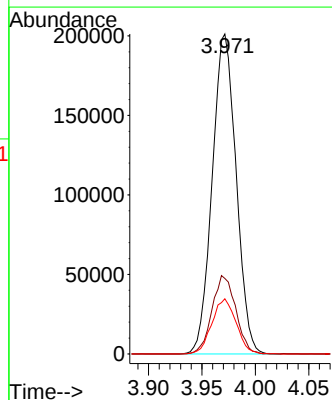
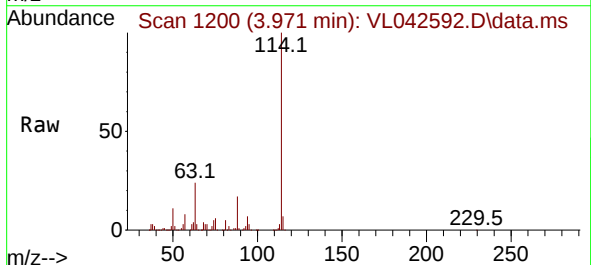
Instrument :
MSVOA_L
ClientSampleId :
SV2

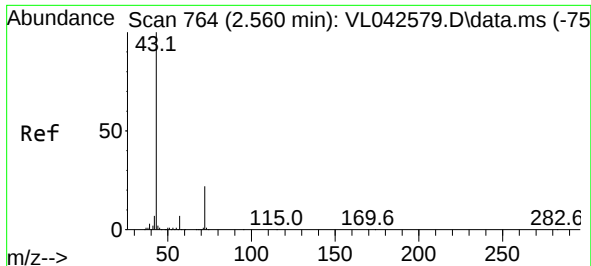
Tgt Ion: 84 Resp: 2997
Ion Ratio Lower Upper
84 100
56 122.8 103.7 155.5
41 90.7 65.1 97.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 1200
Delta R.T. 0.010 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion: 114 Resp: 313676
Ion Ratio Lower Upper
114 100
63 24.3 19.0 28.6
88 17.5 13.6 20.4

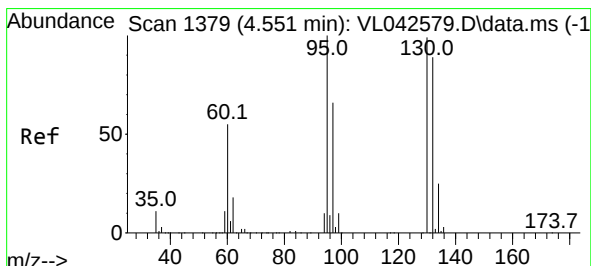
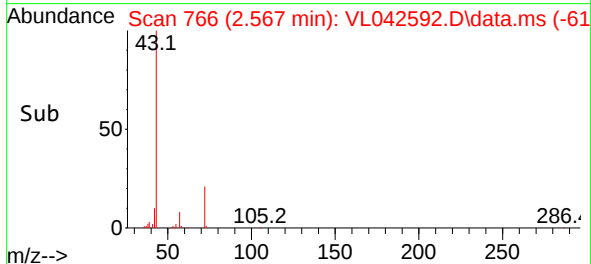
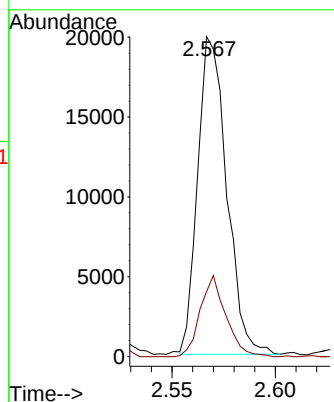
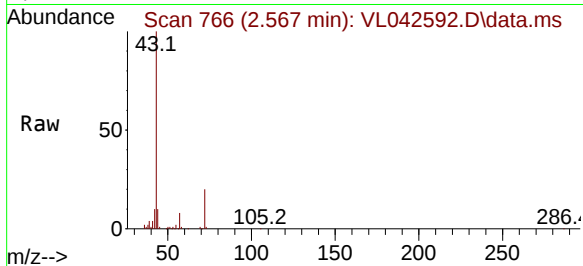




#34
2-Butanone
Concen: 0.869 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

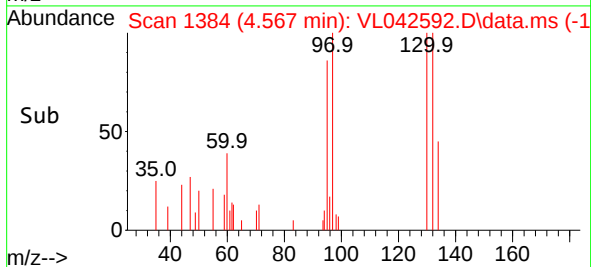
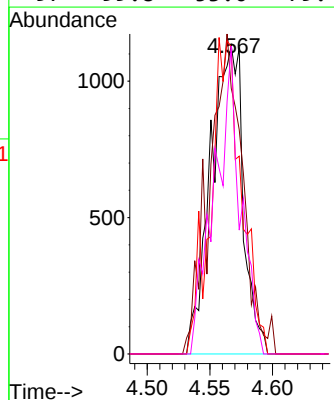
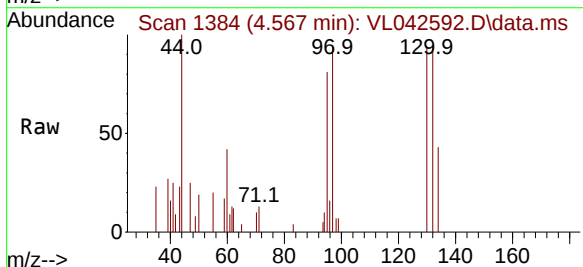
Instrument :
MSVOA_L
ClientSampleId :
SV2

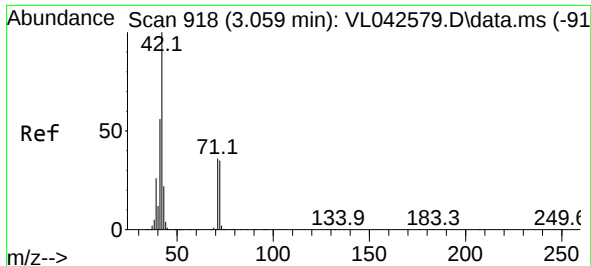
Tgt Ion: 43 Resp: 19439
Ion Ratio Lower Upper
43 100
72 22.6 17.7 26.5



#38
Trichloroethene
Concen: 0.156 ppbv m
RT: 4.567 min Scan# 1384
Delta R.T. 0.016 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion:130 Resp: 2043
Ion Ratio Lower Upper
130 100
95 86.2 80.6 121.0
132 99.6 71.8 107.6
97 99.8 53.0 79.4#





#41

Tetrahydrofuran

Concen: 0.495 ppbv

RT: 3.072 min Scan# 918

Delta R.T. 0.013 min

Lab File: VL042592.D

Acq: 29 May 2025 19:00

Instrument :

MSVOA_L

ClientSampleId :

SV2

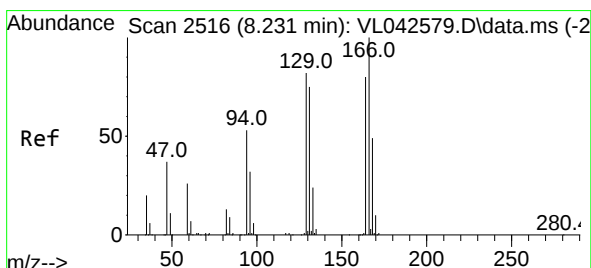
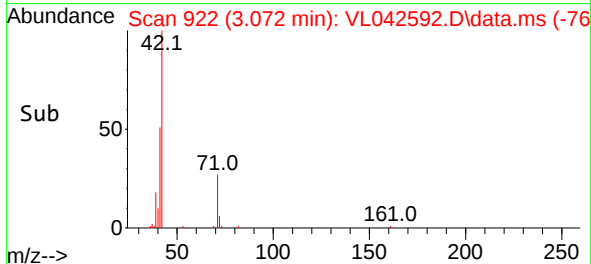
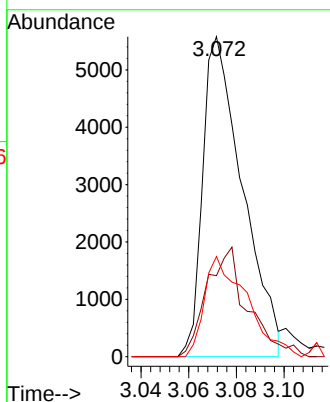
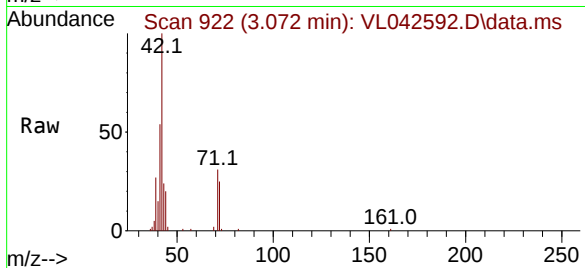
Tgt Ion: 42 Resp: 6484

Ion Ratio Lower Upper

42 100

72 35.1 28.9 43.3

71 34.4 28.5 42.7



#52

Tetrachloroethene

Concen: 1.246 ppbv m

RT: 8.237 min Scan# 2518

Delta R.T. 0.006 min

Lab File: VL042592.D

Acq: 29 May 2025 19:00

Tgt Ion:164 Resp: 14382

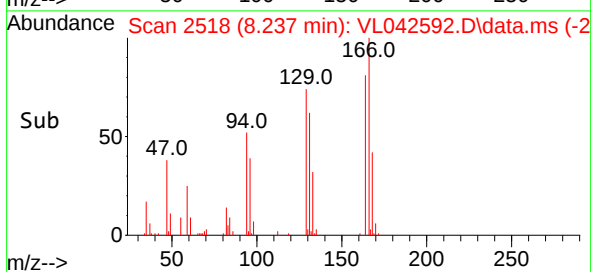
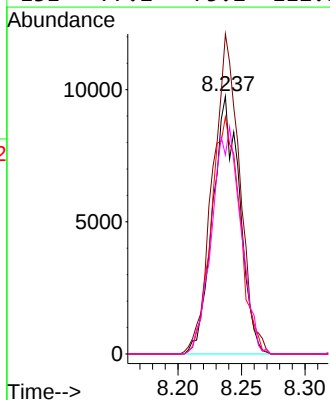
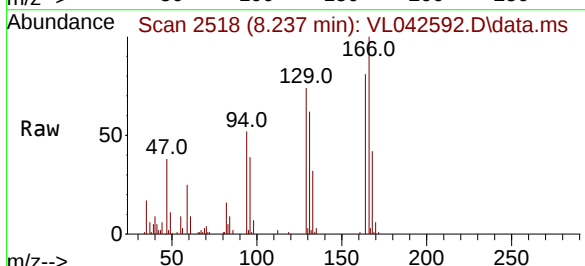
Ion Ratio Lower Upper

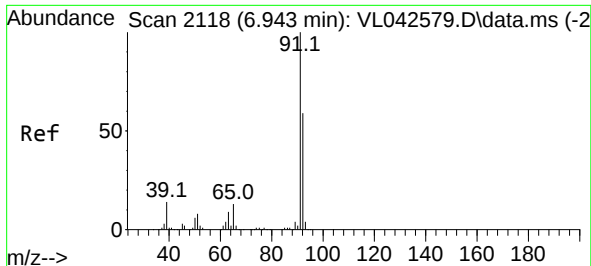
164 100

166 124.2 100.0 150.0

129 92.0 82.2 123.4

131 77.2 75.2 112.8

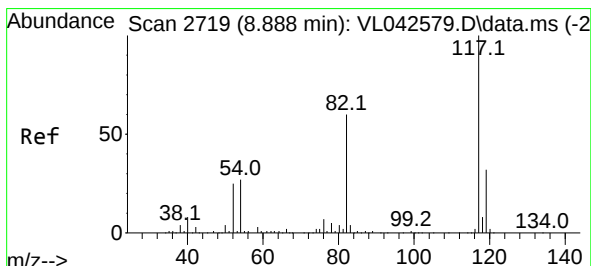
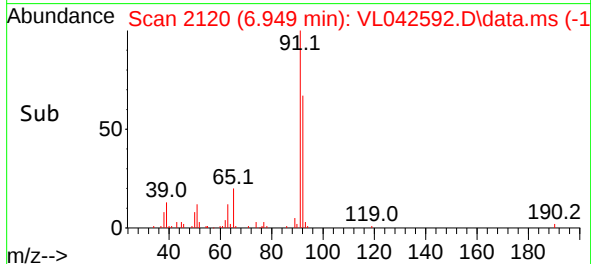
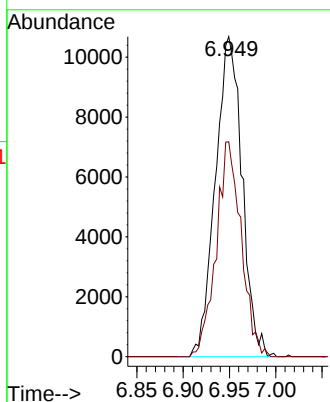
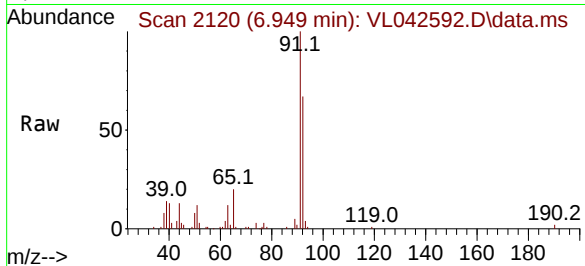




#53
Toluene
Concen: 0.598 ppbv m
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

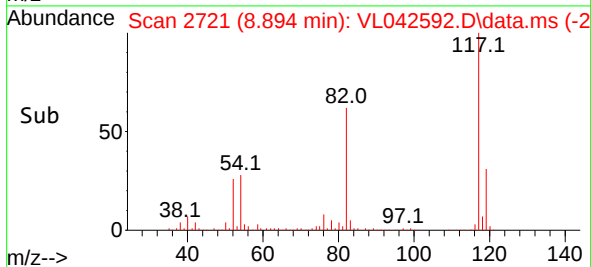
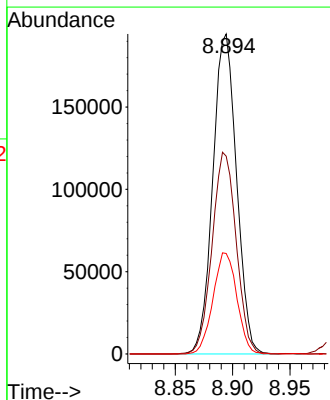
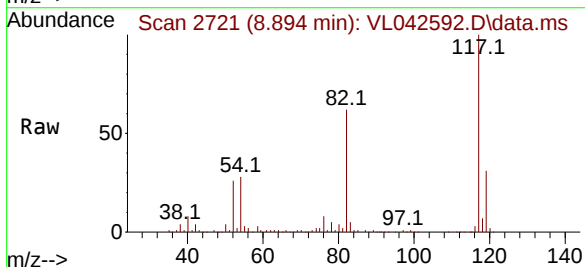
Instrument :
MSVOA_L
ClientSampleId :
SV2

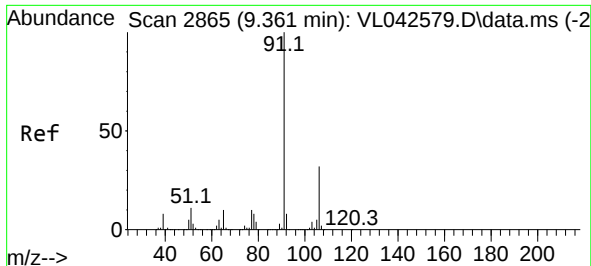
Tgt Ion: 91 Resp: 21355
Ion Ratio Lower Upper
91 100
92 63.1 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion: 117 Resp: 279800
Ion Ratio Lower Upper
117 100
82 64.1 51.2 76.8
119 31.9 26.3 39.5

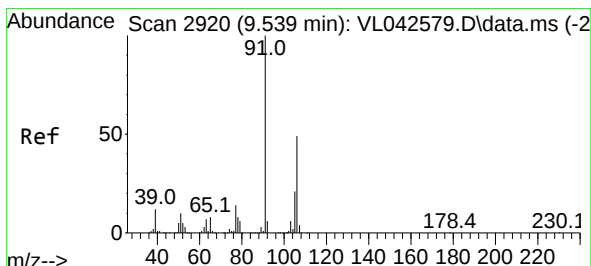
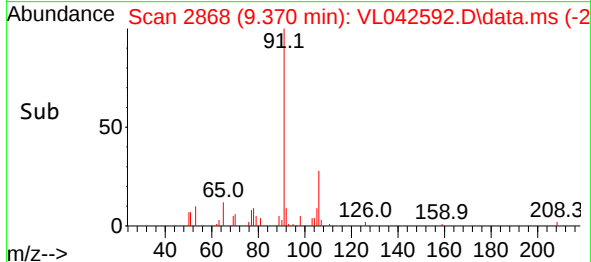
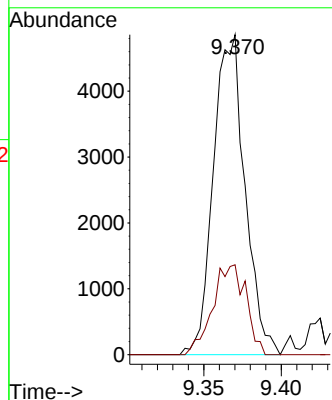
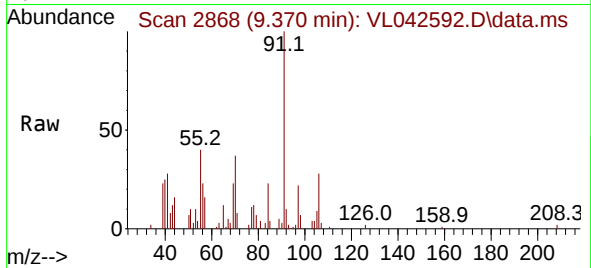




#58
Ethyl Benzene
Concen: 0.145 ppbv
RT: 9.370 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

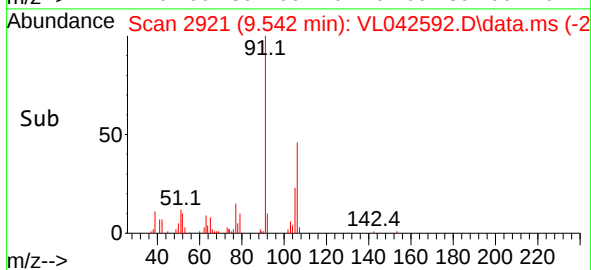
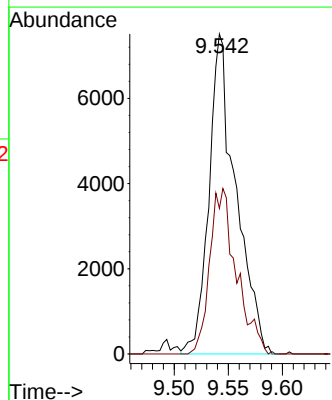
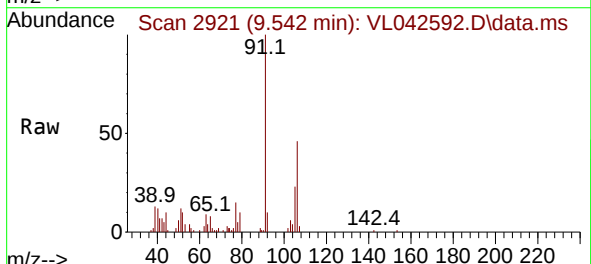
Instrument :
MSVOA_L
ClientSampleId :
SV2

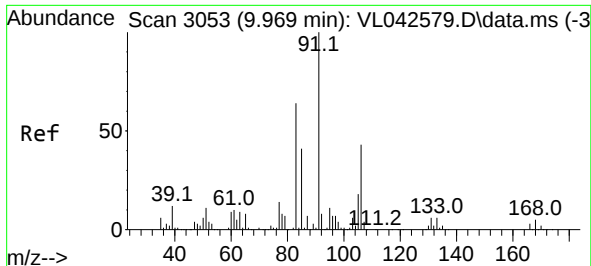
Tgt Ion: 91 Resp: 6883
Ion Ratio Lower Upper
91 100
106 28.1 25.9 38.9



#59
m/p-Xylene
Concen: 0.347 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion: 91 Resp: 12974
Ion Ratio Lower Upper
91 100
106 51.3 38.8 58.2





#60

o-Xylene

Concen: 0.205 ppbv

RT: 9.979 min Scan# 3053

Delta R.T. 0.010 min

Lab File: VL042592.D

Acq: 29 May 2025 19:00

Instrument :

MSVOA_L

ClientSampleId :

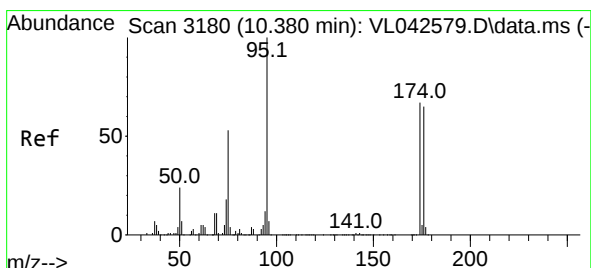
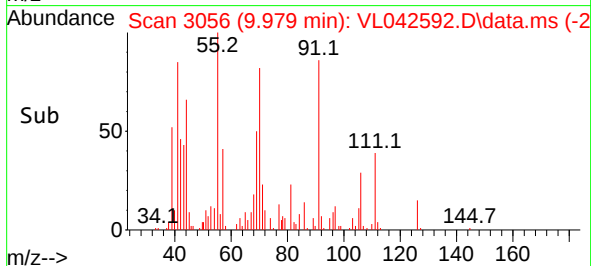
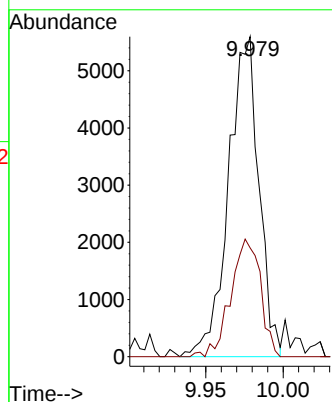
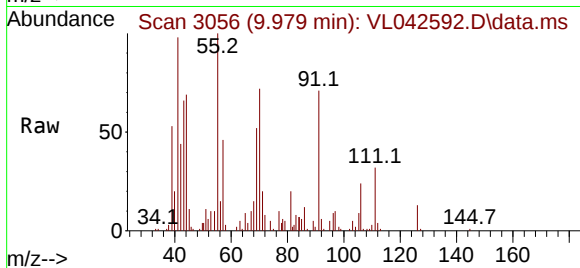
SV2

Tgt Ion: 91 Resp: 7651

Ion Ratio Lower Upper

91 100

106 35.9 22.9 68.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.137 ppbv

RT: 10.386 min Scan# 3182

Delta R.T. 0.006 min

Lab File: VL042592.D

Acq: 29 May 2025 19:00

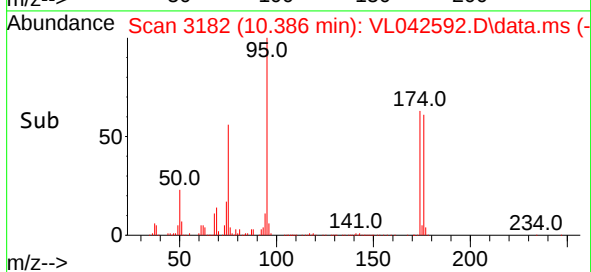
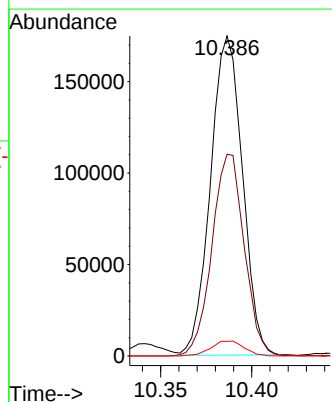
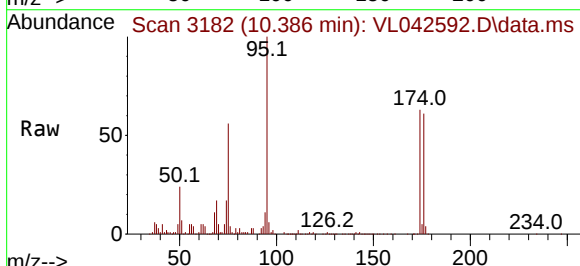
Tgt Ion: 95 Resp: 212619

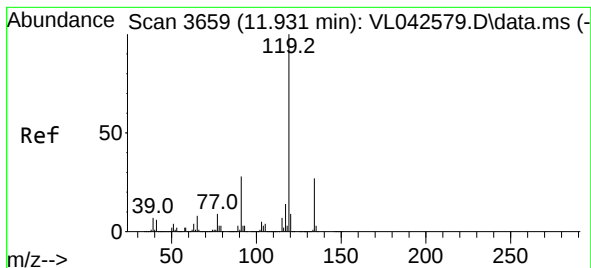
Ion Ratio Lower Upper

95 100

174 63.9 53.1 79.7

175 4.9 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.145 ppbv

RT: 11.934 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042592.D

Acq: 29 May 2025 19:00

Instrument :

MSVOA_L

ClientSampleId :

SV2

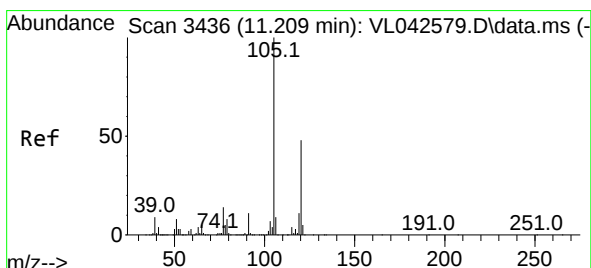
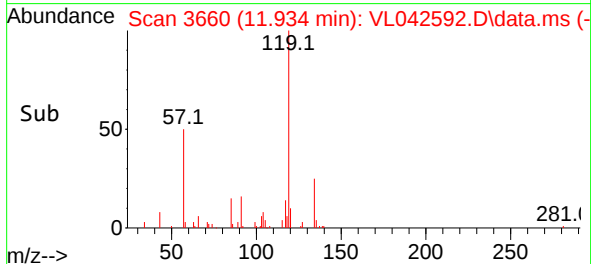
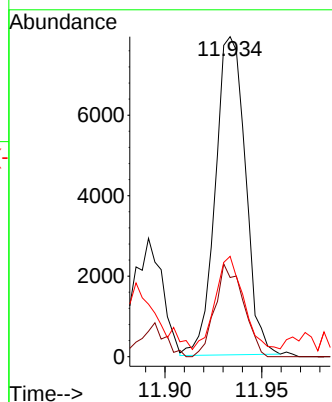
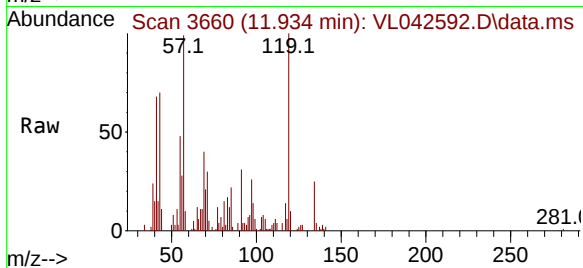
Tgt Ion:119 Resp: 8515

Ion Ratio Lower Upper

119 100

134 27.4 21.1 31.7

91 27.8 21.9 32.9



#73

1,3,5-Trimethylbenzene

Concen: 0.167 ppbv

RT: 11.215 min Scan# 3438

Delta R.T. 0.006 min

Lab File: VL042592.D

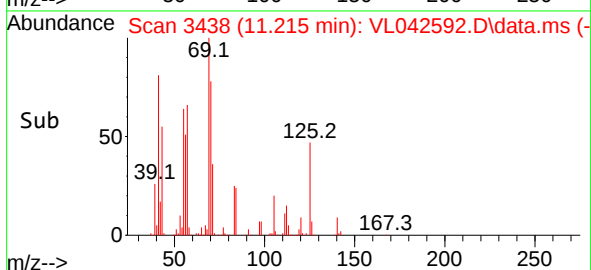
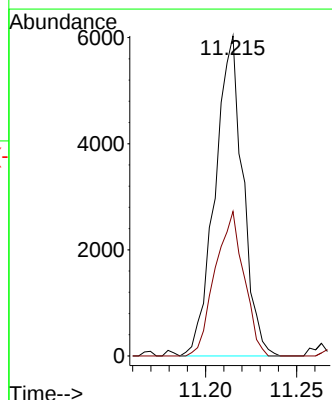
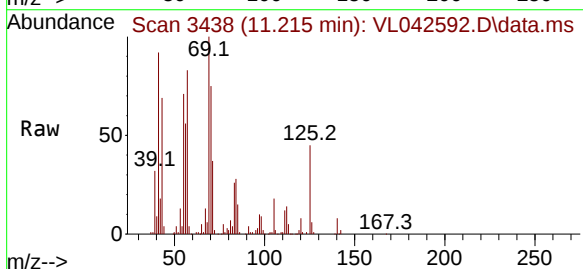
Acq: 29 May 2025 19:00

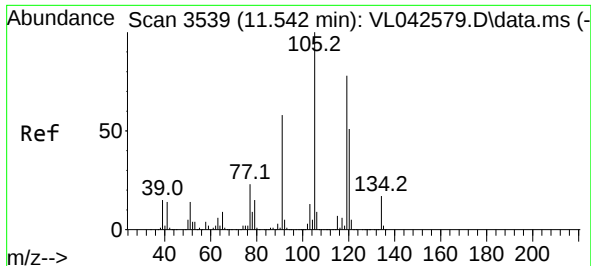
Tgt Ion:105 Resp: 6426

Ion Ratio Lower Upper

105 100

120 45.1 38.8 58.2

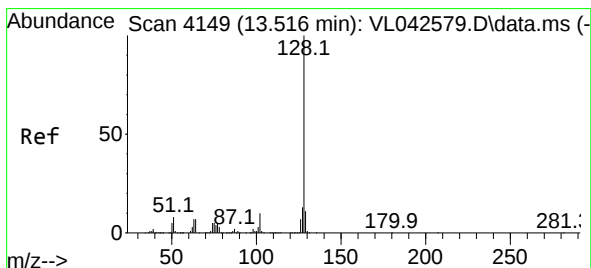
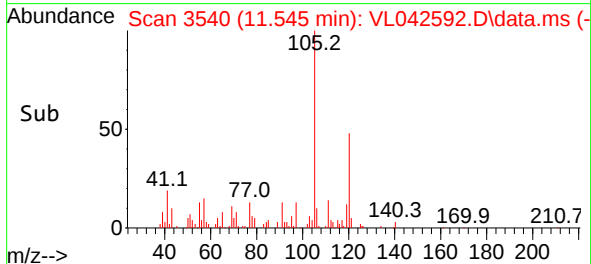
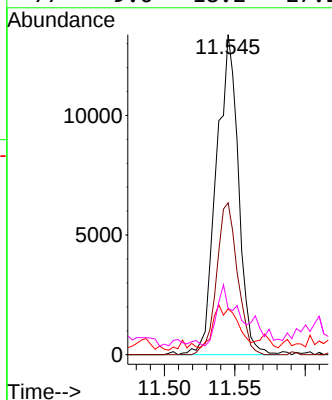
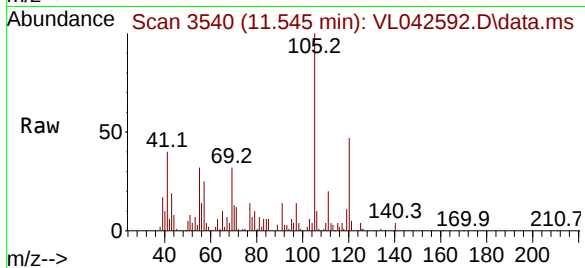




#74
1,2,4-Trimethylbenzene
Concen: 0.341 ppbv
RT: 11.545 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

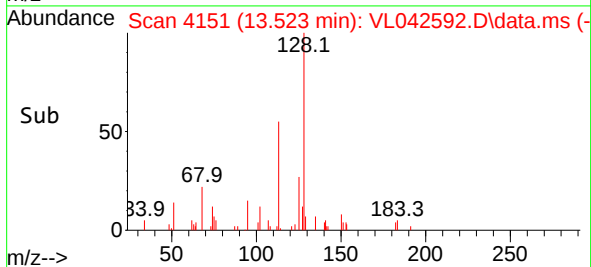
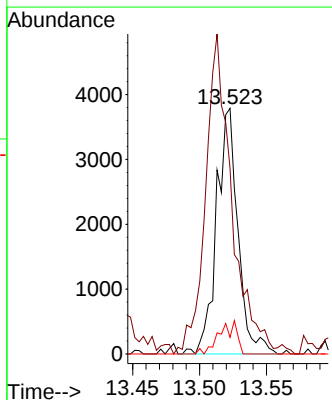
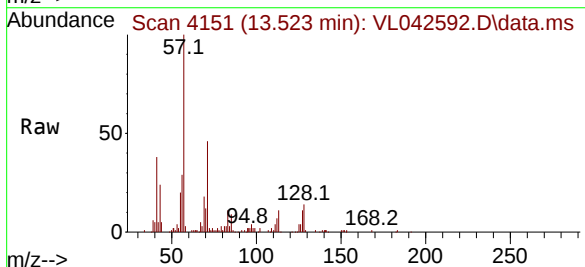
Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 14552
Ion Ratio Lower Upper
105 100
120 47.4 40.8 61.2
91 12.5 46.8 70.2#
77 9.6 18.2 27.2#



#79
Naphthalene
Concen: 0.105 ppbv m
RT: 13.523 min Scan# 4151
Delta R.T. 0.006 min
Lab File: VL042592.D
Acq: 29 May 2025 19:00

Tgt Ion:128 Resp: 4237
Ion Ratio Lower Upper
128 100
127 75.6 10.2 15.4#
129 6.8 8.8 13.2#



Report of Analysis

Client:	GFE LLC	Date Collected:	05/22/25
Project:	Webster Ave Bronx, NY	Date Received:	05/23/25
Client Sample ID:	SV3	SDG No.:	Q2124
Lab Sample ID:	Q2124-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042594.D	4		05/29/25 20:05	VL052925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
142-82-5	Heptane	2.60	10.7		1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	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
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
108-88-3	Toluene	6.00	22.6		1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	9.10	61.7		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	2.80	12.2		2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	6.40	27.8		3.65	17.4	ug/m3
95-47-6	o-Xylene	3.20	13.9		2.08	8.69	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	3.70	18.2		1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	17.1	60.3		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	110000		2.797			
540-36-3	1,4-Difluorobenzene	316000		3.968			
3114-55-4	Chlorobenzene-d5	284000		8.891			

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\VL052925\
 Data File : VL042594.D
 Acq On : 29 May 2025 20:05
 Operator : SY/MD
 Sample : Q2124-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Quant Time: May 30 02:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

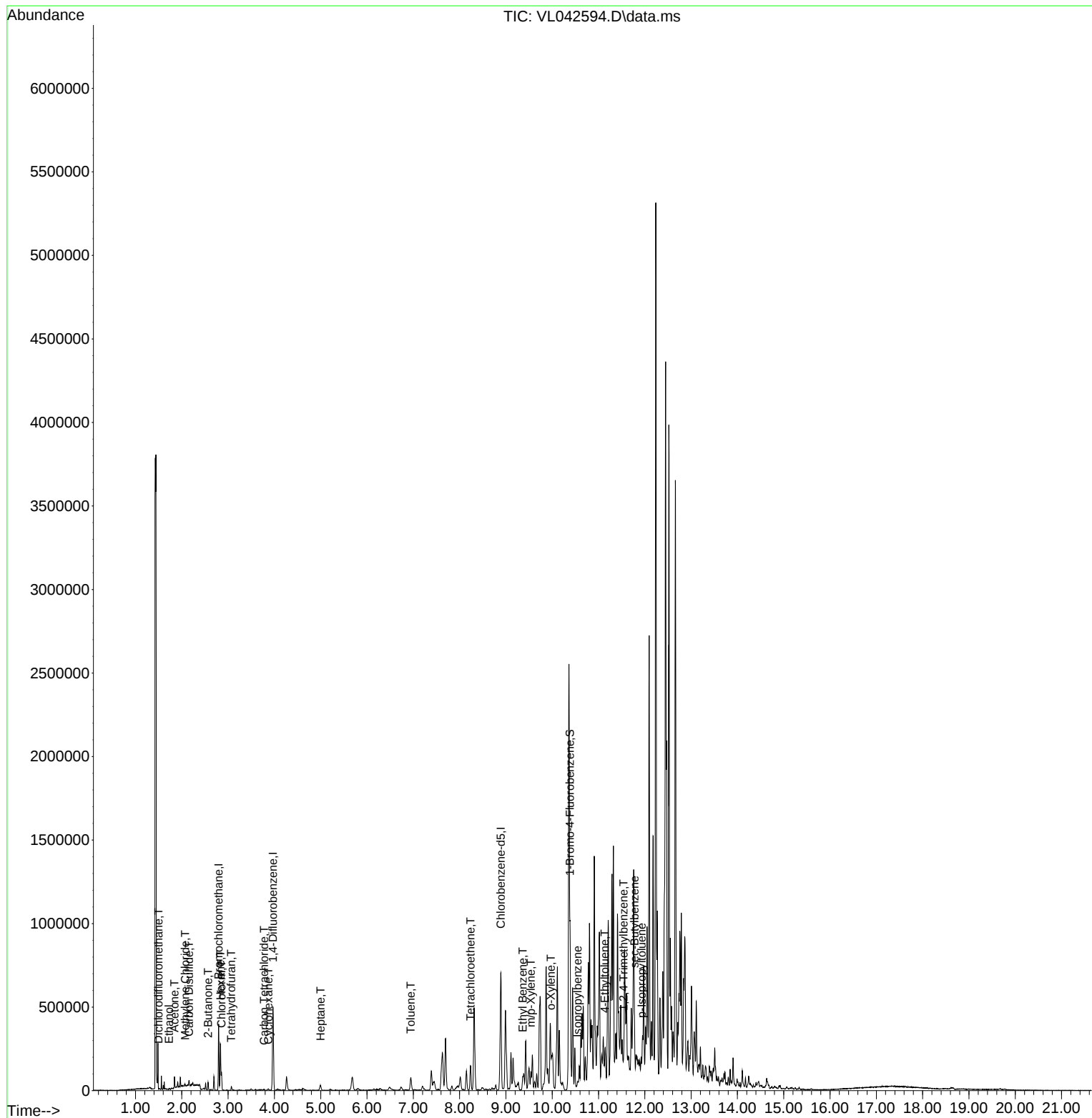
Internal Standards						
1) Bromochloromethane	2.797	49	109883	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	315583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	284413	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	210817	9.888	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1779	0.132	ppbv #	88
10) Heptane	4.994	43	13912	0.659	ppbv	98
13) Ethanol	1.725	45	2596m	2.908	ppbv	
15) Acetone	1.842	43	27951	2.112	ppbv #	84
20) Methylene Chloride	2.072	84	1525	0.349	ppbv	83
26) Hexane	2.835	57	70521	4.285	ppbv #	41
27) Carbon Disulfide	2.156	76	20835	1.649	ppbv #	1
29) Chloroform	2.858	83	41250	1.927	ppbv	99
30) Cyclohexane	3.868	84	2359m	0.173	ppbv	
34) 2-Butanone	2.567	43	28702	1.275	ppbv	99
35) Carbon Tetrachloride	3.777	117	1545	0.074	ppbv #	89
41) Tetrahydrofuran	3.068	42	9145m	0.694	ppbv	
52) Tetrachloroethene	8.234	164	26326	2.267	ppbv	91
53) Toluene	6.946	91	54297	1.512	ppbv	98
58) Ethyl Benzene	9.364	91	33818	0.701	ppbv	89
59) m/p-Xylene	9.539	91	60849	1.603	ppbv	99
60) o-Xylene	9.972	91	30572	0.807	ppbv	100
62) Isopropylbenzene	10.548	105	14864	0.266	ppbv	99
67) sec-Butylbenzene	11.775	105	18180m	0.255	ppbv	
69) p-Isopropyltoluene	11.934	119	11768	0.197	ppbv	97
72) 4-Ethyltoluene	11.134	105	17745	0.376	ppbv #	52
74) 1,2,4-Trimethylbenzene	11.542	105	40578	0.936	ppbv #	66

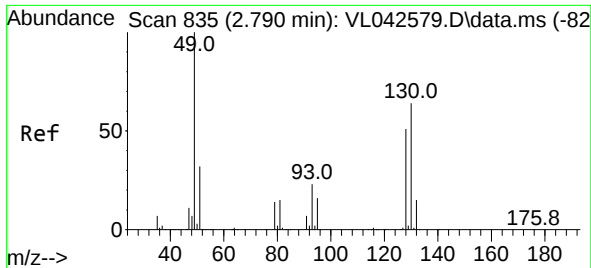
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042594.D
Acq On : 29 May 2025 20:05
Operator : SY/MD
Sample : Q2124-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: May 30 02:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

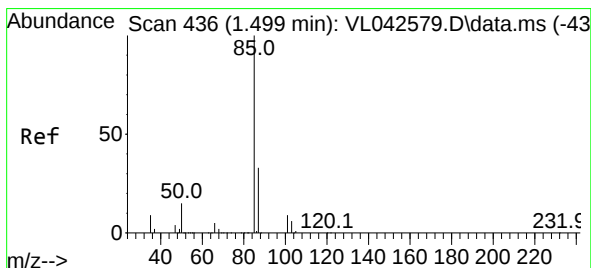
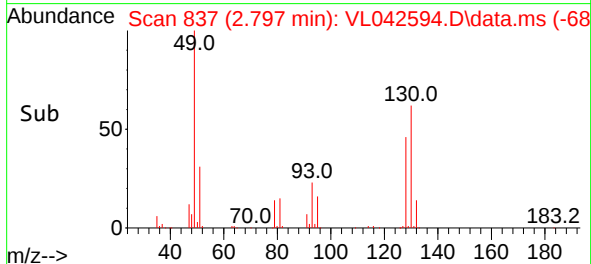
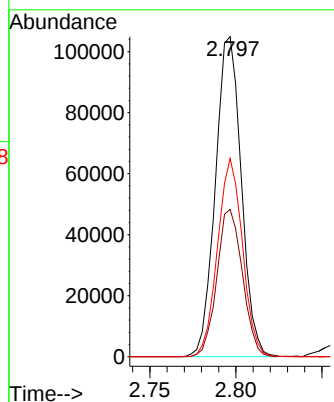
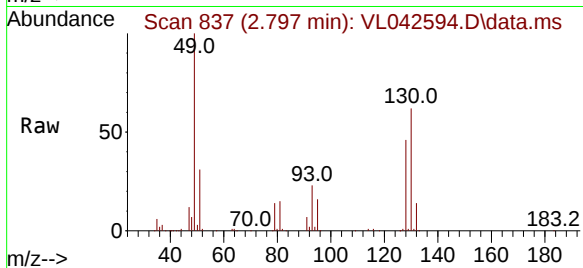




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 835
Delta R.T. 0.007 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

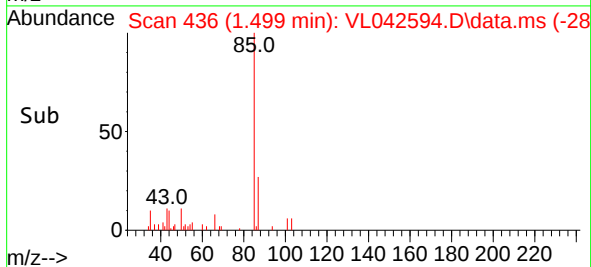
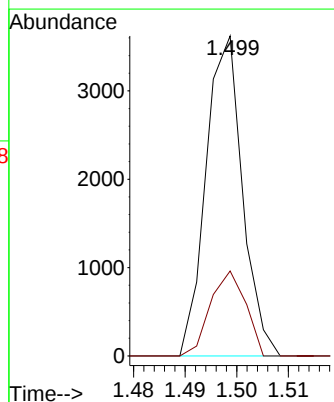
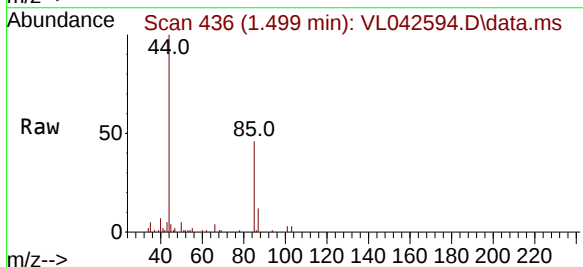
Instrument :
MSVOA_L
ClientSampleId :
SV3

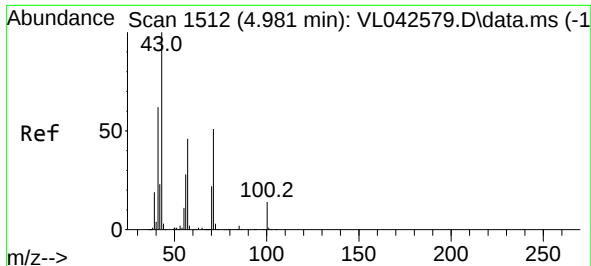
Tgt Ion: 49 Resp: 109883
Ion Ratio Lower Upper
49 100
128 45.4 24.2 72.6
130 59.5 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.132 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion: 85 Resp: 1779
Ion Ratio Lower Upper
85 100
87 26.6 26.6 39.8#

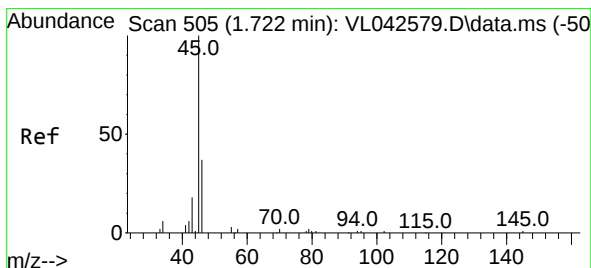
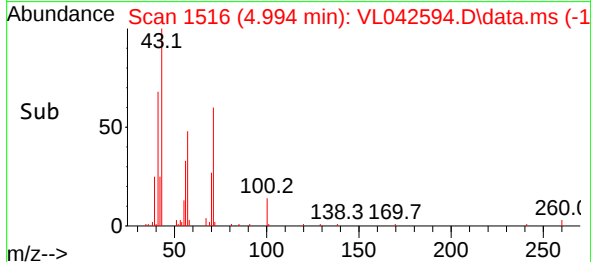
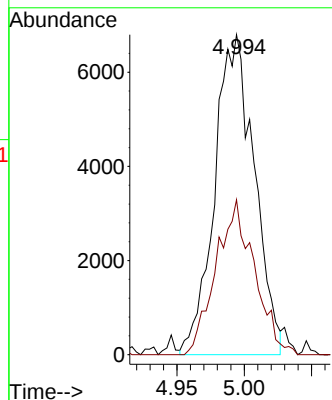
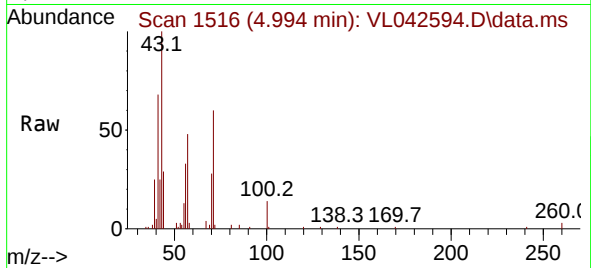




#10
 Heptane
 Concen: 0.659 ppbv
 RT: 4.994 min Scan# 1516
 Delta R.T. 0.013 min
 Lab File: VL042594.D
 Acq: 29 May 2025 20:05

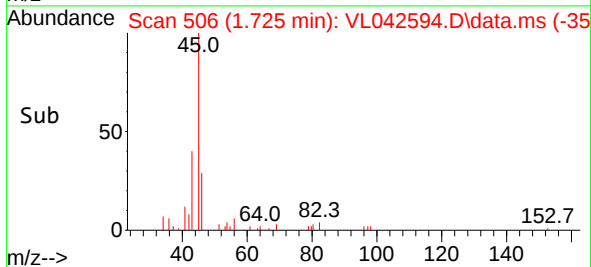
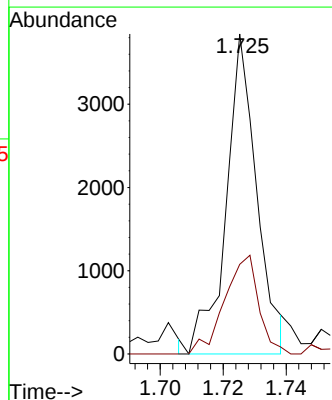
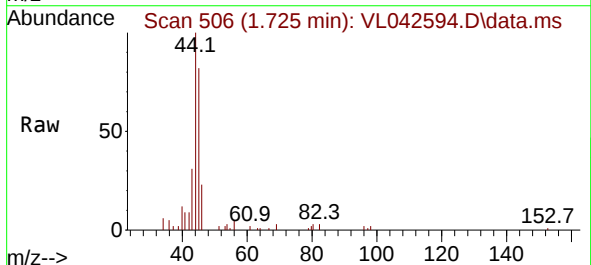
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

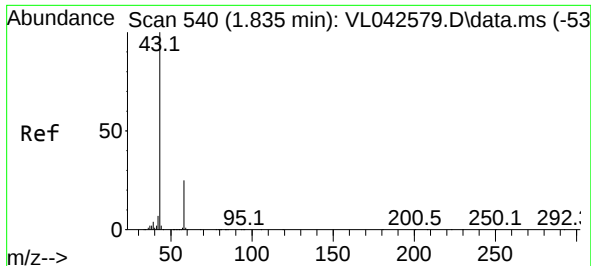
Tgt Ion: 43 Resp: 13912
 Ion Ratio Lower Upper
 43 100
 57 47.0 38.9 58.3



#13
 Ethanol
 Concen: 2.908 ppbv m
 RT: 1.725 min Scan# 506
 Delta R.T. 0.003 min
 Lab File: VL042594.D
 Acq: 29 May 2025 20:05

Tgt Ion: 45 Resp: 2596
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.5 58.1#





#15

Acetone

Concen: 2.112 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

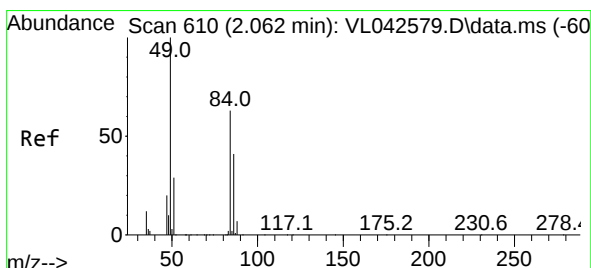
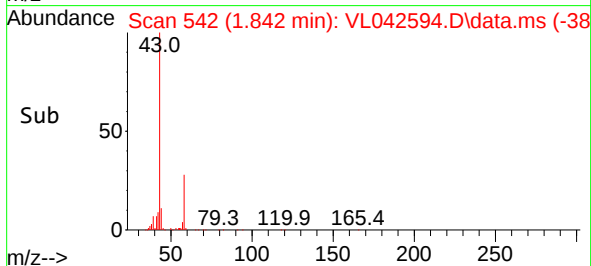
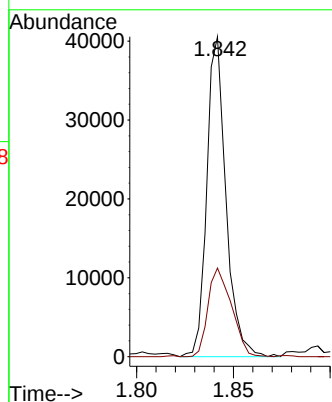
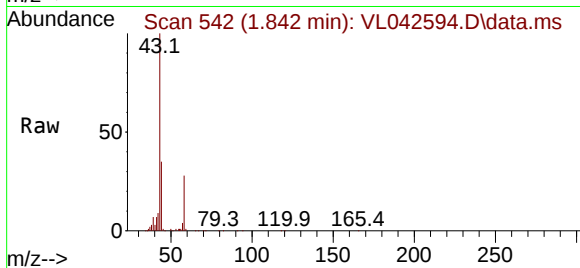
SV3

Tgt Ion: 43 Resp: 27951

Ion Ratio Lower Upper

43 100

58 34.3 21.0 31.4#



#20

Methylene Chloride

Concen: 0.349 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.010 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Tgt Ion: 84 Resp: 1525

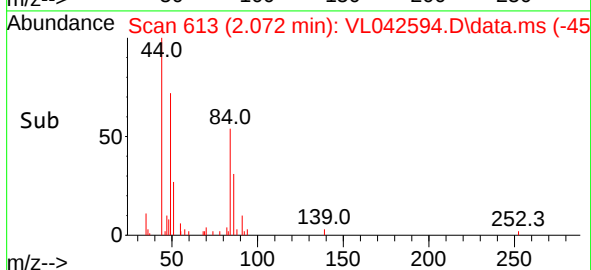
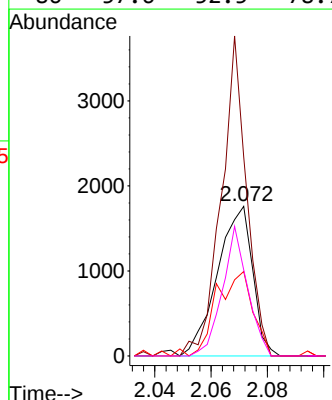
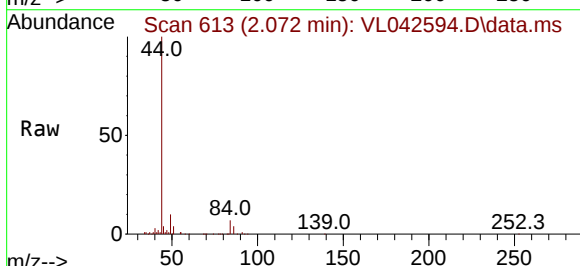
Ion Ratio Lower Upper

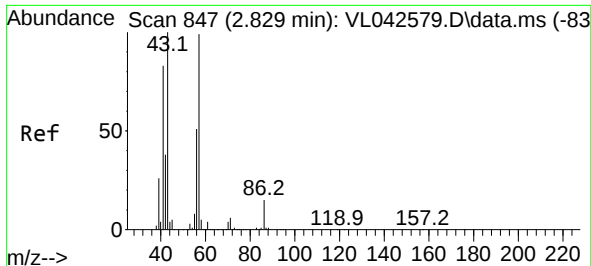
84 100

49 133.1 128.8 193.2

51 56.5 38.6 57.8

86 57.6 52.5 78.7

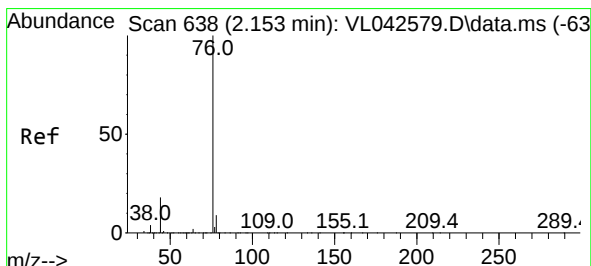
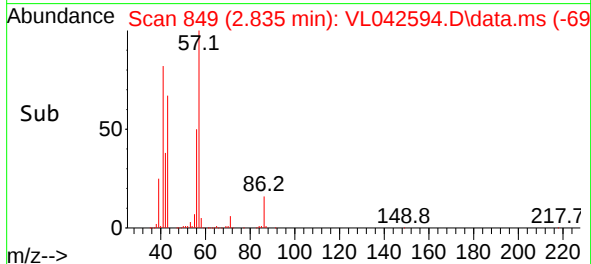
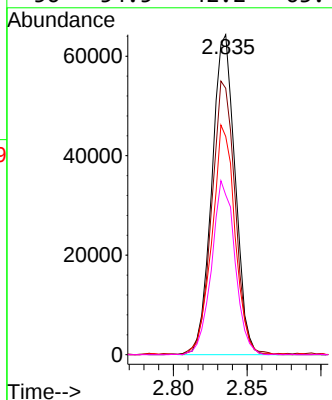
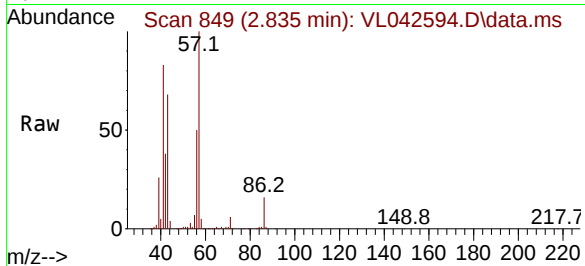




#26
Hexane
Concen: 4.285 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

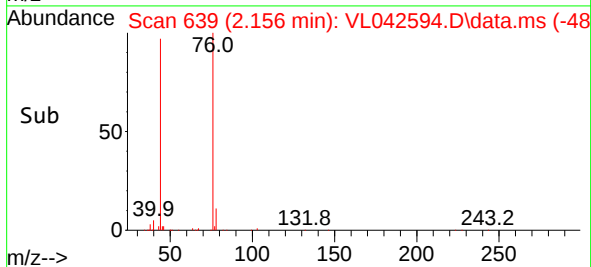
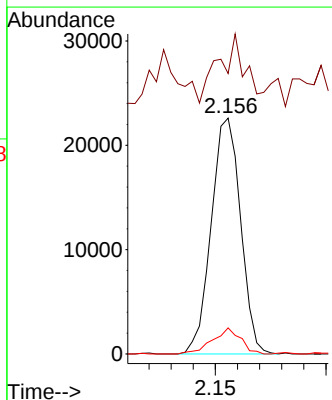
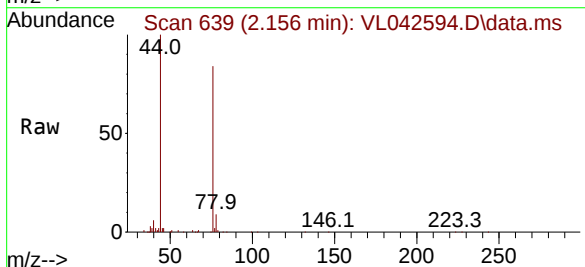
Instrument :
MSVOA_L
ClientSampleId :
SV3

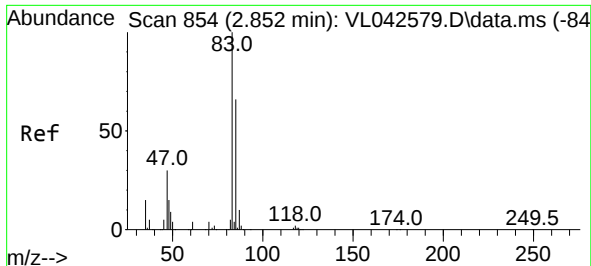
Tgt Ion: 57 Resp: 70521
Ion Ratio Lower Upper
57 100
41 87.4 70.6 106.0
43 71.5 181.1 271.7#
56 54.5 42.2 63.4



#27
Carbon Disulfide
Concen: 1.649 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion: 76 Resp: 20835
Ion Ratio Lower Upper
76 100
44 522.4 21.3 31.9#
78 10.8 9.4 14.0





#29

Chloroform

Concen: 1.927 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

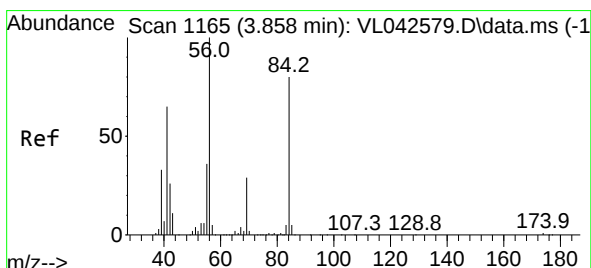
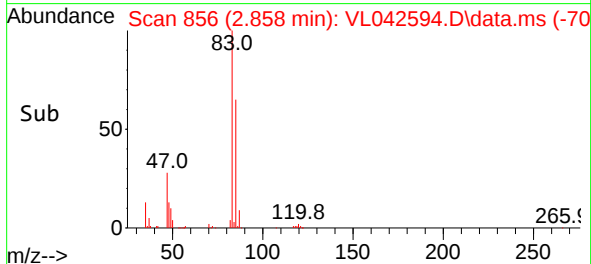
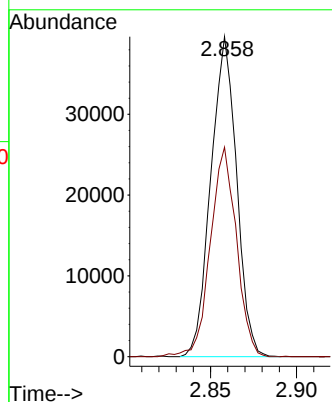
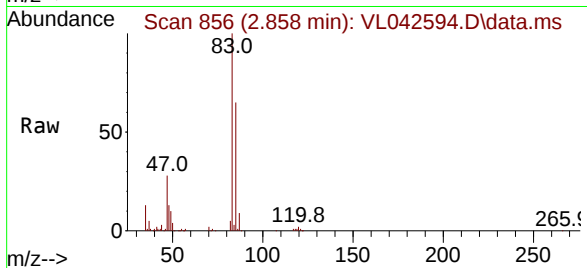
SV3

Tgt Ion: 83 Resp: 41250

Ion Ratio Lower Upper

83 100

85 65.4 52.8 79.2



#30

Cyclohexane

Concen: 0.173 ppbv m

RT: 3.868 min Scan# 1168

Delta R.T. 0.010 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

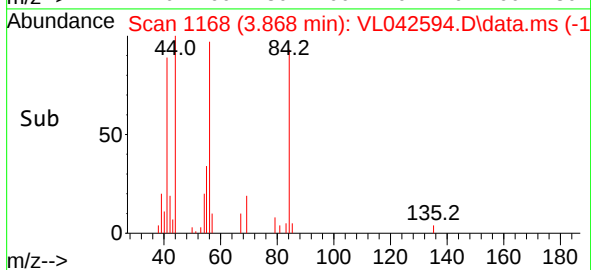
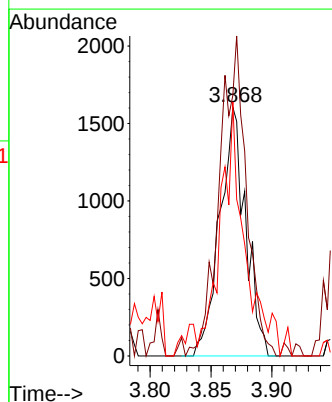
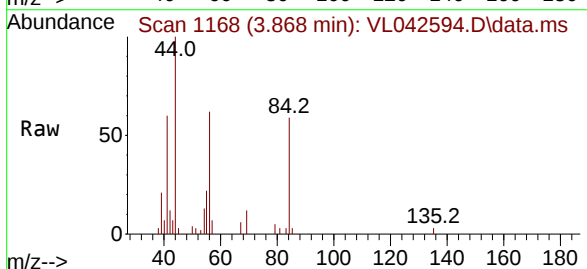
Tgt Ion: 84 Resp: 2359

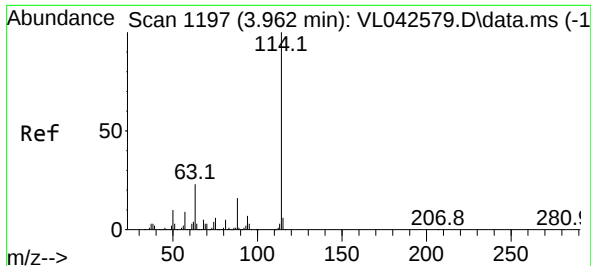
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

41 0.0 65.1 97.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.006 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

SV3

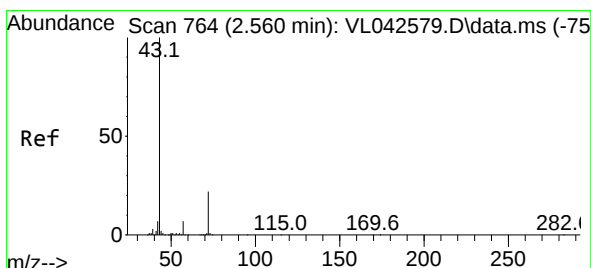
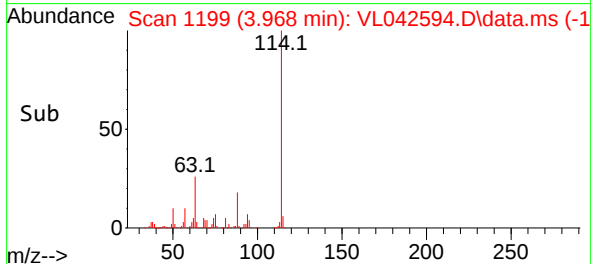
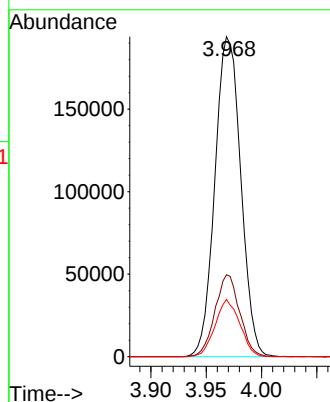
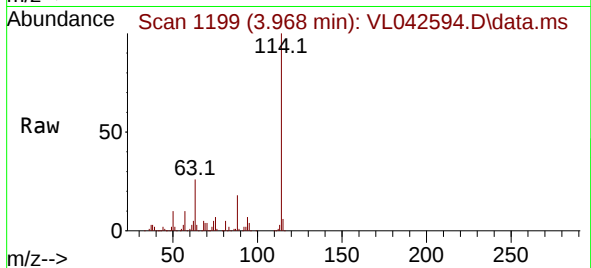
Tgt Ion:114 Resp: 315583

Ion Ratio Lower Upper

114 100

63 24.4 19.0 28.6

88 17.1 13.6 20.4



#34

2-Butanone

Concen: 1.275 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042594.D

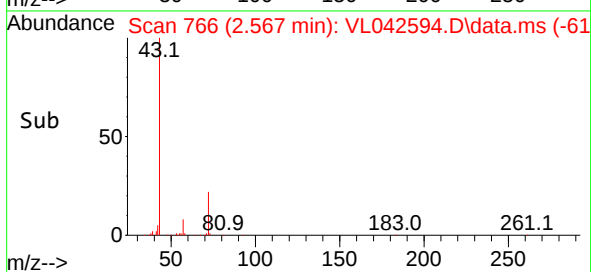
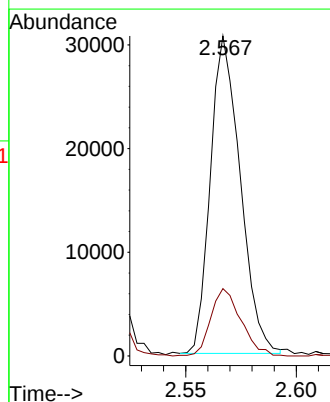
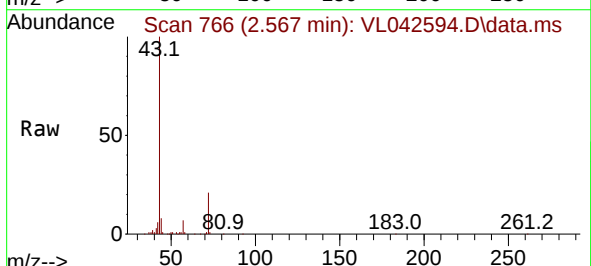
Acq: 29 May 2025 20:05

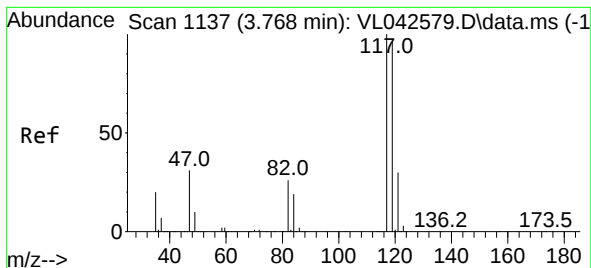
Tgt Ion: 43 Resp: 28702

Ion Ratio Lower Upper

43 100

72 21.4 17.7 26.5





#35

Carbon Tetrachloride

Concen: 0.074 ppbv

RT: 3.777 min Scan# 1137

Delta R.T. 0.010 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

SV3

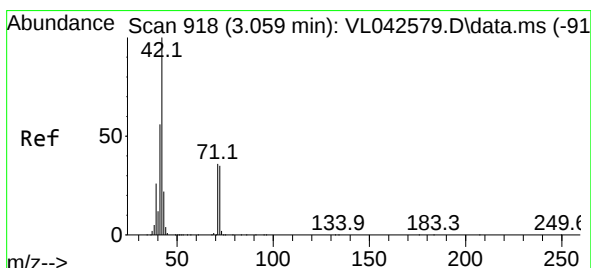
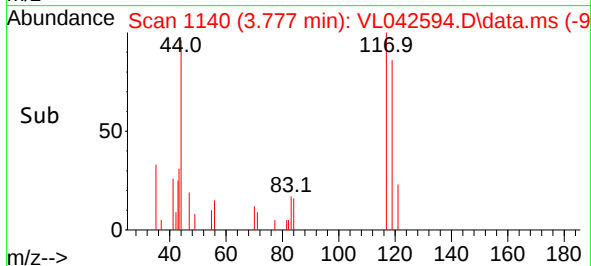
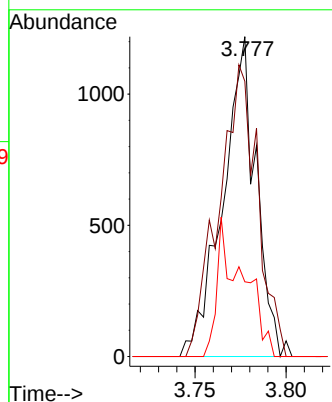
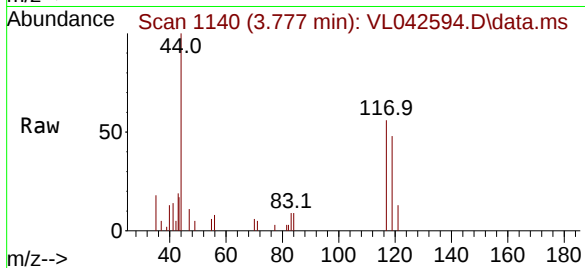
Tgt Ion:117 Resp: 1545

Ion Ratio Lower Upper

117 100

119 86.1 76.8 115.2

121 23.4 24.3 36.5#



#41

Tetrahydrofuran

Concen: 0.694 ppbv m

RT: 3.068 min Scan# 921

Delta R.T. 0.010 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

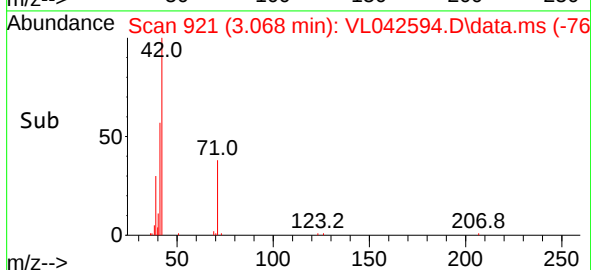
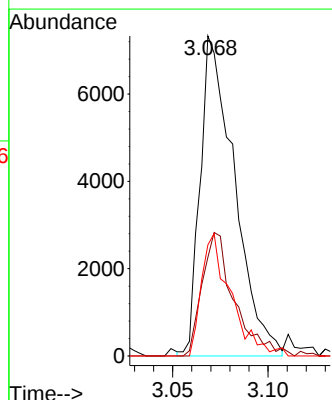
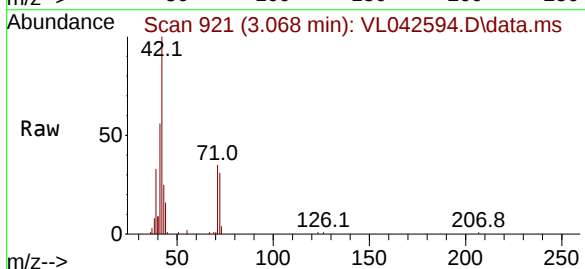
Tgt Ion: 42 Resp: 9145

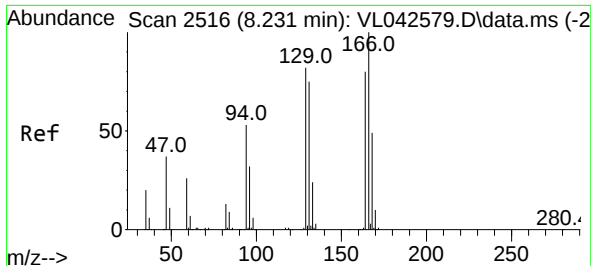
Ion Ratio Lower Upper

42 100

72 36.7 28.9 43.3

71 32.9 28.5 42.7

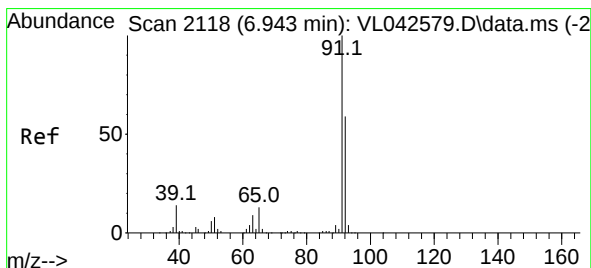
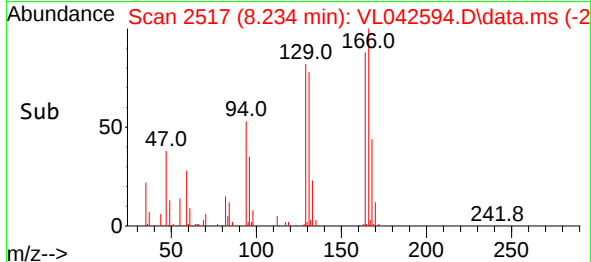
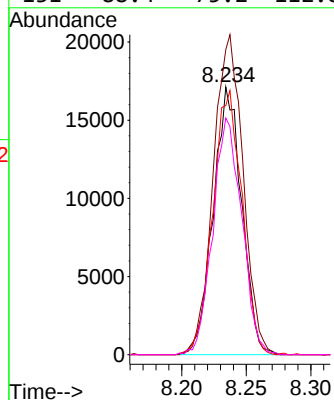
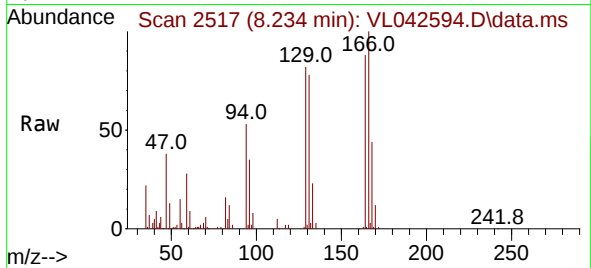




#52
Tetrachloroethene
Concen: 2.267 ppbv
RT: 8.234 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

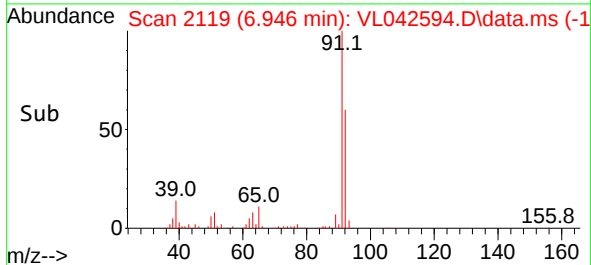
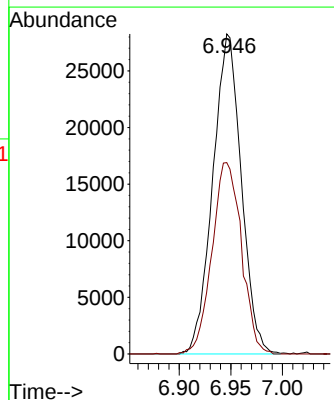
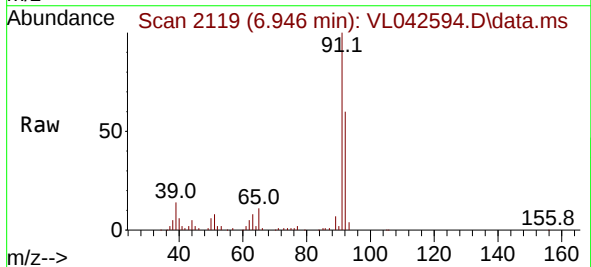
Instrument :
MSVOA_L
ClientSampleId :
SV3

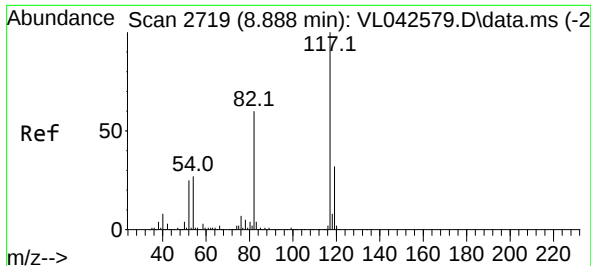
Tgt Ion:164 Resp: 26326
Ion Ratio Lower Upper
164 100
166 114.0 100.0 150.0
129 92.6 82.2 123.4
131 88.4 75.2 112.8



#53
Toluene
Concen: 1.512 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion: 91 Resp: 54297
Ion Ratio Lower Upper
91 100
92 61.7 48.2 72.4

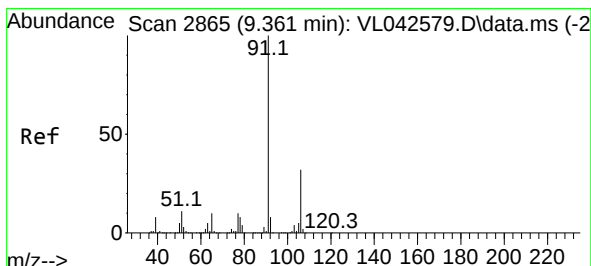
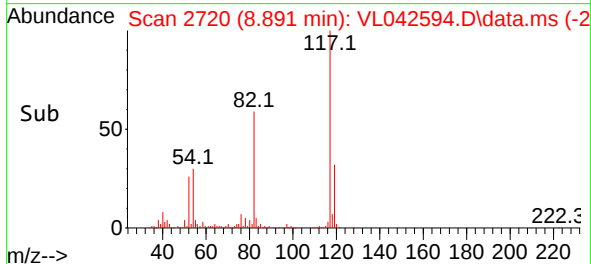
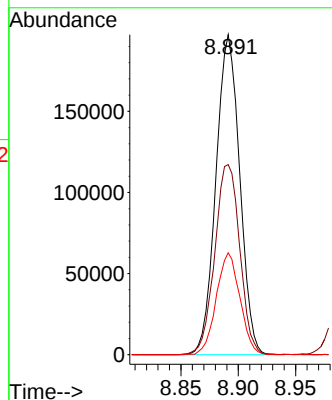
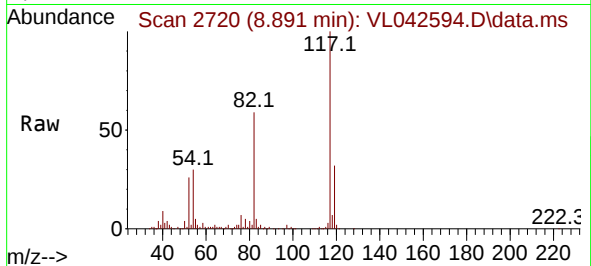




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

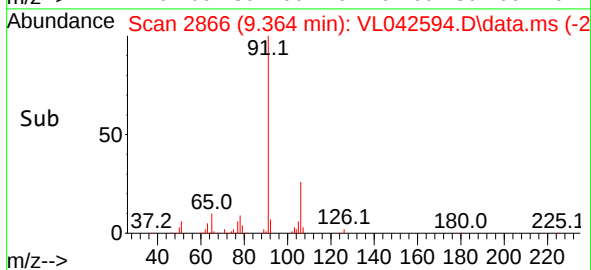
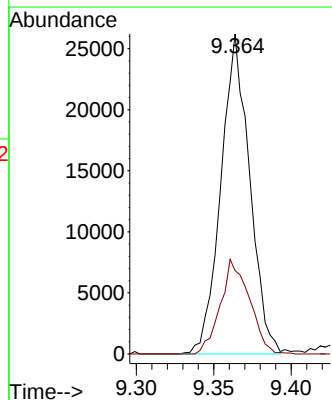
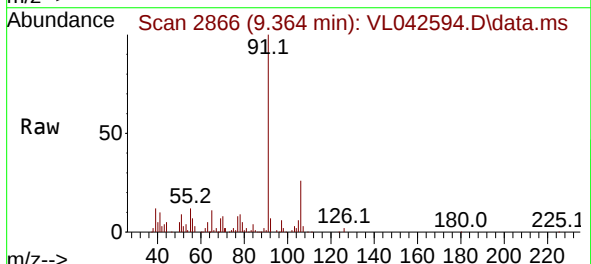
Instrument :
MSVOA_L
ClientSampleId :
SV3

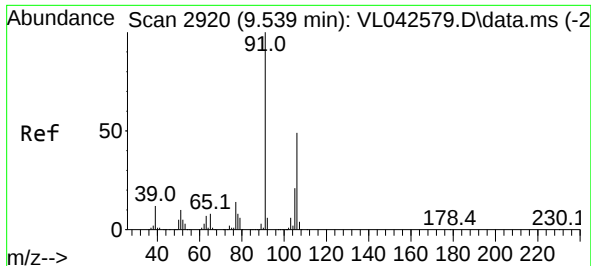
Tgt Ion:117 Resp: 284413
Ion Ratio Lower Upper
117 100
82 62.5 51.2 76.8
119 31.6 26.3 39.5



#58
Ethyl Benzene
Concen: 0.701 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion: 91 Resp: 33818
Ion Ratio Lower Upper
91 100
106 26.1 25.9 38.9





#59

m/p-Xylene

Concen: 1.603 ppbv

RT: 9.539 min Scan# 2920

Delta R.T. -0.000 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

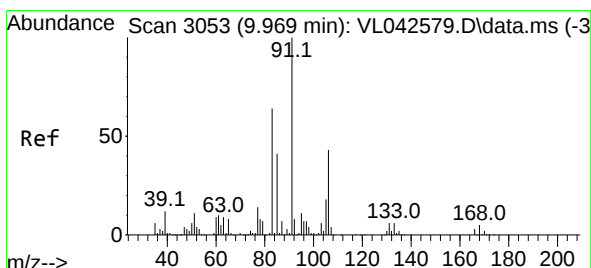
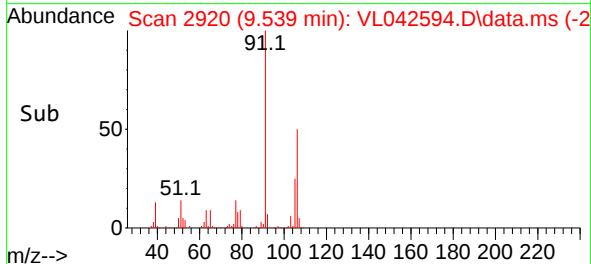
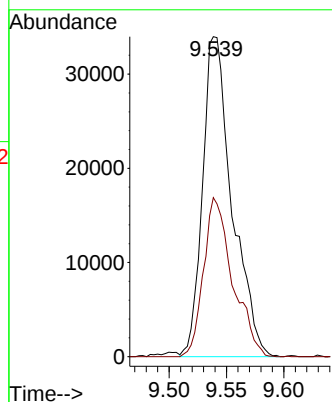
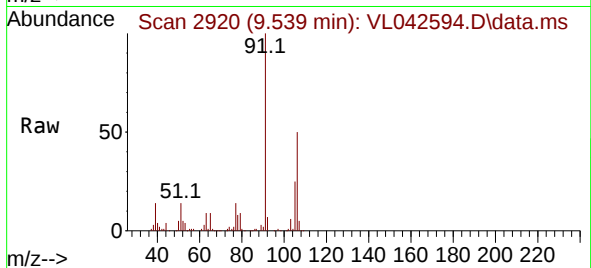
SV3

Tgt Ion: 91 Resp: 60849

Ion Ratio Lower Upper

91 100

106 49.0 38.8 58.2



#60

o-Xylene

Concen: 0.807 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.003 min

Lab File: VL042594.D

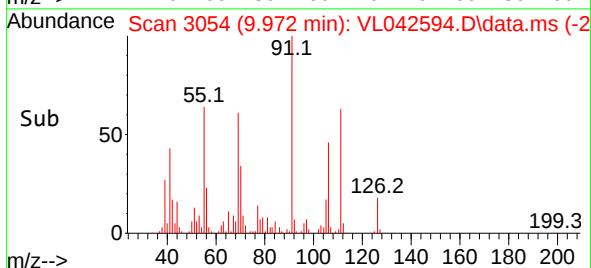
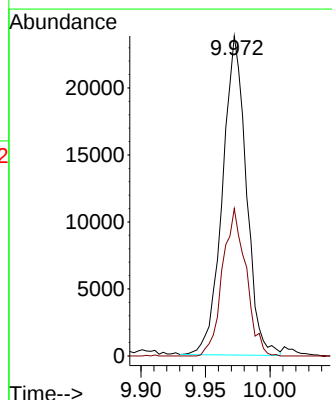
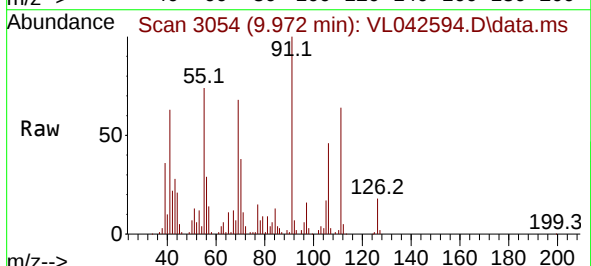
Acq: 29 May 2025 20:05

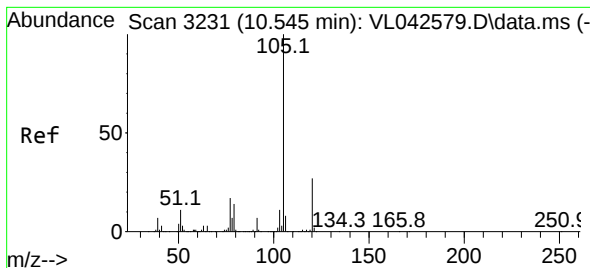
Tgt Ion: 91 Resp: 30572

Ion Ratio Lower Upper

91 100

106 45.5 22.9 68.5





#62

Isopropylbenzene

Concen: 0.266 ppbv

RT: 10.548 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

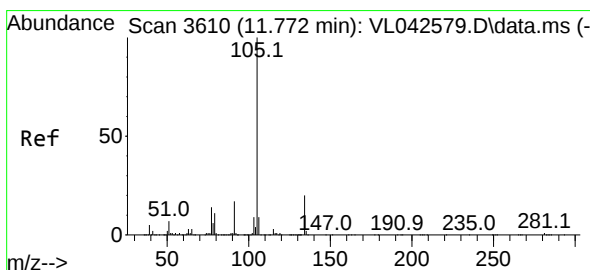
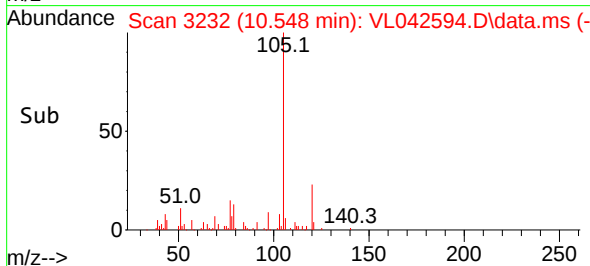
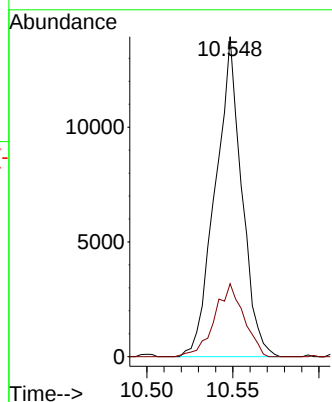
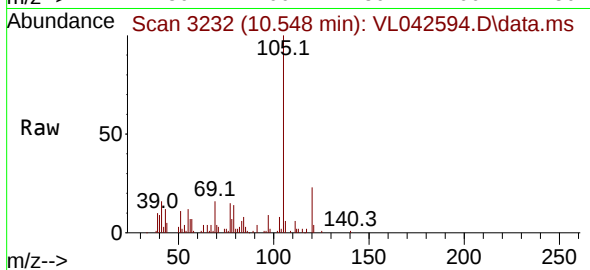
SV3

Tgt Ion:105 Resp: 14864

Ion Ratio Lower Upper

105 100

120 25.3 20.9 31.3



#67

sec-Butylbenzene

Concen: 0.255 ppbv m

RT: 11.775 min Scan# 3611

Delta R.T. 0.003 min

Lab File: VL042594.D

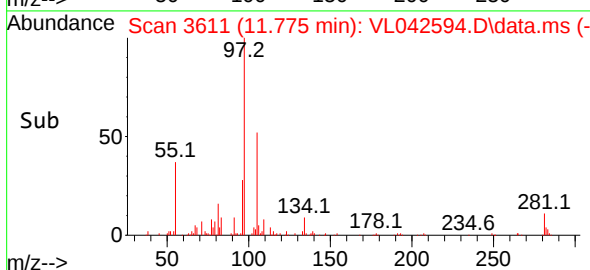
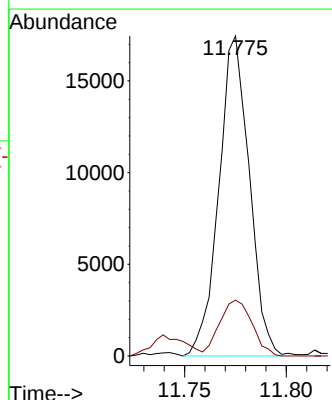
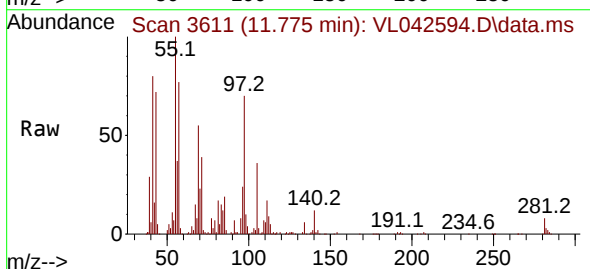
Acq: 29 May 2025 20:05

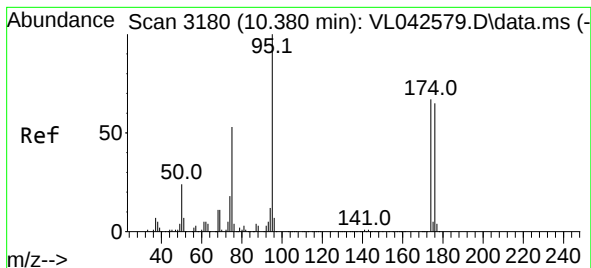
Tgt Ion:105 Resp: 18180

Ion Ratio Lower Upper

105 100

134 14.1 15.8 23.6#

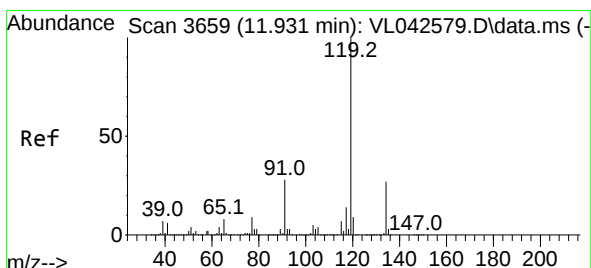
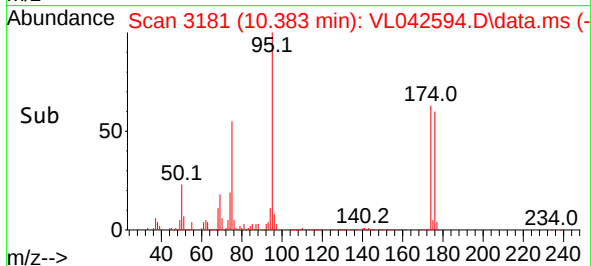
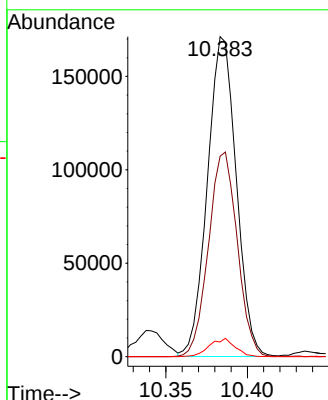
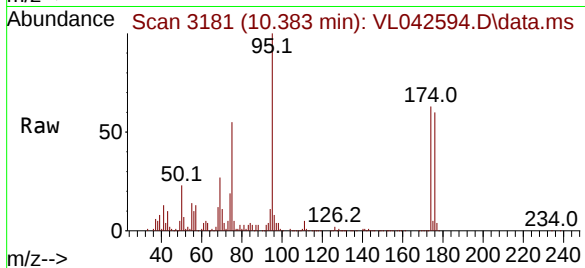




#68
1-Bromo-4-Fluorobenzene
Concen: 9.888 ppbv
RT: 10.383 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

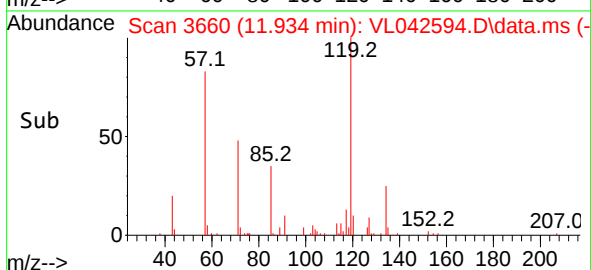
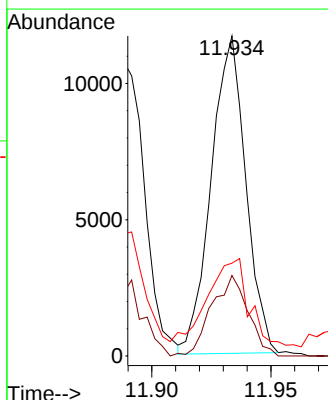
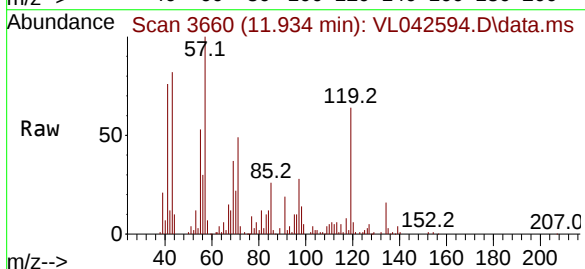
Instrument :
MSVOA_L
ClientSampleId :
SV3

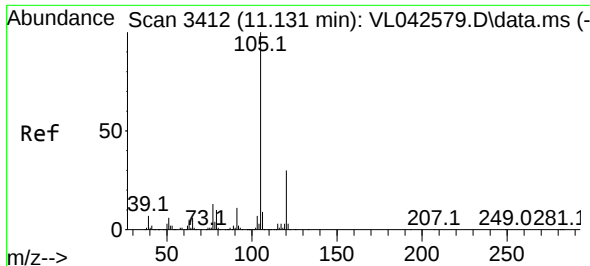
Tgt Ion: 95 Resp: 210817
Ion Ratio Lower Upper
95 100
174 63.8 53.1 79.7
175 5.1 4.2 6.2



#69
p-Isopropyltoluene
Concen: 0.197 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion: 119 Resp: 11768
Ion Ratio Lower Upper
119 100
134 26.6 21.1 31.7
91 30.7 21.9 32.9

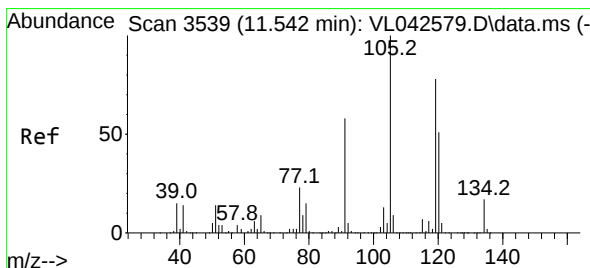
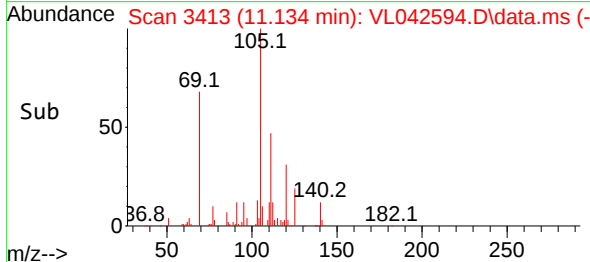
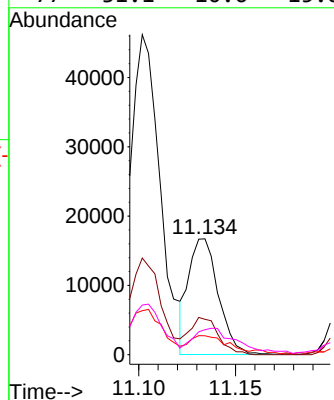
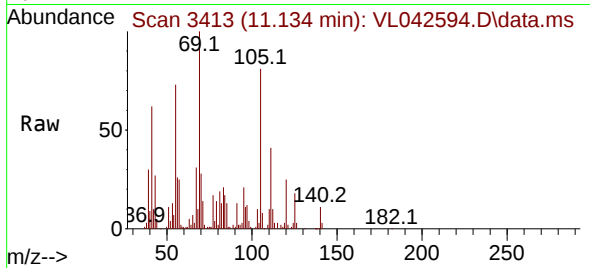




#72
4-Ethyltoluene
Concen: 0.376 ppbv
RT: 11.134 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

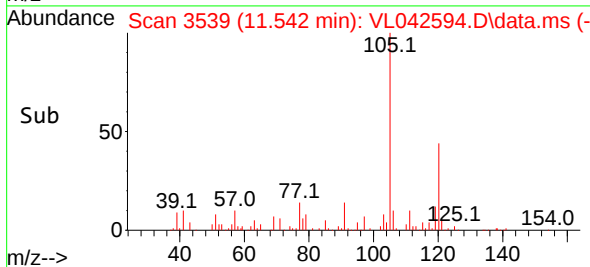
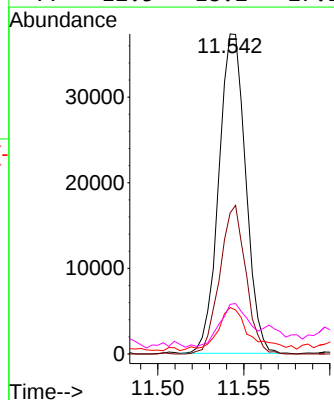
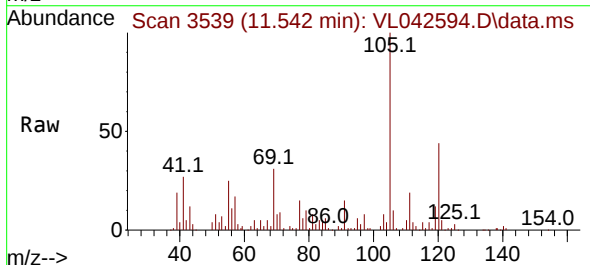
Instrument :
MSVOA_1
ClientSampleId :
SV3

Tgt Ion:105	Resp:	17745
Ion Ratio	Lower	Upper
105	100	
120	0.0	24.6
91	0.0	9.6
77	31.1	10.6



#74
1,2,4-Trimethylbenzene
Concen: 0.936 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion:105	Resp:	40578
Ion Ratio	Lower	Upper
105	100	
120	44.2	40.8
91	13.5	46.8
77	12.5	18.2





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q2124 SAS No.: Q2124 SDG No.: Q2124
 Instrument ID: MSVOA_L Calibration Date(s): 05/29/2025 05/29/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:24
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042579.D		RRF002 = VL042580.D		RRF001 = VL042581.D		
		RRF0.5 = VL042582.D		RRF0.1 = VL042583.D		RRF.03 = VL042584.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.437	0.468	0.487	0.529	0.465	0.675	0.496	17.7
Heptane	1.777	1.981	2.082	2.079			1.921	9.4
1,1-Dichloroethene	0.377	0.437	0.451	0.451			0.416	10.1
Cyclohexane	1.146	1.288	1.363	1.318			1.242	9.4
cis-1,2-Dichloroethene	1.271	1.465	1.461	1.419			1.370	8
1,1,1-Trichloroethane	1.794	2.029	2.043	2.004	2.083	2.207	1.990	7.9
2,2,4-Trimethylpentane	1.522	1.765	1.830	1.811			1.684	9.7
Benzene	0.900	1.027	1.052	1.051			0.985	8.2
Trichloroethene	0.376	0.438	0.455	0.468	0.432	0.389	0.419	9.3
Toluene	1.054	1.197	1.190	1.210			1.138	7.4
Tetrachloroethene	0.333	0.390	0.383	0.391	0.407	0.351	0.368	8.9
Ethyl Benzene	1.547	1.833	1.786	1.770			1.696	8.2
m/p-Xylene	1.212	1.431	1.412	1.411			1.335	8.5
o-Xylene	1.187	1.441	1.410	1.430			1.331	9.9
1,3,5-Trimethylbenzene	1.235	1.475	1.482	1.441			1.374	9.3
1,2,4-Trimethylbenzene	1.335	1.666	1.675	1.640			1.524	12.3
Naphthalene	1.384	1.785	1.634	1.366	1.088		1.437	16.9
1-Bromo-4-Fluorobenzene	0.744	0.741	0.751	0.755	0.751	0.752	0.750	0.7
Hexane	1.350	1.526	1.638	1.690			1.498	11.8

* 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.

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

Method File : VL052925AIR.M

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

Last Update : Fri May 30 02:01:56 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042584.D 0.1 =VL042583.D 0.5 =VL042582.D 1 =VL042581.D 2 =VL042580.D 10 =VL042579.D 15 =VL042585.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.257	1.353	1.300	1.135	1.101	1.229	8.78
3) Chlorodifluoro...			1.881	1.861	1.826	1.475	1.420	1.693	13.32
4) Chloromethane			0.502	0.529	0.507	0.461	0.434	0.487	7.85
5) T Vinyl Chloride	0.675	0.465	0.529	0.487	0.468	0.437	0.409	0.496	17.69
6) T Bromomethane			0.310	0.251	0.230	0.216	0.200	0.241	17.69
7) Chloroethane			0.214	0.212	0.198	0.175	0.164	0.193	11.60
8) T Dichlorotetra...			1.099	1.098	1.075	0.948	0.900	1.024	9.11
9) T Propene			0.710	0.728	0.722	0.650	0.599	0.682	8.18
10) T Heptane			2.079	2.082	1.981	1.777	1.688	1.921	9.37
11) T Trichlorofluor...			1.193	1.209	1.202	1.071	1.043	1.144	6.98
12) T 1,1,2-Trichlor...			0.903	0.980	0.951	0.838	0.818	0.898	7.79
13) Ethanol			0.114	0.095	0.092	0.058	0.047	0.081	33.96
14) T Bromoethene			0.359	0.346	0.362	0.317	0.304	0.338	7.71
15) T Acetone			1.404	1.484	1.299	0.928	0.908	1.205	22.39
16) T 1,3-Butadiene			0.649	0.636	0.597	0.491	0.480	0.571	14.07
17) tert-Butyl alc...			1.337	1.334	1.279	1.237	1.088	1.255	8.14
18) T 1,1-Dichloroet...			0.451	0.451	0.437	0.377	0.364	0.416	10.11
19) T Isopropyl Alcohol			0.825	0.782	0.742	0.659	0.593	0.720	13.03
20) T Methylene Chlo...			0.473	0.457	0.418	0.326	0.314	0.398	18.57
21) T Allyl Chloride			0.924	0.921	0.866	0.789	0.749	0.850	9.22
22) T trans-1,2-Dich...			0.496	0.517	0.466	0.427	0.418	0.465	9.21
23) T Vinyl Acetate			1.750	1.663	1.686	1.458	1.584	1.628	6.89
24) T 1,1-Dichloroet...			0.996	1.046	1.004	0.903	0.833	0.957	9.03
25) T Ethyl Acetate			3.496	3.585	3.412	3.054	2.934	3.296	8.67
26) T Hexane			1.690	1.638	1.526	1.350	1.286	1.498	11.76
27) T Carbon Disulfide			1.174	1.267	1.198	1.069	1.040	1.150	8.16
28) T Methyl tert-Bu...			0.664	0.693	0.621	0.550	0.511	0.608	12.59
29) T Chloroform			2.099	2.120	2.034	1.755	1.731	1.948	9.74
30) T Cyclohexane			1.318	1.363	1.288	1.146	1.092	1.242	9.38
31) T cis-1,2-Dichlo...			1.419	1.461	1.465	1.271	1.235	1.370	7.96
32) T 1,1,1-Trichlor...	2.207	2.083	2.004	2.043	2.029	1.794	1.771	1.990	7.86

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35) T Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36) T Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37) T 1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38) T Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39) T 1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL052925AIR.M											
40)	T	1,4-Dioxane			0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran			0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...			0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...			0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...			1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...			0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...			0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...			0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...			0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform			0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...			1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone			0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351	0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene			1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane		0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene			1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene			1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene			1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene			1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene			0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene			2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054	0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene			0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene			1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride			0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene			2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752	0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...			2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene			2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene			1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene			1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...			1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...			1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...			1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...			0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...			1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...			0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene		1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...			0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...			0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 30 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	212758	9.929	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 30 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: May 30 01:17:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	104930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	210508	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv	99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv	98
4) Chloromethane	1.534	50	10641	2.084	ppbv	98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv	98
6) Bromomethane	1.670	94	4819	1.903	ppbv	83
7) Chloroethane	1.706	64	4162	2.059	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv	98
9) Propene	1.483	41	15155	2.119	ppbv	96
10) Heptane	4.988	43	41577	2.060	ppbv	97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv	99
13) Ethanol	1.722	45	1925m	2.411	ppbv	
14) Bromoethene	1.784	108	7607	2.146	ppbv #	94
15) Acetone	1.839	43	27254	2.156	ppbv	100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv	95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv	96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv	95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv #	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv	95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv	97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv	98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv	99
26) Hexane	2.829	57	32018	2.037	ppbv	97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv #	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv #	90
29) Chloroform	2.852	83	42693	2.089	ppbv	93
30) Cyclohexane	3.858	84	27030	2.075	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv	93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv	99
34) 2-Butanone	2.564	43	46279	2.093	ppbv	100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv	95
36) Benzene	3.661	78	63709	2.086	ppbv	96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv	97
38) Trichloroethene	4.554	130	27139	2.075	ppbv	95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv	98
40) 1,4-Dioxane	4.603	88	10426m	2.173	ppbv	
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv	96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv	90
43) Methyl Methacrylate	4.894	69	25156m	2.126	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv	100
45) t-1,3-Dichloropropene	6.432	75	28273m	2.085	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: May 30 01:17:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv	94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv	99
49) Bromoform	9.487	173	34270	2.122	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv	99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv #	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv	95
53) Toluene	6.940	91	74240	2.104	ppbv	99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv	97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv	95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv	96
59) m/p-Xylene	9.558	91	162694m	4.288	ppbv	
60) o-Xylene	9.969	91	81886	2.164	ppbv	97
61) Styrene	9.879	104	38542	2.154	ppbv	99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv	99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv	100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv	99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv	98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv	99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv	99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv	100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv	99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv	98
79) Naphthalene	13.517	128	101451	2.494	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: May 30 01:18:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	209886	10.021	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv	95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv	99
4) Chloromethane	1.531	50	5387	1.087	ppbv	89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv	99
6) Bromomethane	1.667	94	2560	1.041	ppbv	99
7) Chloroethane	1.703	64	2164	1.103	ppbv #	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv	98
9) Propene	1.483	41	7413	1.068	ppbv	97
10) Heptane	4.981	43	21213m	1.083	ppbv	
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv	98
13) Ethanol	1.722	45	968	1.249	ppbv #	61
14) Bromoethene	1.780	108	3524	1.024	ppbv #	97
15) Acetone	1.835	43	15114	1.232	ppbv	98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv	92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv #	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv	85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv #	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv	98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv #	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv	98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv #	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv	99
26) Hexane	2.826	57	16686	1.094	ppbv	99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv #	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv	93
29) Chloroform	2.849	83	21594	1.088	ppbv	100
30) Cyclohexane	3.858	84	13889	1.098	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv	89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv	97
34) 2-Butanone	2.560	43	23148	1.057	ppbv	99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv	89
36) Benzene	3.658	78	32310	1.068	ppbv	99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv	97
38) Trichloroethene	4.551	130	13969	1.078	ppbv	98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv	87
40) 1,4-Dioxane	4.600	88	5479m	1.153	ppbv	
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv	99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv #	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	56202m	1.087	ppbv	
45) t-1,3-Dichloropropene	6.415	75	13988m	1.041	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: May 30 01:18:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	17453m	1.037	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	12328m	1.065	ppbv	
48) Dibromochloromethane	7.393	129	19719	1.064	ppbv	99
49) Bromoform	9.484	173	15937	0.996	ppbv	96
50) 4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv	99
51) 2-Hexanone	7.445	43	25135	1.043	ppbv #	96
52) Tetrachloroethene	8.228	164	11770	1.041	ppbv	97
53) Toluene	6.936	91	36540	1.045	ppbv	97
54) 1,2-Dibromoethane	7.658	107	18114	1.055	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv	95
57) Chlorobenzene	8.927	112	28714	1.058	ppbv	100
58) Ethyl Benzene	9.357	91	49899	1.053	ppbv	96
59) m/p-Xylene	9.535	91	78893m	2.115	ppbv	
60) o-Xylene	9.966	91	39398	1.059	ppbv	99
61) Styrene	9.875	104	18371	1.045	ppbv	100
62) Isopropylbenzene	10.542	105	59492	1.083	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv	99
64) n-propylbenzene	10.992	120	15107	1.026	ppbv	90
65) tert-Butylbenzene	11.532	119	53720	1.077	ppbv	99
66) Benzyl Chloride	11.617	91	6617	1.029	ppbv	98
67) sec-Butylbenzene	11.769	105	76631	1.093	ppbv	100
69) p-Isopropyltoluene	11.927	119	62849	1.070	ppbv	100
70) n-Butylbenzene	12.283	91	63350	1.093	ppbv	99
71) 2-Chlorotoluene	10.901	91	45250	1.080	ppbv	99
72) 4-Ethyltoluene	11.128	105	50214	1.083	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv #	90
75) 1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv	98
79) Naphthalene	13.517	128	45649	1.141	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv	97

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

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv	98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv	96
4) Chloromethane	1.531	50	2584	0.516	ppbv	97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv	96
6) Bromomethane	1.667	94	1594	0.642	ppbv #	74
7) Chloroethane	1.706	64	1099	0.554	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv	97
9) Propene	1.483	41	3653	0.521	ppbv	87
10) Heptane	4.988	43	10697	0.540	ppbv	98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv	89
13) Ethanol	1.722	45	586m	0.748	ppbv	
14) Bromoethene	1.781	108	1849	0.532	ppbv #	84
15) Acetone	1.836	43	7225	0.583	ppbv	95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv	89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv #	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv #	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv #	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv	93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv	96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv	93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv #	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv #	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv	98
26) Hexane	2.826	57	8694	0.564	ppbv	96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv #	81
29) Chloroform	2.849	83	10798	0.539	ppbv	98
30) Cyclohexane	3.855	84	6784m	0.531	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv	98
34) 2-Butanone	2.564	43	11569	0.533	ppbv	99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv	92
36) Benzene	3.661	78	16000	0.533	ppbv	95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv	98
38) Trichloroethene	4.554	130	7126	0.555	ppbv	92
39) 1,2-Dichloropropane	4.318	63	6317m	0.570	ppbv	
40) 1,4-Dioxane	4.609	88	2618m	0.555	ppbv	
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv	96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv	94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	8637m	0.518	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	6189m	0.539	ppbv	
48) Dibromochloromethane	7.399	129	9133m	0.497	ppbv	
49) Bromoform	9.484	173	7974	0.503	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	15782m	0.522	ppbv	
51) 2-Hexanone	7.451	43	11458	0.479	ppbv #	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv	87
53) Toluene	6.940	91	18429	0.532	ppbv	100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv	89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv	89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv	88
59) m/p-Xylene	9.555	91	38955m	1.057	ppbv	
60) o-Xylene	9.966	91	19745	0.537	ppbv	99
61) Styrene	9.875	104	8639	0.497	ppbv	99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv	97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv	97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv	99
66) Benzyl Chloride	11.614	91	2753m	0.433	ppbv	
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv	98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv	99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv	98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv	100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv	97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv	86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv #	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv	97
79) Naphthalene	13.517	128	18853	0.477	ppbv	96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042583.D
 Acq On : 29 May 2025 13:19
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

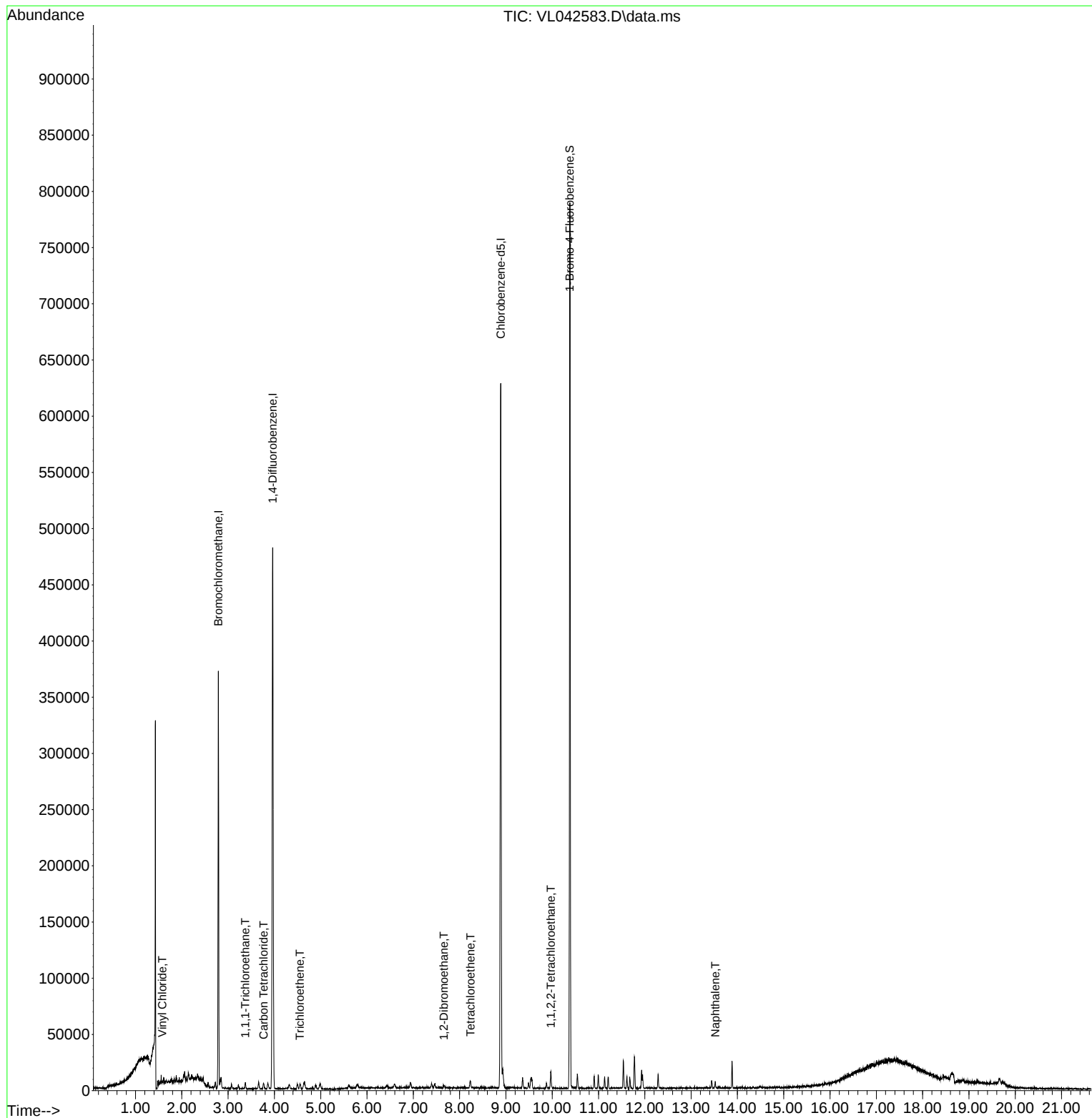
Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
38) Trichloroethene	4.548	130	1305m	0.102	ppbv	
52) Tetrachloroethene	8.238	164	1230m	0.111	ppbv	
54) 1,2-Dibromoethane	7.658	107	1737m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv	96
79) Naphthalene	13.523	128	2980m	0.076	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042584.D
 Acq On : 29 May 2025 13:51
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: May 30 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

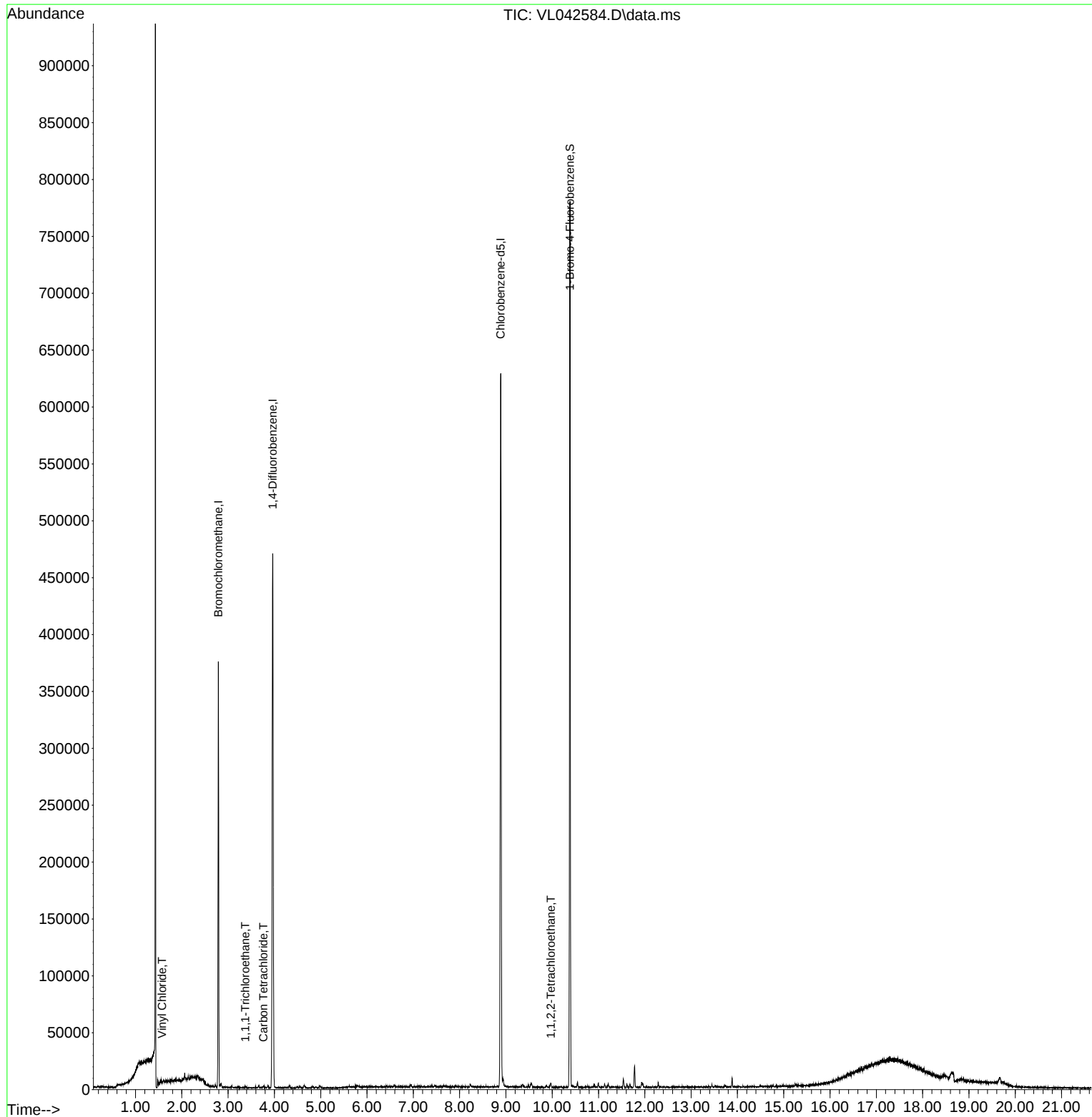
Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.577	62	209	0.041	ppbv #	77
32) 1,1,1-Trichloroethane	3.373	97	683m	0.034	ppbv	
35) Carbon Tetrachloride	3.764	117	623m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv #	82

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: May 30 01:21:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	207170	10.053	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv 98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv 99
4) Chloromethane	1.534	50	67662	13.380	ppbv 99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv 98
6) Bromomethane	1.667	94	31141	12.420	ppbv 100
7) Chloroethane	1.706	64	25591	12.785	ppbv 100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv 99
9) Propene	1.483	41	93357	13.181	ppbv 97
10) Heptane	4.988	43	263111	13.165	ppbv 100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv 99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv 99
13) Ethanol	1.722	45	7390m	9.346	ppbv
14) Bromoethene	1.784	108	47382	13.501	ppbv 99
15) Acetone	1.835	43	141460	11.302	ppbv 98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv 100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv 100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv 99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv 98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv 97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv 100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv 97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv 99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv 99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv 99
26) Hexane	2.829	57	200386	12.876	ppbv 99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv 96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv 100
29) Chloroform	2.852	83	269752	13.328	ppbv 98
30) Cyclohexane	3.861	84	170261	13.196	ppbv 99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv 98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv 99
34) 2-Butanone	2.560	43	294628	13.689	ppbv 99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv 98
36) Benzene	3.661	78	404641	13.615	ppbv 99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv 100
38) Trichloroethene	4.551	130	168824	13.263	ppbv 91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv 98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv # 98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv 99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv 96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv 99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv 99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv 95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

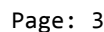
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: May 30 01:21:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.561	91	996602m	27.151	ppbv	
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

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

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	203743	9.852	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	5315m	6.387	ppbv	
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	125588m	9.538	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48) Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49) Bromoform	9.493	173	152725	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51) 2-Hexanone	7.444	43	228036	9.655	ppbv	98
52) Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53) Toluene	6.943	91	319640	9.329	ppbv	99
54) 1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57) Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58) Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59) m/p-Xylene	9.558	91	676743m	18.377	ppbv	
60) o-Xylene	9.972	91	333107	9.069	ppbv	100
61) Styrene	9.878	104	163167	9.396	ppbv	100
62) Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64) n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65) tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66) Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67) sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69) p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70) n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71) 2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72) 4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79) Naphthalene	13.516	128	383192	9.666	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	100	0.00
2 T	Dichlorodifluoromethane	1.229	1.125	8.5	99	0.00
3	Chlorodifluoromethane	1.693	1.465	13.5	99	0.00
4	Chloromethane	0.487	0.449	7.8	97	0.00
5 T	Vinyl Chloride	0.496	0.429	13.5	98	0.00
6 T	Bromomethane	0.241	0.204	15.4	94	0.00
7	Chloroethane	0.193	0.165	14.5	94	0.00
8 T	Dichlorotetrafluoroethane	1.024	0.955	6.7	100	0.00
9 T	Propene	0.682	0.592	13.2	91	0.00
10 T	Heptane	1.921	1.749	9.0	98	0.00
11 T	Trichlorofluoromethane	1.144	1.085	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	0.883	1.7	105	0.00
13	Ethanol	0.081	0.052	35.8#	89	0.00
14 T	Bromoethene	0.338	0.311	8.0	98	0.00
15 T	Acetone	1.205	0.915	24.1	98	0.00
16 T	1,3-Butadiene	0.571	0.503	11.9	102	0.00
17	tert-Butyl alcohol	1.255	1.206	3.9	97	0.00
18 T	1,1-Dichloroethene	0.416	0.392	5.8	104	0.00
19 T	Isopropyl Alcohol	0.720	0.641	11.0	97	0.00
20 T	Methylene Chloride	0.398	0.336	15.6	102	0.00
21 T	Allyl Chloride	0.850	0.790	7.1	100	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.453	2.6	106	0.00
23 T	Vinyl Acetate	1.628	1.645	-1.0	112	0.00
24 T	1,1-Dichloroethane	0.957	0.900	6.0	99	0.00
25 T	Ethyl Acetate	3.296	3.023	8.3	99	0.00
26 T	Hexane	1.498	1.331	11.1	98	0.00
27 T	Carbon Disulfide	1.150	1.120	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.565	7.1	102	0.00
29 T	Chloroform	1.948	1.764	9.4	100	0.00
30 T	Cyclohexane	1.242	1.142	8.1	99	0.00
31 T	cis-1,2-Dichloroethene	1.370	1.275	6.9	100	0.00
32 T	1,1,1-Trichloroethane	1.990	1.806	9.2	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34 T	2-Butanone	0.713	0.658	7.7	98	0.00
35 T	Carbon Tetrachloride	0.660	0.619	6.2	100	0.00
36 T	Benzene	0.985	0.911	7.5	99	0.00
37 T	1,2-Dichloroethane	0.489	0.468	4.3	102	0.00
38 T	Trichloroethene	0.419	0.382	8.8	99	0.00
39 T	1,2-Dichloropropane	0.364	0.327	10.2	97	0.00
40 T	1,4-Dioxane	0.163	0.152	6.7	98	0.00
41 T	Tetrahydrofuran	0.417	0.389	6.7	98	0.00
42 T	Bromodichloromethane	0.695	0.673	3.2	100	0.00
43	Methyl Methacrylate	0.382	0.360	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	1.684	1.532	9.0	98	0.00
45 T	t-1,3-Dichloropropene	0.437	0.417	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	0.548	0.521	4.9	97	0.00
47 T	1,1,2-Trichloroethane	0.377	0.343	9.0	98	0.00
48 T	Dibromochloromethane	0.603	0.567	6.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	0.521	0.507	2.7	98	0.00
50 T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51 T	2-Hexanone	0.784	0.757	3.4	95	0.00
52 T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53 T	Toluene	1.138	1.062	6.7	98	0.00
54 T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57 T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58 T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59 T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60 T	o-Xylene	1.331	1.207	9.3	98	0.00
61 T	Styrene	0.629	0.591	6.0	97	0.00
62	Isopropylbenzene	1.967	1.780	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64	n-propylbenzene	0.527	0.477	9.5	98	0.00
65	tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66 T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67	sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69	p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70	n-Butylbenzene	2.074	1.867	10.0	98	0.00
71	2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72 T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75 T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76 T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77 T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79 T	Naphthalene	1.437	1.389	3.3	97	0.00
80 T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	100	0.00
2 T	Dichlorodifluoromethane	10.000	9.156	8.4	99	0.00
3	Chlorodifluoromethane	10.000	8.658	13.4	99	0.00
4	Chloromethane	10.000	9.220	7.8	97	0.00
5 T	Vinyl Chloride	10.000	8.650	13.5	98	0.00
6 T	Bromomethane	10.000	8.455	15.4	94	0.00
7	Chloroethane	10.000	8.541	14.6	94	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.325	6.8	100	0.00
9 T	Propene	10.000	8.688	13.1	91	0.00
10 T	Heptane	10.000	9.102	9.0	98	0.00
11 T	Trichlorofluoromethane	10.000	9.484	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.839	1.6	105	0.00
13	Ethanol	10.000	6.387	36.1#	89	0.00
14 T	Bromoethene	10.000	9.215	7.9	98	0.00
15 T	Acetone	10.000	7.596	24.0	98	0.00
16 T	1,3-Butadiene	10.000	8.807	11.9	102	0.00
17	tert-Butyl alcohol	10.000	9.611	3.9	97	0.00
18 T	1,1-Dichloroethene	10.000	9.423	5.8	104	0.00
19 T	Isopropyl Alcohol	10.000	8.899	11.0	97	0.00
20 T	Methylene Chloride	10.000	8.444	15.6	102	0.00
21 T	Allyl Chloride	10.000	9.297	7.0	100	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.742	2.6	106	0.00
23 T	Vinyl Acetate	10.000	10.103	-1.0	112	0.00
24 T	1,1-Dichloroethane	10.000	9.408	5.9	99	0.00
25 T	Ethyl Acetate	10.000	9.171	8.3	99	0.00
26 T	Hexane	10.000	8.889	11.1	98	0.00
27 T	Carbon Disulfide	10.000	9.743	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.302	7.0	102	0.00
29 T	Chloroform	10.000	9.057	9.4	100	0.00
30 T	Cyclohexane	10.000	9.198	8.0	99	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.307	6.9	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.077	9.2	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	98	0.00
34 T	2-Butanone	10.000	9.233	7.7	98	0.00
35 T	Carbon Tetrachloride	10.000	9.374	6.3	100	0.00
36 T	Benzene	10.000	9.253	7.5	99	0.00
37 T	1,2-Dichloroethane	10.000	9.555	4.5	102	0.00
38 T	Trichloroethene	10.000	9.133	8.7	99	0.00
39 T	1,2-Dichloropropane	10.000	8.988	10.1	97	0.00
40 T	1,4-Dioxane	10.000	9.306	6.9	98	0.00
41 T	Tetrahydrofuran	10.000	9.309	6.9	98	0.00
42 T	Bromodichloromethane	10.000	9.676	3.2	100	0.00
43	Methyl Methacrylate	10.000	9.421	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.093	9.1	98	0.00
45 T	t-1,3-Dichloropropene	10.000	9.538	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.505	4.9	97	0.00
47 T	1,1,2-Trichloroethane	10.000	9.088	9.1	98	0.00
48 T	Dibromochloromethane	10.000	9.391	6.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	9.742	2.6	98	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.369	6.3	95	0.00
51 T	2-Hexanone	10.000	9.655	3.5	95	0.00
52 T	Tetrachloroethene	10.000	8.925	10.7	97	0.00
53 T	Toluene	10.000	9.329	6.7	98	0.00
54 T	1,2-Dibromoethane	10.000	9.364	6.4	99	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.199	8.0	96	0.00
57 T	Chlorobenzene	10.000	9.054	9.5	98	0.00
58 T	Ethyl Benzene	10.000	9.237	7.6	98	0.00
59 T	m/p-Xylene	20.000	18.377	8.1	98	0.02
60 T	o-Xylene	10.000	9.069	9.3	98	0.00
61 T	Styrene	10.000	9.396	6.0	97	0.00
62	Isopropylbenzene	10.000	9.051	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.749	12.5	99	0.00
64	n-propylbenzene	10.000	9.054	9.5	98	0.00
65	tert-Butylbenzene	10.000	8.758	12.4	96	0.00
66 T	Benzyl Chloride	10.000	9.435	5.6	87	0.00
67	sec-Butylbenzene	10.000	8.781	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.852	1.5	96	0.00
69	p-Isopropyltoluene	10.000	8.844	11.6	96	0.00
70	n-Butylbenzene	10.000	8.998	10.0	98	0.00
71	2-Chlorotoluene	10.000	9.119	8.8	98	0.00
72 T	4-Ethyltoluene	10.000	9.012	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.131	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.842	11.6	97	0.00
75 T	1,3-Dichlorobenzene	10.000	8.886	11.1	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.034	9.7	98	0.00
77 T	1,2-Dichlorobenzene	10.000	8.754	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.977	20.2	98	0.00
79 T	Naphthalene	10.000	9.666	3.3	97	0.00
80 T	Naphthalene,2-methyl-	10.000	10.853	-8.5	95	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.978	10.2	95	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.: Q2124 SAS No.: Q2124 SDG No.: Q2124

Instrument ID: MSVOA_L Calibration Date/Time: 05/29/2025 11:09

Lab File ID: VL042579.D Init. Calib. Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:24

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.496	0.437		-11.9	
Heptane	1.921	1.777		-7.5	
1,1-Dichloroethene	0.416	0.377		-9.38	
Cyclohexane	1.242	1.146		-7.73	
cis-1,2-Dichloroethene	1.370	1.271		-7.23	
1,1,1-Trichloroethane	1.990	1.794		-9.85	
2,2,4-Trimethylpentane	1.684	1.522		-9.62	
Benzene	0.985	0.900		-8.63	
Trichloroethene	0.419	0.376		-10.26	
Toluene	1.138	1.054		-7.38	
Tetrachloroethene	0.368	0.333		-9.51	
Ethyl Benzene	1.696	1.547		-8.78	
m/p-Xylene	1.335	1.212		-9.21	
o-Xylene	1.331	1.187		-10.82	
1,3,5-Trimethylbenzene	1.374	1.235		-10.12	
1,2,4-Trimethylbenzene	1.524	1.335		-12.4	
Naphthalene	1.437	1.384		-3.76	
1-Bromo-4-Fluorobenzene	0.750	0.744		-0.8	
Hexane	1.498	1.350		-9.88	

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\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 30 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	212758	9.929	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 30 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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



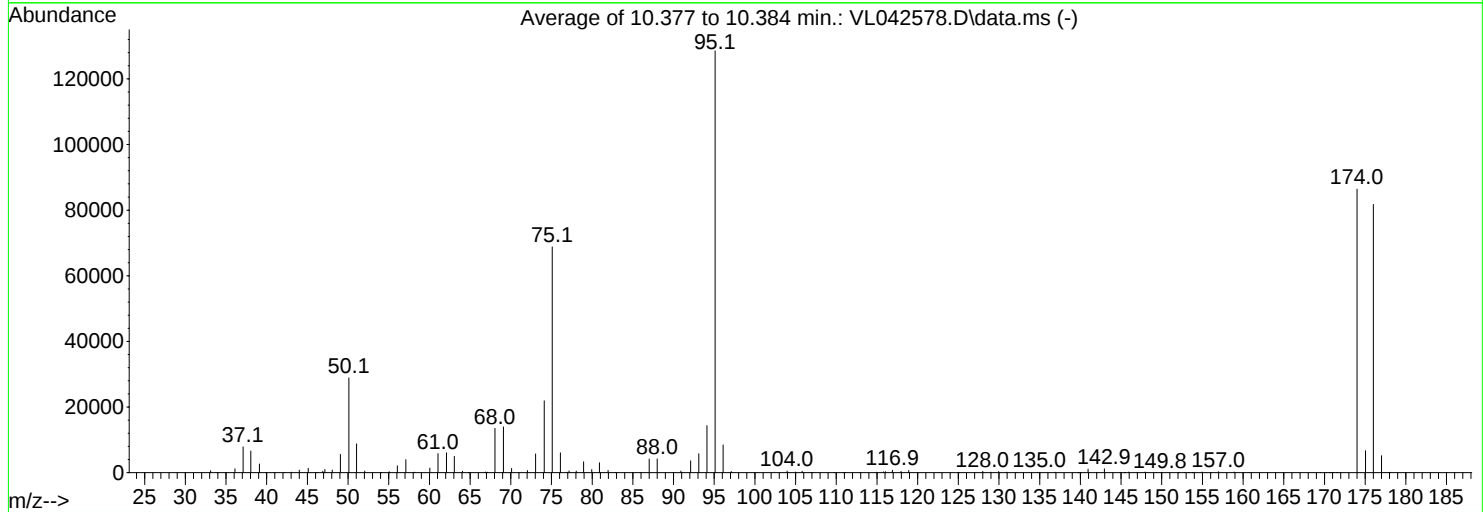
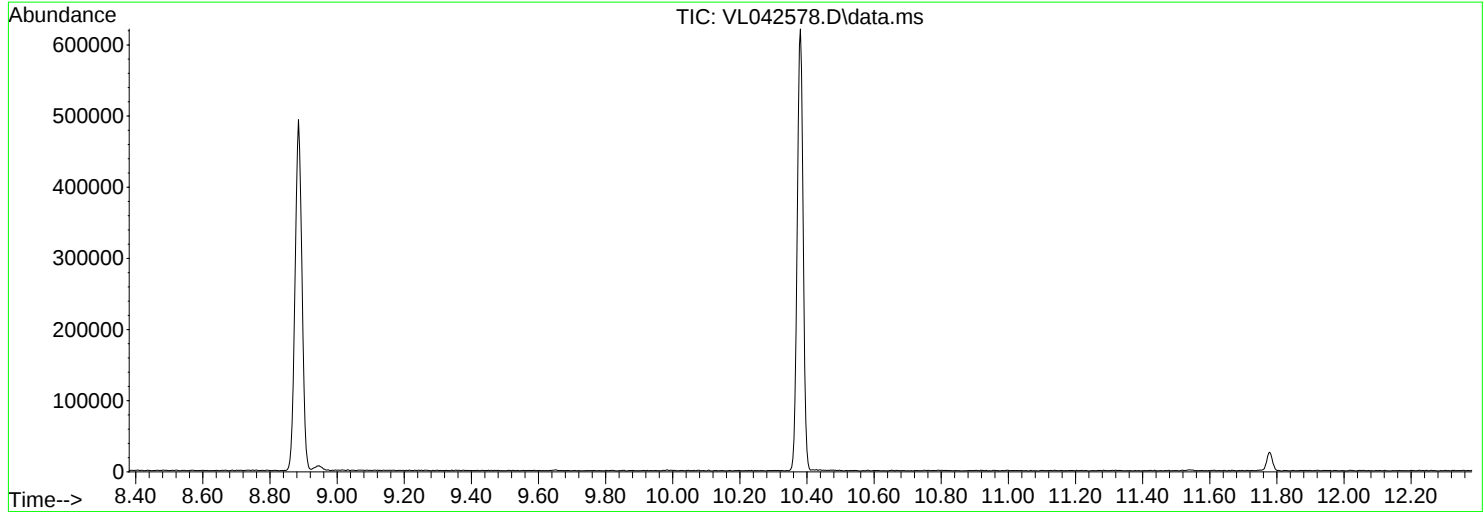
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042578.D
Acq On : 29 May 2025 08:05
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\VL052025AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed May 21 00:21:29 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.4	28861	PASS
75	95	30	66	53.5	68792	PASS
95	95	100	100	100.0	128557	PASS
96	95	5	9	6.6	8426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	86397	PASS
175	174	4	9	7.7	6664	PASS
176	174	93	101	94.6	81744	PASS
177	176	5	9	6.3	5154	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	604	45.10	1310	56.05	2107	68.05	1349
33.90	20	46.20	82	57.10	3938	69.10	1396
36.10	1179	46.90	454	58.15	159	70.10	125
37.10	7865	47.15	999	60.05	1394	71.00	7
38.05	6599	48.05	784	61.05	5793	72.05	616
39.10	2657	49.05	5570	62.10	6048	73.05	5702
39.90	81	50.10	28861	63.05	4979	74.10	21883
41.00	66	51.05	8796	64.05	430	75.10	68792
42.20	45	52.05	485	64.80	28	76.10	6072
43.05	164	54.00	17	66.90	188	76.90	143
44.00	762	55.05	314	67.10	147	77.15	541

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	512	93.10	5769	110.85	127	128.00	371
78.95	3322	94.10	14351	111.10	39	129.00	147
79.95	936	95.10	128557	112.95	118	129.95	325
80.90	3038	96.10	8426	114.90	160	130.95	149
81.95	666	97.10	324	115.80	234	132.10	57
82.85	69	103.95	507	116.05	275	134.80	45
85.90	102	105.00	185	116.90	719	135.00	127
87.00	4138	105.80	434	117.95	400	136.90	144
88.00	4195	106.80	76	118.90	638	139.70	25
90.90	504	107.00	24	122.65	40	140.10	50
92.10	3594	109.75	56	125.00	20	140.95	1056

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.05	103	152.80	86	170.90	53		
142.95	1152	153.30	25	171.10	116		
144.90	93	153.70	29	171.50	43		
145.10	33	154.95	214	171.65	64		
145.40	18	156.00	20	172.00	56		
145.95	182	157.00	303	174.00	86397		
147.00	65	158.90	220	175.05	6664		
147.95	210	160.80	92	176.00	81744		
149.35	45	169.50	60	177.00	5154		
149.80	42	170.20	51	177.90	98		
152.00	19	170.60	17	178.10	81		

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	Webster Ave Bronx, NY	Date Received:	
Client Sample ID:	VL0529ABL02	SDG No.:	Q2124
Lab Sample ID:	VL0529ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042588.D	1		05/29/25 16:50	VL052925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	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
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	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
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
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	103000		2.797			
540-36-3	1,4-Difluorobenzene	296000		3.971			
3114-55-4	Chlorobenzene-d5	265000		8.894			

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\VL052925\
 Data File : VL042588.D
 Acq On : 29 May 2025 16:50
 Operator : SY/MD
 Sample : VL0529ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABL02

Quant Time: May 30 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	102651	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	295997	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	264969	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.386	95	199114	10.025	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

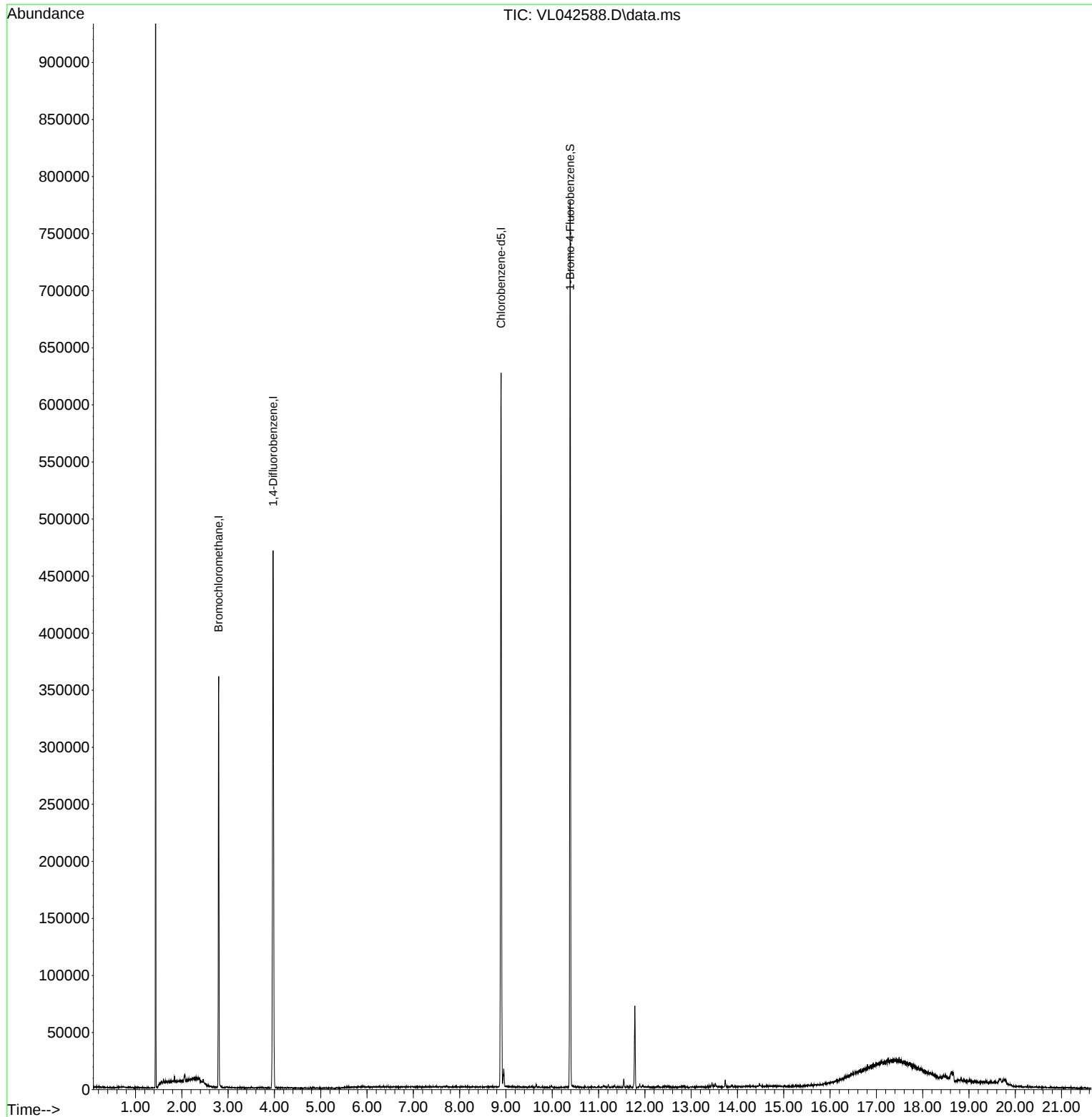
Target Compounds	Qvalue

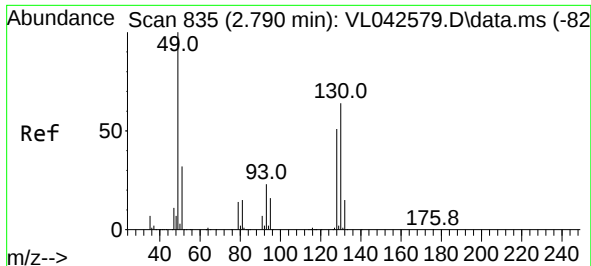
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042588.D
Acq On : 29 May 2025 16:50
Operator : SY/MD
Sample : VL0529ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABL02

Quant Time: May 30 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

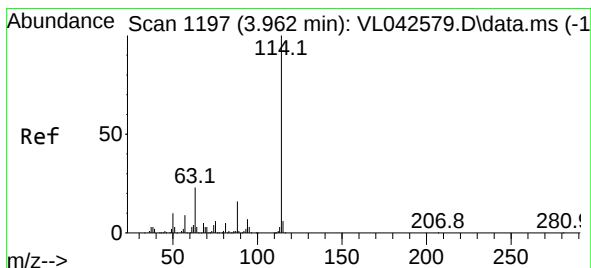
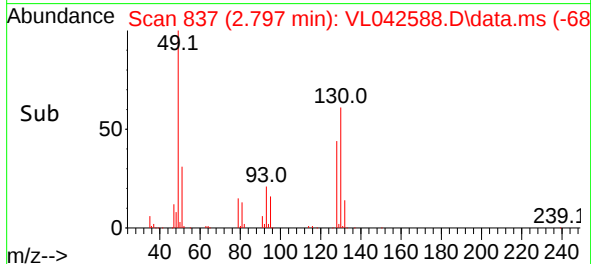
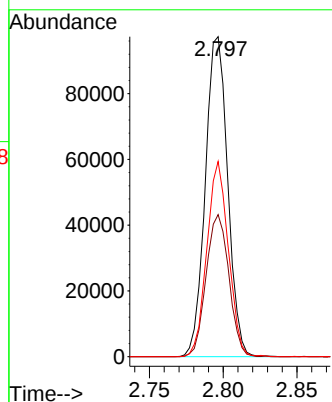
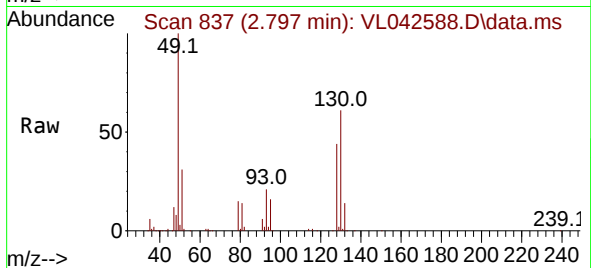




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042588.D
 Acq: 29 May 2025 16:50

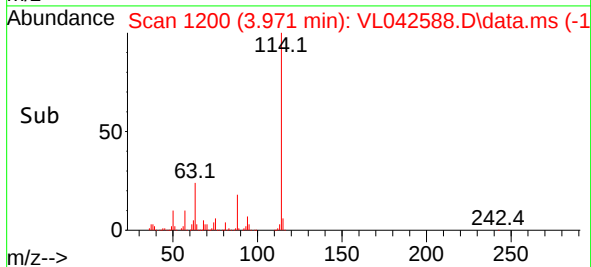
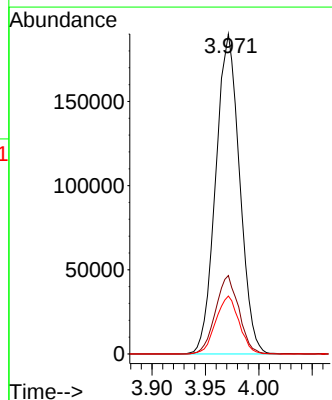
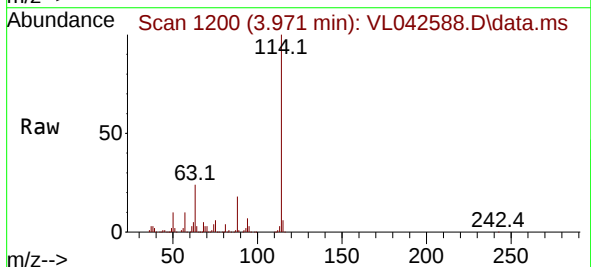
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABL02

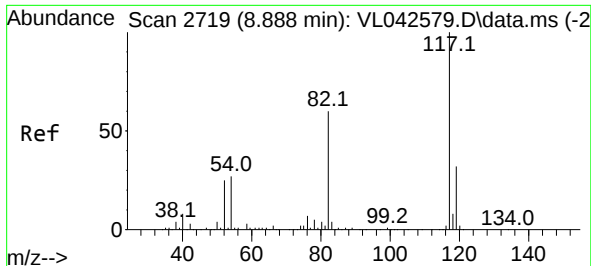
Tgt Ion: 49 Resp: 102651
 Ion Ratio Lower Upper
 49 100
 128 45.2 24.2 72.6
 130 58.5 30.4 91.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.971 min Scan# 1200
 Delta R.T. 0.010 min
 Lab File: VL042588.D
 Acq: 29 May 2025 16:50

Tgt Ion: 114 Resp: 295997
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.0 28.6
 88 17.6 13.6 20.4

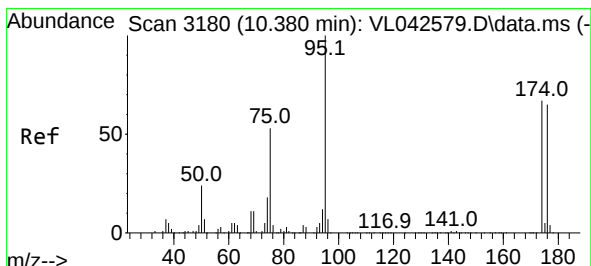
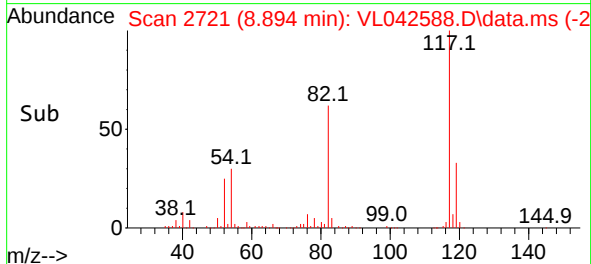
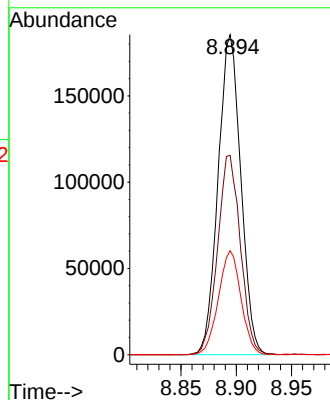
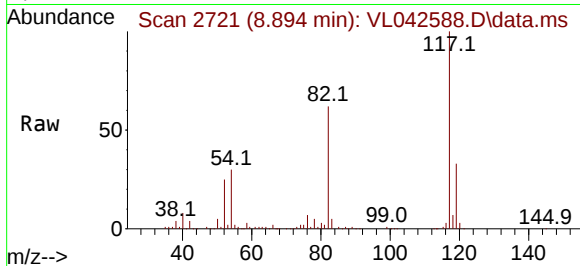




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042588.D
Acq: 29 May 2025 16:50

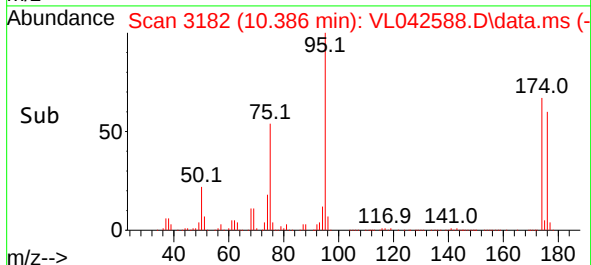
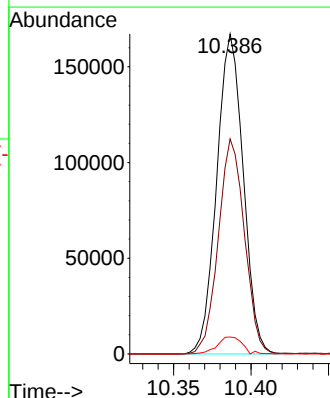
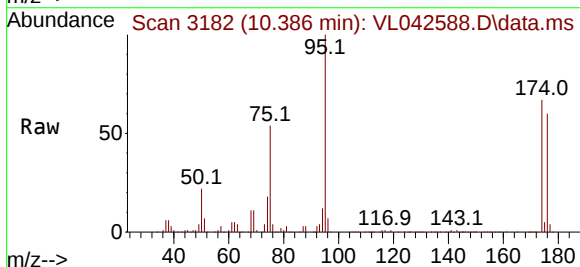
Instrument :
MSVOA_1
ClientSampleId :
VL0529ABL02

Tgt Ion:117 Resp: 264969
Ion Ratio Lower Upper
117 100
82 62.4 51.2 76.8
119 32.4 26.3 39.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.025 ppbv
RT: 10.386 min Scan# 3182
Delta R.T. 0.006 min
Lab File: VL042588.D
Acq: 29 May 2025 16:50

Tgt Ion: 95 Resp: 199114
Ion Ratio Lower Upper
95 100
174 66.7 53.1 79.7
175 5.1 4.2 6.2



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	Webster Ave Bronx, NY	Date Received:	
Client Sample ID:	VL0529ABS01	SDG No.:	Q2124
Lab Sample ID:	VL0529ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042591.D	1		05/29/25 18:27	VL052925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.20	21.0		0.030	0.080	ug/m3
142-82-5	Heptane	8.70	35.6		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.30	36.9		0.56	1.98	ug/m3
110-82-7	Cyclohexane	8.90	30.6		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	8.80	48.0		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.10	42.5		0.47	2.34	ug/m3
71-43-2	Benzene	9.10	29.1		0.29	1.60	ug/m3
79-01-6	Trichloroethene	9.00	48.4		0.11	0.16	ug/m3
108-88-3	Toluene	9.00	33.9		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	8.70	59.0		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	9.30	40.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	18.5	80.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.30	40.4		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.10	44.7		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.00	44.3		0.39	2.46	ug/m3
91-20-3	Naphthalene	9.60	50.3		0.42	0.52	ug/m3
110-54-3	Hexane	8.60	30.3		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	106000		2.797			
540-36-3	1,4-Difluorobenzene	305000		3.968			
3114-55-4	Chlorobenzene-d5	272000		8.895			

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\VL052925\
 Data File : VL042591.D
 Acq On : 29 May 2025 18:27
 Operator : SY/MD
 Sample : VL0529ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Quant Time: May 30 02:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	106381	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	304509	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	271830	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	207449	10.181	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	119309	9.125	ppbv	96
3) Chlorodifluoromethane	1.479	51	153681	8.535	ppbv	100
4) Chloromethane	1.538	50	46128	8.909	ppbv	100
5) Vinyl Chloride	1.583	62	43153	8.182	ppbv	99
6) Bromomethane	1.670	94	21392	8.333	ppbv	96
7) Chloroethane	1.709	64	17848	8.709	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	96521	8.860	ppbv	98
9) Propene	1.486	41	62215	8.579	ppbv	99
10) Heptane	4.991	43	178704	8.743	ppbv	100
11) Trichlorofluoromethane	1.881	101	118918	9.775	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	92153	9.647	ppbv	97
13) Ethanol	1.725	45	4884	5.651	ppbv	97
14) Bromoethene	1.787	108	32689	9.098	ppbv	98
15) Acetone	1.839	43	96944	7.565	ppbv	97
16) 1,3-Butadiene	1.612	39	51200	8.435	ppbv	96
17) tert-Butyl alcohol	2.046	59	124231	9.306	ppbv	99
18) 1,1-Dichloroethene	2.039	96	41243	9.315	ppbv	97
19) Isopropyl Alcohol	1.890	45	66825	8.724	ppbv	99
20) Methylene Chloride	2.065	84	34577	8.177	ppbv	97
21) Allyl Chloride	2.101	41	83677	9.255	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	46918	9.487	ppbv	96
23) Vinyl Acetate	2.470	43	176545	10.192	ppbv	98
24) 1,1-Dichloroethane	2.415	63	93494	9.188	ppbv	99
25) Ethyl Acetate	2.842	43	309151	8.816	ppbv	99
26) Hexane	2.836	57	136644	8.576	ppbv	99
27) Carbon Disulfide	2.156	76	115247	9.421	ppbv #	92
28) Methyl tert-Butyl Ether	2.447	73	59350	9.179	ppbv	97
29) Chloroform	2.855	83	186648	9.008	ppbv	98
30) Cyclohexane	3.868	84	117225	8.874	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	130230	8.935	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	185446	8.760	ppbv	99
34) 2-Butanone	2.564	43	201605	9.284	ppbv	99
35) Carbon Tetrachloride	3.774	117	185074	9.207	ppbv	99
36) Benzene	3.667	78	272433	9.085	ppbv	99
37) 1,2-Dichloroethane	3.227	62	142338	9.551	ppbv	99
38) Trichloroethene	4.564	130	114177	8.958	ppbv	97
39) 1,2-Dichloropropane	4.324	63	99778	8.998	ppbv	96
40) 1,4-Dioxane	4.600	88	44586	8.985	ppbv #	89
41) Tetrahydrofuran	3.062	42	114785	9.030	ppbv	97
42) Bromodichloromethane	4.502	83	203990	9.637	ppbv	96
43) Methyl Methacrylate	4.894	69	108252	9.301	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	469200	9.148	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	124105	9.319	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042591.D
 Acq On : 29 May 2025 18:27
 Operator : SY/MD
 Sample : VL0529ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Quant Time: May 30 02:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	154951	9.285	ppbv	97
47) 1,1,2-Trichloroethane	6.600	97	104561	9.109	ppbv	92
48) Dibromochloromethane	7.399	129	172109	9.366	ppbv	100
49) Bromoform	9.497	173	146803	9.258	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	273778	9.089	ppbv	100
51) 2-Hexanone	7.451	43	223716	9.365	ppbv #	98
52) Tetrachloroethene	8.238	164	96938	8.651	ppbv	96
53) Toluene	6.949	91	313414	9.043	ppbv	100
54) 1,2-Dibromoethane	7.665	107	154274	9.080	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	126022	9.220	ppbv	97
57) Chlorobenzene	8.933	112	238351	9.030	ppbv	98
58) Ethyl Benzene	9.367	91	429601	9.317	ppbv	95
59) m/p-Xylene	9.561	91	671824m	18.515	ppbv	
60) o-Xylene	9.976	91	335550	9.272	ppbv	98
61) Styrene	9.882	104	160164	9.360	ppbv	99
62) Isopropylbenzene	10.548	105	494692	9.253	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	206035	8.953	ppbv	99
64) n-propylbenzene	10.998	120	130645	9.116	ppbv	99
65) tert-Butylbenzene	11.539	119	429459	8.852	ppbv	98
66) Benzyl Chloride	11.623	91	55881	8.948	ppbv	99
67) sec-Butylbenzene	11.775	105	610578	8.951	ppbv	99
69) p-Isopropyltoluene	11.934	119	517737	9.064	ppbv	100
70) n-Butylbenzene	12.290	91	517212	9.173	ppbv	98
71) 2-Chlorotoluene	10.911	91	373380	9.156	ppbv	99
72) 4-Ethyltoluene	11.134	105	409747	9.081	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	340820	9.127	ppbv	100
74) 1,2,4-Trimethylbenzene	11.545	105	371004	8.953	ppbv	93
75) 1,3-Dichlorobenzene	11.617	146	237761	9.136	ppbv	98
76) 1,4-Dichlorobenzene	11.681	146	233300	8.989	ppbv	100
77) 1,2-Dichlorobenzene	11.956	146	224628	8.894	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	167082	7.995	ppbv	99
79) Naphthalene	13.520	128	374244	9.581	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	187133	10.604	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	199137	9.132	ppbv	98

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

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042579.D	Ethanol	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICCC010	VL042579.D	m/p-Xylene	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	1,4-Dioxane	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Ethanol	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	m/p-Xylene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Methyl Methacrylate	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,4-Dioxane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	2,2,4-Trimethylpentane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	Heptane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	m/p-Xylene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VL042581.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,2-Dichloropropane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,4-Dioxane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	4-Methyl-2-Pentanone	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Benzyl Chloride	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Cyclohexane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Dibromochloromethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Ethanol	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	m/p-Xylene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	1,2-Dibromoethane	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	Naphthalene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.1	VL042583.D	Tetrachloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	Trichloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	1,1,1-Trichloroethane	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Carbon Tetrachloride	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Tetrachloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Trichloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC015	VL042585.D	Ethanol	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDIC015	VL042585.D	m/p-Xylene	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	Ethanol	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	m/p-Xylene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
Q2124-01	VL042589.D	Chlorodifluoromethane	SAM	5/30/2025 7:48:54 AM	MMDadoda	5/30/2025 12:25:37 PM	Peak Integrated by Software
Q2124-01	VL042589.D	Cyclohexane	SAM	5/30/2025 7:48:54 AM	MMDadoda	5/30/2025 12:25:37 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2124-01	VL042589.D	m/p-Xylene	SAM	5/30/2025 7:48:54 AM	MMDadoda	5/30/2025 12:25:37 PM	Peak Integrated by Software
Q2124-01	VL042589.D	Propene	SAM	5/30/2025 7:48:54 AM	MMDadoda	5/30/2025 12:25:37 PM	Peak Integrated by Software
Q2124-01DL	VL042590.D	Ethanol	SAM	5/30/2025 7:48:59 AM	MMDadoda	5/30/2025 12:25:39 PM	Peak Integrated by Software
Q2124-01DL	VL042590.D	Tetrachloroethene	SAM	5/30/2025 7:48:59 AM	MMDadoda	5/30/2025 12:25:39 PM	Peak Integrated by Software
Q2124-01DL	VL042590.D	Toluene	SAM	5/30/2025 7:48:59 AM	MMDadoda	5/30/2025 12:25:39 PM	Peak Integrated by Software
Q2124-01DL	VL042590.D	Trichloroethene	SAM	5/30/2025 7:48:59 AM	MMDadoda	5/30/2025 12:25:39 PM	Peak Integrated by Software
VL0529ABS01	VL042591.D	m/p-Xylene	SAM	5/30/2025 7:47:49 AM	MMDadoda	5/30/2025 12:25:40 PM	Peak Integrated by Software
Q2124-02	VL042592.D	Carbon Tetrachloride	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software
Q2124-02	VL042592.D	Chlorodifluoromethane	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software
Q2124-02	VL042592.D	Cyclohexane	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software
Q2124-02	VL042592.D	Ethanol	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software
Q2124-02	VL042592.D	Heptane	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software
Q2124-02	VL042592.D	m/p-Xylene	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl052925

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2124-02	VL042592.D	Tetrachloroethene	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software
Q2124-02	VL042592.D	Trichloroethene	SAM	5/30/2025 7:48:33 AM	MMDadoda	5/30/2025 12:25:42 PM	Peak Integrated by Software
Q2124-03	VL042594.D	sec-Butylbenzene	SAM	5/30/2025 7:48:37 AM	MMDadoda	5/30/2025 12:25:46 PM	Peak Integrated by Software
Q2124-03	VL042594.D	Tetrahydrofuran	SAM	5/30/2025 7:48:37 AM	MMDadoda	5/30/2025 12:25:46 PM	Peak Integrated by Software
Q2124-03	VL042594.D	Trichloroethene	SAM	5/30/2025 7:48:37 AM	MMDadoda	5/30/2025 12:25:46 PM	Peak Integrated by Software
Q2124-01DUP	VL042601.D	Chlorodifluoromethane	SAM	5/30/2025 7:47:39 AM	MMDadoda	5/30/2025 12:26:01 PM	Peak Integrated by Software
Q2124-01DUP	VL042601.D	m/p-Xylene	SAM	5/30/2025 7:47:39 AM	MMDadoda	5/30/2025 12:26:01 PM	Peak Integrated by Software
Q2124-01DUP	VL042601.D	Propene	SAM	5/30/2025 7:47:39 AM	MMDadoda	5/30/2025 12:26:01 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2629			
Initial Calibration Stds		AP2623,AP2625,AP2626			
CCC		AP2623			
Internal Standard/PEM		AP2629			
ICV/I.BLK		AP2627			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICCC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICCC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICCC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICCC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICCC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICCC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	CAN10053	VL042599.D	29 May 2025 22:52	SY/MD	Ok
23	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26	SY/MD	Ok
24	Q2124-01DUP	VL042601.D	29 May 2025 23:58	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2629		
Initial Calibration Stds	AP2623,AP2625,AP2626		
CCC	AP2623		
Internal Standard/PEM	AP2629		
ICV/I.BLK	AP2627		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042578.D	29 May 2025 08:05		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042579.D	29 May 2025 11:09		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042580.D	29 May 2025 11:43		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042581.D	29 May 2025 12:15		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042582.D	29 May 2025 12:47		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042583.D	29 May 2025 13:19		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042584.D	29 May 2025 13:51		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042585.D	29 May 2025 14:24		SY/MD	Ok,M
9	VSTDICV010	ICVVL052925	VL042586.D	29 May 2025 14:56	comp#13 fail	SY/MD	Ok,M
10	VL0529ABL01	VL0529ABL01	VL042587.D	29 May 2025 15:44	carryover	SY/MD	Not Ok
11	VL0529ABL02	VL0529ABL02	VL042588.D	29 May 2025 16:50		SY/MD	Ok
12	Q2124-01	SV1	VL042589.D	29 May 2025 17:22	Need 20X	SY/MD	Dilution
13	Q2124-01DL	SV1DL	VL042590.D	29 May 2025 17:55		SY/MD	Ok,M
14	VL0529ABS01	VL0529ABS01	VL042591.D	29 May 2025 18:27		SY/MD	Ok,M
15	Q2124-02	SV2	VL042592.D	29 May 2025 19:00		SY/MD	Ok,M
16	Q2124-02DL	SV2DL	VL042593.D	29 May 2025 19:32	Not Required	SY/MD	Not Ok
17	Q2124-03	SV3	VL042594.D	29 May 2025 20:05		SY/MD	Ok,M
18	Q2124-03DL	SV3DL	VL042595.D	29 May 2025 20:37	Not Required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2124-01DUP	SV1DUP	VL042596.D	29 May 2025 21:10	wrong purge	SY/MD	Not Ok
20	QC052725 CAN 10609	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	Contaminated	SY/MD	Not Ok
21	QC052725 CAN 10609	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18		SY/MD	Ok
22	CAN10053	CAN10053	VL042599.D	29 May 2025 22:52		SY/MD	Ok
23	QC05225 CAN 10154	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26		SY/MD	Ok
24	Q2124-01DUP	SV1DUP	VL042601.D	29 May 2025 23:58		SY/MD	Ok,M

M : Manual Integration



Alliance Project No. :

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

Client Contact Information						Bottle Order ID : B2505033				Courier : F Galdun of 3 COCs									
Client ID : GFEL01		Project ID :				Sampler Name(s) FRANK GALDUN													
Customer Name : GFE LLC		Project Manager : FRANK GALDUN				Analysis Matrix													
Address : 58 Nokomis Ave		Phone Number : 646-542-3465				AIR ANALYSIS													
		Fax Number : 973-334-1692				CHAIN-OF-CUSTODY													
City : Lake Hiawatha		Site Details: WEBSTER AVE BRONX, NY				Individual Certified													
State : NJ		Analysis Turnaround Time S DAY																	
Zip Code : 07034		Standard : 10 business days OR				Data Package Type : RESULTS ONLY													
Country :		Rush (Specify): 5 Days				EDD Type : PDF													
Sample Identification		Time Start (24 hr Clock)		Can Vacuum in Field ("Hg") (Start)		Interior Temp. (F) (Start)		Out going Can Pressure ("Hg)(Lab)		In coming Can Pressure ("Hg)(Lab)		Flow Reg. ID		Flow Controller Readout (ml/min)		Can Cert ID			
S13		start 9:41 AM		5		65		-30		-55		10579		6 L		50		VL042399.D	
Temperature (Fahrenheit)																			
		Ambient		Maximum		Minimum													
Start																			
Stop																			
Pressure (Inches of Hg)																			
		Ambient		Maximum		Minimum													
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings:																			
Sampling site (State):																			
Quick Connector required : NO																			
Canisters Shipped by: Sam		Date/Time: 5/20/23		Canisters Received by: CR		Date/Time: 5/23/25		1000											
Samples Relinquished by: JN		Date/Time: 5/23/23		Received by:		Date/Time:													
Relinquished by:		Date/Time:		Received by:		Date/Time:													
B2505033 - 1																			

Client Contact Information						Bottle Order ID : B2505033		Courier : Frank Galdun	1 of 3 COCs					
Client ID : GFEL01		Project ID :				Project Manager : FRANK GALDUN		Analysis Matrix						
Customer Name : GFE LLC						Phone Number : 646-542-3465								
Address : 58 Nokomis Ave						Fax Number : 973-334-1692								
City : Lake Hiawatha						Site Details: WEBSTER AVE BRONX NY								
State : NJ						Analysis Turnaround Time								
Zip Code : 07034						Standard : 10 business days OR								
Country :						Rush (Specify) : 5 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	
SU1	8/24/09	8:59	10:59	30	5	64	64	-30	-5.5	10525	10334	6 L	50	VL042399.D
Temperature (Fahrenheit)														
Ambient		Maximum		Minimum										
Start														
Stop														
Pressure (Inches of Hg)														
Ambient		Maximum		Minimum										
Start														
Stop														
Special Instructions/QC Requirements & Comments :														
Suspected Contamination:														
Sampling site (State):														
PID Readings:														
Please follow the instructions on the back of this COC.														
Report only those VOCs on ATTACHED LIST														
GC/MS Analyst Signature (TO-15)														
Soil Gas														
Indoor/Ambient Air														
Batch Certified														
AIR ANALYSIS CHAIN-OF-CUSTODY														
Sampler Name(s) : FRANK GALDUN														
Data Package Type : Results only														
EDD Type :														

Client Contact Information		Bottle Order ID : B2505033		Courier : Frank Galdun		22 of 3 COCs	
Client ID : GFE01		Project ID : 42-Mountainview-MA		Sampler Name(s) : FRANK Galdun		Analysis	
Customer Name : GFE LLC		Project Manager : FRANK Galdun		AIR ANALYSIS		Matrix	
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY			
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified			
State : NJ		Site Details: WEBSTER AVE BRONX, NY					
Zip Code : 07034		Analysis Turnaround Time 5 DAY		Data Package Type : RESULTS ONLY			
Country : USA		Standard : 10 business days		EDD Type : PDF			
Sample Identification		Time Start (24 hr Clock)		Time Stop (24 hr Clock)		Can Vacuum in Field ("Hg) (Start)	
42299:44		11:41:30		5:5		5:5	
Can Vacuum in Field ("Hg) (Start)		Can Vacuum in Field ("Hg) (Stop)**		Interior Temp. (F) (Start)		Interior Temp. (F) (Stop)	
5:5		5:5		69		69	
Out going Can Pressure ("Hg)(Lab)		In coming Can Pressure ("Hg)(Lab)		Flow Controller Readout (ml/min)		Can Cert ID	
-30		-6.7		10503		VL042399.D	
Can ID		Flow Reg. ID		6 L		50	
10439		10503		6 L		50	
GC/MS Analyst Signature (TO-15)							
							
Report ONLY THOSE VOCs ON ATTACHED LIST							
Please follow the instructions on the back of this COC.							
Special Instructions/QC Requirements & Comments :							
Suspected Contamination: High Medium Low							
Sampling site (State):							
Quick Connector required : NO							
Canisters Shipped by: Sam							
Samples Relinquished by: Frank							
Relinquished by:							
Date/Time: 5/23/25 10:00							
Date/Time: 5/23/25							
Date/Time: 5/23/25							
B2505033 - 3							

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

NA62:

Title: Sample Custodian

Field Sample Seal No.: Q2124

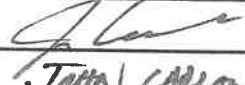
Date Broken 5/23/2025

Military Time Seal Broken: 10:00:00

Case No.: Webster Ave Bronx, NY

Analytical Parameter/Fraction WOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2124-01	SV1		
Q2124-02	SV2		
Q2124-03	SV3		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
5/23/25	12:40	Signature 	Signature 	AIR LAB
		Printed Name <u>Cassanova Rene</u>	Printed Name <u>John Carlson</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

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID: A755971[illegible]

Process Report

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

Order ID : Q2124

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
05/23/2025	B2505033	Q2124-03	-5.5	10329	6 L	10579		C2504008	VL042399.D Seq :VL042125 TUNE : VL042394.D ICAL : VL042354.D CCAL : VL042395.D MB : VL042396.D
05/23/2025	B2505033	Q2124-01	-5.5	10334	6 L	10525		C2504008	VL042399.D Seq :VL042125 TUNE : VL042394.D ICAL : VL042354.D CCAL : VL042395.D MB : VL042396.D
05/23/2025	B2505033	Q2124-02	-6.7	10439	6 L	10503		C2504008	VL042399.D Seq :VL042125 TUNE : VL042394.D ICAL : VL042354.D CCAL : VL042395.D MB : VL042396.D

10334 55

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: SV1
Client Name: GFE
Project Name: WEBSTER
Date: 5/22 Time: 10-15
Analysis: _____
Comments: _____

CHEMTECH'S SAMPLE
Date Received: _____

Storage Location: VOA Lab
Sample: Q2124-01
Cust #: SV1

B2505033

10439 7.9

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: SV2
Client Name: GFE
Project Name: WEBSTER
Date: _____ Time: _____
Analysis: _____
Comments: _____

CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
Sample: Q2124-02
Cust #: SV2

B2505033

55-1

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: SV3
Client Name: GFE
Project Name: WEBSTER
Date: 5/22 Time: _____
Analysis: _____
Comments: _____

CHEMTECH'S SAMPLE
Date Received: _____

Storage Location: VOA Lab
Sample: Q2124-03
Cust #: SV3

B2505033