

Cover Page

Order ID : Q3557

Project ID : 141 JUNIPER DRIVE

Client : RTP Environmental

Lab Sample Number

Q3557-01
Q3557-02
Q3557-03
Q3557-04
Q3557-05

Client Sample Number

141-AA-1
141-IA-1
141-IA2
141-SG-1
141-SG-2

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: 11/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2510050				Courier :				1 of 5 COCs			
Client ID : RTPE01				Project ID : AK 141 Juniper Drive				Sampler Name(s) :				Analysis			
Customer Name : RTP Environmental Address : 239 US Highway 22 East City : Green Brook State : NJ Zip Code : 08812 Country :				Project Manager : David gabel				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 732-968-9600											
				Fax Number :											
				Site Details:											
				Analysis Turnaround Time				Data Package Type : Regulatory							
				Standard : 10 business days OR				EDD Type : Haz/Excel w/ conversion							
				Rush (Specify): 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)**	Ambient Interior Temp. (F) (Start)	Ambient 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
141-AA-1	11/4/25 11/5/25	8:13	8:13	-30	-6	54	44	-30	-4.7	10482	10296	6 L	4.16	VL042598.D	X	X

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) SUT

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: Sam	Date/Time: 11/03/25	Canisters Received by: CV	Date/Time: 11/3/25 8:00
Samples Relinquished by: CV	Date/Time: 11-5-25 1500	Received by: AT	Date/Time: 11-5-25 1500
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2510050				Courier :				2 of 5 COCs			
Client ID : RTPE01				Project ID : 141 Juniper Drive				Sampler Name(s) :				Analysis			
Customer Name : RTP Environmental Address : 239 US Highway 22 East				Project Manager : David gabel				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				Indoor Ambient Air Soil Gas			
				Phone Number : 732-968-9600											
				Fax Number :											
				Site Details:											
City : Green Brook				Analysis Turnaround Time				Data Package Type : Regulatory							
State : NJ				Standard : 10 business days OR											
Zip Code : 08812				Rush (Specify): Days											
Country :				EDD Type : HQZ (Excel w/ conversion table in excel)											

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				
141-5A-1	11/4/25 to 11/5/25	8:10	8:10	30	-8	72	72	-30	-4.3	10520	10300	6 L	4.16	VL042942.D	X				

Temperature (Fahrenheit)				
	Ambient:	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

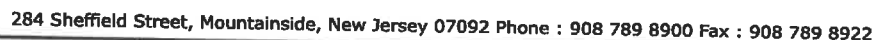
Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: Sam	Date/Time: 11/03/25	Canisters Received by: CW	Date/Time: 11/3/25 8:00
Samples Relinquished by: CW	Date/Time: 11.5.25 1500	Received by: ET	Date/Time: 11.5.25 1500
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2510050				Courier :				3 of 5 COCs						
Client ID : RTPE01				Project ID : 141 Juniper Drive				Sampler Name(s) :				Analysis						
Customer RTP Environmental Name : Address : 239 US Highway 22 East				Project Manager : David gabel				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified				<table border="1" style="width:100%; height: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Matrix</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>				Matrix		
				Matrix														
				Phone Number : 732-968-9600														
Fax Number :																		
City : Green Brook				Site Details:														
State : NJ				Analysis Turnaround Time														
Zip Code : 08812				Standard : 10 business days OR				Data Package Type : Regulatory										
Country :				Rush (Specify): Days				EDD Type : Haz/Excel w/conversion										
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	
141-1A2	11/4/25 11/5/25	8:11	8:11	-30	-2	72	72	-30	-5.1	10236	10060	6 L	4.16	VL042942.D	X	X		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]								
		Ambient	Maximum	Minimum														
Start																		
Stop																		
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.								
		Ambient	Maximum	Minimum														
Start																		
Stop																		
Special Instructions/QC Requirements & Comments :																		
Suspected Contamination: High Medium Low PID Readings:																		
Sampling site (State):																		
Quick Connector required : No																		
Canisters Shipped by: Sam				Date/Time: 11/03/25				Canisters Received by: CV				Date/Time: 11/3/25 8:00						
Samples Relinquished by: CV				Date/Time: 11-5-25 1:50				Received by: ST				Date/Time: 11-5-25 1:50						
Relinquished by:				Date/Time:				Received by:				Date/Time:						



Q 3557

Client Contact Information						Bottle Order ID : B2510050						Courier :						4 of 5 COCs																													
Client ID : RTPE01						Project ID : AD 141 Juniper Drive						Sampler Name(s) :						Analysis						Matrix																							
Customer Name : RTP Environmental Address : 239 US Highway 22 East						Project Manager : David gabel						AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																																			
						Phone Number : 732-968-9600																																									
						Fax Number :																																									
						Site Details:																																									
City : Green Brook						Analysis Turnaround Time																								Data Package Type :																	
State : NJ																																															
Zip Code : 08812						Standard : 10 business days OR																																									
Country :						Rush (Specify): Days																								EDD Type :																	
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													
141-JG-1		11/5/25		1046		146		-18		-2		70		70		-30		-8.4		10543		10674		1.4 L		25		VL042989.D		X		X															
Temperature (Fahrenheit)						Ambient						Maximum						Minimum						GC/MS Analyst Signature (TO-15) [Signature]																							
						Start																																									
						Stop																																									
Pressure (Inches of Hg)						Ambient						Maximum						Minimum						** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.																							
						Start																																									
						Stop																																									
Special Instructions/QC Requirements & Comments :																																															
Suspected Contamination: High Medium Low PID Readings:																																															
Sampling site (State):																																															
Quick Connector required : Yes																																															
Canisters Shipped by: Sam										Date/Time: 11/5/25										Canisters Received by: 11/5/25 1500										Date/Time: JT																	
Samples Relinquished by:										Date/Time:										Received by:										Date/Time:																	
Relinquished by:										Date/Time:										Received by:										Date/Time:																	
B2510050 - 11																																															

Client Contact Information				Bottle Order ID : B2510050				Courier :				5 of 5 COCs					
Client ID : RTPE01				Project ID : Air 141 Juniper Drive				Sampler Name(s) :				Analysis		Matrix			
Customer Name : RTP Environmental Address : 239 US Highway 22 East City : Green Brook State : NJ Zip Code : 08812 Country :				Project Manager : David gabel				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 732-968-9600													
				Fax Number :													
				Site Details:													
				Analysis Turnaround Time													
				Standard : 10 business days OR				Data Package Type :									
				Rush (Specify): Days				EDD Type :									
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
141-562	11/5/25	1047	1147	-30	-4	70	70	-30	+9.6	10484	10428	1.4 L	25	VL042989.D	X		X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sut							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings:																	
Sampling site (State):																	
Quick Connector required : Yes																	
Canisters Shipped by: Sam				Date/Time: 11/03/25				Canisters Received by: ST				Date/Time: 11.5.25 1500				B2510050 - 8	
Samples Relinquished by:				Date/Time:				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

GORGE

Title: Sample Custodian

Field Sample Seal No. Q3557

Date Broken: 11/5/2025

Military Time Seal Broken: 15:00:00

Case No.: 141 JUNIPER DRIVE

Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3557-01	141-AA-1		
Q3557-02	141-IA-1		
Q3557-03	141-IA2		
Q3557-04	141-SG-1		
Q3557-05	141-SG-2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/6	1112	Signature 	Signature 	
		Printed Name GORGE M.	Printed Name Sam Saito	
		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 LOGBOOKAnalyst Signature: [Signature]Supervisor Signature: [Signature]

METHOD: TO-15

Pressure Gauge ID: A2 55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
10/28/25	Q3320-07	10311	12.6	-4.3				✓
	Q3320-08	10588	12.0	-5.5				✓
	Q3320-09	10601	12.2	-5.1				✓
	Q3320-10	10604	12.2	5.1				✓
	Q3320-11	10607	12.2	5.1				✓
	Q3320-12	10333	12.2	-5.1				✓
	Q3320-13	10609	12.6	-4.3				✓
10/10/25	Q3320-02	10113	1.0		20		20x	✓
11/05/25	Q3555-01	10153	11.8	-5.9				✓
	Q3555-02	10492	13.6	-2.2				✓
	Q3555-03	10653	9.4	-10.8				✓
	Q3555-04	10423	9.4	-10.8				✓
	Q3556-01	10266	8.6	-12.4				✓
	Q3556-02	10283	12.0	-5.5				✓
	Q3556-03	10737	9.6	-10.4				✓
	Q3556-04	10752	9.6	-10.4				✓
	Q3557-01	10296	12.4	-4.7				✓
	Q3557-02	10300	12.6	-4.3				✓
	Q3557-03	10060	12.2	-5.1				✓
	Q3557-04	10674	10.6	-8.4				✓
	Q3557-05	10428	10.6	-9.6				✓

CHEMTECH

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

Client Sample ID #: 141-1A1

Client Name: RJP

Project Name: 141 Juniper Drive

Date: 11/4-11/5/28 Time: 8:10 ~~am~~

Analysis: 10-15

Comments:

CHEMTECH'S SAMPLE

Date Received:

Storage Location: Air Lab
Sample: Q3557-02
Cust #: 141-1A-1

CHEMTECH

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

Client Sample ID #: 141-1A-1

Client Name: RJP

Project Name: 141 Juniper Drive

Date: 11/4 to 11/5/28 Time: 8:13

Analysis: 10-15

Comments:

CHEMTECH'S SAMPLE

Date Received:

Storage Location: Air Lab
Sample: Q3557-01
Cust #: 141-AA-1

CHEMTECH

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

Client Sample ID #: 141-1A2

Client Name: RJP

Project Name: 141 Juniper Drive

Date: 11/4/25-11/5/28 Time: 8:10-8:11

Analysis: 10-15

Comments:

CHEMTECH'S SAMPLE

Date Received:

Storage Location: Air Lab
Sample: Q3557-03
Cust #: 141-1A2

CHEMTECH

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

Client Sample ID #: 141-SG-1

Client Name: RJP

Project Name: Chadwick

Date: 11/5/25

Analysis: Time: 1046 1146

Comments: _____

CHEMTECH'S SAMPLE ID

Date Received: _____ Ex: _____

Storage Location: Air Lab

Sample: Q3557-04

Cust #: 141-SG-1

CHEMTECH

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

Client Sample ID #: 141-SG-2

Client Name: RJP

Project Name: Chadwick

Date: 11/5/25

Analysis: Time: 1047 1147

Comments: _____

CHEMTECH'S SAMPL

Date Received: _____

Storage Location: Air Lab

Sample: Q3557-05

Cust #: 141-SG-2



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

CASE NARRATIVE

RTP Environmental

Project Name: 141 JUNIPER DRIVE

Project # N/A

Order ID # Q3557

Test Name: TO-15

A. Number of Samples and Date of Receipt:

5 Air samples were received on 11/05/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The Blank Spike met requirements for all compounds.

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 141-SG-1, 141-SG-2 were initially diluted.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.



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

The Samples #141-AA-1, 141-IA-1, 141-IA-1DL, 141-IA2, 141-SG-1 and 141-SG-2 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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 #: Q3557

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: 11/17/2025

LAB CHRONICLE

OrderID:	Q3557	OrderDate:	11/5/2025 3:17:00 PM
Client:	RTP Environmental	Project:	141 JUNIPER DRIVE
Contact:	David Gabel	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3557-01	141-AA-1	Air	TO-15	TO-15	11/05/25		11/06/25	11/05/25
Q3557-02	141-IA-1	Air	TO-15	TO-15	11/05/25		11/06/25	11/05/25
Q3557-02DL	141-IA-1DL	Air	TO-15	TO-15	11/05/25		11/06/25	11/05/25
Q3557-03	141-IA2	Air	TO-15	TO-15	11/05/25		11/06/25	11/05/25
Q3557-04	141-SG-1	Air	TO-15	TO-15	11/05/25		11/06/25	11/05/25
Q3557-05	141-SG-2	Air	TO-15	TO-15	11/05/25		11/06/25	11/05/25
Q3557-05DL	141-SG-2DL	Air	TO-15	TO-15	11/05/25		11/06/25	11/05/25

Hit Summary Sheet
SW-846

SDG No.: Q3557
Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	141-AA-1							
Q3557-01	141-AA-1	Air	Dichlorodifluoromethane	2.47		0.54	2.47	ug/m3
Q3557-01	141-AA-1	Air	Chloromethane	0.97	J	0.21	1.03	ug/m3
Q3557-01	141-AA-1	Air	Trichlorofluoromethane	1.46	J	0.96	2.81	ug/m3
Q3557-01	141-AA-1	Air	Acetone	6.18		0.43	1.19	ug/m3
Q3557-01	141-AA-1	Air	Methylene Chloride	2.68		0.80	1.74	ug/m3
Q3557-01	141-AA-1	Air	2-Butanone	0.65	J	0.18	1.47	ug/m3
Q3557-01	141-AA-1	Air	Carbon Tetrachloride	0.50		0.19	0.19	ug/m3
Q3557-01	141-AA-1	Air	Benzene	0.35	J	0.26	1.60	ug/m3
Q3557-01	141-AA-1	Air	Hexane	2.71		0.56	1.76	ug/m3
			Total Voc :			18.0		
			Total Concentration:			18.0		
Client ID:	141-IA-1							
Q3557-02	141-IA-1	Air	Dichlorodifluoromethane	7.42		0.54	2.47	ug/m3
Q3557-02	141-IA-1	Air	Chloromethane	0.93	J	0.21	1.03	ug/m3
Q3557-02	141-IA-1	Air	Trichlorofluoromethane	1.85	J	0.96	2.81	ug/m3
Q3557-02	141-IA-1	Air	Heptane	0.78	J	0.70	2.05	ug/m3
Q3557-02	141-IA-1	Air	Acetone	21.1		0.43	1.19	ug/m3
Q3557-02	141-IA-1	Air	Methylene Chloride	54.9	E	0.80	1.74	ug/m3
Q3557-02	141-IA-1	Air	2-Butanone	4.42		0.18	1.47	ug/m3
Q3557-02	141-IA-1	Air	Carbon Tetrachloride	0.50		0.19	0.19	ug/m3
Q3557-02	141-IA-1	Air	2,2,4-Trimethylpentane	1.54	J	0.65	2.34	ug/m3
Q3557-02	141-IA-1	Air	Benzene	1.21	J	0.26	1.60	ug/m3
Q3557-02	141-IA-1	Air	Toluene	2.22		0.60	1.88	ug/m3
Q3557-02	141-IA-1	Air	Naphthalene	0.68		0.050	0.52	ug/m3
Q3557-02	141-IA-1	Air	Hexane	24.3		0.56	1.76	ug/m3
			Total Voc :			122		
			Total Concentration:			122		
Client ID:	141-IA-1DL							
Q3557-02DL	141-IA-1DL	Air	Dichlorodifluoromethane	6.92	JD	2.18	9.89	ug/m3
Q3557-02DL	141-IA-1DL	Air	Chloromethane	0.97	JD	0.81	4.13	ug/m3
Q3557-02DL	141-IA-1DL	Air	Acetone	27.6	D	1.71	4.75	ug/m3
Q3557-02DL	141-IA-1DL	Air	Methylene Chloride	51.8	D	3.20	6.95	ug/m3
Q3557-02DL	141-IA-1DL	Air	2-Butanone	4.42	JD	0.65	5.90	ug/m3
Q3557-02DL	141-IA-1DL	Air	Benzene	1.31	JD	1.02	6.39	ug/m3
Q3557-02DL	141-IA-1DL	Air	Hexane	18.3	D	2.26	7.05	ug/m3
			Total Voc :			111		
			Total Concentration:			111		

Hit Summary Sheet SW-846

SDG No.: Q3557

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	141-IA2							
Q3557-03	141-IA2	Air	Dichlorodifluoromethane	10.4		0.54	2.47	ug/m3
Q3557-03	141-IA2	Air	Chloromethane	0.97	J	0.21	1.03	ug/m3
Q3557-03	141-IA2	Air	Trichlorofluoromethane	2.02	J	0.96	2.81	ug/m3
Q3557-03	141-IA2	Air	Heptane	1.07	J	0.70	2.05	ug/m3
Q3557-03	141-IA2	Air	Acetone	30.2		0.43	1.19	ug/m3
Q3557-03	141-IA2	Air	Methylene Chloride	2.29		0.80	1.74	ug/m3
Q3557-03	141-IA2	Air	Cyclohexane	1.20	J	0.76	1.72	ug/m3
Q3557-03	141-IA2	Air	2-Butanone	1.80		0.18	1.47	ug/m3
Q3557-03	141-IA2	Air	Carbon Tetrachloride	0.57		0.19	0.19	ug/m3
Q3557-03	141-IA2	Air	2,2,4-Trimethylpentane	2.24	J	0.65	2.34	ug/m3
Q3557-03	141-IA2	Air	Benzene	1.73		0.26	1.60	ug/m3
Q3557-03	141-IA2	Air	Toluene	3.39		0.60	1.88	ug/m3
Q3557-03	141-IA2	Air	m/p-Xylene	2.61	J	1.78	4.34	ug/m3
Q3557-03	141-IA2	Air	o-Xylene	1.09	J	0.91	2.17	ug/m3
Q3557-03	141-IA2	Air	Naphthalene	1.42		0.050	0.52	ug/m3
Q3557-03	141-IA2	Air	Hexane	9.52		0.56	1.76	ug/m3
Total Voc :				72.5				
Total Concentration:				72.5				
Client ID:	141-SG-1							
Q3557-04	141-SG-1	Air	Dichlorodifluoromethane	5.44		1.09	4.94	ug/m3
Q3557-04	141-SG-1	Air	Chloromethane	0.52	J	0.41	2.07	ug/m3
Q3557-04	141-SG-1	Air	Acetone	21.6		0.86	2.38	ug/m3
Q3557-04	141-SG-1	Air	Methylene Chloride	3.20	J	1.60	3.47	ug/m3
Q3557-04	141-SG-1	Air	2-Butanone	2.92	J	0.32	2.95	ug/m3
Q3557-04	141-SG-1	Air	Carbon Tetrachloride	0.44		0.31	0.38	ug/m3
Q3557-04	141-SG-1	Air	Chloroform	3.52	J	0.93	4.88	ug/m3
Q3557-04	141-SG-1	Air	Hexane	1.97	J	1.13	3.52	ug/m3
Total Voc :				39.6				
Total Concentration:				39.6				
Client ID:	141-SG-2							
Q3557-05	141-SG-2	Air	Dichlorodifluoromethane	5.44		1.09	4.94	ug/m3
Q3557-05	141-SG-2	Air	Tetrahydrofuran	0.68	J	0.47	2.95	ug/m3
Q3557-05	141-SG-2	Air	tert-Butyl alcohol	3.03		0.97	3.03	ug/m3
Q3557-05	141-SG-2	Air	Acetone	160	E	0.86	2.38	ug/m3
Q3557-05	141-SG-2	Air	Methylene Chloride	3.82		1.60	3.47	ug/m3
Q3557-05	141-SG-2	Air	2-Butanone	7.96		0.32	2.95	ug/m3
Q3557-05	141-SG-2	Air	Carbon Tetrachloride	0.50		0.31	0.38	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q3557

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3557-05	141-SG-2	Air	Tetrachloroethene	1.49		0.20	0.41	ug/m3
Q3557-05	141-SG-2	Air	Hexane	1.97	J	1.13	3.52	ug/m3
			Total Voc :			185		
			Total Concentration:			185		
Client ID:	141-SG-2DL							
Q3557-05DL	141-SG-2DL	Air	Dichlorodifluoromethane	5.93	JD	5.44	24.7	ug/m3
Q3557-05DL	141-SG-2DL	Air	Acetone	182	D	4.28	11.9	ug/m3
Q3557-05DL	141-SG-2DL	Air	Methylene Chloride	10.8	JD	7.99	17.4	ug/m3
Q3557-05DL	141-SG-2DL	Air	2-Butanone	8.26	JD	1.65	14.8	ug/m3
			Total Voc :			207		
			Total Concentration:			207		

Project : 141 JUNIPER DRIVE

Field Id Number : 141-AA-1

Laboratory Id Number : Q3557-01

Sampling Date : 11/05/25

Analysis Date : 11/06/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.5		2.47		
Chloromethane	74-87-3	50.49	0.47	J	0.97		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.26	J	1.46		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	2.6		6.18		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	0.77		2.68		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.22	J	0.65		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.11	J	0.35		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.16	U	0.6		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-AA-1

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	0.77		2.71		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

Project : 141 JUNIPER DRIVE

Field Id Number : 141-IA-1

Laboratory Id Number : Q3557-02

Sampling Date : 11/05/25

Analysis Date : 11/06/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.5		7.42		
Chloromethane	74-87-3	50.49	0.45	J	0.93		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.33	J	1.85		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.19	J	0.78		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	8.9		21.1		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	15.8	E	54.9		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.5		4.42		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.33	J	1.54		
Benzene	71-43-2	78.11	0.38	J	1.21		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.59		2.22		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-IA-1

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.13		0.68		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	6.9		24.3		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-IA-1DL

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-02DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.4	JD	6.92		
Chloromethane	74-87-3	50.49	0.47	JD	0.97		
Vinyl Chloride	75-01-4	62.5	0.1	UD	0.26		
Bromomethane	74-83-9	94.94	0.31	UD	1.2		
Chloroethane	75-00-3	64.52	0.6	UD	1.58		
Tetrahydrofuran	109-99-9	72.11	0.32	UD	0.94		
Trichlorofluoromethane	75-69-4	137.4	0.68	UD	3.82		
Dichlorotetrafluoroethane	76-14-2	170.9	0.6	UD	4.19		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.56	UD	4.29		
tert-Butyl alcohol	75-65-0	74.12	0.64	UD	1.94		
Heptane	142-82-5	100.2	0.68	UD	2.79		
1,1-Dichloroethene	75-35-4	96.94	0.6	UD	2.38		
Acetone	67-64-1	58.08	11.6	D	27.6		
Carbon Disulfide	75-15-0	76.14	0.32	UD	1		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.92	UD	3.32		
Methylene Chloride	75-09-2	84.94	14.9	D	51.8		
trans-1,2-Dichloroethene	156-60-5	96.94	0.48	UD	1.9		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	0.88	UD	3.03		
2-Butanone	78-93-3	72.11	1.5	JD	4.42		
Carbon Tetrachloride	56-23-5	153.8	0.1	UD	0.63		
cis-1,2-Dichloroethene	156-59-2	96.94	0.4	UD	1.59		
Chloroform	67-66-3	119.4	0.38	UD	1.86		
1,1,1-Trichloroethane	71-55-6	133.4	0.06	UD	0.33		
2,2,4-Trimethylpentane	540-84-1	114.2	0.56	UD	2.62		
Benzene	71-43-2	78.11	0.41	JD	1.31		
1,2-Dichloroethane	107-06-2	98.96	0.37	UD	1.5		
Trichloroethene	79-01-6	131.4	0.1	UD	0.54		
1,2-Dichloropropane	78-87-5	113	0.52	UD	2.4		
Bromodichloromethane	75-27-4	163.8	0.25	UD	1.67		
4-Methyl-2-Pentanone	108-10-1	100.2	0.39	UD	1.6		
Toluene	108-88-3	92.14	0.64	UD	2.41		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.44	UD	2		
1,1,2-Trichloroethane	79-00-5	133.4	0.32	UD	1.75		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-IA-1DL

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-02DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.34	UD	2.9		
1,2-Dibromoethane	106-93-4	187.9	0.34	UD	2.61		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	0.31	UD	1.43		
Ethyl Benzene	100-41-4	106.2	0.76	UD	3.3		
m/p-Xylene	179601-23-1	106.2	1.6	UD	6.95		
o-Xylene	95-47-6	106.2	0.84	UD	3.65		
Styrene	100-42-5	104.1	0.64	UD	2.72		
Bromoform	75-25-2	252.8	0.19	UD	1.96		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.07	UD	0.48		
2-Chlorotoluene	95-49-8	126.6	0.68	UD	3.52		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.72	UD	3.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.72	UD	3.54		
1,3-Dichlorobenzene	541-73-1	147	0.22	UD	1.32		
1,4-Dichlorobenzene	106-46-7	147	0.52	UD	3.13		
1,2-Dichlorobenzene	95-50-1	147	0.52	UD	3.13		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.84	UD	6.24		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.52	UD	5.55		
Naphthalene	91-20-3	128.17	0.05	UD	0.26		
1,3-Butadiene	106-99-0	54.09	0.2	UD	0.44		
4-Ethyltoluene	622-96-8	120.2	0.84	UD	4.13		
Hexane	110-54-3	86.17	5.2	D	18.3		
Allyl Chloride	107-05-1	76.53	0.44	UD	1.38		
1,4-Dioxane	123-91-1	88.12	0.88	UD	3.17		
Methyl Methacrylate	80-62-6	100.117	0.56	UD	2.29		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-IA2

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	2.1		10.4		
Chloromethane	74-87-3	50.49	0.47	J	0.97		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.36	J	2.02		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.26	J	1.07		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	12.7		30.2		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	0.66		2.29		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.35	J	1.2		
2-Butanone	78-93-3	72.11	0.61		1.8		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.48	J	2.24		
Benzene	71-43-2	78.11	0.54		1.73		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.9		3.39		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-IA2

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.6	J	2.61		
o-Xylene	95-47-6	106.2	0.25	J	1.09		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.27		1.42		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	2.7		9.52		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-SG-1

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-04

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.1		5.44		
Chloromethane	74-87-3	50.49	0.25	J	0.52		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.16	U	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	0.32	U	0.97		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	9.1		21.6		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	0.92	J	3.2		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	0.99	J	2.92		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.72	J	3.52		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.16	U	0.51		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.05	U	0.27		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.32	U	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-SG-1

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-04

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	0.56	J	1.97		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-SG-2

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-05

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.1		5.44		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.23	J	0.68		
Trichlorofluoromethane	75-69-4	137.4	0.34	U	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	1		3.03		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	67.2	E	159		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	1.1		3.82		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	2.7		7.96		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.19	U	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.16	U	0.51		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.05	U	0.27		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.32	U	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-SG-2

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-05

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	0.22		1.49		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	0.56	J	1.97		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-SG-2DL

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-05DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.2	JD	5.93		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.25	UD	0.64		
Bromomethane	74-83-9	94.94	0.77	UD	2.99		
Chloroethane	75-00-3	64.52	1.5	UD	3.96		
Tetrahydrofuran	109-99-9	72.11	0.8	UD	2.36		
Trichlorofluoromethane	75-69-4	137.4	1.7	UD	9.55		
Dichlorotetrafluoroethane	76-14-2	170.9	1.5	UD	10.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.4	UD	10.7		
tert-Butyl alcohol	75-65-0	74.12	1.6	UD	4.85		
Heptane	142-82-5	100.2	1.7	UD	6.97		
1,1-Dichloroethene	75-35-4	96.94	1.5	UD	5.95		
Acetone	67-64-1	58.08	76.7	D	182		
Carbon Disulfide	75-15-0	76.14	0.8	UD	2.49		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.3	UD	8.29		
Methylene Chloride	75-09-2	84.94	3.1	JD	10.8		
trans-1,2-Dichloroethene	156-60-5	96.94	1.2	UD	4.76		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	2.8	JD	8.26		
Carbon Tetrachloride	56-23-5	153.8	0.25	UD	1.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.99	UD	3.93		
Chloroform	67-66-3	119.4	0.96	UD	4.69		
1,1,1-Trichloroethane	71-55-6	133.4	0.16	UD	0.87		
2,2,4-Trimethylpentane	540-84-1	114.2	1.4	UD	6.54		
Benzene	71-43-2	78.11	0.79	UD	2.52		
1,2-Dichloroethane	107-06-2	98.96	0.93	UD	3.76		
Trichloroethene	79-01-6	131.4	0.24	UD	1.29		
1,2-Dichloropropane	78-87-5	113	1.3	UD	6.01		
Bromodichloromethane	75-27-4	163.8	0.63	UD	4.22		
4-Methyl-2-Pentanone	108-10-1	100.2	0.97	UD	3.98		
Toluene	108-88-3	92.14	1.6	UD	6.03		
t-1,3-Dichloropropene	10061-02-6	111	1.5	UD	6.81		
cis-1,3-Dichloropropene	10061-01-5	111	1.1	UD	4.99		
1,1,2-Trichloroethane	79-00-5	133.4	0.81	UD	4.42		

Project : 141 JUNIPER DRIVE

Sampling Date : 11/05/25

Field Id Number : 141-SG-2DL

Analysis Date : 11/06/25

Laboratory Id Number : Q3557-05DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.85	UD	7.24		
1,2-Dibromoethane	106-93-4	187.9	0.85	UD	6.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.77	UD	3.55		
Ethyl Benzene	100-41-4	106.2	1.9	UD	8.25		
m/p-Xylene	179601-23-1	106.2	4.1	UD	17.8		
o-Xylene	95-47-6	106.2	2.1	UD	9.12		
Styrene	100-42-5	104.1	1.6	UD	6.81		
Bromoform	75-25-2	252.8	0.48	UD	4.96		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.18	UD	1.24		
2-Chlorotoluene	95-49-8	126.6	1.7	UD	8.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.8	UD	8.85		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.8	UD	8.85		
1,3-Dichlorobenzene	541-73-1	147	0.54	UD	3.25		
1,4-Dichlorobenzene	106-46-7	147	1.3	UD	7.82		
1,2-Dichlorobenzene	95-50-1	147	1.3	UD	7.82		
1,2,4-Trichlorobenzene	120-82-1	181.5	2.1	UD	15.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.3	UD	13.9		
1,3-Butadiene	106-99-0	54.09	0.51	UD	1.13		
Naphthalene	91-20-3	128.17	0.13	UD	0.68		
4-Ethyltoluene	622-96-8	120.2	2.1	UD	10.3		
Hexane	110-54-3	86.17	1.6	UD	5.64		
Allyl Chloride	107-05-1	76.53	1.1	UD	3.44		
1,4-Dioxane	123-91-1	88.12	2.2	UD	7.93		
Methyl Methacrylate	80-62-6	100.117	1.4	UD	5.73		

Method	Matrix	Parameter	Instrument ID	Column ID	MDL (ppbv)	RL (ppbv)	MB Data	MB Datafile	StdevVal
TO-15	Air	1,1,1,2-Tetrachloroethane	MSVOA_L	RTX-1	0.089	0.50	0		0.028115408
TO-15	Air	1,1,1-Trichloroethane	MSVOA_L	RTX-1	0.016	0.030	0		0.005089672
TO-15	Air	1,1,2,2-Tetrachloroethane	MSVOA_L	RTX-1	0.018	0.030	0		0.005472877
TO-15	Air	1,1,2-Trichloroethane	MSVOA_L	RTX-1	0.081	0.50	0		0.02572751
TO-15	Air	1,1,2-Trichlorotrifluoroethane	MSVOA_L	RTX-1	0.14	0.50	0		0.042983939
TO-15	Air	1,1-Dichloroethane	MSVOA_L	RTX-1	0.13	0.50	0		0.040178175
TO-15	Air	1,1-Dichloroethene	MSVOA_L	RTX-1	0.15	0.50	0		0.047056197
TO-15	Air	1,2,4-Trichlorobenzene	MSVOA_L	RTX-1	0.21	0.50	0		0.064291005
TO-15	Air	1,2,4-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054467115
TO-15	Air	1,2-Dibromoethane	MSVOA_L	RTX-1	0.085	0.10	0		0.026726124
TO-15	Air	1,2-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.040999419
TO-15	Air	1,2-Dichloroethane	MSVOA_L	RTX-1	0.093	0.50	0		0.029277002
TO-15	Air	1,2-Dichloropropane	MSVOA_L	RTX-1	0.13	0.50	0		0.039880775
TO-15	Air	1,3,5-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054598099
TO-15	Air	1,3-Butadiene	MSVOA_L	RTX-1	0.051	0.50	0		0.016035675
TO-15	Air	1,3-Dichlorobenzene	MSVOA_L	RTX-1	0.054	0.50	0		0.017043362
TO-15	Air	1,4-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.039460649
TO-15	Air	1,4-Dioxane	MSVOA_L	RTX-1	0.22	0.50	0		0.067330033
TO-15	Air	2,2,4-Trimethylpentane	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	2-Butanone	MSVOA_L	RTX-1	0.056	0.50	0		0.017728105
TO-15	Air	2-Chlorotoluene	MSVOA_L	RTX-1	0.17	0.50	0		0.052599113
TO-15	Air	2-Hexanone	MSVOA_L	RTX-1	0.11	0.50	0		0.033523268
TO-15	Air	4-Ethyltoluene	MSVOA_L	RTX-1	0.21	0.50	0		0.066332496
TO-15	Air	4-Methyl-2-Pentanone	MSVOA_L	RTX-1	0.097	0.50	0		0.030783422
TO-15	Air	Acetone	MSVOA_L	RTX-1	0.18	0.50	0		0.055592052
TO-15	Air	Allyl Chloride	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Benzene	MSVOA_L	RTX-1	0.079	0.50	0		0.025071327
TO-15	Air	Benzyl Chloride	MSVOA_L	RTX-1	0.089	0.50	0		0.028284271
TO-15	Air	Bromodichloromethane	MSVOA_L	RTX-1	0.063	0.50	0		0.019880596
TO-15	Air	Bromoethene	MSVOA_L	RTX-1	0.2	0.50	0		0.062678317
TO-15	Air	Bromoform	MSVOA_L	RTX-1	0.048	0.50	0		0.015118579
TO-15	Air	Bromomethane	MSVOA_L	RTX-1	0.077	0.50	0		0.024494897
TO-15	Air	Carbon Disulfide	MSVOA_L	RTX-1	0.08	0.50	0		0.02544836
TO-15	Air	Carbon Tetrachloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007690439
TO-15	Air	Chlorobenzene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	Chlorodifluoromethane	MSVOA_L	RTX-1	0.12	0.50	0		0.037859389
TO-15	Air	Chloroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045250625
TO-15	Air	Chloroform	MSVOA_L	RTX-1	0.096	0.50	0		0.030394235
TO-15	Air	Chloromethane	MSVOA_L	RTX-1	0.098	0.50	0		0.03101459
TO-15	Air	cis-1,2-Dichloroethene	MSVOA_L	RTX-1	0.099	0.50	0		0.031471832
TO-15	Air	cis-1,3-Dichloropropene	MSVOA_L	RTX-1	0.11	0.50	0		0.032071349
TO-15	Air	Cyclohexane	MSVOA_L	RTX-1	0.22	0.50	0		0.06972736
TO-15	Air	Dibromochloromethane	MSVOA_L	RTX-1	0.085	0.50	0		0.026726124
TO-15	Air	Dichlorodifluoromethane	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Dichlorotetrafluoroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045460606
TO-15	Air	Ethanol	MSVOA_L	RTX-1	0.32	0.50	0		0.098848128
TO-15	Air	Ethyl Acetate	MSVOA_L	RTX-1	0.12	0.50	0		0.036384193
TO-15	Air	Ethyl Benzene	MSVOA_L	RTX-1	0.19	0.50	0		0.058554004
TO-15	Air	Heptane	MSVOA_L	RTX-1	0.17	0.50	0		0.051130086
TO-15	Air	Hexachloro-1,3-Butadiene	MSVOA_L	RTX-1	0.13	0.50	0		0.038297084
TO-15	Air	Hexane	MSVOA_L	RTX-1	0.16	0.50	0		0.04894117
TO-15	Air	Isopropyl Alcohol	MSVOA_L	RTX-1	0.23	0.50	0		0.070676998
TO-15	Air	Isopropylbenzene	MSVOA_L	RTX-1	0.16	0.50	0		0.048205908
TO-15	Air	m/p-Xylene	MSVOA_L	RTX-1	0.41	1.00	0		0.130091543
TO-15	Air	Methyl Methacrylate	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	Methyl tert-Butyl Ether	MSVOA_L	RTX-1	0.23	0.50	0		0.07296444
TO-15	Air	Methylene Chloride	MSVOA_L	RTX-1	0.23	0.50	0		0.07204496
TO-15	Air	Naphthalene	MSVOA_L	RTX-1	0.013	0.10	0		0.004076647
TO-15	Air	Naphthalene,2-methyl-	MSVOA_L	RTX-1	0.22	0.50	0		0.069213266
TO-15	Air	n-Butylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.055805786
TO-15	Air	n-propylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.06164414
TO-15	Air	o-Xylene	MSVOA_L	RTX-1	0.21	0.50	0		0.06491753
TO-15	Air	p-Isopropyltoluene	MSVOA_L	RTX-1	0.19	0.50	0		0.059561893
TO-15	Air	Propene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	sec-Butylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.061913919
TO-15	Air	Styrene	MSVOA_L	RTX-1	0.16	0.50	0		0.05
TO-15	Air	t-1,3-Dichloropropene	MSVOA_L	RTX-1	0.15	0.50	0		0.046496288
TO-15	Air	tert-Butyl alcohol	MSVOA_L	RTX-1	0.16	0.50	0		0.048892496
TO-15	Air	tert-Butylbenzene	MSVOA_L	RTX-1	0.22	0.50	0		0.067928534
TO-15	Air	Tetrachloroethene	MSVOA_L	RTX-1	0.015	0.030	0		0.004725816
TO-15	Air	Tetrahydrofuran	MSVOA_L	RTX-1	0.08	0.50	0		0.025166115
TO-15	Air	Toluene	MSVOA_L	RTX-1	0.16	0.50	0		0.050142654
TO-15	Air	trans-1,2-Dichloroethene	MSVOA_L	RTX-1	0.12	0.50	0		0.036968455
TO-15	Air	Trichloroethene	MSVOA_L	RTX-1	0.024	0.030	0		0.007587584
TO-15	Air	Trichlorofluoromethane	MSVOA_L	RTX-1	0.17	0.50	0		0.053452248
TO-15	Air	Vinyl Acetate	MSVOA_L	RTX-1	0.26	0.50	0		0.079671946
TO-15	Air	Vinyl Chloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007955232

Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5	Concentration5
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.4
VL041885.D	0.038	01102025T01:18:00	VL041913.D	0.033	01152025T02:53:00	VL041914.D	0.037
VL041885.D	0.044	01102025T01:18:00	VL041913.D	0.033	01152025T02:53:00	VL041914.D	0.032
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.55	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.57	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.48
VL041879.D	0.58	01092025T22:17:00	VL041909.D	0.49	01152025T00:52:00	VL041910.D	0.49
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.39
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.51
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.44
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.39
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.44
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.39	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.39	01152025T00:52:00	VL041910.D	0.37
VL041879.D	0.68	01092025T22:17:00	VL041909.D	0.53	01152025T00:52:00	VL041910.D	0.53
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.28	01092025T22:17:00	VL041909.D	0.26	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.4	01152025T00:52:00	VL041910.D	0.4
VL041879.D	0.55	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.52
VL041879.D	0.37	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.4
VL041885.D	0.048	01102025T01:18:00	VL041913.D	0.026	01152025T02:53:00	VL041914.D	0.033
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.52	01152025T00:52:00	VL041910.D	0.45
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.41	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.46
VL042503.D	0.611	05062025T18:39:00	VL042518.D	0.831	05072025T15:02:00	VL042519.D	0.842
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.37
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.63	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.92	01092025T22:17:00	VL041909.D	0.72	01152025T00:52:00	VL041910.D	0.69
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.42	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.52
VL041879.D	0.63	01092025T22:17:00	VL041909.D	0.54	01152025T00:52:00	VL041910.D	0.57
VL042506.D	0.04	05062025T20:13:00	VL042521.D	0.031	05072025T16:49:00	VL042522.D	0.032
VL041879.D	0.33	01092025T22:17:00	VL041909.D	0.28	01152025T00:52:00	VL041910.D	0.25
VL041879.D	0.42	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.48
VL041879.D	0.45	01092025T22:17:00	VL041909.D	0.38	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.31
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.37
VL041885.D	0.034	01102025T01:18:00	VL041913.D	0.037	01152025T02:53:00	VL041914.D	0.034
VL041879.D	0.41	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.54	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.48
VL041885.D	0.035	01102025T01:18:00	VL041913.D	0.029	01152025T02:53:00	VL041914.D	0.033
VL041879.D	0.54	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.44
VL042515.D	0.021	05072025T13:17:00	VL042516.D	0.021	05072025T13:50:00	VL042517.D	0.014



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Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7	Department
01152025T01:23:00	VL041932.D	0.41	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.028	01212025T00:31:00	VL041940.D	0.027	01212025T09:44:00	VOC
01152025T03:23:00	VL041936.D	0.034	01212025T00:31:00	VL041940.D	0.034	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.44	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.4	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.49	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.49	01202025T22:30:00	VL041933.D	0.52	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.45	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.41	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.46	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.36	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.31	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.58	01202025T22:30:00	VL041933.D	0.54	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.43	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.29	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.42	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.52	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.38	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.029	01212025T00:31:00	VL041940.D	0.027	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.51	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.52	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.35	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.37	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.36	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.48	01202025T22:30:00	VL041933.D	0.51	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.45	01202025T23:00:00	VOC
05072025T15:37:00	VL042520.D	0.766	05072025T16:13:00	VL042569.D	0.664	05212025T16:53:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.4	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.32	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.37	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.44	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.4	01202025T22:30:00	VL041933.D	0.36	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.46	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.36	01202025T22:30:00	VL041933.D	0.35	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.64	01202025T22:30:00	VL041933.D	0.65	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
05072025T17:24:00	VL042523.D	0.03	05072025T17:58:00	VL042567.D	0.034	05212025T15:49:00	VOC
01152025T01:23:00	VL041932.D	0.2	01202025T22:30:00	VL041933.D	0.17	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.31	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.32	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.32	01202025T22:30:00	VL041933.D	0.32	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.3	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.27	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.44	01202025T22:30:00	VL041933.D	0.38	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.026	01212025T00:31:00	VL041940.D	0.03	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.44	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.033	01212025T00:31:00	VL041940.D	0.03	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
05072025T14:29:00	VL042575.D	0.034	05222025T11:27:00	VL042576.D	0.032	05222025T11:59:00	VOC

AVG Concentration	Recovery	Effective Date
0.43	108	5/22/2025
0.03	114	5/22/2025
0.04	125	5/22/2025
0.47	119	5/22/2025
0.50	125	5/22/2025
0.50	125	5/22/2025
0.50	125	5/22/2025
0.40	100	5/22/2025
0.40	100	5/22/2025
0.45	112	5/22/2025
0.48	120	5/22/2025
0.49	123	5/22/2025
0.48	119	5/22/2025
0.38	95	5/22/2025
0.51	128	5/22/2025
0.46	116	5/22/2025
0.45	112	5/22/2025
0.44	110	5/22/2025
0.42	105	5/22/2025
0.46	115	5/22/2025
0.40	100	5/22/2025
0.36	91	5/22/2025
0.37	93	5/22/2025
0.40	100	5/22/2025
0.58	146	5/22/2025
0.47	118	5/22/2025
0.45	111	5/22/2025
0.30	75	5/22/2025
0.42	106	5/22/2025
0.48	119	5/22/2025
0.35	86	5/22/2025
0.50	125	5/22/2025
0.41	102	5/22/2025
0.03	113	5/22/2025
0.48	121	5/22/2025
0.47	118	5/22/2025
0.52	130	5/22/2025
0.48	121	5/22/2025
0.50	126	5/22/2025
0.44	111	5/22/2025
0.36	91	5/22/2025
0.40	101	5/22/2025
0.38	95	5/22/2025
0.50	125	5/22/2025
0.49	123	5/22/2025
0.77	191	5/22/2025
0.42	106	5/22/2025
0.38	94	5/22/2025
0.40	100	5/22/2025
0.46	115	5/22/2025
0.43	106	5/22/2025
0.53	134	5/22/2025
0.40	101	5/22/2025
0.78	194	5/22/2025
0.38	95	5/22/2025
0.40	101	5/22/2025
0.57	143	5/22/2025
0.03	86	5/22/2025
0.27	68	5/22/2025
0.37	93	5/22/2025
0.38	95	5/22/2025
0.39	97	5/22/2025
0.38	95	5/22/2025
0.50	124	5/22/2025
0.40	100	5/22/2025
0.35	88	5/22/2025
0.35	86	5/22/2025
0.45	113	5/22/2025
0.39	98	5/22/2025
0.03	113	5/22/2025
0.42	105	5/22/2025
0.39	97	5/22/2025
0.48	120	5/22/2025
0.04	121	5/22/2025
0.48	119	5/22/2025
0.42	105	5/22/2025
0.02	82	5/22/2025



QC SUMMARY

Surrogate Summary

SDG No.: Q3557

Client: RTP Environmental

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3555-02DUP	151-IA-2DUP	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)
Q3557-01	141-AA-1	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)
Q3557-02	141-IA-1	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)
Q3557-02DL	141-IA-1DL	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)
Q3557-03	141-IA2	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q3557-04	141-SG-1	1-Bromo-4-Fluorobenzene	10	9.94	99		70 (65)	130 (135)
Q3557-05	141-SG-2	1-Bromo-4-Fluorobenzene	10	10.0	100		70 (65)	130 (135)
Q3557-05DL	141-SG-2DL	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)
VL1106ABL01	VL1106ABL01	1-Bromo-4-Fluorobenzene	10	9.77	98		70 (65)	130 (135)
VL1106ABS01	VL1106ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3557</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>RTP Environmental</u>	Datafile :	<u>VL043157.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1106ABS01	Dichlorodifluoromethane	10	10.8	ppbv	108			40 (70)	160 (130)	
	Chloromethane	10	9.10	ppbv	91			40 (70)	160 (130)	
	Vinyl Chloride	10	9.10	ppbv	91			70 (70)	130 (130)	
	Bromomethane	10	10.2	ppbv	102			40 (70)	160 (130)	
	Chloroethane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Tetrahydrofuran	10	9.30	ppbv	93			70 (70)	130 (130)	
	Trichlorofluoromethane	10	11.7	ppbv	117			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	10.7	ppbv	107			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	9.90	ppbv	99			70 (70)	130 (130)	
	Heptane	10	8.70	ppbv	87			70 (70)	130 (130)	
	1,1-Dichloroethene	10	11.0	ppbv	110			70 (70)	130 (130)	
	Acetone	10	8.90	ppbv	89			40 (70)	160 (130)	
	Carbon disulfide	10	10.7	ppbv	107			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	9.80	ppbv	98			70 (70)	130 (130)	
	Methylene Chloride	10	9.10	ppbv	91			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,1-Dichloroethane	10	10.5	ppbv	105			70 (70)	130 (130)	
	Cyclohexane	10	9.30	ppbv	93			70 (70)	130 (130)	
	2-Butanone	10	10.4	ppbv	104			40 (70)	160 (130)	
	Carbon Tetrachloride	10	11.8	ppbv	118			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	10.5	ppbv	105			70 (70)	130 (130)	
	Chloroform	10	11.0	ppbv	110			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	10.7	ppbv	107			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	9.80	ppbv	98			70 (70)	130 (130)	
	Benzene	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,2-Dichloroethane	10	11.3	ppbv	113			70 (70)	130 (130)	
	Trichloroethene	10	9.60	ppbv	96			70 (70)	130 (130)	
	1,2-Dichloropropane	10	10.0	ppbv	100			70 (70)	130 (130)	
	Bromodichloromethane	10	11.4	ppbv	114			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	9.40	ppbv	94			40 (70)	160 (130)	
	Toluene	10	9.70	ppbv	97			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	10.1	ppbv	101			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	10.0	ppbv	100			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	10.3	ppbv	103			70 (70)	130 (130)	
	Dibromochloromethane	10	11.1	ppbv	111			70 (70)	130 (130)	
	1,2-Dibromoethane	10	10.3	ppbv	103			70 (70)	130 (130)	
	Tetrachloroethene	10	10.3	ppbv	103			70 (70)	130 (130)	
	Chlorobenzene	10	10.2	ppbv	102			70 (70)	130 (130)	
	Ethyl Benzene	10	10.3	ppbv	103			70 (70)	130 (130)	
	m/p-Xylene	20	20.9	ppbv	104			70 (70)	130 (130)	
	o-Xylene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Styrene	10	9.80	ppbv	98			70 (70)	130 (130)	
	Bromoform	10	11.6	ppbv	116			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	9.90	ppbv	99			70 (70)	130 (130)	
	2-Chlorotoluene	10	10.4	ppbv	104			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	10.4	ppbv	104			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3557</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>RTP Environmental</u>	Datafile :	<u>VL043157.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1106ABS01	1,3-Dichlorobenzene	10	10.9	ppbv	109			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	10.8	ppbv	108			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	10.8	ppbv	108			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Naphthalene	10	10.1	ppbv	101			40 (70)	160 (130)	
	1,3-Butadiene	10	8.80	ppbv	88			70 (70)	130 (130)	
	4-Ethyltoluene	10	10.7	ppbv	107			70 (70)	130 (130)	
	Hexane	10	9.40	ppbv	94			70 (70)	130 (130)	
	Allyl Chloride	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,4-Dioxane	10	9.40	ppbv	94			40 (70)	160 (130)	
	Methyl methacrylate	10	9.80	ppbv	98			70 (70)	130 (130)	

Duplicate Sample Summary

Lab Sample Id :	Q3555-02DUP	Q3555-02
Client Id :	151-IA-2DUP	151-IA-2
DF :	1	1
Datafile :	VL043159.D	VL043158.D
Anal Date & Time :	11/06/2025 10:17	11/06/2025 09:42

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0.22	0.22	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	0.27	0.31	13.8
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	6.1	6.3	3.2
Allyl Chloride	0	0	0
Benzene	0.19	0.2	5.1
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.08	0.08	0

Duplicate Sample Summary

Lab Sample Id :	Q3555-02DUP	Q3555-02
Client Id :	151-IA-2DUP	151-IA-2
DF :	1	1
Datafile :	VL043159.D	VL043158.D
Anal Date & Time :	11/06/2025 10:17	11/06/2025 09:42

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0.61	0.62	1.6
Chloromethane	0.39	0.43	9.8
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.45	0.51	12.5
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.99	1	1
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.51	0.59	14.5
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	0.52	0.52	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.33	0.31	6.3
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

VL1106ABL01

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG NO.: Q3557

Lab File ID: VL043156.D

Lab Sample ID: VL1106ABL01

Date Analyzed: 11/06/2025

Time Analyzed: 08:02

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
VL1106ABS01	VL1106ABS01	VL043157.D	11/06/2025
151-IA-2DUP	Q3555-02DUP	VL043159.D	11/06/2025
141-AA-1	Q3557-01	VL043163.D	11/06/2025
141-IA-1	Q3557-02	VL043164.D	11/06/2025
141-IA2	Q3557-03	VL043165.D	11/06/2025
141-SG-2DL	Q3557-05DL	VL043171.D	11/06/2025
141-IA-1DL	Q3557-02DL	VL043172.D	11/06/2025
141-SG-1	Q3557-04	VL043177.D	11/06/2025
141-SG-2	Q3557-05	VL043178.D	11/06/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG NO.: Q3557

Lab File ID: VL043103.D

BFB Injection Date: 10/14/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:42

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	21.9
75	30.0 - 66.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	61.7
175	4.0 - 9.0% of mass 174	4.8 (7.8) 1
176	93.0 - 101.0% of mass 174	59.6 (96.5) 1
177	5.0 - 9.0% of mass 176	3.9 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL043105.D	10/14/2025	10:31
VSTDICCC002	VSTDICCC002	VL043106.D	10/14/2025	11:27
VSTDICCC001	VSTDICCC001	VL043107.D	10/14/2025	12:01
VSTDICCC0.5	VSTDICCC0.5	VL043108.D	10/14/2025	12:34
VSTDICCC0.1	VSTDICCC0.1	VL043109.D	10/14/2025	13:08
VSTDICCC0.03	VSTDICCC0.03	VL043110.D	10/14/2025	13:42
VSTDICCC015	VSTDICCC015	VL043111.D	10/14/2025	14:18

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG NO.: Q3557

Lab File ID: VL043154.D

BFB Injection Date: 11/06/2025

Instrument ID: MSVOA_L

BFB Injection Time: 06:24

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	22.9
75	30.0 - 66.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 120.0% of mass 95	62.8
175	4.0 - 9.0% of mass 174	4.9 (7.7) 1
176	93.0 - 101.0% of mass 174	61.8 (98.5) 1
177	5.0 - 9.0% of mass 176	4.3 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL043155.D	11/06/2025	07:19
VL1106ABL01	VL1106ABL01	VL043156.D	11/06/2025	08:02
VL1106ABS01	VL1106ABS01	VL043157.D	11/06/2025	08:45
151-IA-2DUP	Q3555-02DUP	VL043159.D	11/06/2025	10:17
141-AA-1	Q3557-01	VL043163.D	11/06/2025	12:44
141-IA-1	Q3557-02	VL043164.D	11/06/2025	13:17
141-IA2	Q3557-03	VL043165.D	11/06/2025	13:50
141-SG-2DL	Q3557-05DL	VL043171.D	11/06/2025	17:03
141-IA-1DL	Q3557-02DL	VL043172.D	11/06/2025	17:35
141-SG-1	Q3557-04	VL043177.D	11/06/2025	20:35
141-SG-2	Q3557-05	VL043178.D	11/06/2025	21:08

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01
 Lab Code: ACE SDG NO.: Q3557
 Lab File ID: VL043155.D Date Analyzed: 11/06/2025
 Instrument ID: MSVOA_L Time Analyzed: 07:19
 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	111679	2.79	341877	3.96	299829	8.89
UPPER LIMIT	156351	3.12	478628	4.29	419761	9.22
LOWER LIMIT	67007.4	2.46	205126	3.63	179897	8.56
EPA SAMPLE NO.						
151-IA-2DUP	118024	2.79	354784	3.96	303947	8.88
141-AA-1	114655	2.79	343053	3.96	295343	8.88
141-IA-1	115366	2.79	342427	3.96	290452	8.88
141-IA-1DL	118952	2.79	326674	3.96	276195	8.88
141-IA2	113035	2.79	330913	3.96	283774	8.88
141-SG-1	130758	2.78	364794	3.95	304142	8.87
141-SG-2	131405	2.79	358615	3.96	303524	8.88
141-SG-2DL	111726	2.79	310352	3.96	260144	8.88
VL1106ABL01	111463	2.79	342563	3.96	292913	8.88
VL1106ABS01	111380	2.79	340583	3.96	299526	8.88

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

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

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



SAMPLE DATA

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-AA-1
Lab Sample ID: Q3557-01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.50	2.47		1	0.54	2.47	11/06/25 12:44	VL110625
74-87-3	Chloromethane	0.47	0.97	J	1	0.21	1.03	11/06/25 12:44	VL110625
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/06/25 12:44	VL110625
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/06/25 12:44	VL110625
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/06/25 12:44	VL110625
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/06/25 12:44	VL110625
75-69-4	Trichlorofluoromethane	0.26	1.46	J	1	0.96	2.81	11/06/25 12:44	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/06/25 12:44	VL110625
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/06/25 12:44	VL110625
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/06/25 12:44	VL110625
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/06/25 12:44	VL110625
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/06/25 12:44	VL110625
67-64-1	Acetone	2.60	6.18		1	0.43	1.19	11/06/25 12:44	VL110625
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/06/25 12:44	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/06/25 12:44	VL110625
75-09-2	Methylene Chloride	0.77	2.68		1	0.80	1.74	11/06/25 12:44	VL110625
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/06/25 12:44	VL110625
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/06/25 12:44	VL110625
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/06/25 12:44	VL110625
78-93-3	2-Butanone	0.22	0.65	J	1	0.18	1.47	11/06/25 12:44	VL110625
56-23-5	Carbon Tetrachloride	0.080	0.50		1	0.19	0.19	11/06/25 12:44	VL110625
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/06/25 12:44	VL110625
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/06/25 12:44	VL110625
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/06/25 12:44	VL110625
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/06/25 12:44	VL110625
71-43-2	Benzene	0.11	0.35	J	1	0.26	1.60	11/06/25 12:44	VL110625
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/06/25 12:44	VL110625
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/06/25 12:44	VL110625
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/06/25 12:44	VL110625
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/06/25 12:44	VL110625
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/06/25 12:44	VL110625
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/06/25 12:44	VL110625
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/06/25 12:44	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/06/25 12:44	VL110625
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/06/25 12:44	VL110625
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/06/25 12:44	VL110625
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/06/25 12:44	VL110625
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/06/25 12:44	VL110625
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/06/25 12:44	VL110625
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/06/25 12:44	VL110625
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/06/25 12:44	VL110625
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/06/25 12:44	VL110625
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/06/25 12:44	VL110625
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/06/25 12:44	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/06/25 12:44	VL110625
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/06/25 12:44	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-AA-1
Lab Sample ID: Q3557-01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 12:44	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 12:44	VL110625
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/06/25 12:44	VL110625
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 12:44	VL110625
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 12:44	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/06/25 12:44	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/06/25 12:44	VL110625
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/06/25 12:44	VL110625
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/06/25 12:44	VL110625
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/06/25 12:44	VL110625
110-54-3	Hexane	0.77	2.71		1	0.56	1.76	11/06/25 12:44	VL110625
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/06/25 12:44	VL110625
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/06/25 12:44	VL110625
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/06/25 12:44	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.2 70 (65) - 130 102% SPK: 10

INTERNAL STANDARDS

	Area Count
74-97-5 Bromochloromethane	115000
540-36-3 1,4-Difluorobenzene	343000
3114-55-4 Chlorobenzene-d5	295000

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\VL110625\
 Data File : VL043163.D
 Acq On : 06 Nov 2025 12:44
 Operator : SY/MD
 Sample : Q3557-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-AA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:21:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

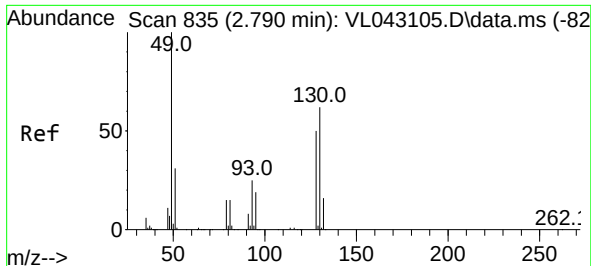
Internal Standards						
1) Bromochloromethane	2.787	49	114655	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	343053	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	295343	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	233984	10.193	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8126	0.499	ppbv	98
3) Chlorodifluoromethane	1.476	51	5049m	0.286	ppbv	
4) Chloromethane	1.534	50	3050	0.472	ppbv	91
9) Propene	1.489	41	2649	0.339	ppbv	92
11) Trichlorofluoromethane	1.881	101	4157	0.261	ppbv	95
13) Ethanol	1.722	45	7183	2.483	ppbv #	38
15) Acetone	1.835	43	40561	2.625	ppbv	99
19) Isopropyl Alcohol	1.887	45	8851	0.920	ppbv #	1
20) Methylene Chloride	2.062	84	4671	0.765	ppbv	95
26) Hexane	2.826	57	13632	0.772	ppbv #	42
34) 2-Butanone	2.560	43	5042	0.219	ppbv	99
35) Carbon Tetrachloride	3.758	117	2007m	0.081	ppbv	
36) Benzene	3.651	78	3660m	0.113	ppbv	
53) Toluene	6.936	91	4910m	0.128	ppbv	

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

Manual Integrations

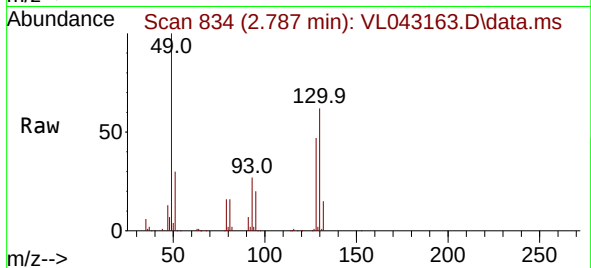
Quant Time: Nov 07 00:21:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

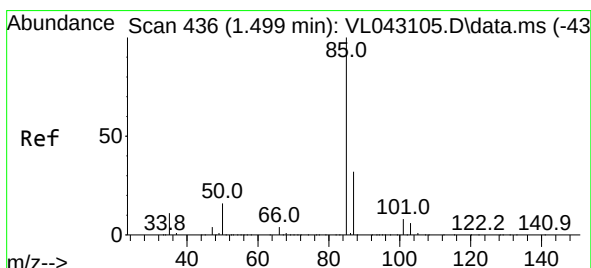
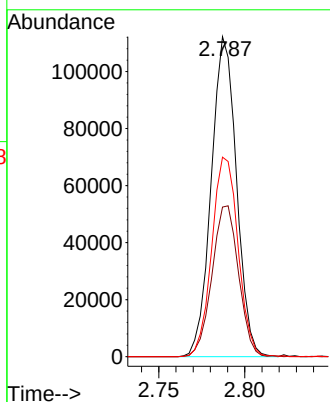
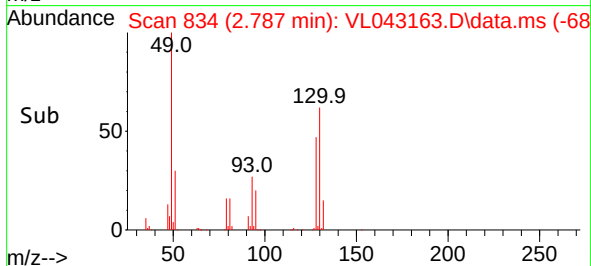
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 49 Resp: 11465
Ion Ratio Lower Upper
49 100
128 49.6 24.4 73.4
130 64.9 31.0 93.0

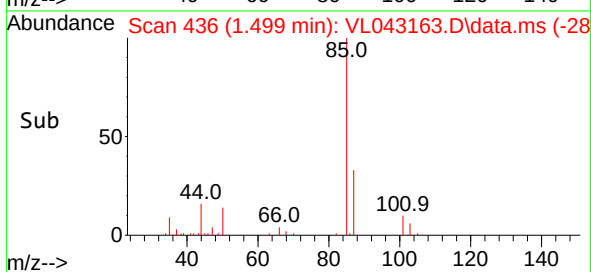
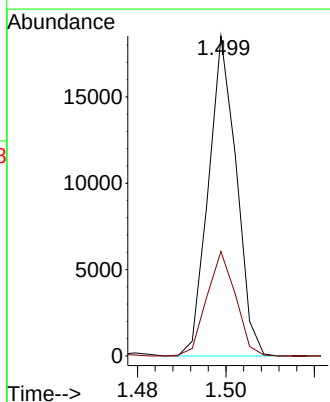
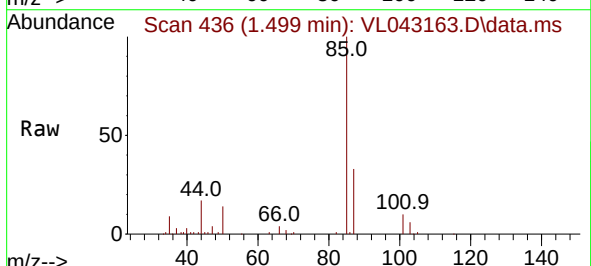
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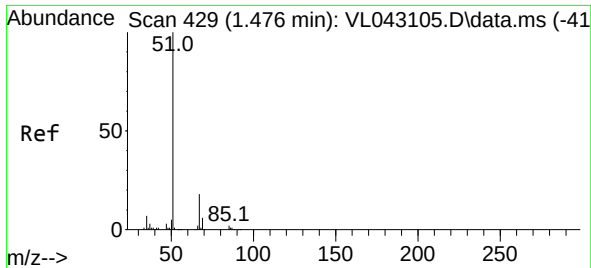
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 85 Resp: 8126
Ion Ratio Lower Upper
85 100
87 32.7 25.3 37.9





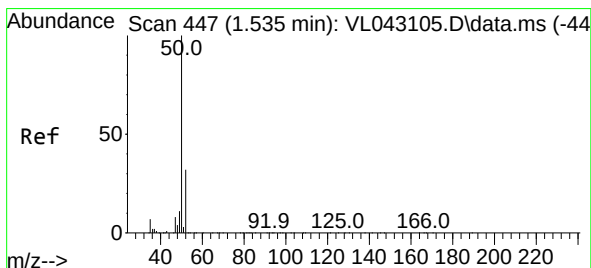
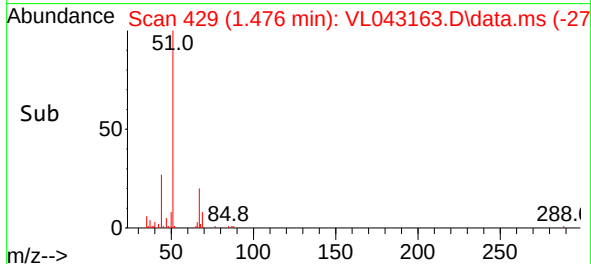
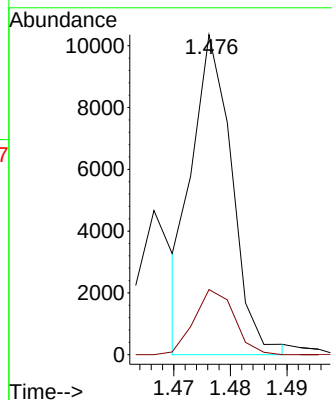
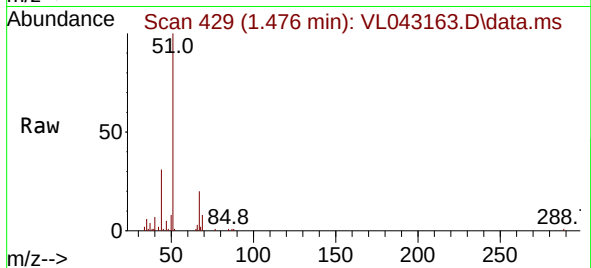
#3
Chlorodifluoromethane
Concen: 0.286 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

Tgt Ion: 51 Resp: 5049
Ion Ratio Lower Upper
51 100
67 21.0 15.1 22.7

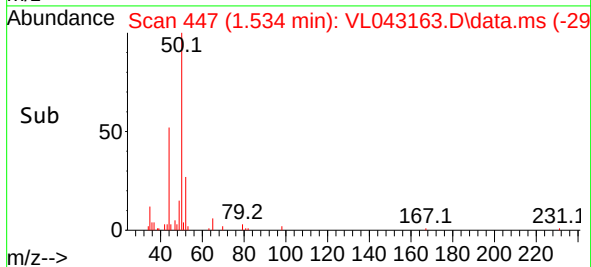
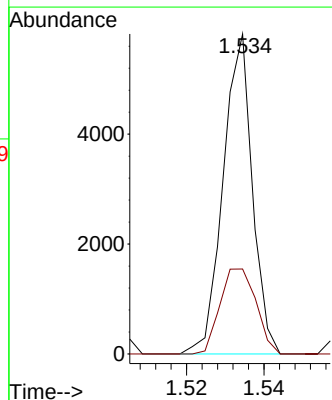
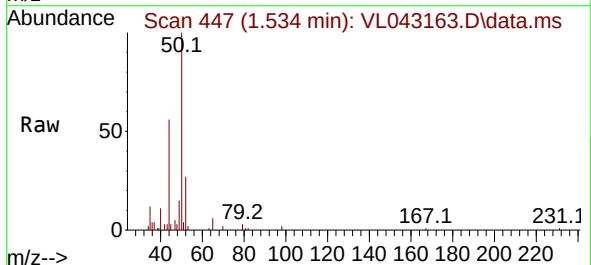
Manual Integrations
APPROVED

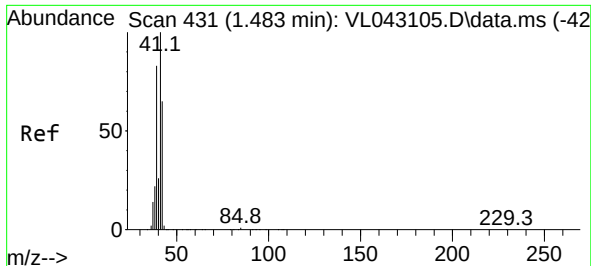
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.472 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 50 Resp: 3050
Ion Ratio Lower Upper
50 100
52 26.5 25.2 37.8





#9

Propene

Concen: 0.339 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

141-AA-1

Tgt Ion: 41 Resp: 2649

Ion Ratio Lower Upper

41 100

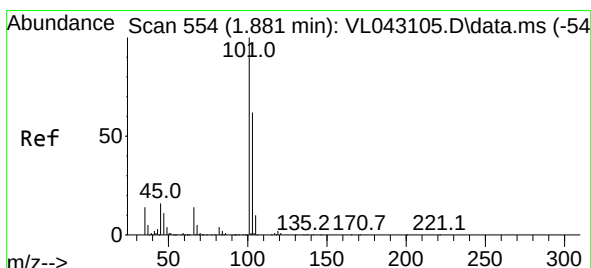
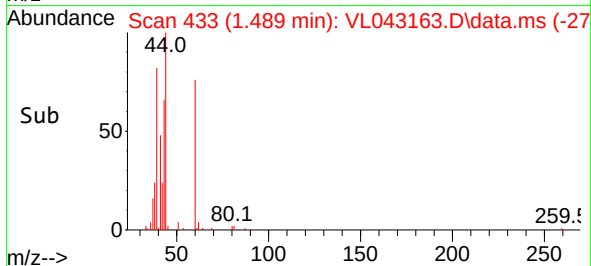
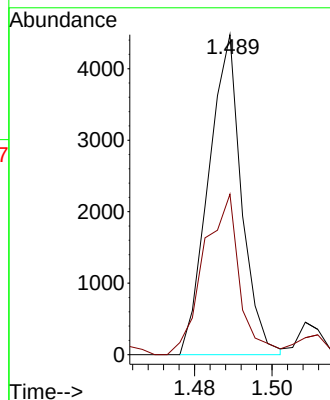
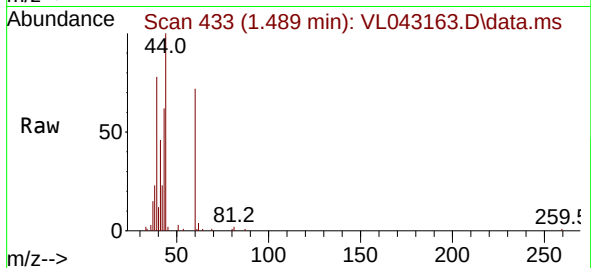
42 62.0 55.1 82.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043163.D

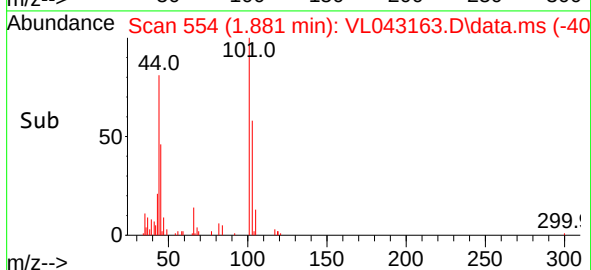
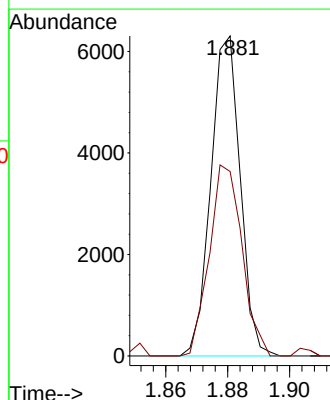
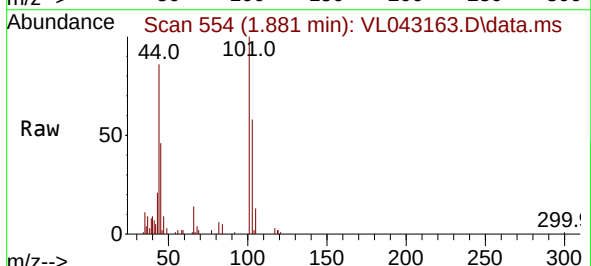
Acq: 06 Nov 2025 12:44

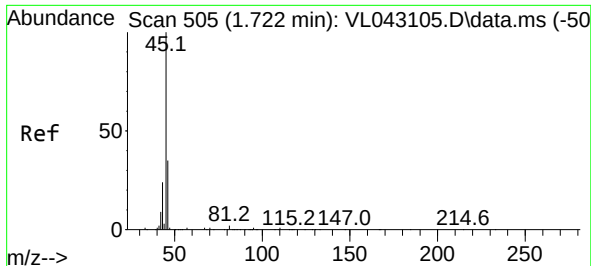
Tgt Ion:101 Resp: 4157

Ion Ratio Lower Upper

101 100

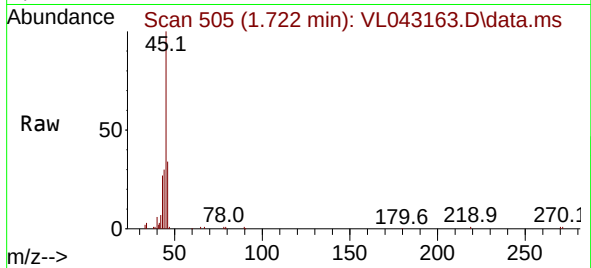
103 57.6 49.3 73.9





#13
Ethanol
Concen: 2.483 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

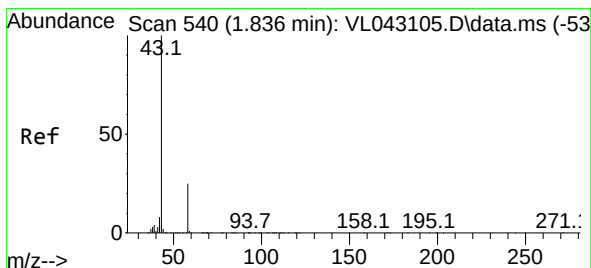
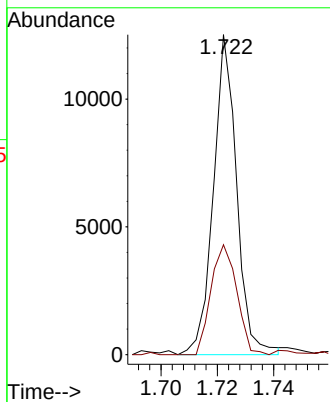
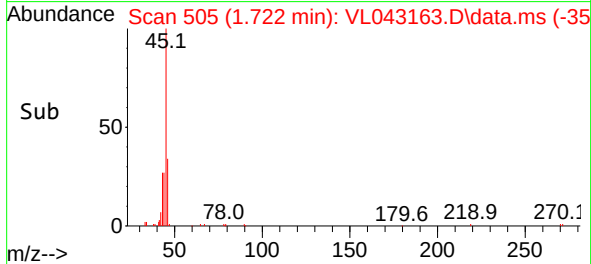
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



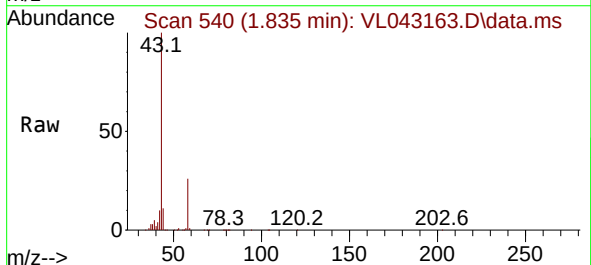
Tgt Ion: 45 Resp: 7183
Ion Ratio Lower Upper
45 100
46 0.0 14.7 58.9

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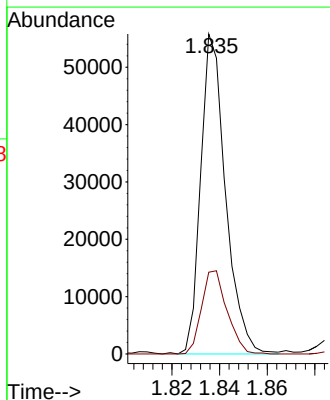
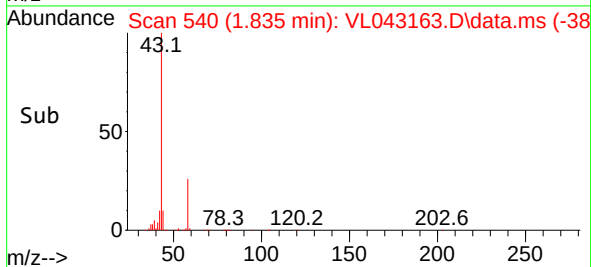
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

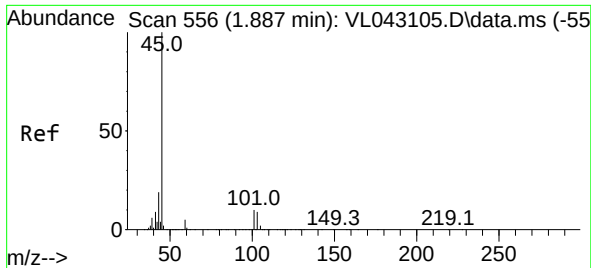


#15
Acetone
Concen: 2.625 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44



Tgt Ion: 43 Resp: 40561
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2





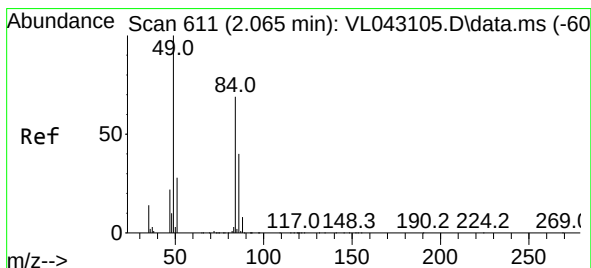
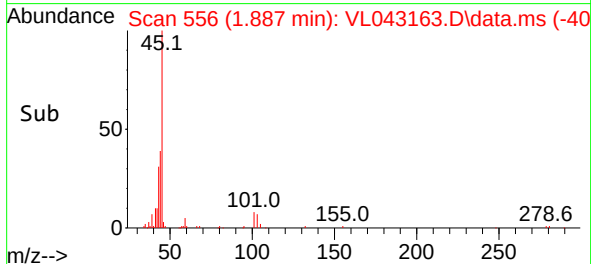
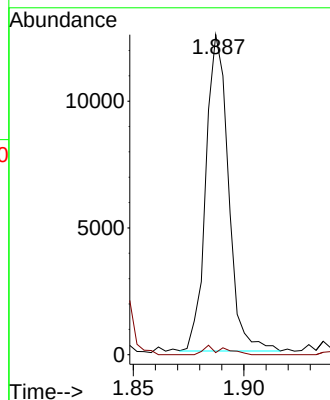
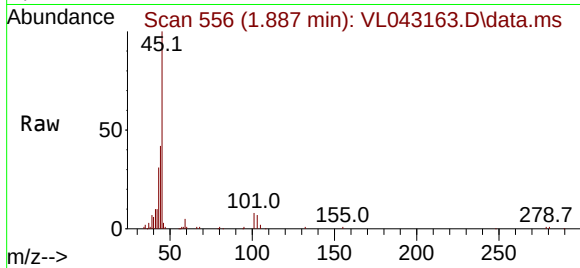
#19
Isopropyl Alcohol
Concen: 0.920 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

Tgt Ion: 45 Resp: 885
Ion Ratio Lower Upper
45 100
58 121.8 31.3 46.9

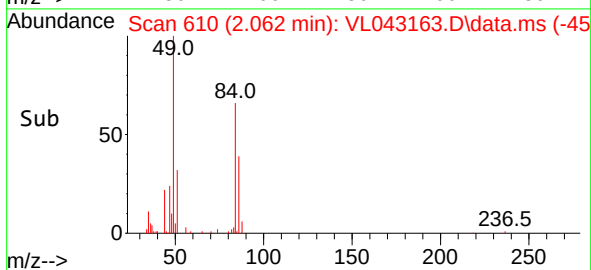
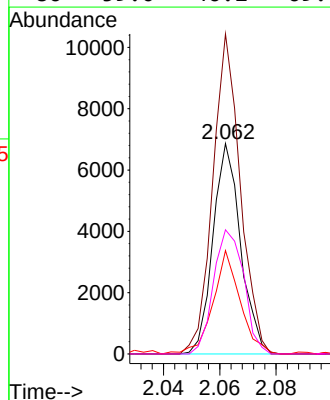
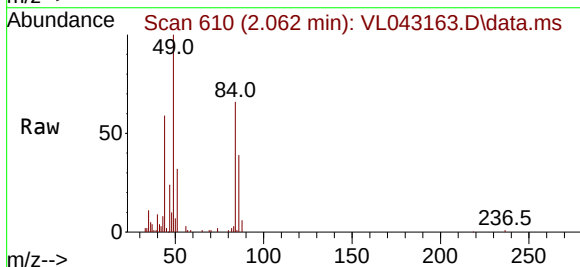
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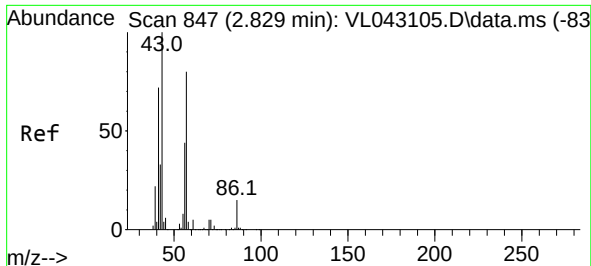
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#20
Methylene Chloride
Concen: 0.765 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

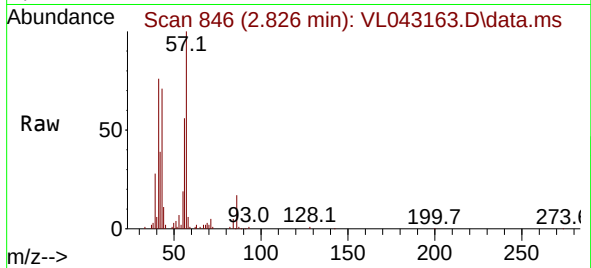
Tgt Ion: 84 Resp: 4671
Ion Ratio Lower Upper
84 100
49 152.1 116.6 175.0
51 49.1 34.8 52.2
86 59.0 46.2 69.4





#26
Hexane
Concen: 0.772 ppbv
RT: 2.826 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

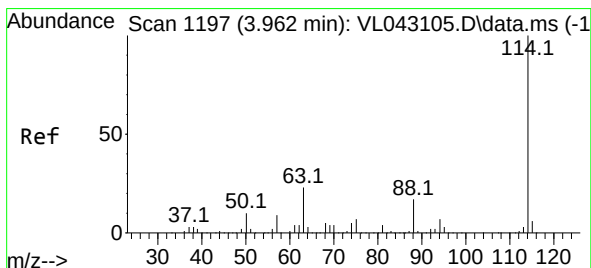
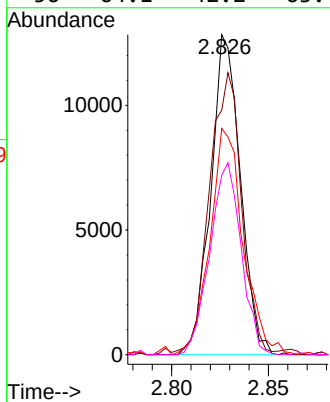
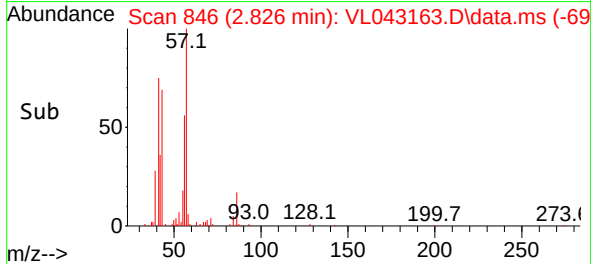
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 57 Resp: 13632
Ion Ratio Lower Upper
57 100
41 98.1 71.4 107.0
43 80.4 178.5 267.7
56 64.1 42.2 63.4

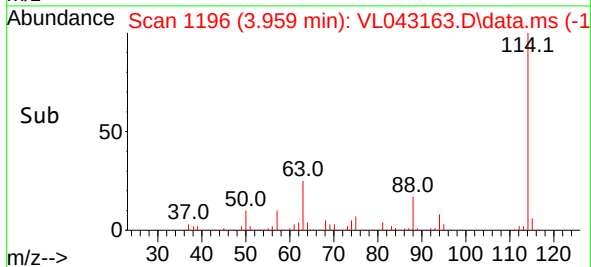
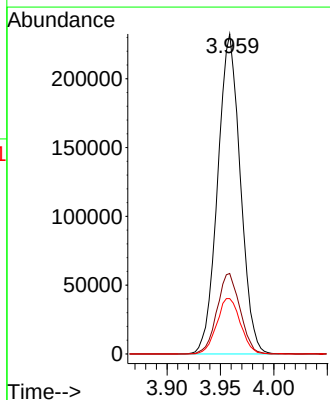
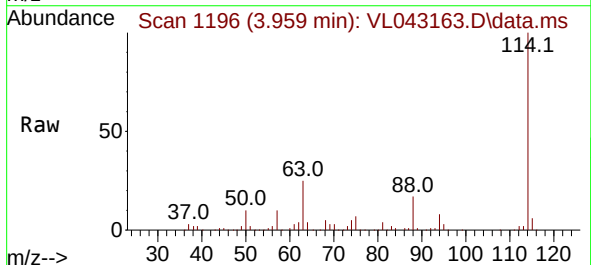
Manual Integrations
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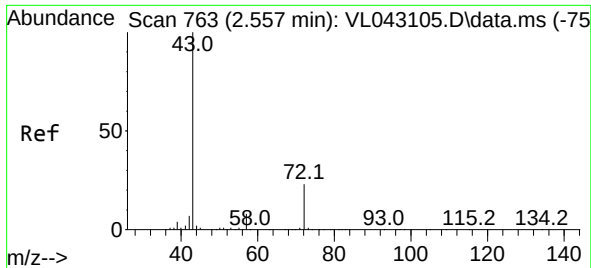
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

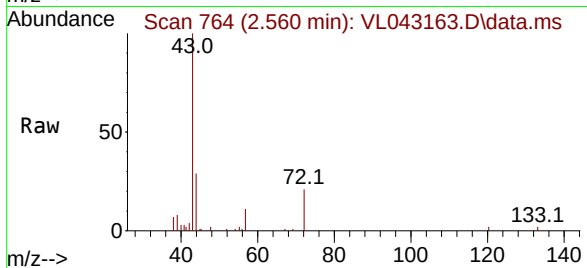
Tgt Ion:114 Resp: 343053
Ion Ratio Lower Upper
114 100
63 25.6 19.3 28.9
88 18.1 13.9 20.9





#34
2-Butanone
Concen: 0.219 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

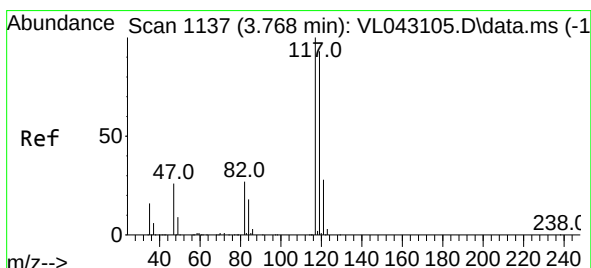
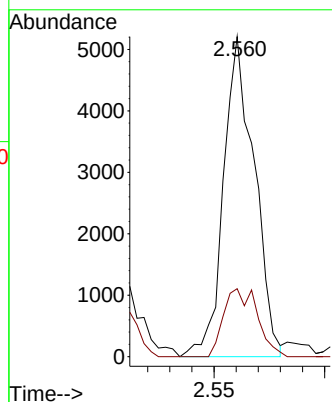
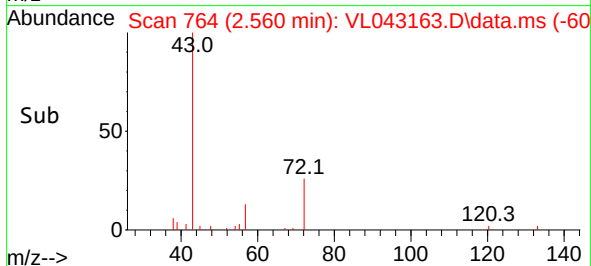
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 43 Resp: 504
Ion Ratio Lower Upper
43 100
72 23.3 18.4 27.6

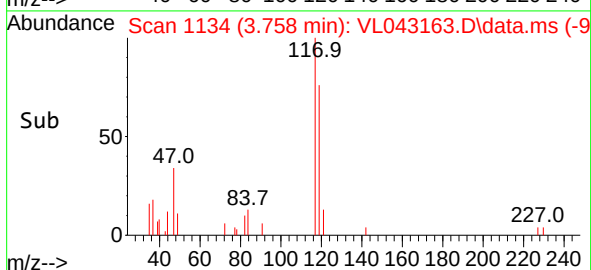
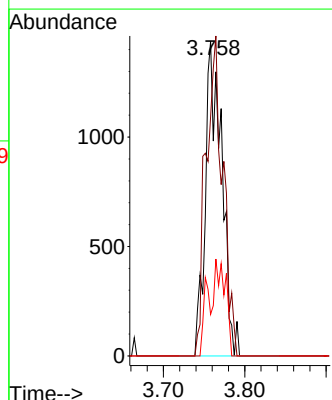
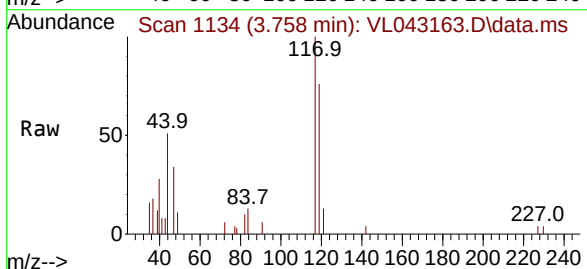
Manual Integrations
APPROVED

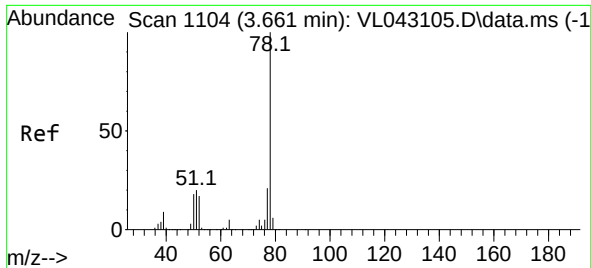
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.010 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

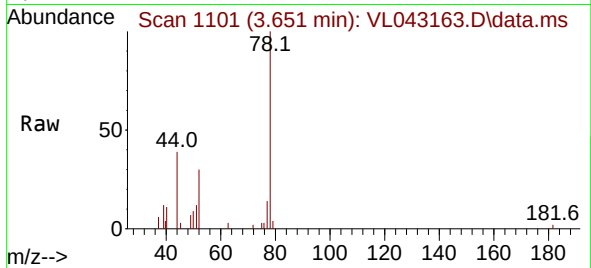
Tgt Ion:117 Resp: 2007
Ion Ratio Lower Upper
117 100
119 75.9 74.1 111.1
121 13.2 22.2 33.2#





#36
Benzene
Concen: 0.113 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

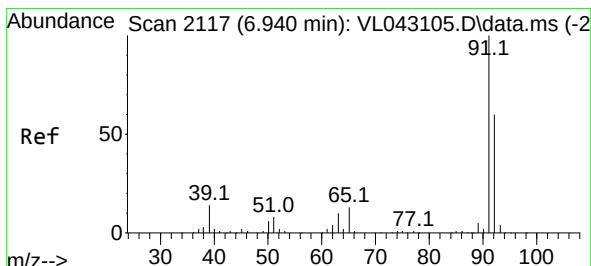
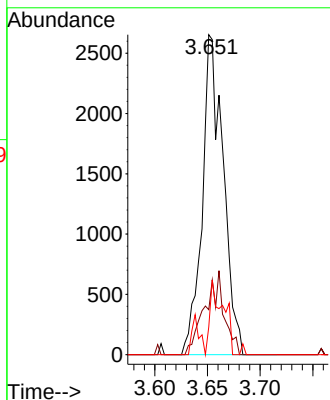
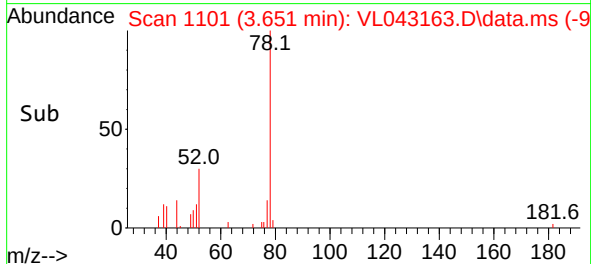
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 78 Resp: 3660
Ion Ratio Lower Upper
78 100
77 14.0 17.0 25.6
50 8.6 14.6 22.0

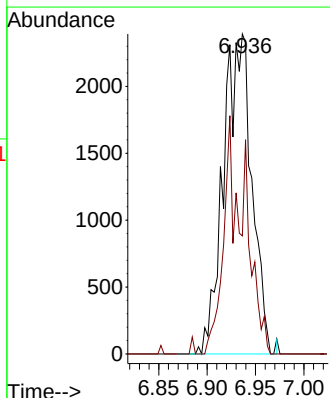
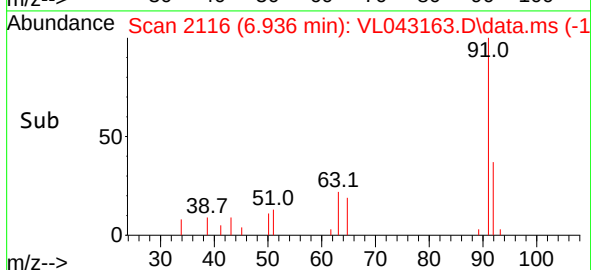
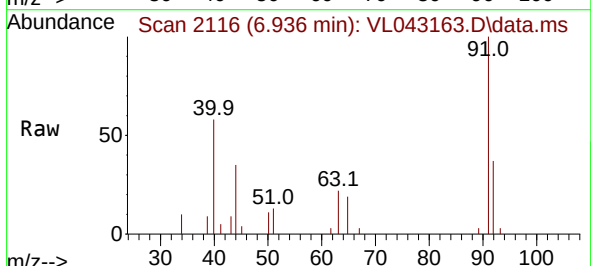
Manual Integrations
APPROVED

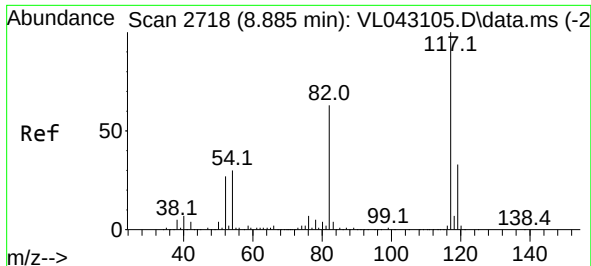
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.128 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 91 Resp: 4910
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2





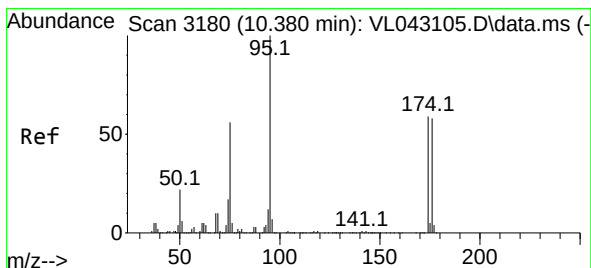
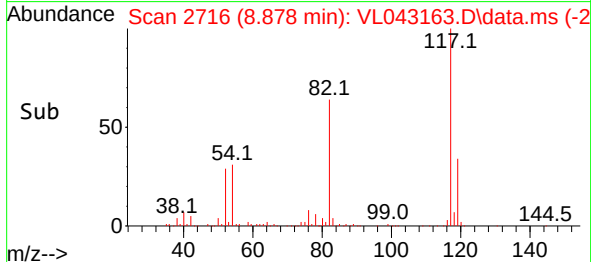
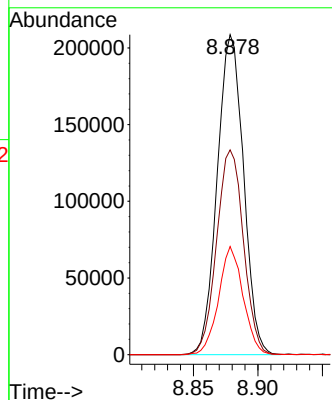
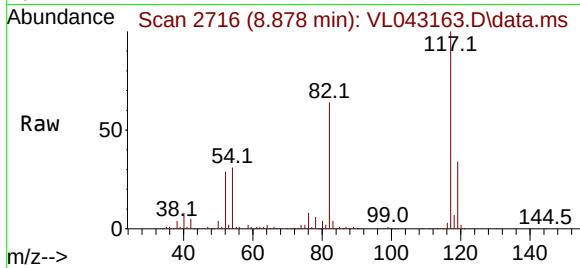
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

Tgt Ion:117 Resp: 29534
Ion Ratio Lower Upper
117 100
82 65.3 53.8 80.8
119 31.7 25.4 38.0

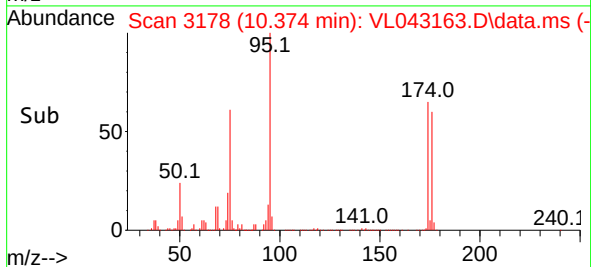
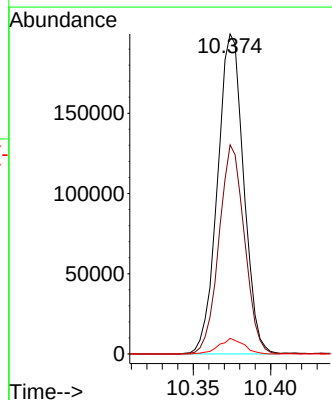
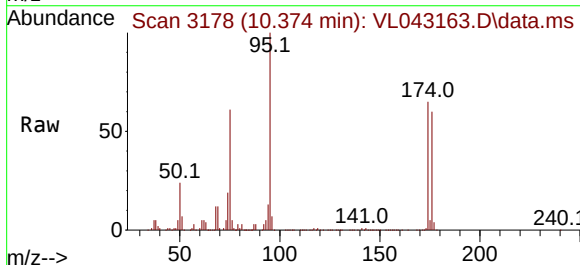
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.193 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 95 Resp: 233984
Ion Ratio Lower Upper
95 100
174 64.1 48.3 72.5
175 4.6 3.8 5.8



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-IA-1
Lab Sample ID: Q3557-02
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.50	7.42		1	0.54	2.47	11/06/25 13:17	VL110625
74-87-3	Chloromethane	0.45	0.93	J	1	0.21	1.03	11/06/25 13:17	VL110625
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/06/25 13:17	VL110625
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/06/25 13:17	VL110625
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/06/25 13:17	VL110625
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/06/25 13:17	VL110625
75-69-4	Trichlorofluoromethane	0.33	1.85	J	1	0.96	2.81	11/06/25 13:17	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/06/25 13:17	VL110625
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/06/25 13:17	VL110625
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/06/25 13:17	VL110625
142-82-5	Heptane	0.19	0.78	J	1	0.70	2.05	11/06/25 13:17	VL110625
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/06/25 13:17	VL110625
67-64-1	Acetone	8.90	21.1		1	0.43	1.19	11/06/25 13:17	VL110625
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/06/25 13:17	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/06/25 13:17	VL110625
75-09-2	Methylene Chloride	15.8	54.9	E	1	0.80	1.74	11/06/25 13:17	VL110625
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/06/25 13:17	VL110625
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/06/25 13:17	VL110625
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/06/25 13:17	VL110625
78-93-3	2-Butanone	1.50	4.42		1	0.18	1.47	11/06/25 13:17	VL110625
56-23-5	Carbon Tetrachloride	0.080	0.50		1	0.19	0.19	11/06/25 13:17	VL110625
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/06/25 13:17	VL110625
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/06/25 13:17	VL110625
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/06/25 13:17	VL110625
540-84-1	2,2,4-Trimethylpentane	0.33	1.54	J	1	0.65	2.34	11/06/25 13:17	VL110625
71-43-2	Benzene	0.38	1.21	J	1	0.26	1.60	11/06/25 13:17	VL110625
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/06/25 13:17	VL110625
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/06/25 13:17	VL110625
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/06/25 13:17	VL110625
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/06/25 13:17	VL110625
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/06/25 13:17	VL110625
108-88-3	Toluene	0.59	2.22		1	0.60	1.88	11/06/25 13:17	VL110625
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/06/25 13:17	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/06/25 13:17	VL110625
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/06/25 13:17	VL110625
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/06/25 13:17	VL110625
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/06/25 13:17	VL110625
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/06/25 13:17	VL110625
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/06/25 13:17	VL110625
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/06/25 13:17	VL110625
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/06/25 13:17	VL110625
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/06/25 13:17	VL110625
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/06/25 13:17	VL110625
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/06/25 13:17	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/06/25 13:17	VL110625
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/06/25 13:17	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-IA-1
Lab Sample ID: Q3557-02
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 13:17	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 13:17	VL110625
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/06/25 13:17	VL110625
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 13:17	VL110625
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 13:17	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/06/25 13:17	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/06/25 13:17	VL110625
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/06/25 13:17	VL110625
91-20-3	Naphthalene	0.13	0.68		1	0.050	0.52	11/06/25 13:17	VL110625
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/06/25 13:17	VL110625
110-54-3	Hexane	6.90	24.3		1	0.56	1.76	11/06/25 13:17	VL110625
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/06/25 13:17	VL110625
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/06/25 13:17	VL110625
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/06/25 13:17	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.5 70 (65) - 130 105% SPK: 10

INTERNAL STANDARDS

Area Count
74-97-5 Bromochloromethane 115000
540-36-3 1,4-Difluorobenzene 342000
3114-55-4 Chlorobenzene-d5 290000

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\VL110625\
 Data File : VL043164.D
 Acq On : 06 Nov 2025 13:17
 Operator : SY/MD
 Sample : Q3557-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	115366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	342427	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	290452	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	237353	10.513	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	24649	1.503	ppbv	96
3) Chlorodifluoromethane	1.476	51	4525m	0.255	ppbv	
4) Chloromethane	1.534	50	2908	0.448	ppbv	96
9) Propene	1.489	41	18904m	2.402	ppbv	
10) Heptane	4.985	43	4298m	0.190	ppbv	
11) Trichlorofluoromethane	1.884	101	5366	0.334	ppbv	94
13) Ethanol	1.722	45	76195	26.173	ppbv	100
15) Acetone	1.839	43	138148	8.884	ppbv	92
19) Isopropyl Alcohol	1.887	45	9578	0.989	ppbv #	1
20) Methylene Chloride	2.065	84	97396	15.846	ppbv	93
26) Hexane	2.832	57	122149	6.875	ppbv #	42
30) Cyclohexane	3.865	84	3316	0.214	ppbv #	79
34) 2-Butanone	2.560	43	34716	1.508	ppbv	99
35) Carbon Tetrachloride	3.768	117	1853m	0.075	ppbv	
36) Benzene	3.661	78	12305	0.382	ppbv	98
44) 2,2,4-Trimethylpentane	4.641	57	17870	0.328	ppbv #	78
51) 2-Hexanone	7.441	43	11366m	0.477	ppbv	
53) Toluene	6.936	91	22705	0.593	ppbv	97
58) Ethyl Benzene	9.360	91	5488m	0.110	ppbv	
59) m/p-Xylene	9.535	91	15295	0.385	ppbv	99
60) o-Xylene	9.969	91	5758	0.147	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	5751	0.129	ppbv #	55
79) Naphthalene	13.516	128	6216m	0.133	ppbv	

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

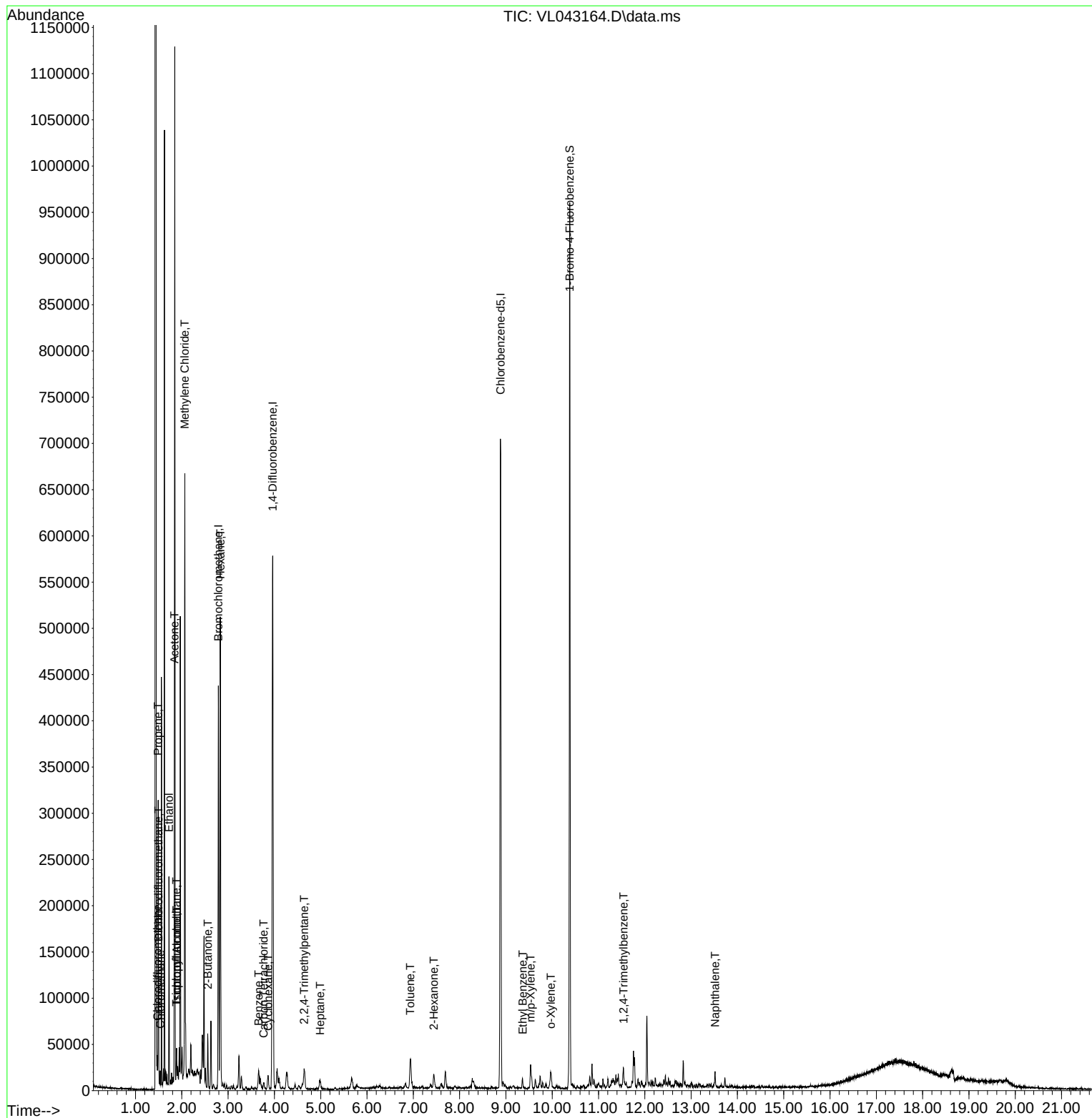
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Data File : VL043164.D
Acq On : 06 Nov 2025 13:17
Operator : SY/MD
Sample : Q3557-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

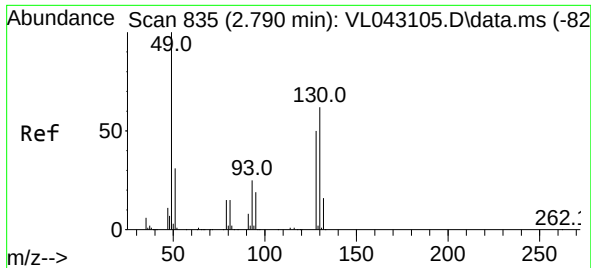
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

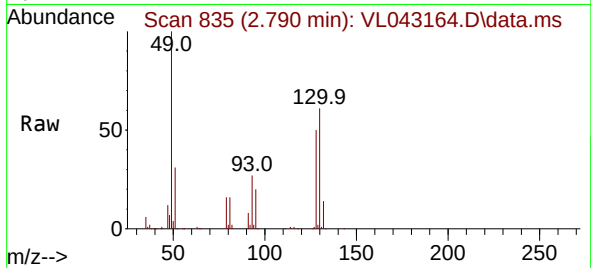
Quant Time: Nov 07 00:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

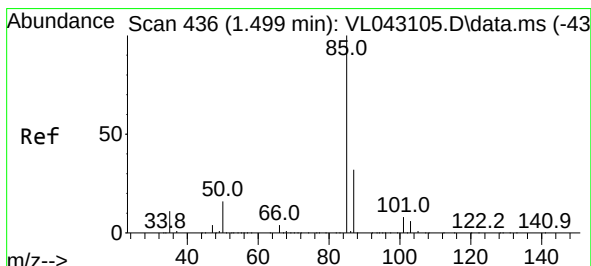
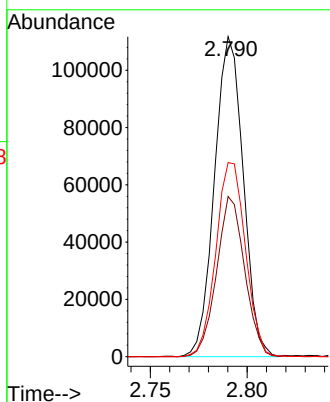
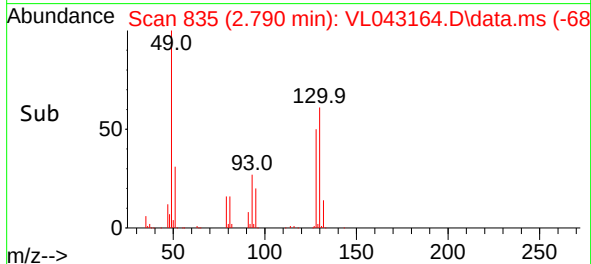
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



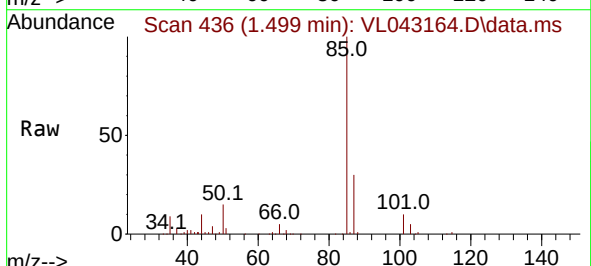
Tgt Ion: 49 Resp: 115360
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 62.7 31.0 93.0

Manual Integrations
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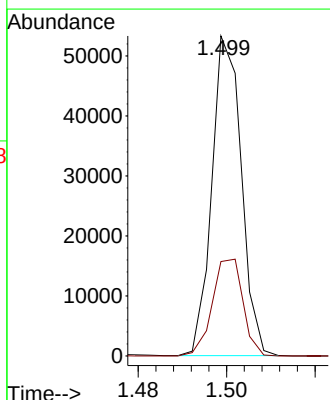
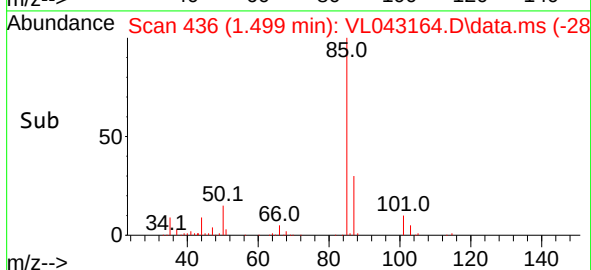
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

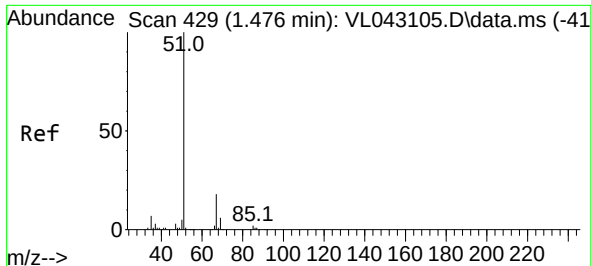


#2
Dichlorodifluoromethane
Concen: 1.503 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17



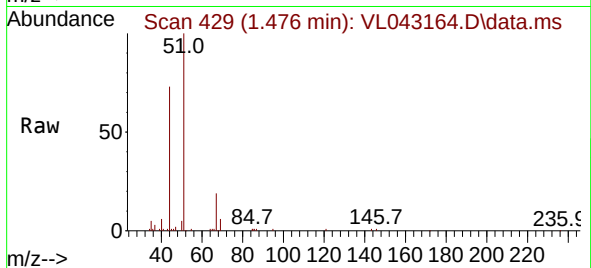
Tgt Ion: 85 Resp: 24649
Ion Ratio Lower Upper
85 100
87 29.5 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.255 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

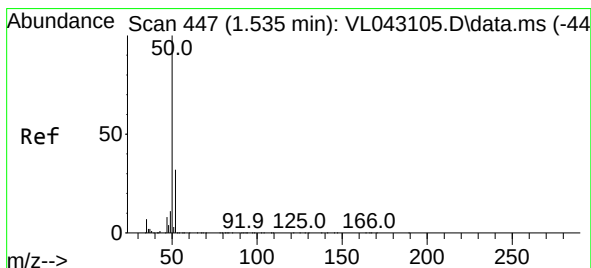
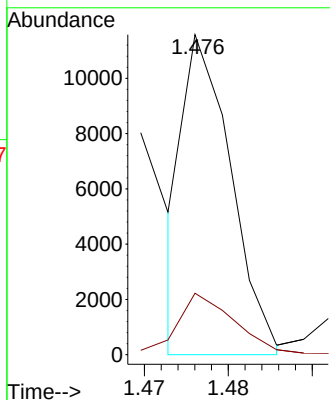
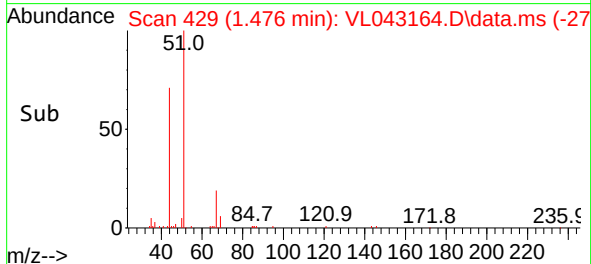
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



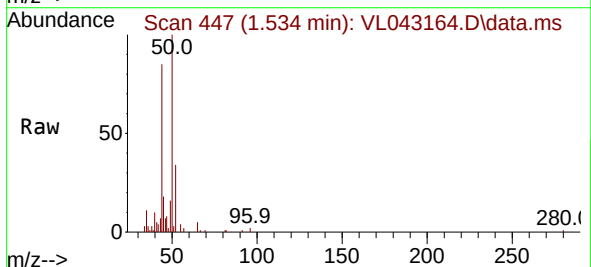
Tgt Ion: 51 Resp: 4529
Ion Ratio Lower Upper
51 100
67 24.2 15.1 22.7

Manual Integrations
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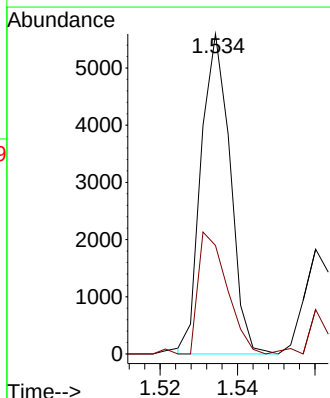
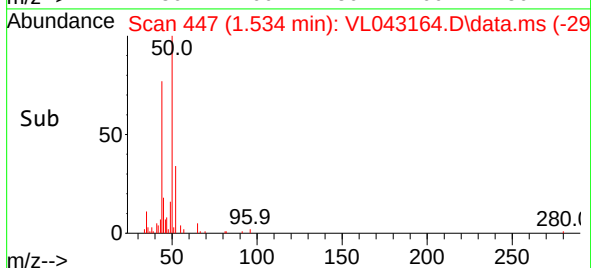
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

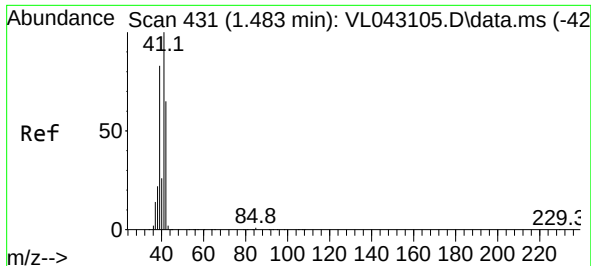


#4
Chloromethane
Concen: 0.448 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17



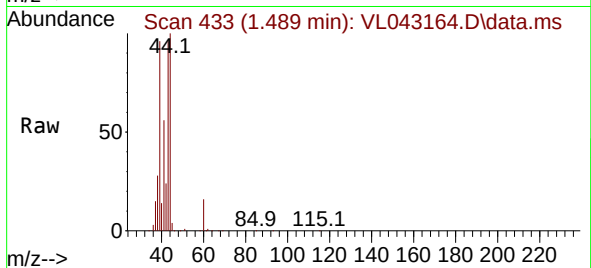
Tgt Ion: 50 Resp: 2908
Ion Ratio Lower Upper
50 100
52 33.9 25.2 37.8





#9
Propene
Concen: 2.402 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

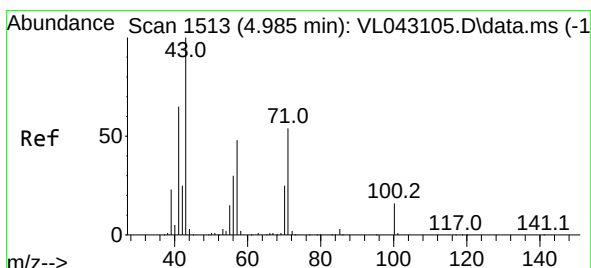
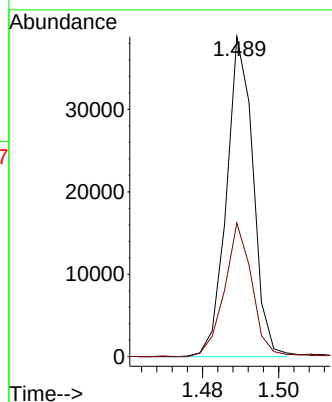
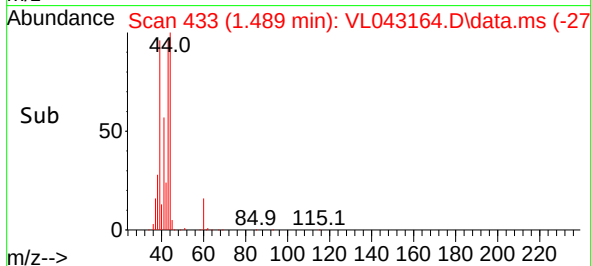
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 41 Resp: 18904
Ion Ratio Lower Upper
41 100
42 168.0 55.1 82.75

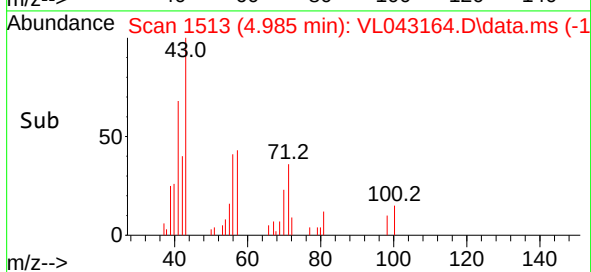
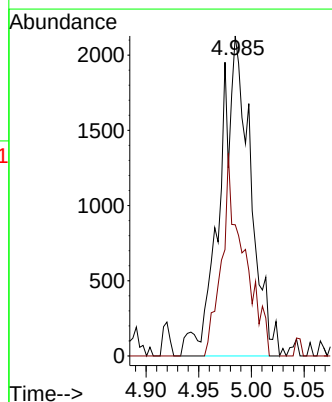
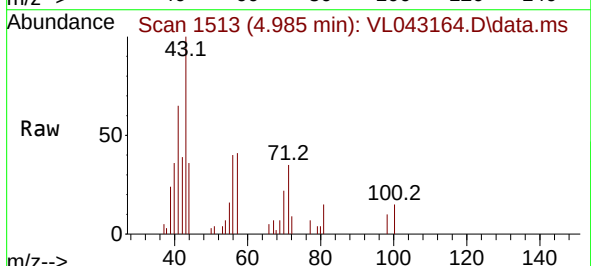
Manual Integrations
APPROVED

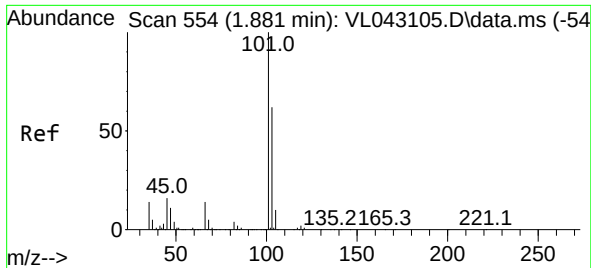
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#10
Heptane
Concen: 0.190 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

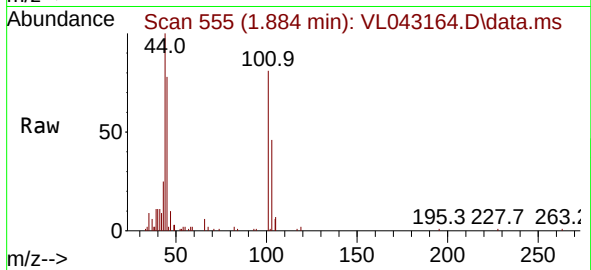
Tgt Ion: 43 Resp: 4298
Ion Ratio Lower Upper
43 100
57 0.0 40.8 61.2#





#11
Trichlorofluoromethane
Concen: 0.334 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

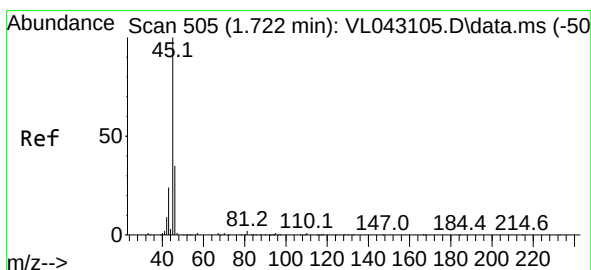
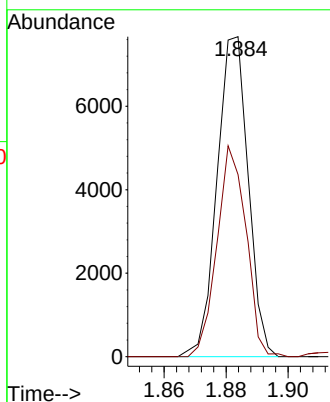
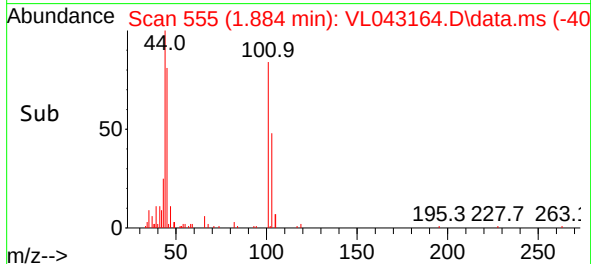
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ClientSampleId :
141-IA-1



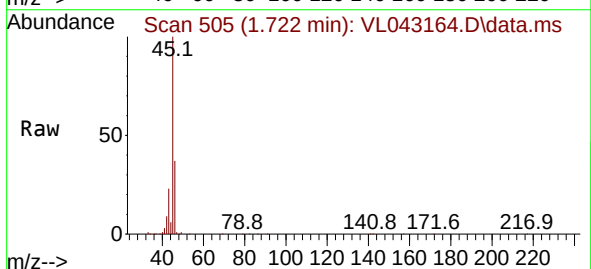
Tgt Ion:101 Resp: 5360
Ion Ratio Lower Upper
101 100
103 56.9 49.3 73.9

Manual Integrations
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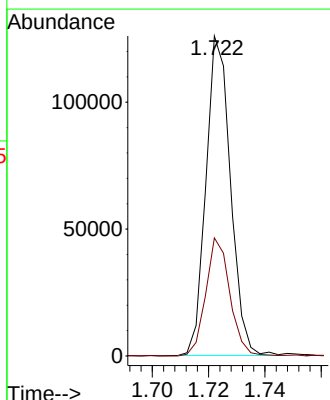
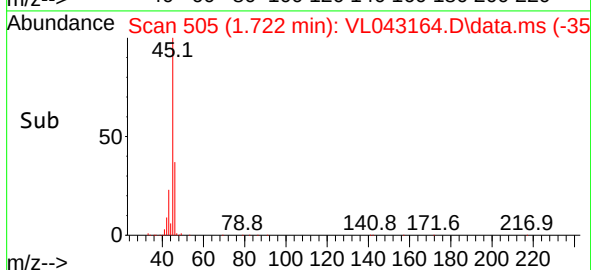
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

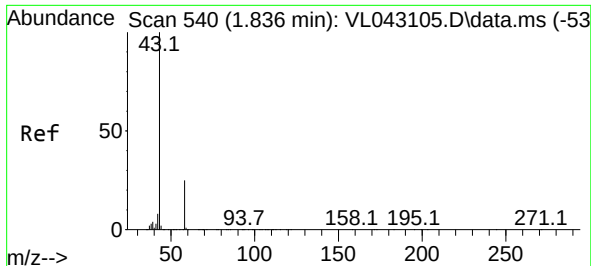


#13
Ethanol
Concen: 26.173 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17



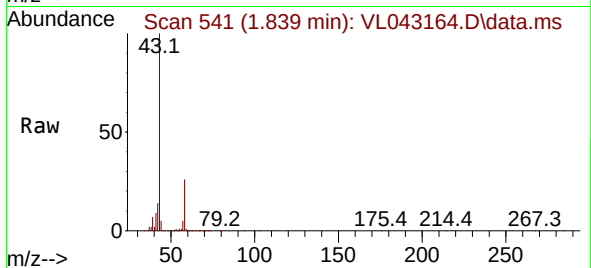
Tgt Ion: 45 Resp: 76195
Ion Ratio Lower Upper
45 100
46 36.8 14.7 58.9





#15
Acetone
Concen: 8.884 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

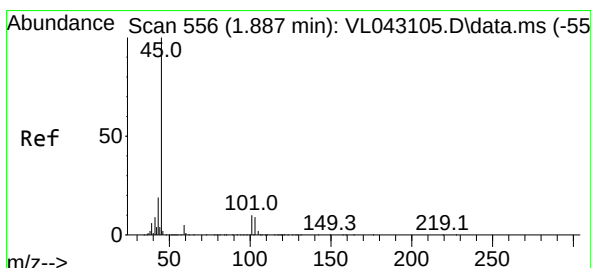
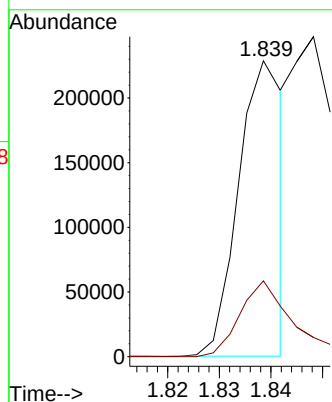
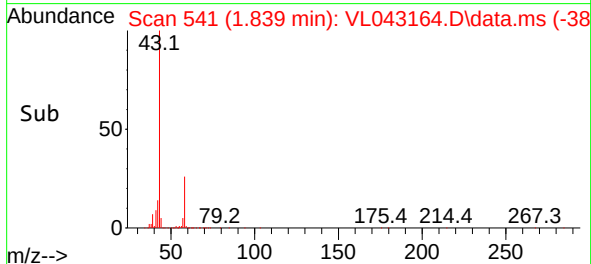
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 43 Resp: 138148
Ion Ratio Lower Upper
43 100
58 30.2 20.8 31.2

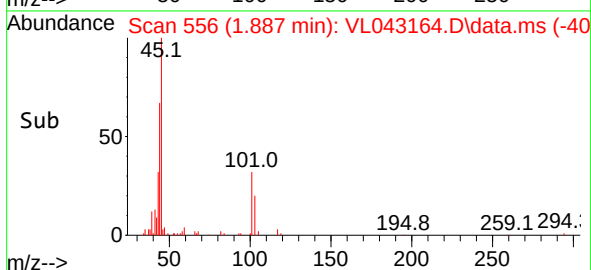
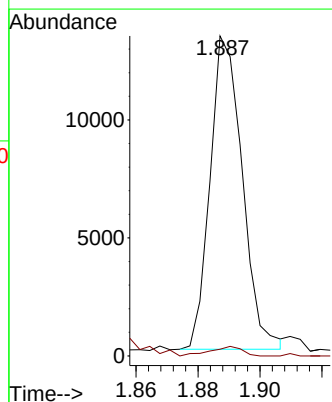
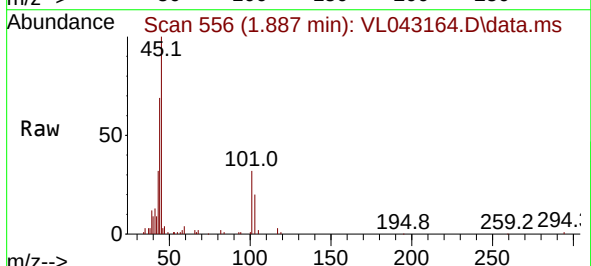
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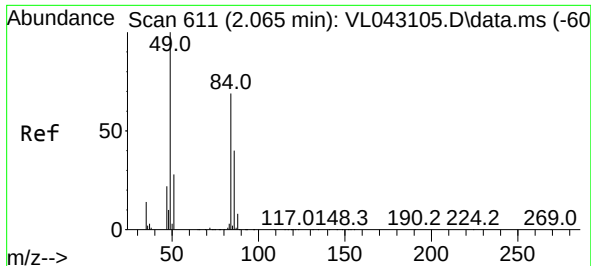
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#19
Isopropyl Alcohol
Concen: 0.989 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 45 Resp: 9578
Ion Ratio Lower Upper
45 100
58 434.7 31.3 46.9#





#20

Methylene Chloride

Concen: 15.846 ppbv

RT: 2.065 min Scan# 611

Delta R.T. -0.000 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

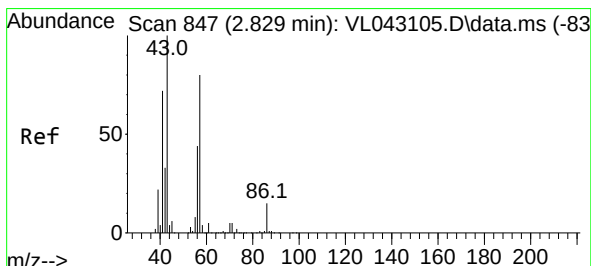
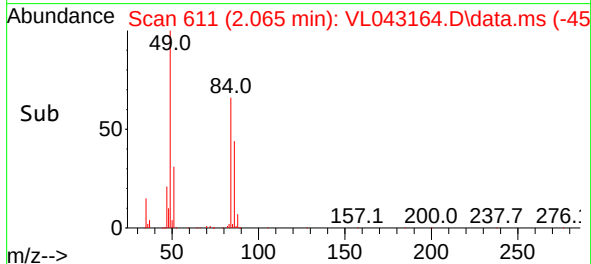
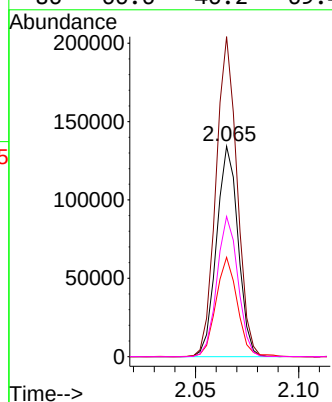
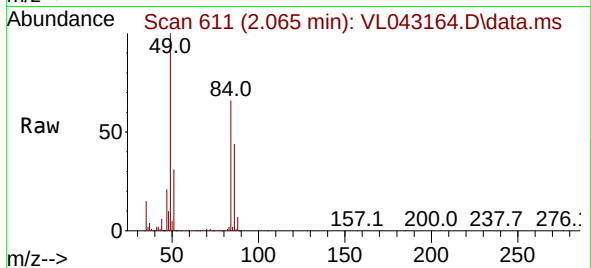
141-IA-1

Tgt Ion: 84	Resp: 97390
Ion Ratio	Lower Upper
84 100	
49 152.0	116.6 175.0
51 47.2	34.8 52.2
86 66.6	46.2 69.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#26

Hexane

Concen: 6.875 ppbv

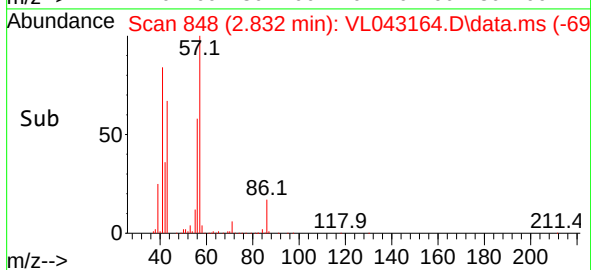
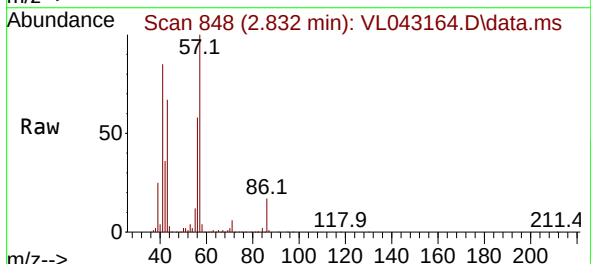
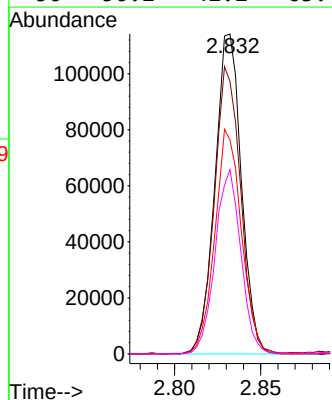
RT: 2.832 min Scan# 848

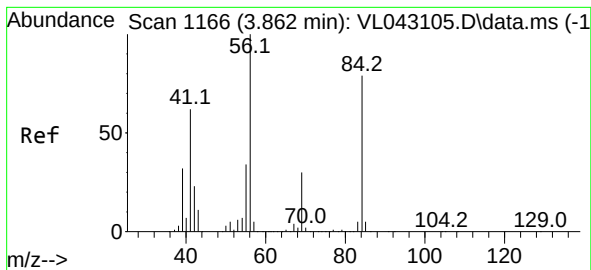
Delta R.T. 0.003 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Tgt Ion: 57	Resp: 122149
Ion Ratio	Lower Upper
57 100	
41 90.6	71.4 107.0
43 71.8	178.5 267.7#
56 56.2	42.2 63.4





#30

Cyclohexane

Concen: 0.214 ppbv

RT: 3.865 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

141-IA-1

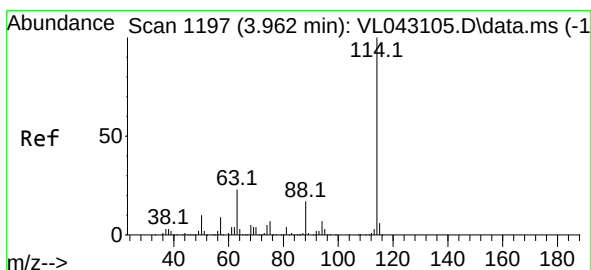
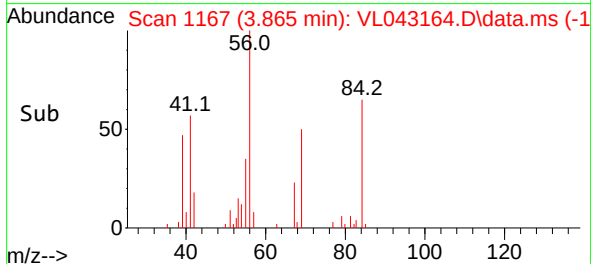
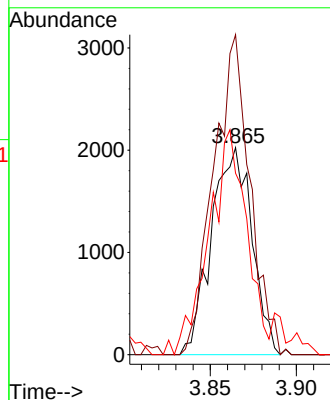
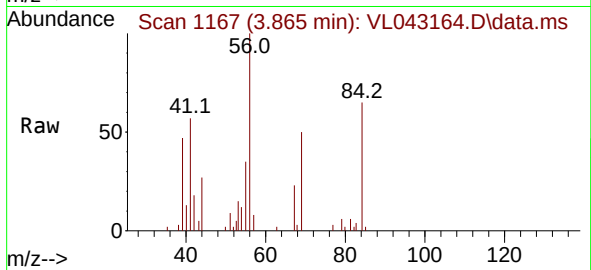
Tgt Ion: 84 Resp: 3310

Ion	Ratio	Lower	Upper
84	100		
56	140.3	100.9	151.3
41	109.4	63.8	95.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

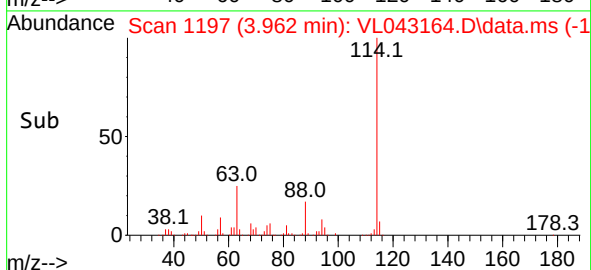
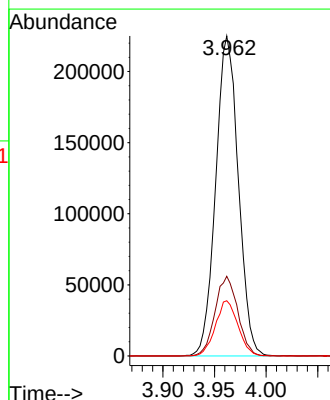
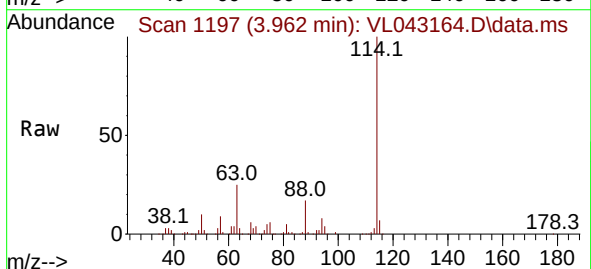
Delta R.T. -0.000 min

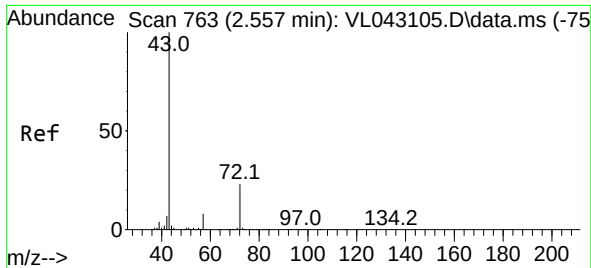
Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Tgt Ion:114 Resp: 342427

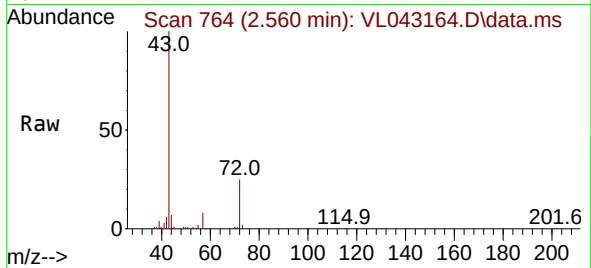
Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	17.2	13.9	20.9





#34
2-Butanone
Concen: 1.508 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

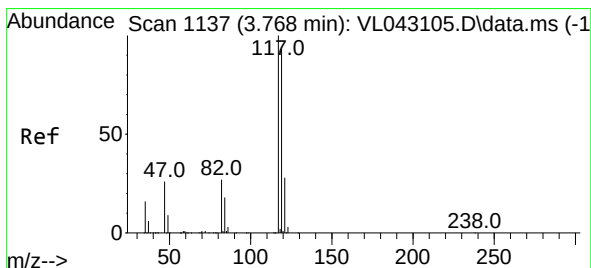
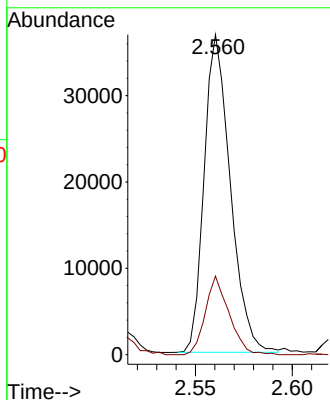
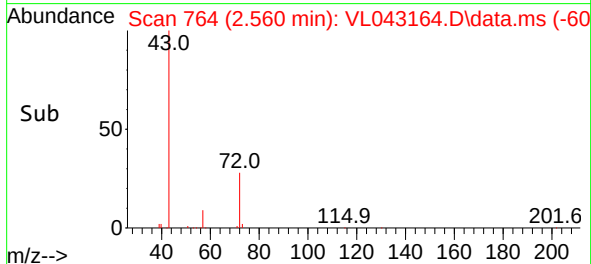
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 43 Resp: 34710
Ion Ratio Lower Upper
43 100
72 22.4 18.4 27.6

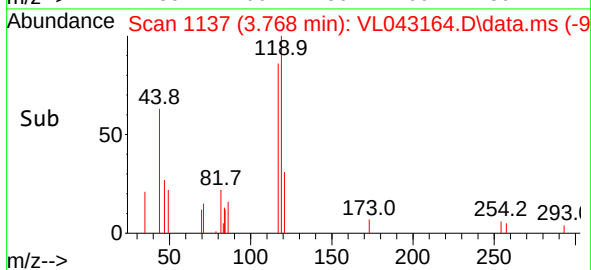
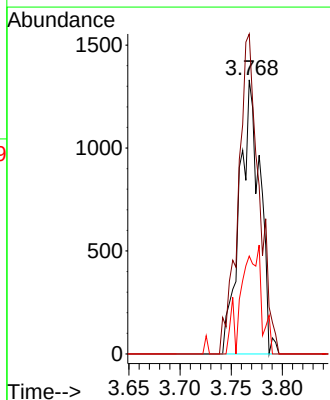
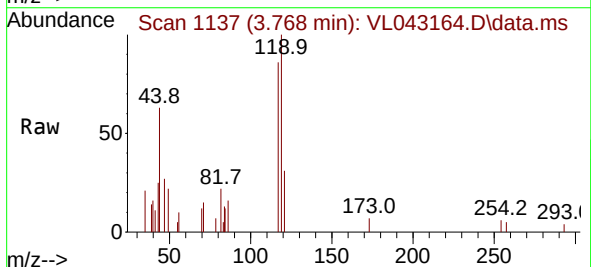
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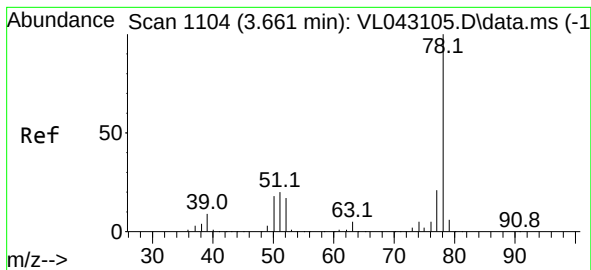
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion:117 Resp: 1853
Ion Ratio Lower Upper
117 100
119 116.8 74.1 111.1#
121 35.7 22.2 33.2#





#36

Benzene

Concen: 0.382 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

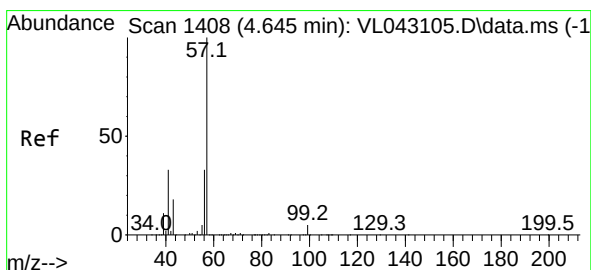
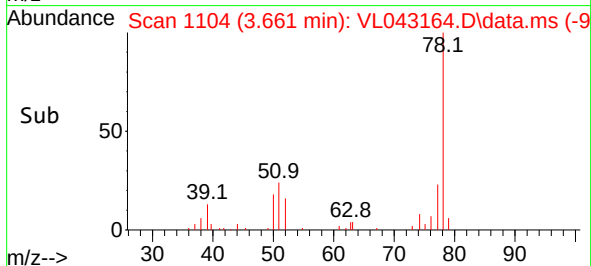
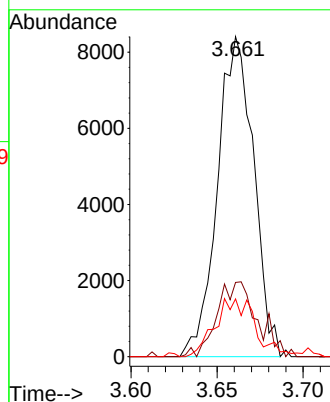
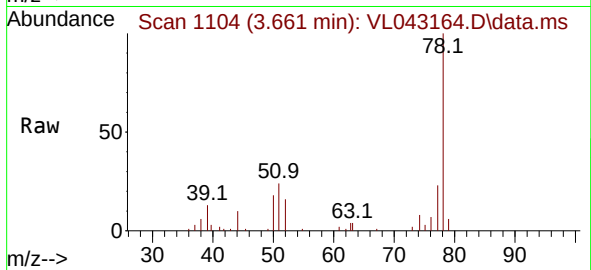
141-IA-1

Tgt Ion: 78	Resp: 1230
Ion Ratio	Lower Upper
78 100	
77 23.2	17.0 25.6
50 18.0	14.6 22.0

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#44

2,2,4-Trimethylpentane

Concen: 0.328 ppbv

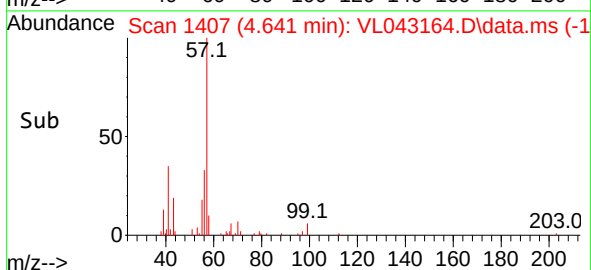
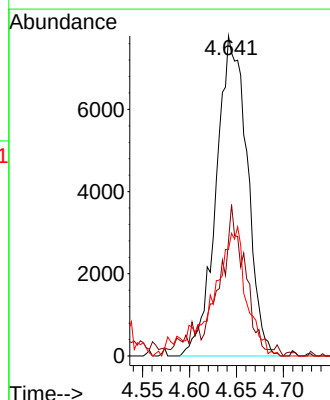
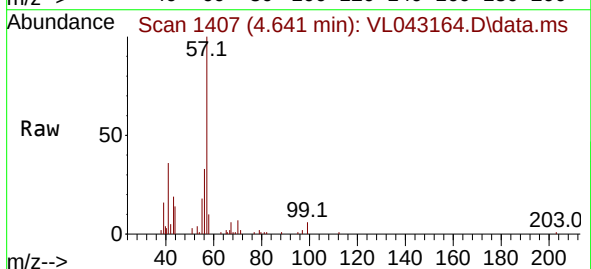
RT: 4.641 min Scan# 1407

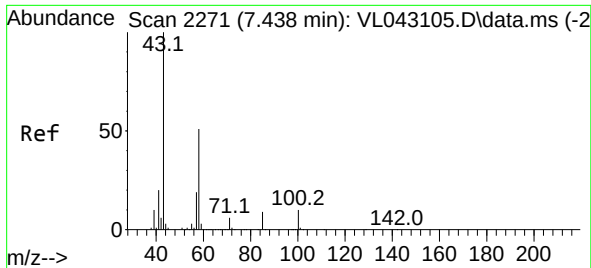
Delta R.T. -0.004 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

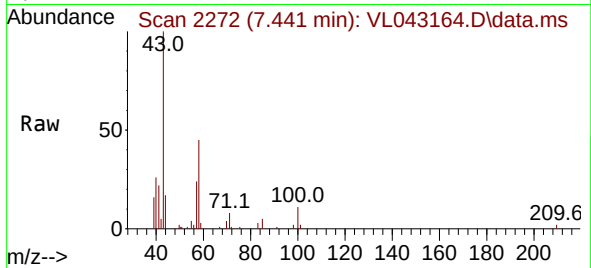
Tgt Ion: 57	Resp: 17870
Ion Ratio	Lower Upper
57 100	
41 45.5	26.3 39.5#
56 44.3	25.9 38.9#





#51
2-Hexanone
Concen: 0.477 ppbv m
RT: 7.441 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

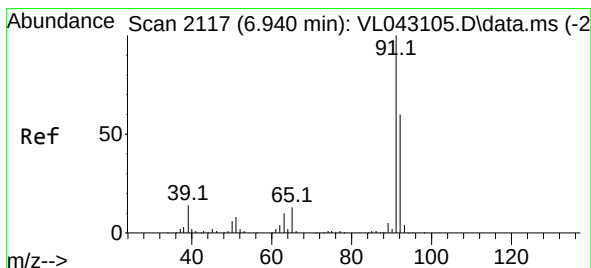
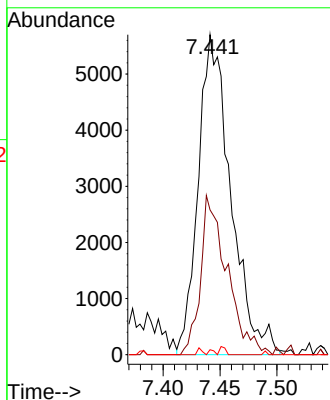
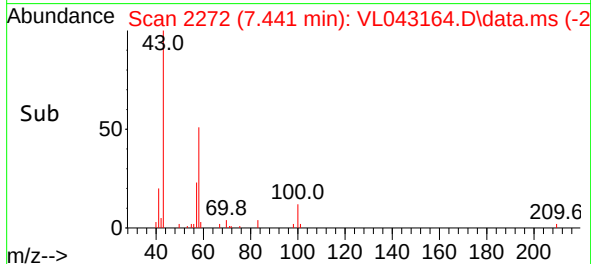
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 43 Resp: 1136
Ion Ratio Lower Upper
43 100
58 41.1 40.4 60.6
98 0.0 0.1 0.1

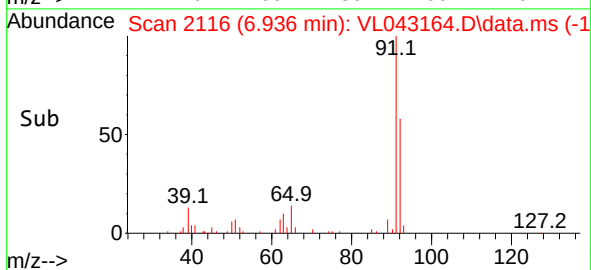
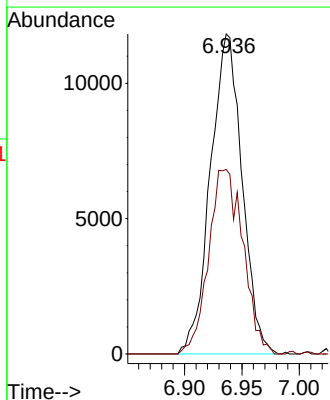
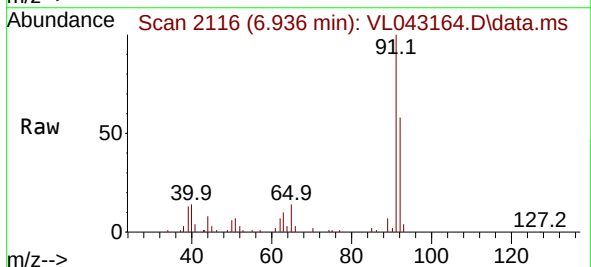
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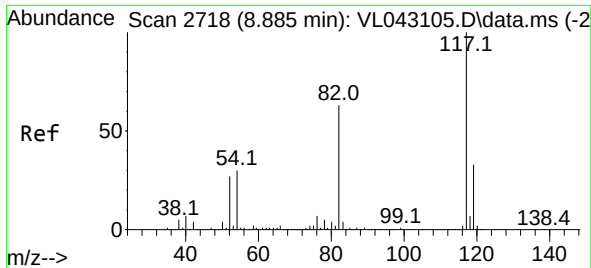
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.593 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

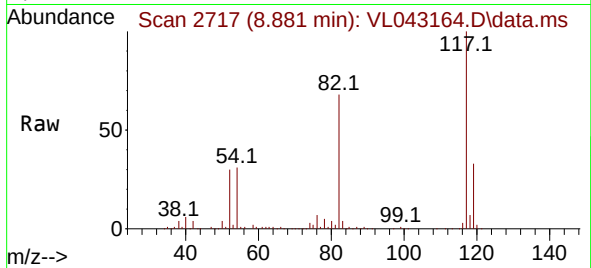
Tgt Ion: 91 Resp: 22705
Ion Ratio Lower Upper
91 100
92 63.0 48.8 73.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2718
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

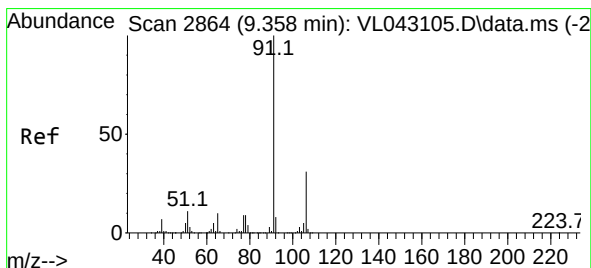
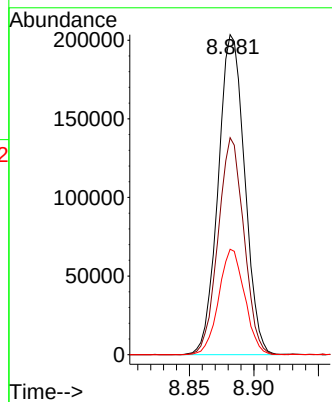
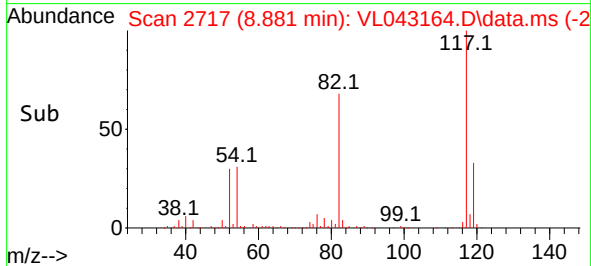
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion:117 Resp: 290452
Ion Ratio Lower Upper
117 100
82 66.0 53.8 80.8
119 32.3 25.4 38.0

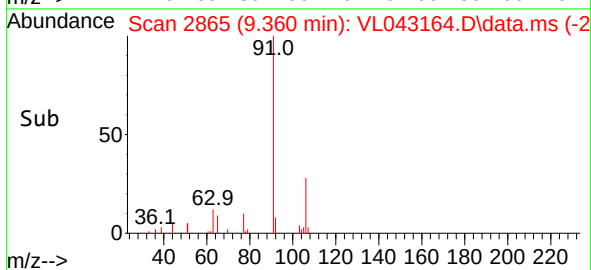
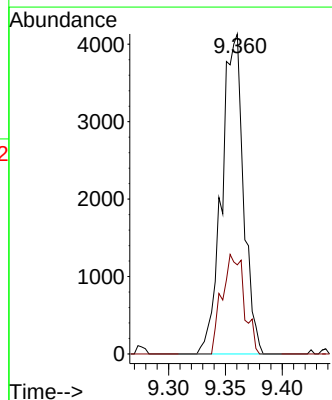
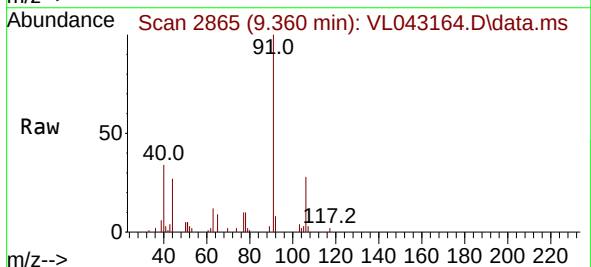
Manual Integrations
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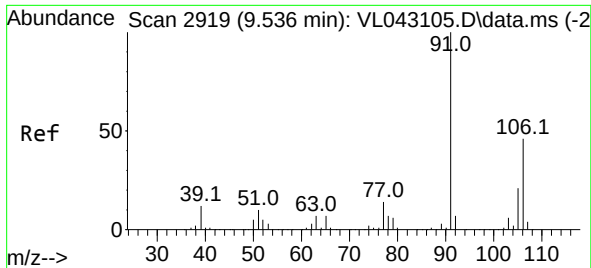
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#58
Ethyl Benzene
Concen: 0.110 ppbv m
RT: 9.360 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 91 Resp: 5488
Ion Ratio Lower Upper
91 100
106 27.8 24.8 37.2





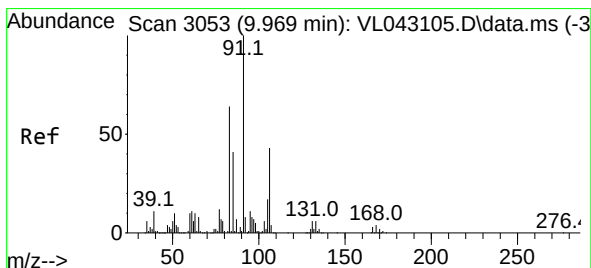
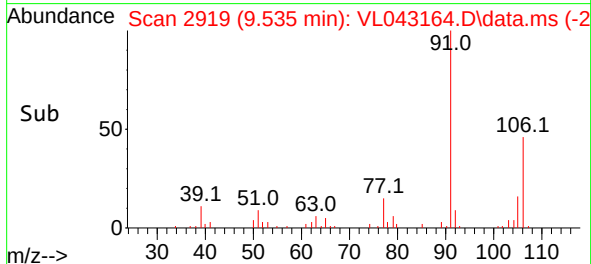
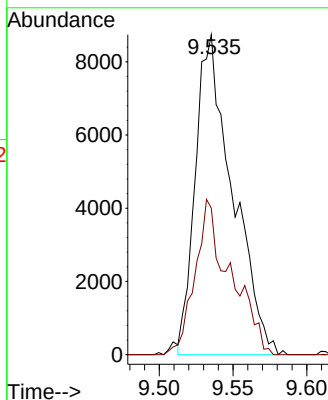
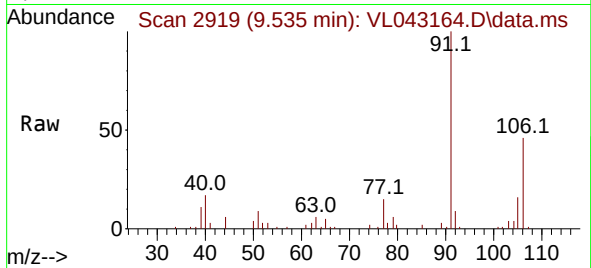
#59
m/p-Xylene
Concen: 0.385 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

Tgt Ion: 91 Resp: 1529
Ion Ratio Lower Upper
91 100
106 46.5 38.0 57.0

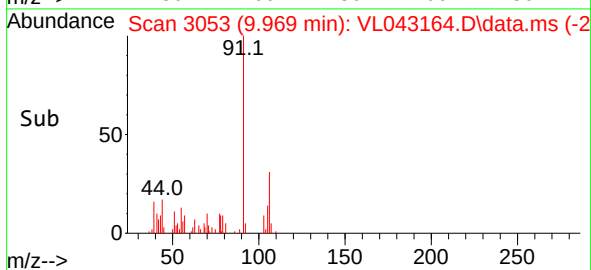
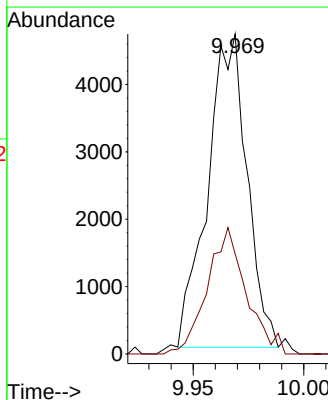
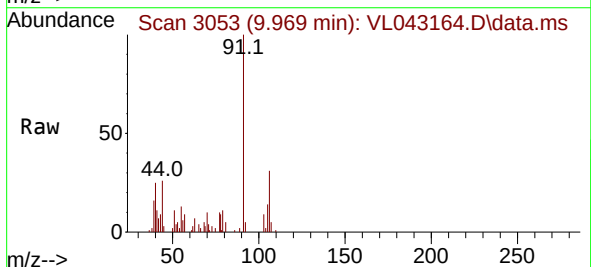
Manual Integrations
APPROVED

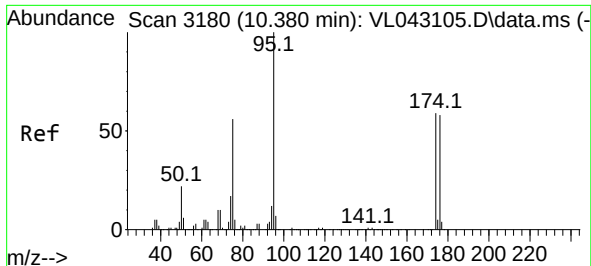
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

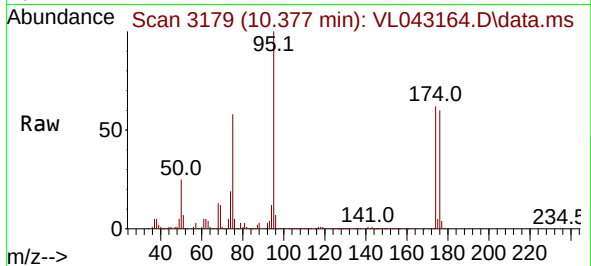
Tgt Ion: 91 Resp: 5758
Ion Ratio Lower Upper
91 100
106 39.8 21.9 65.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.513 ppbv
RT: 10.377 min Scan# 3180
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

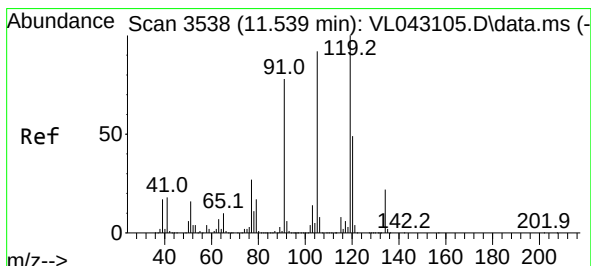
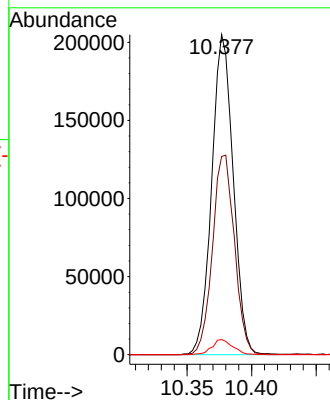
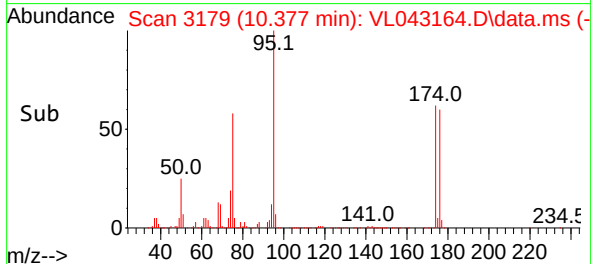
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 95 Resp: 23735
Ion Ratio Lower Upper
95 100
174 63.7 48.3 72.5
175 4.6 3.8 5.8

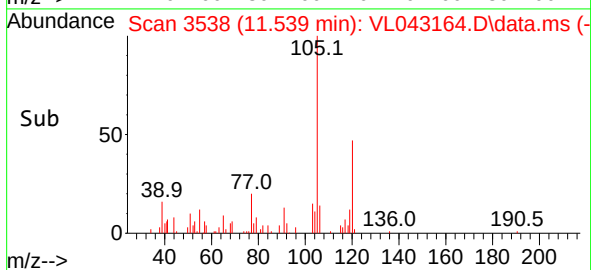
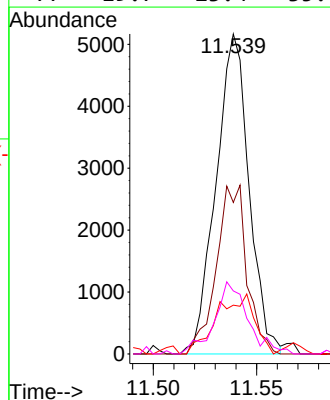
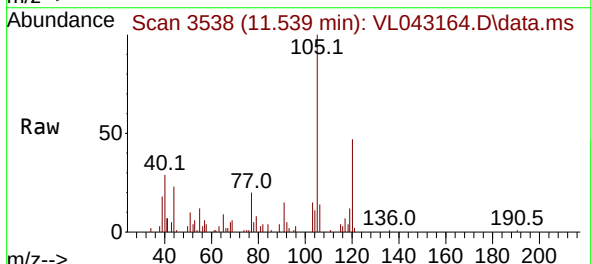
Manual Integrations
APPROVED

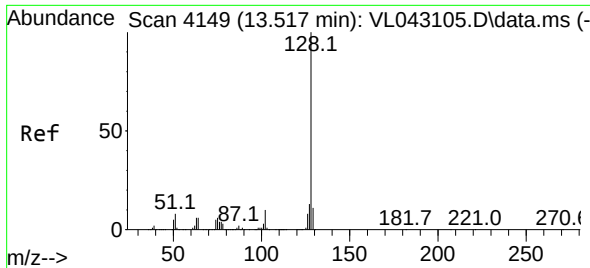
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

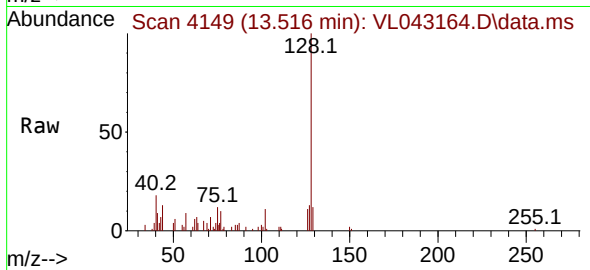
Tgt Ion:105 Resp: 5751
Ion Ratio Lower Upper
105 100
120 47.4 42.8 64.2
91 15.3 68.3 102.5#
77 19.7 23.4 35.0#





#79
Naphthalene
Concen: 0.133 ppbv m
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

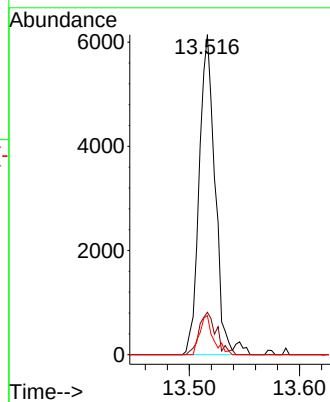
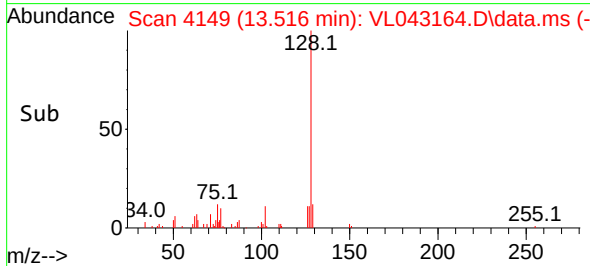
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion:	128	Resp:	6210
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	12.2	9.1	13.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-IA-1DL
Lab Sample ID: Q3557-02DL
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.40	6.92	JD	4	2.18	9.89	11/06/25 17:35	VL110625
74-87-3	Chloromethane	0.47	0.97	JD	4	0.81	4.13	11/06/25 17:35	VL110625
75-01-4	Vinyl Chloride	0.10	0.26	UD	4	0.26	0.31	11/06/25 17:35	VL110625
74-83-9	Bromomethane	0.31	1.20	UD	4	1.20	7.77	11/06/25 17:35	VL110625
75-00-3	Chloroethane	0.60	1.58	UD	4	1.58	5.28	11/06/25 17:35	VL110625
109-99-9	Tetrahydrofuran	0.32	0.94	UD	4	0.94	5.90	11/06/25 17:35	VL110625
75-69-4	Trichlorofluoromethane	0.68	3.82	UD	4	3.82	11.2	11/06/25 17:35	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.56	4.29	UD	4	4.29	15.3	11/06/25 17:35	VL110625
76-14-2	Dichlorotetrafluoroethane	0.60	4.19	UD	4	4.19	14.0	11/06/25 17:35	VL110625
75-65-0	tert-Butyl alcohol	0.64	1.94	UD	4	1.94	6.06	11/06/25 17:35	VL110625
142-82-5	Heptane	0.68	2.79	UD	4	2.79	8.20	11/06/25 17:35	VL110625
75-35-4	1,1-Dichloroethene	0.60	2.38	UD	4	2.38	7.93	11/06/25 17:35	VL110625
67-64-1	Acetone	11.6	27.6	D	4	1.71	4.75	11/06/25 17:35	VL110625
75-15-0	Carbon Disulfide	0.32	1.00	UD	4	1.00	6.23	11/06/25 17:35	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.92	3.32	UD	4	3.32	7.21	11/06/25 17:35	VL110625
75-09-2	Methylene Chloride	14.9	51.8	D	4	3.20	6.95	11/06/25 17:35	VL110625
156-60-5	trans-1,2-Dichloroethene	0.48	1.90	UD	4	1.90	7.93	11/06/25 17:35	VL110625
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	4	2.10	8.09	11/06/25 17:35	VL110625
110-82-7	Cyclohexane	0.88	3.03	UD	4	3.03	6.88	11/06/25 17:35	VL110625
78-93-3	2-Butanone	1.50	4.42	JD	4	0.65	5.90	11/06/25 17:35	VL110625
56-23-5	Carbon Tetrachloride	0.10	0.63	UD	4	0.63	0.75	11/06/25 17:35	VL110625
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	UD	4	1.59	7.93	11/06/25 17:35	VL110625
67-66-3	Chloroform	0.38	1.86	UD	4	1.86	9.77	11/06/25 17:35	VL110625
71-55-6	1,1,1-Trichloroethane	0.060	0.33	UD	4	0.33	0.65	11/06/25 17:35	VL110625
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	UD	4	2.62	9.34	11/06/25 17:35	VL110625
71-43-2	Benzene	0.41	1.31	JD	4	1.02	6.39	11/06/25 17:35	VL110625
107-06-2	1,2-Dichloroethane	0.37	1.50	UD	4	1.50	8.09	11/06/25 17:35	VL110625
79-01-6	Trichloroethene	0.10	0.54	UD	4	0.54	0.64	11/06/25 17:35	VL110625
78-87-5	1,2-Dichloropropane	0.52	2.40	UD	4	2.40	9.24	11/06/25 17:35	VL110625
75-27-4	Bromodichloromethane	0.25	1.67	UD	4	1.67	13.4	11/06/25 17:35	VL110625
108-10-1	4-Methyl-2-Pentanone	0.39	1.60	UD	4	1.60	8.20	11/06/25 17:35	VL110625
108-88-3	Toluene	0.64	2.41	UD	4	2.41	7.54	11/06/25 17:35	VL110625
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	4	2.72	9.08	11/06/25 17:35	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.44	2.00	UD	4	2.00	9.08	11/06/25 17:35	VL110625
79-00-5	1,1,2-Trichloroethane	0.32	1.75	UD	4	1.75	10.9	11/06/25 17:35	VL110625
124-48-1	Dibromochloromethane	0.34	2.90	UD	4	2.90	17.0	11/06/25 17:35	VL110625
106-93-4	1,2-Dibromoethane	0.34	2.61	UD	4	2.61	3.07	11/06/25 17:35	VL110625
127-18-4	Tetrachloroethene	0.060	0.41	UD	4	0.41	0.81	11/06/25 17:35	VL110625
108-90-7	Chlorobenzene	0.31	1.43	UD	4	1.43	9.21	11/06/25 17:35	VL110625
100-41-4	Ethyl Benzene	0.76	3.30	UD	4	3.30	8.69	11/06/25 17:35	VL110625
179601-23-1	m/p-Xylene	1.60	6.95	UD	4	6.95	17.4	11/06/25 17:35	VL110625
95-47-6	o-Xylene	0.84	3.65	UD	4	3.65	8.69	11/06/25 17:35	VL110625
100-42-5	Styrene	0.64	2.72	UD	4	2.72	8.52	11/06/25 17:35	VL110625
75-25-2	Bromoform	0.19	1.96	UD	4	1.96	20.7	11/06/25 17:35	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.070	0.48	UD	4	0.48	0.82	11/06/25 17:35	VL110625
95-49-8	2-Chlorotoluene	0.68	3.52	UD	4	3.52	10.4	11/06/25 17:35	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-IA-1DL
Lab Sample ID: Q3557-02DL
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	UD	4	3.54	9.83	11/06/25 17:35	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	UD	4	3.54	9.83	11/06/25 17:35	VL110625
541-73-1	1,3-Dichlorobenzene	0.22	1.32	UD	4	1.32	12.0	11/06/25 17:35	VL110625
106-46-7	1,4-Dichlorobenzene	0.52	3.13	UD	4	3.13	12.0	11/06/25 17:35	VL110625
95-50-1	1,2-Dichlorobenzene	0.52	3.13	UD	4	3.13	12.0	11/06/25 17:35	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.84	6.24	UD	4	6.24	14.8	11/06/25 17:35	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.52	5.55	UD	4	5.55	21.3	11/06/25 17:35	VL110625
106-99-0	1,3-Butadiene	0.20	0.44	UD	4	0.44	4.42	11/06/25 17:35	VL110625
91-20-3	Naphthalene	0.050	0.26	UD	4	0.26	2.10	11/06/25 17:35	VL110625
622-96-8	4-Ethyltoluene	0.84	4.13	UD	4	4.13	9.83	11/06/25 17:35	VL110625
110-54-3	Hexane	5.20	18.3	D	4	2.26	7.05	11/06/25 17:35	VL110625
107-05-1	Allyl Chloride	0.44	1.38	UD	4	1.38	6.26	11/06/25 17:35	VL110625
123-91-1	1,4-Dioxane	0.88	3.17	UD	4	3.17	7.21	11/06/25 17:35	VL110625
80-62-6	Methyl Methacrylate	0.56	2.29	UD	4	2.29	8.19	11/06/25 17:35	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.2 70 (65) - 130 102% SPK: 10

INTERNAL STANDARDS

Area Count
74-97-5 Bromochloromethane 119000
540-36-3 1,4-Difluorobenzene 327000
3114-55-4 Chlorobenzene-d5 276000

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\VL110625\
 Data File : VL043172.D
 Acq On : 06 Nov 2025 17:35
 Operator : SY/MD
 Sample : Q3557-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1DL

Quant Time: Nov 07 00:25:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025
 Supervised By : Mahesh Dadoda 11/10/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	118952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	326674	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	276195	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	218383	10.173	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	6052	0.358	ppbv #	87
4) Chloromethane	1.534	50	786	0.117	ppbv #	88
9) Propene	1.486	41	5436m	0.670	ppbv	
13) Ethanol	1.722	45	18986	6.325	ppbv	94
15) Acetone	1.835	43	46549	2.903	ppbv	97
19) Isopropyl Alcohol	1.887	45	3123m	0.313	ppbv	
20) Methylene Chloride	2.062	84	23578	3.720	ppbv	90
26) Hexane	2.826	57	23868	1.303	ppbv #	40
34) 2-Butanone	2.557	43	8478	0.386	ppbv	94
36) Benzene	3.654	78	3136m	0.102	ppbv	
51) 2-Hexanone	7.445	43	2603m	0.115	ppbv	
53) Toluene	6.920	91	4747m	0.130	ppbv	

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

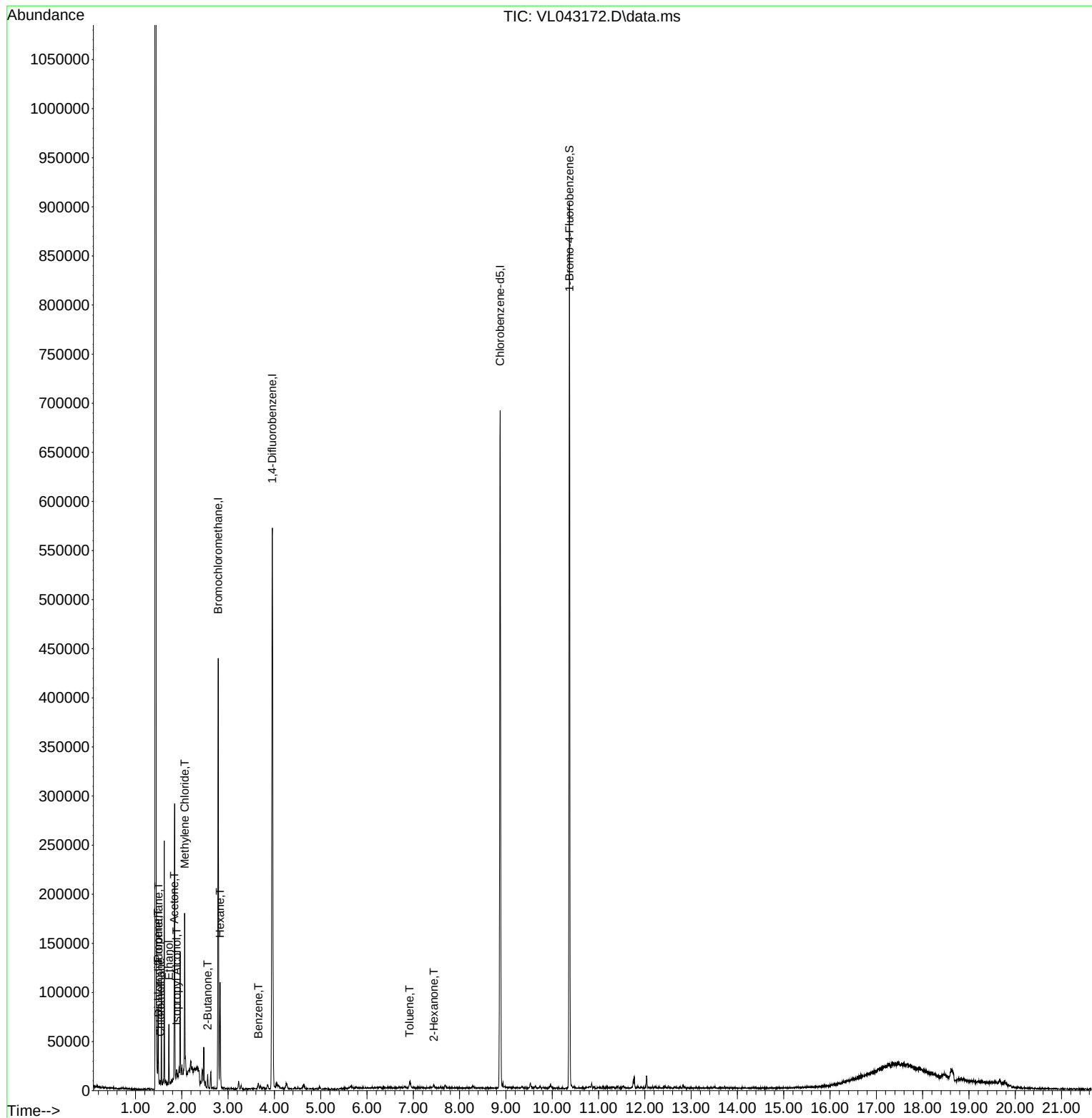
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Data File : VL043172.D
Acq On : 06 Nov 2025 17:35
Operator : SY/MD
Sample : Q3557-02DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

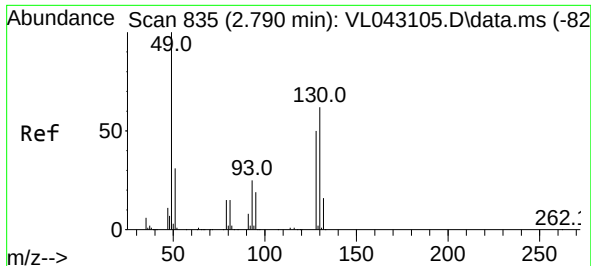
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

Quant Time: Nov 07 00:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025





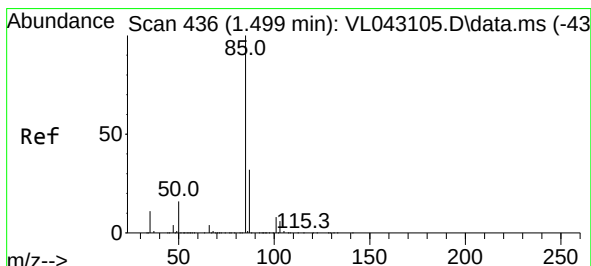
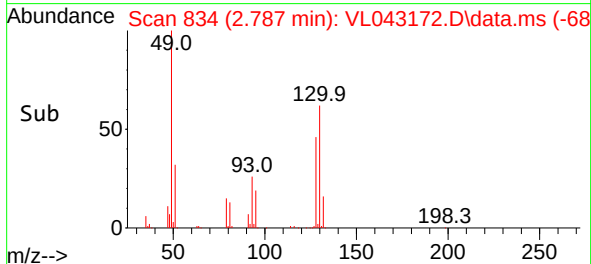
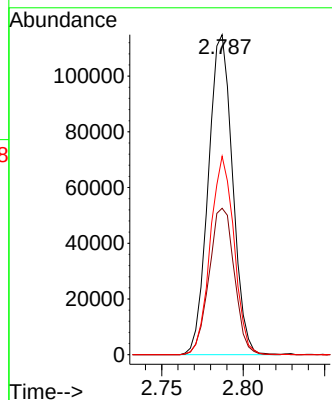
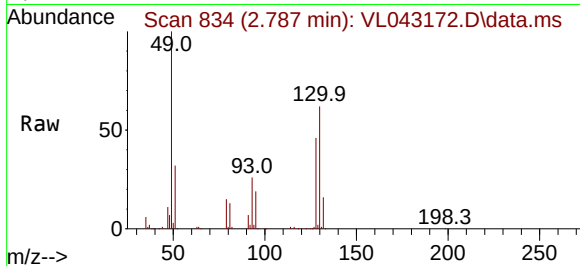
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

Tgt Ion: 49 Resp: 118952
Ion Ratio Lower Upper
49 100
128 47.5 24.4 73.4
130 60.7 31.0 93.0

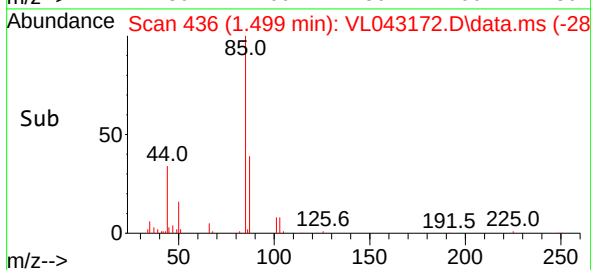
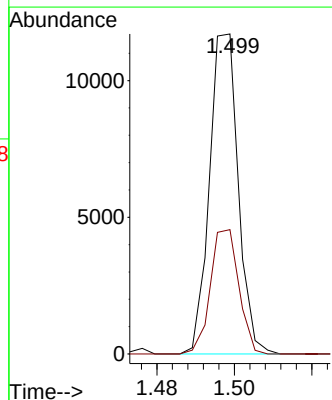
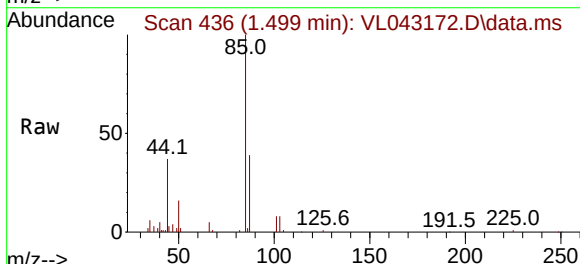
Manual Integrations
APPROVED

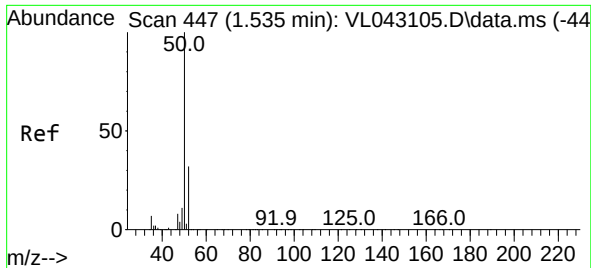
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.358 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

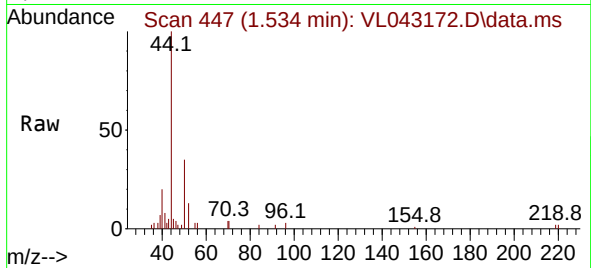
Tgt Ion: 85 Resp: 6052
Ion Ratio Lower Upper
85 100
87 38.8 25.3 37.9





#4
Chloromethane
Concen: 0.117 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

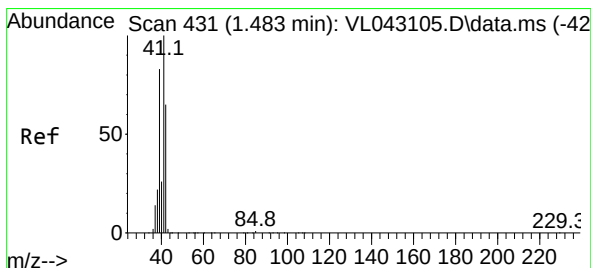
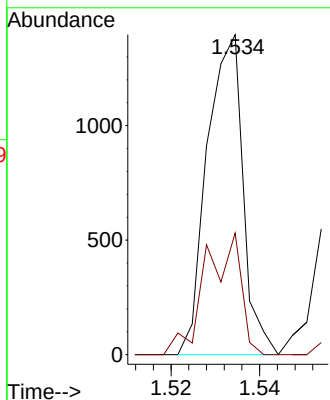
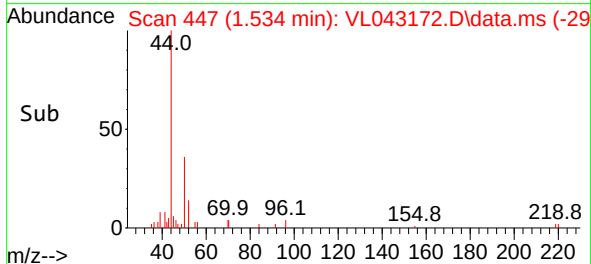
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL



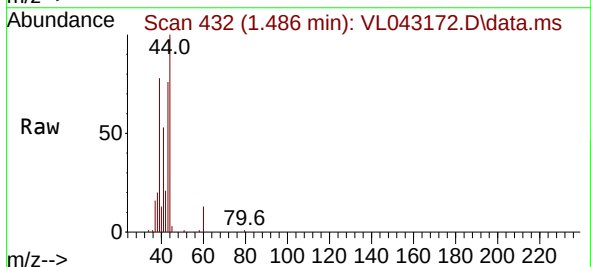
Tgt Ion: 50 Resp: 780
Ion Ratio Lower Upper
50 100
52 38.0 25.2 37.8

Manual Integrations
APPROVED

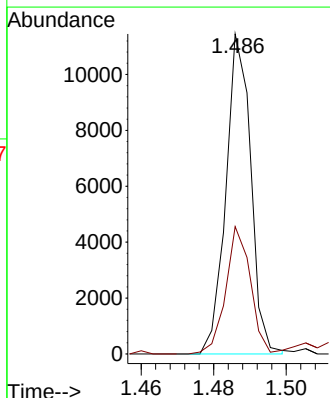
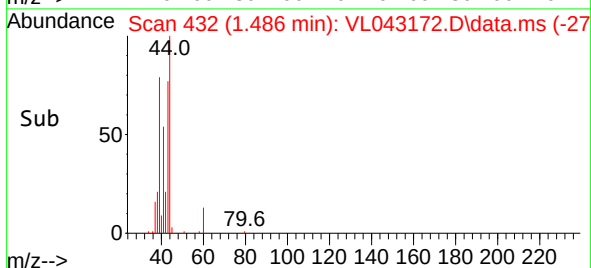
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

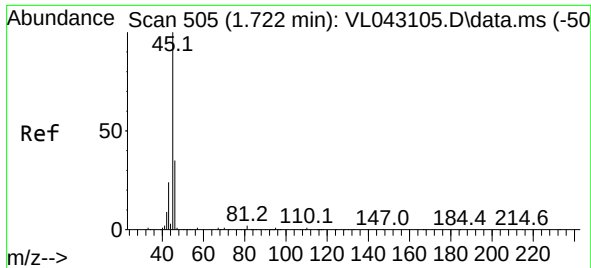


#9
Propene
Concen: 0.670 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35



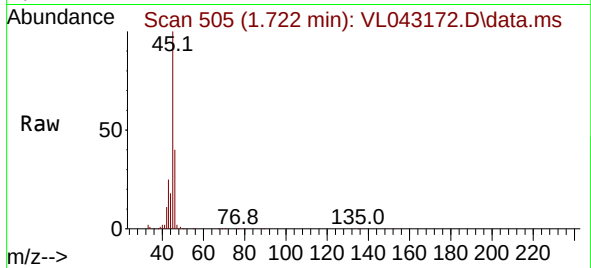
Tgt Ion: 41 Resp: 5436
Ion Ratio Lower Upper
41 100
42 153.5 55.1 82.7





#13
Ethanol
Concen: 6.325 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

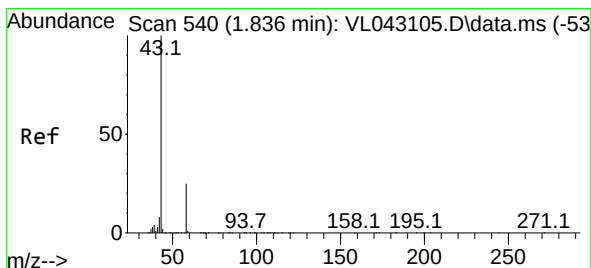
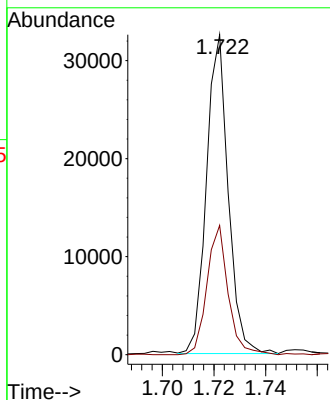
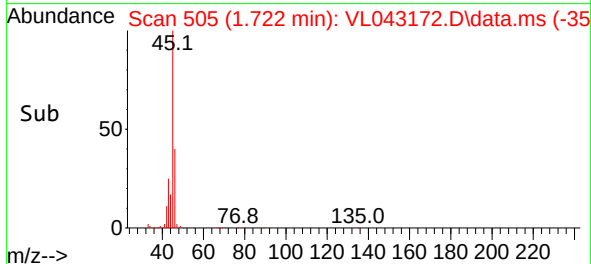
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL



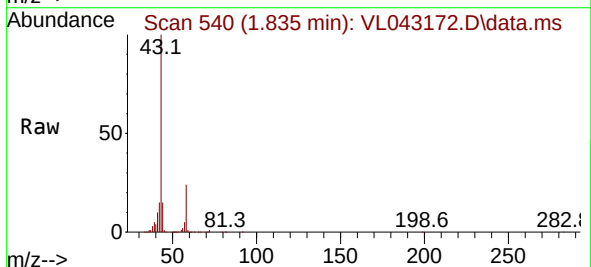
Tgt Ion: 45 Resp: 18980
Ion Ratio Lower Upper
45 100
46 40.1 14.7 58.9

Manual Integrations
APPROVED

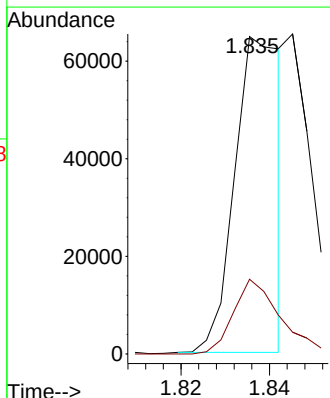
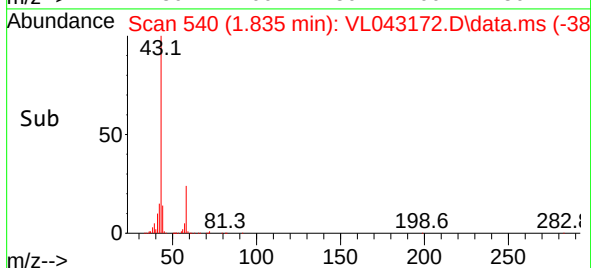
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

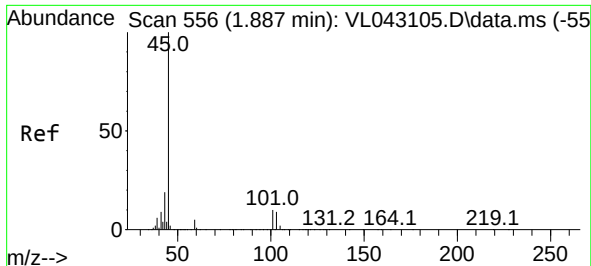


#15
Acetone
Concen: 2.903 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35



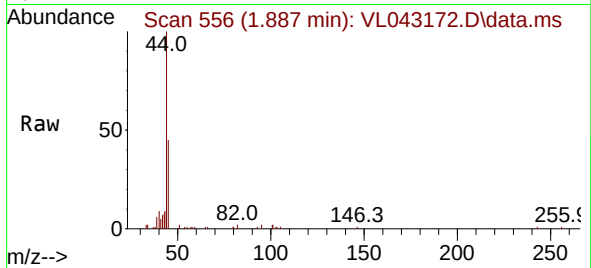
Tgt Ion: 43 Resp: 46549
Ion Ratio Lower Upper
43 100
58 24.3 20.8 31.2





#19
Isopropyl Alcohol
Concen: 0.313 ppbv m
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

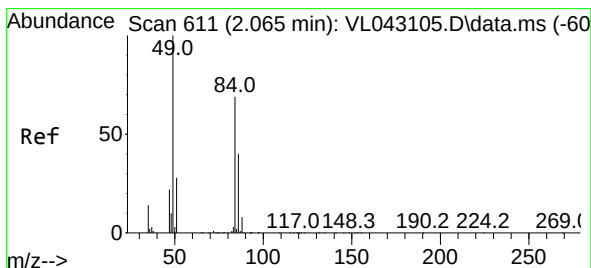
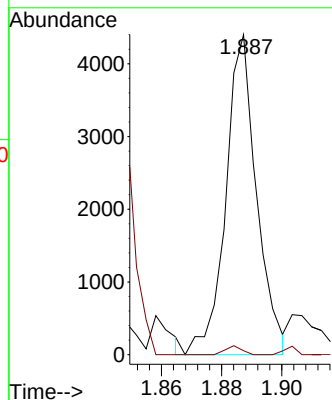
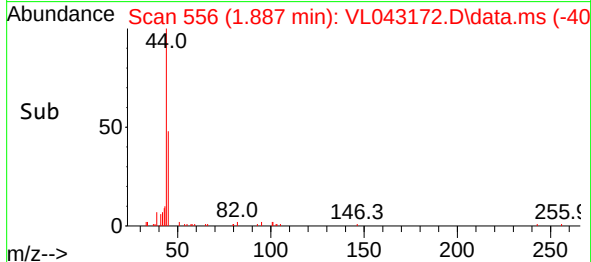
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL



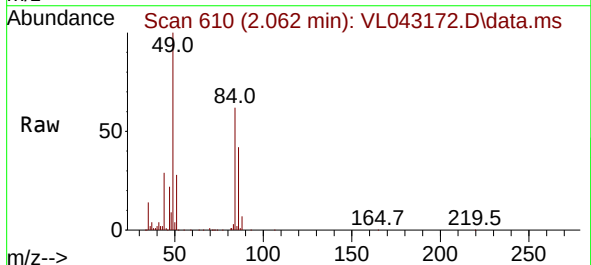
Tgt Ion: 45 Resp: 312
Ion Ratio Lower Upper
45 100
58 242.4 31.3 46.9

Manual Integrations
APPROVED

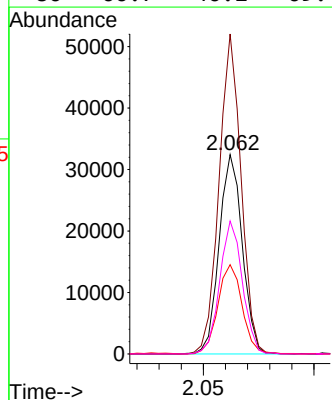
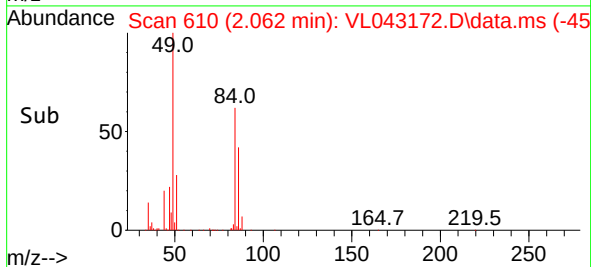
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

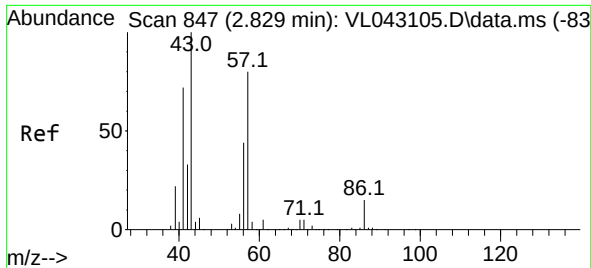


#20
Methylene Chloride
Concen: 3.720 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35



Tgt Ion: 84 Resp: 23578
Ion Ratio Lower Upper
84 100
49 160.5 116.6 175.0
51 44.8 34.8 52.2
86 66.7 46.2 69.4





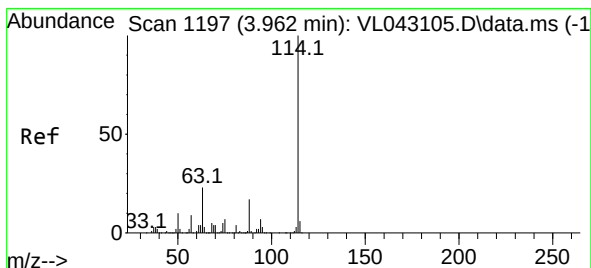
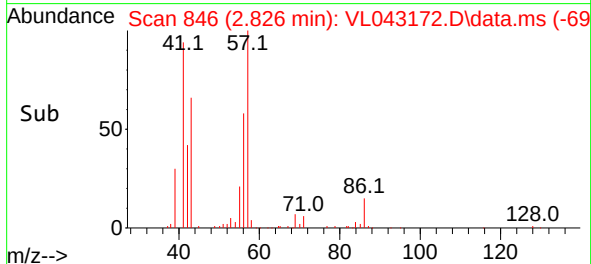
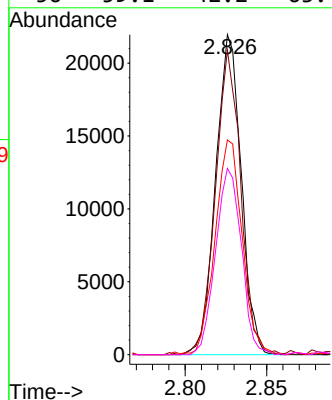
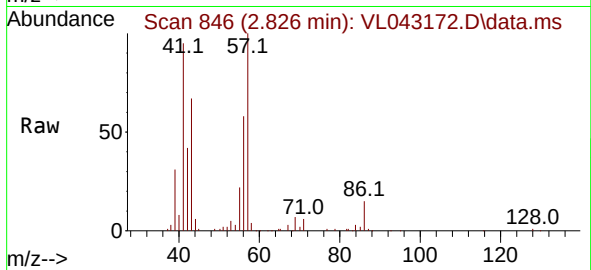
#26
Hexane
Concen: 1.303 ppbv
RT: 2.826 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

Tgt Ion: 57 Resp: 2386
Ion Ratio Lower Upper
57 100
41 95.0 71.4 107.0
43 71.9 178.5 267.7
56 59.1 42.2 63.4

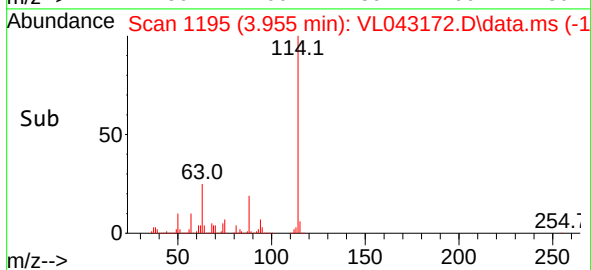
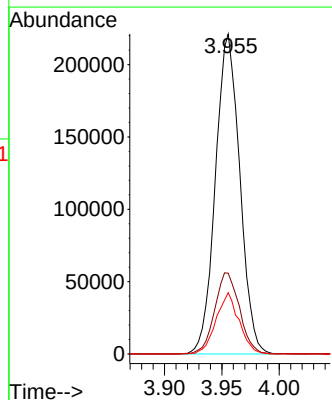
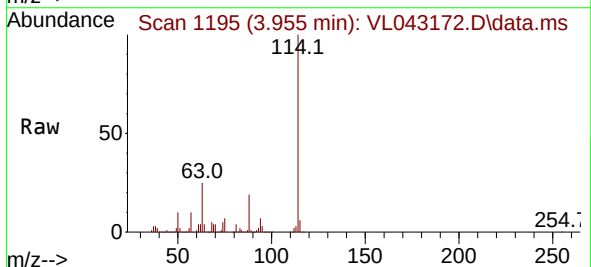
Manual Integrations
APPROVED

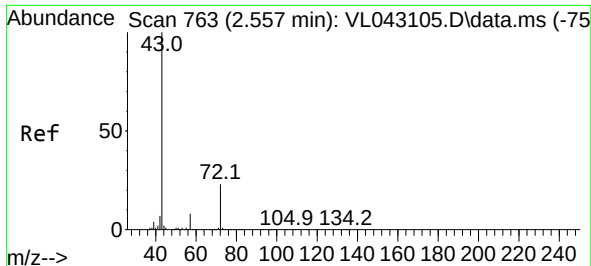
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.007 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

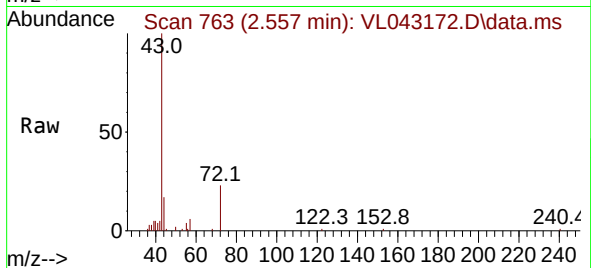
Tgt Ion:114 Resp: 326674
Ion Ratio Lower Upper
114 100
63 25.8 19.3 28.9
88 18.1 13.9 20.9





#34
2-Butanone
Concen: 0.386 ppbv
RT: 2.557 min Scan# 70
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

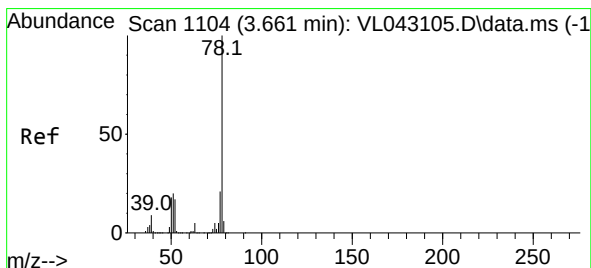
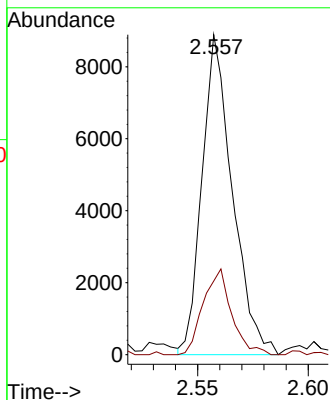
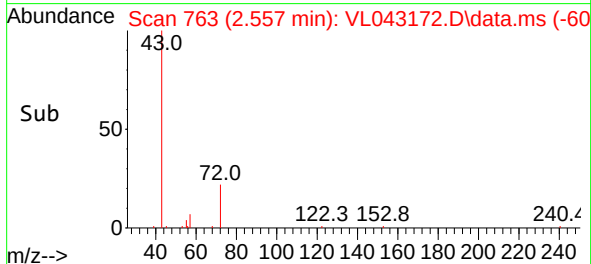
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL



Tgt Ion: 43 Resp: 8478
Ion Ratio Lower Upper
43 100
72 25.7 18.4 27.6

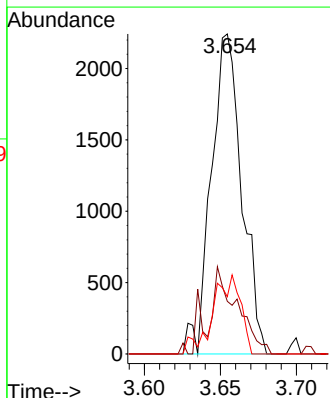
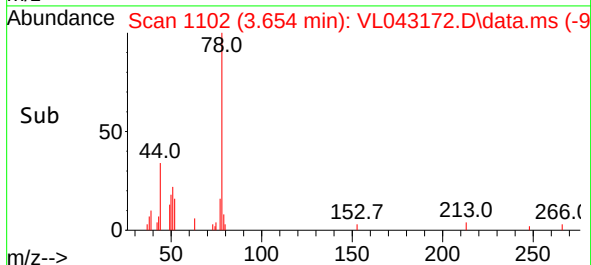
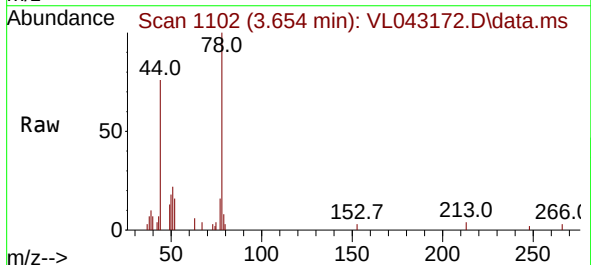
Manual Integrations
APPROVED

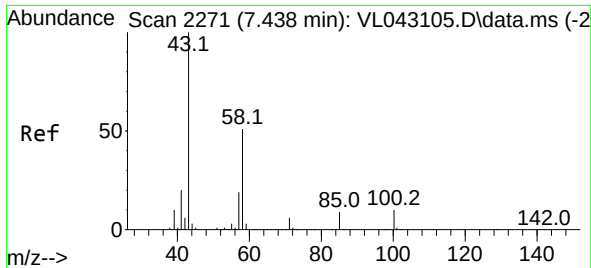
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#36
Benzene
Concen: 0.102 ppbv m
RT: 3.654 min Scan# 1102
Delta R.T. -0.007 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 78 Resp: 3136
Ion Ratio Lower Upper
78 100
77 16.5 17.0 25.6#
50 17.9 14.6 22.0





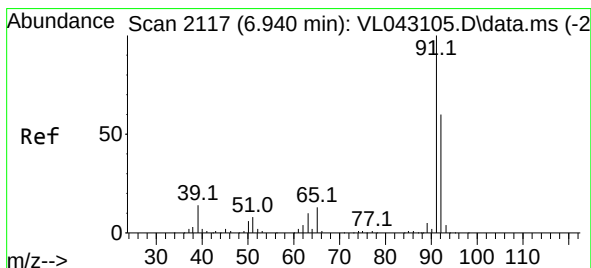
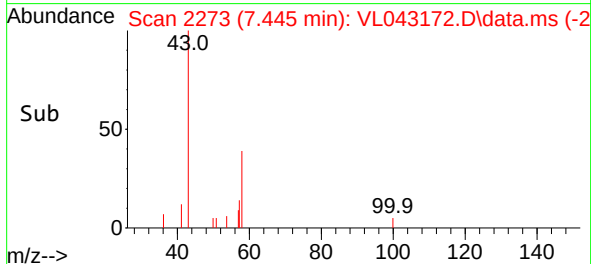
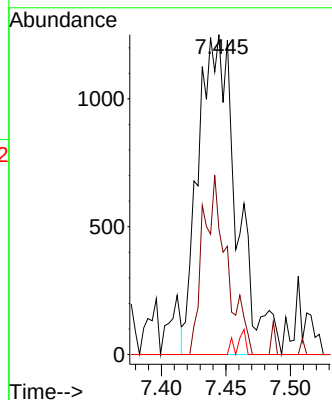
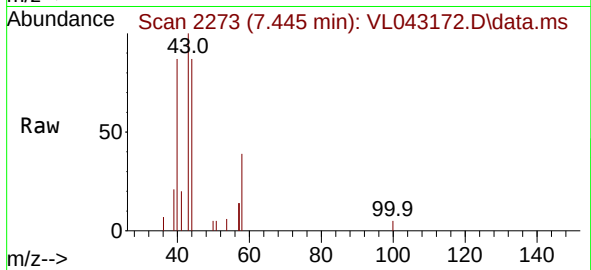
#51
2-Hexanone
Concen: 0.115 ppbv m
RT: 7.445 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

Tgt Ion: 43 Resp: 260
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6
98 0.0 0.1 0.1

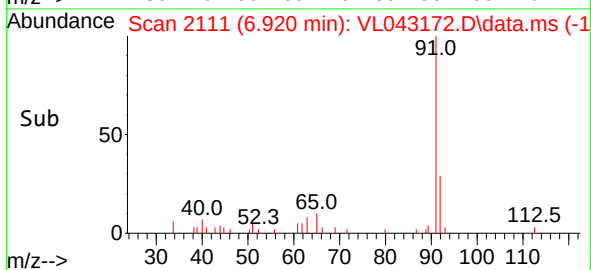
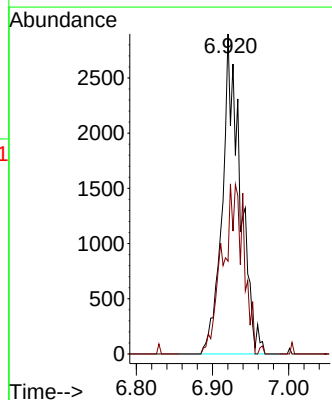
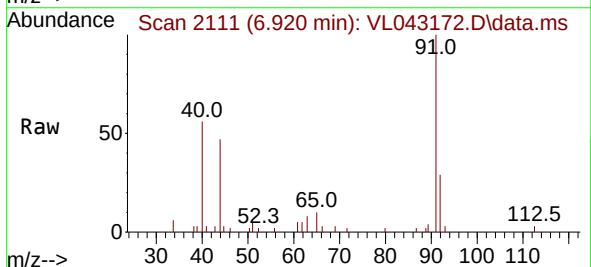
Manual Integrations
APPROVED

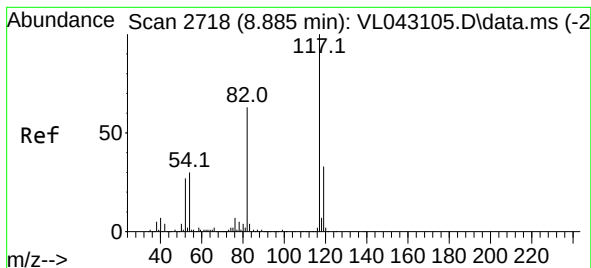
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.130 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. -0.020 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 91 Resp: 4747
Ion Ratio Lower Upper
91 100
92 63.4 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL043172.D

Acq: 06 Nov 2025 17:35

Instrument :

MSVOA_L

ClientSampleId :

141-IA-1DL

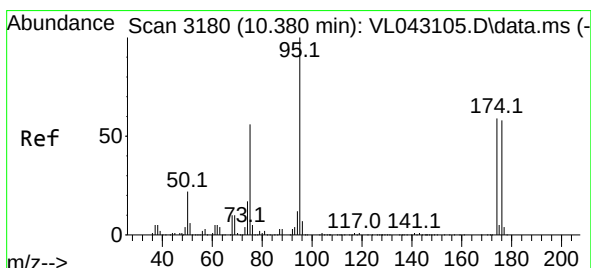
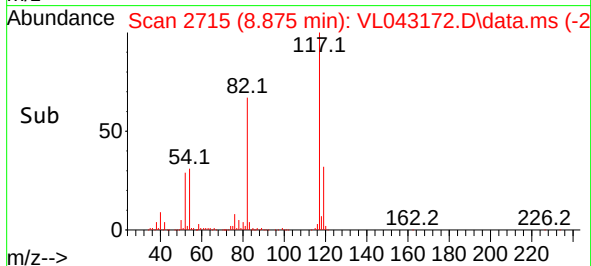
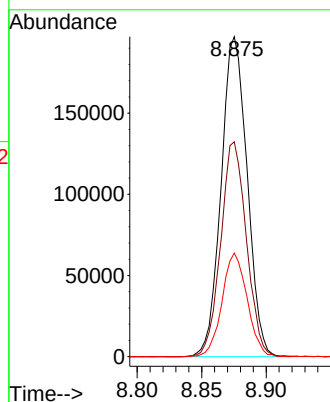
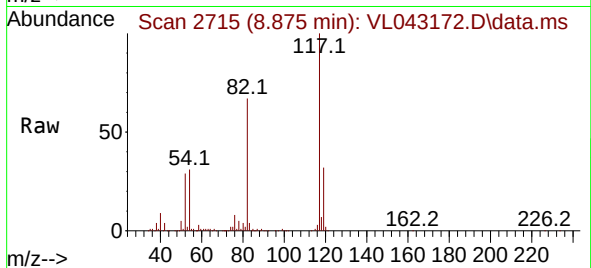
Tgt Ion: 117 Resp: 27619

Ion	Ratio	Lower	Upper
117	100		
82	66.3	53.8	80.8
119	31.3	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.173 ppbv

RT: 10.371 min Scan# 3177

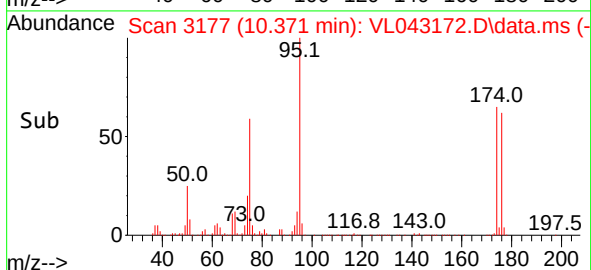
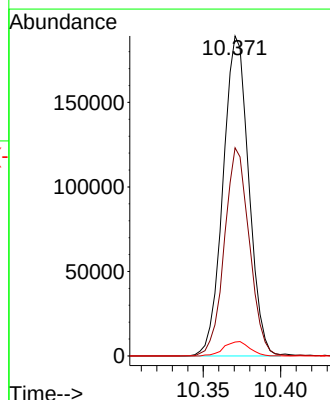
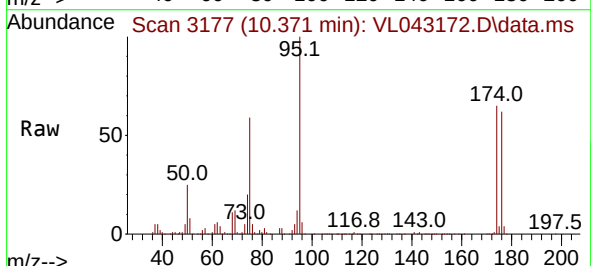
Delta R.T. -0.010 min

Lab File: VL043172.D

Acq: 06 Nov 2025 17:35

Tgt Ion: 95 Resp: 218383

Ion	Ratio	Lower	Upper
95	100		
174	63.6	48.3	72.5
175	4.6	3.8	5.8



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-IA2
Lab Sample ID: Q3557-03
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	2.10	10.4		1	0.54	2.47	11/06/25 13:50	VL110625
74-87-3	Chloromethane	0.47	0.97	J	1	0.21	1.03	11/06/25 13:50	VL110625
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/06/25 13:50	VL110625
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/06/25 13:50	VL110625
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/06/25 13:50	VL110625
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/06/25 13:50	VL110625
75-69-4	Trichlorofluoromethane	0.36	2.02	J	1	0.96	2.81	11/06/25 13:50	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/06/25 13:50	VL110625
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/06/25 13:50	VL110625
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/06/25 13:50	VL110625
142-82-5	Heptane	0.26	1.07	J	1	0.70	2.05	11/06/25 13:50	VL110625
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/06/25 13:50	VL110625
67-64-1	Acetone	12.7	30.2		1	0.43	1.19	11/06/25 13:50	VL110625
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/06/25 13:50	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/06/25 13:50	VL110625
75-09-2	Methylene Chloride	0.66	2.29		1	0.80	1.74	11/06/25 13:50	VL110625
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/06/25 13:50	VL110625
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/06/25 13:50	VL110625
110-82-7	Cyclohexane	0.35	1.20	J	1	0.76	1.72	11/06/25 13:50	VL110625
78-93-3	2-Butanone	0.61	1.80		1	0.18	1.47	11/06/25 13:50	VL110625
56-23-5	Carbon Tetrachloride	0.090	0.57		1	0.19	0.19	11/06/25 13:50	VL110625
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/06/25 13:50	VL110625
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/06/25 13:50	VL110625
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/06/25 13:50	VL110625
540-84-1	2,2,4-Trimethylpentane	0.48	2.24	J	1	0.65	2.34	11/06/25 13:50	VL110625
71-43-2	Benzene	0.54	1.73		1	0.26	1.60	11/06/25 13:50	VL110625
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/06/25 13:50	VL110625
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/06/25 13:50	VL110625
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/06/25 13:50	VL110625
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/06/25 13:50	VL110625
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/06/25 13:50	VL110625
108-88-3	Toluene	0.90	3.39		1	0.60	1.88	11/06/25 13:50	VL110625
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/06/25 13:50	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/06/25 13:50	VL110625
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/06/25 13:50	VL110625
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/06/25 13:50	VL110625
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/06/25 13:50	VL110625
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/06/25 13:50	VL110625
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/06/25 13:50	VL110625
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/06/25 13:50	VL110625
179601-23-1	m/p-Xylene	0.60	2.61	J	1	1.78	4.34	11/06/25 13:50	VL110625
95-47-6	o-Xylene	0.25	1.09	J	1	0.91	2.17	11/06/25 13:50	VL110625
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/06/25 13:50	VL110625
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/06/25 13:50	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/06/25 13:50	VL110625
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/06/25 13:50	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-IA2
Lab Sample ID: Q3557-03
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 13:50	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 13:50	VL110625
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/06/25 13:50	VL110625
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 13:50	VL110625
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 13:50	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/06/25 13:50	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/06/25 13:50	VL110625
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/06/25 13:50	VL110625
91-20-3	Naphthalene	0.27	1.42		1	0.050	0.52	11/06/25 13:50	VL110625
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/06/25 13:50	VL110625
110-54-3	Hexane	2.70	9.52		1	0.56	1.76	11/06/25 13:50	VL110625
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/06/25 13:50	VL110625
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/06/25 13:50	VL110625
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/06/25 13:50	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.4 70 (65) - 130 104% SPK: 10

INTERNAL STANDARDS

Area Count
74-97-5 Bromochloromethane 113000
540-36-3 1,4-Difluorobenzene 331000
3114-55-4 Chlorobenzene-d5 284000

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\VL110625\
 Data File : VL043165.D
 Acq On : 06 Nov 2025 13:50
 Operator : SY/MD
 Sample : Q3557-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:22:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113035	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	330913	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	283774	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	229122	10.388	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	32908	2.048	ppbv	97
3) Chlorodifluoromethane	1.476	51	5130m	0.295	ppbv	
4) Chloromethane	1.531	50	2999	0.471	ppbv	91
9) Propene	1.489	41	32726m	4.244	ppbv	
10) Heptane	4.972	43	5746m	0.259	ppbv	
11) Trichlorofluoromethane	1.878	101	5581	0.355	ppbv	99
13) Ethanol	1.719	45	103305	36.217	ppbv	100
15) Acetone	1.842	43	193426m	12.696	ppbv	
19) Isopropyl Alcohol	1.887	45	10103	1.065	ppbv #	1
20) Methylene Chloride	2.062	84	3972	0.660	ppbv #	86
26) Hexane	2.826	57	47767	2.744	ppbv #	41
30) Cyclohexane	3.855	84	5306	0.349	ppbv #	91
34) 2-Butanone	2.557	43	13607	0.612	ppbv	97
35) Carbon Tetrachloride	3.764	117	2179	0.092	ppbv #	93
36) Benzene	3.654	78	16826	0.540	ppbv	94
44) 2,2,4-Trimethylpentane	4.638	57	25124	0.478	ppbv #	83
53) Toluene	6.933	91	33445	0.904	ppbv	96
58) Ethyl Benzene	9.351	91	7473	0.153	ppbv	99
59) m/p-Xylene	9.532	91	23381m	0.602	ppbv	
60) o-Xylene	9.959	91	9569	0.249	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	6570	0.151	ppbv #	54
79) Naphthalene	13.513	128	12262	0.269	ppbv	97

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

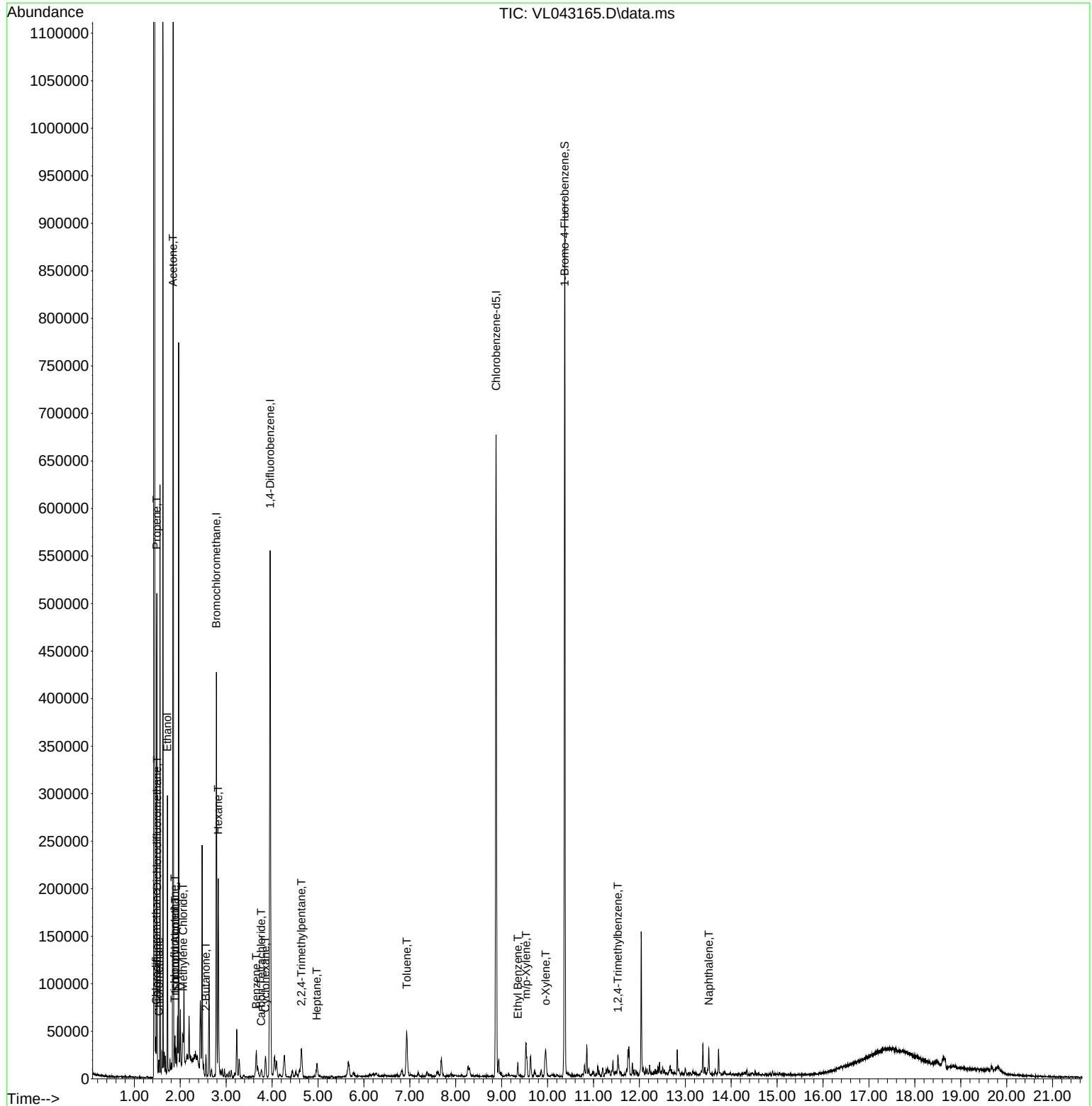
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Data File : VL043165.D
Acq On : 06 Nov 2025 13:50
Operator : SY/MD
Sample : Q3557-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

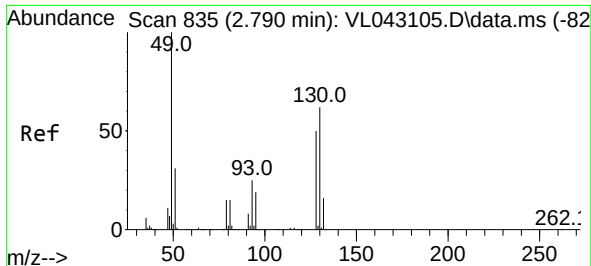
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

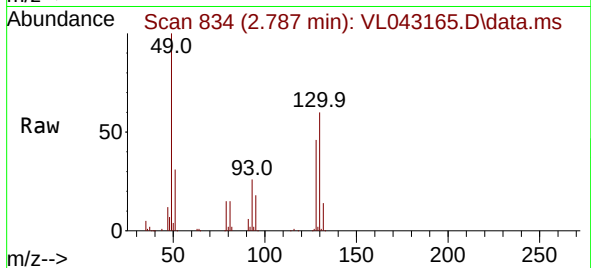
Quant Time: Nov 07 00:22:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

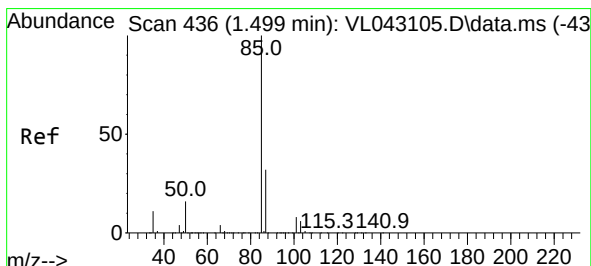
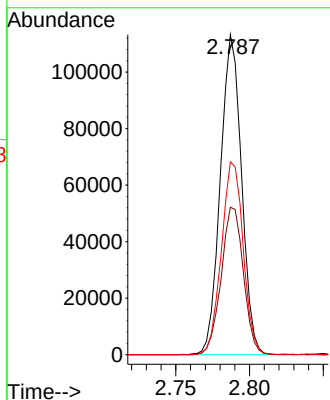
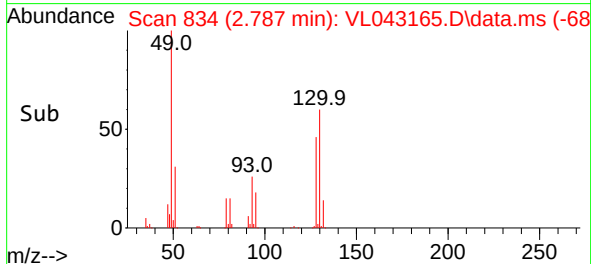
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 49 Resp: 11303
Ion Ratio Lower Upper
49 100
128 48.3 24.4 73.4
130 62.3 31.0 93.0

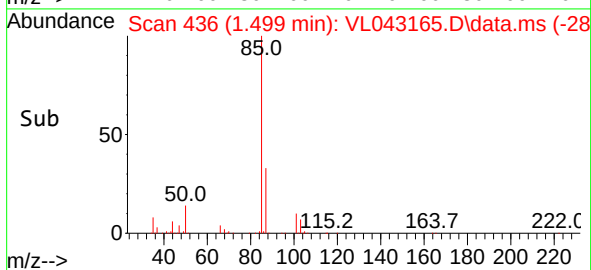
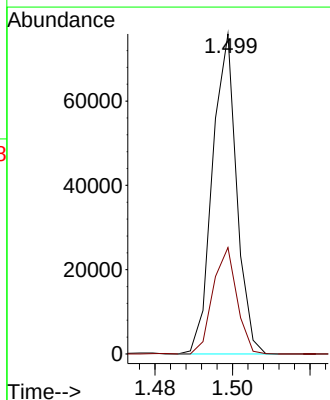
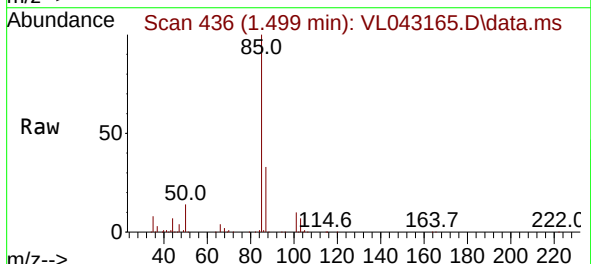
Manual Integrations
APPROVED

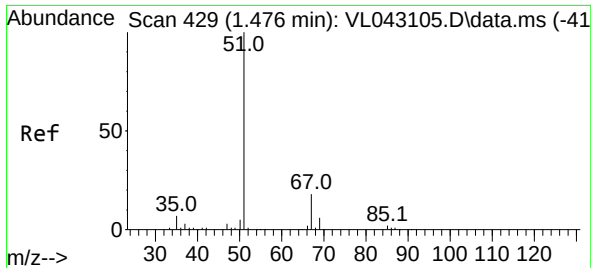
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 2.048 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

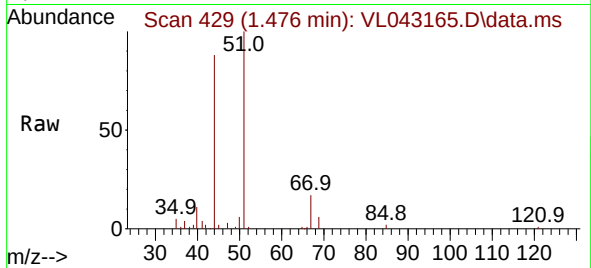
Tgt Ion: 85 Resp: 32908
Ion Ratio Lower Upper
85 100
87 33.3 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.295 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

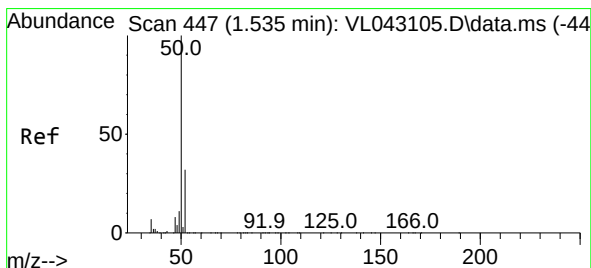
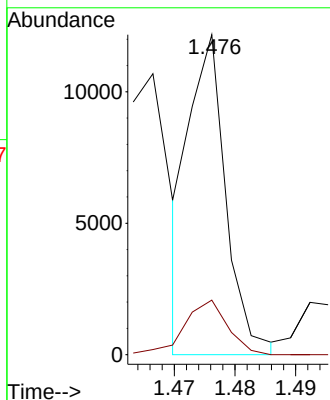
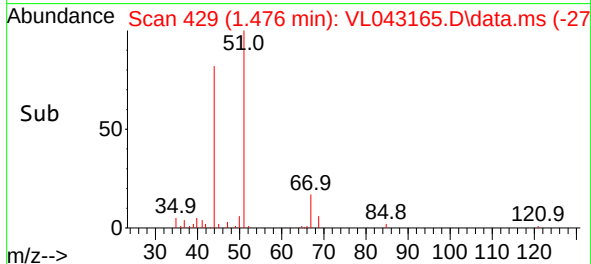
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



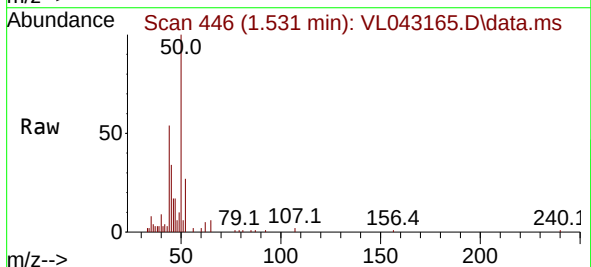
Tgt Ion: 51 Resp: 5130
Ion Ratio Lower Upper
51 100
67 21.1 15.1 22.7

Manual Integrations
APPROVED

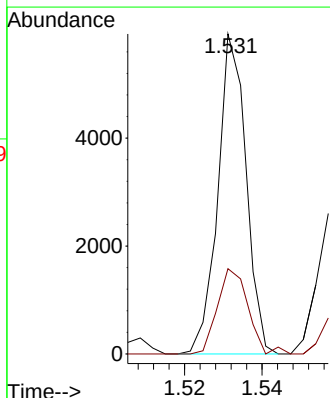
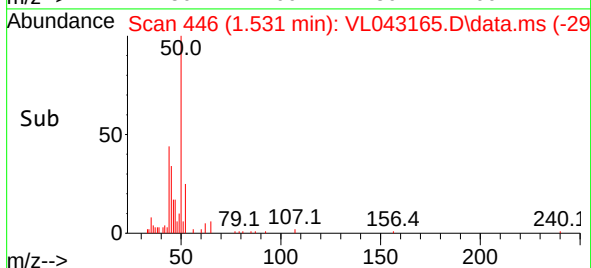
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

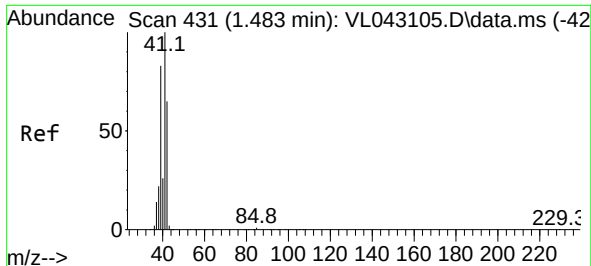


#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50



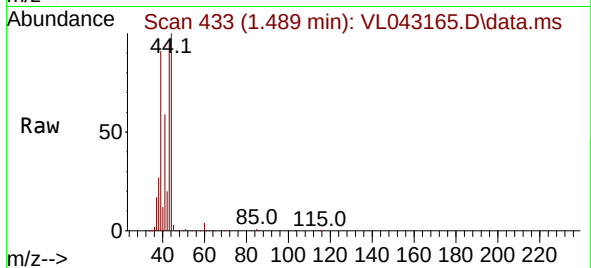
Tgt Ion: 50 Resp: 2999
Ion Ratio Lower Upper
50 100
52 26.6 25.2 37.8





#9
Propene
Concen: 4.244 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

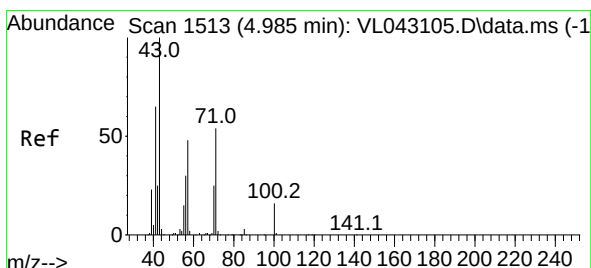
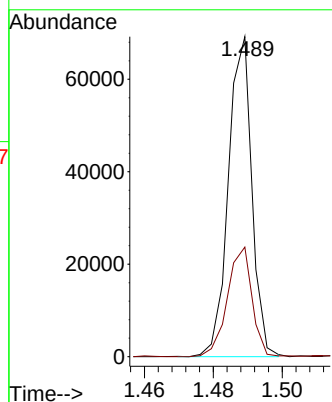
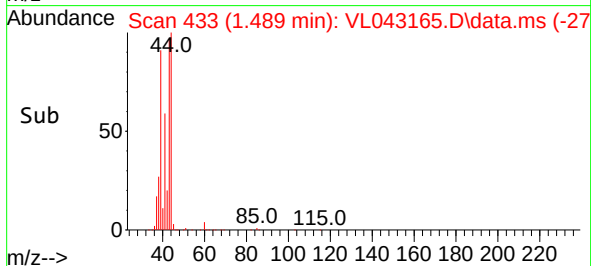
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 41 Resp: 32720
Ion Ratio Lower Upper
41 100
42 137.1 55.1 82.75

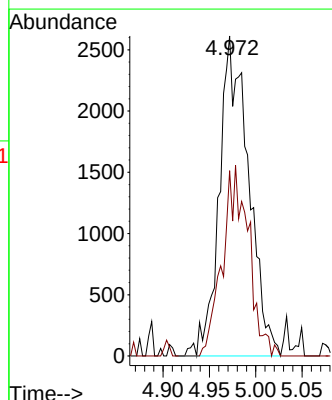
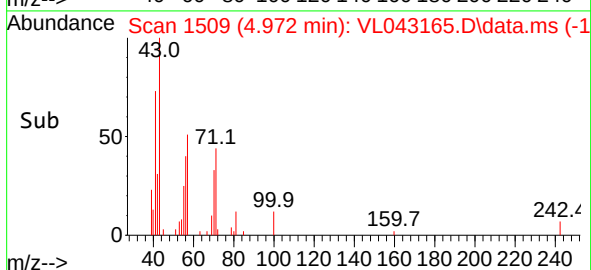
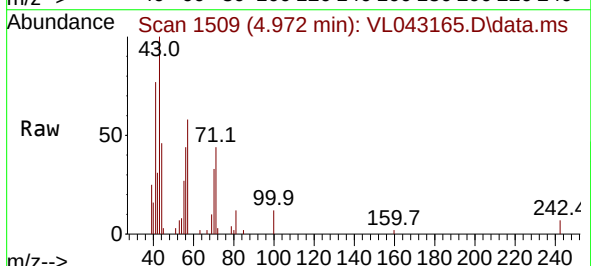
Manual Integrations
APPROVED

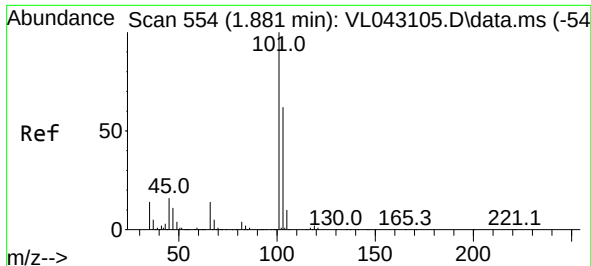
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#10
Heptane
Concen: 0.259 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.013 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

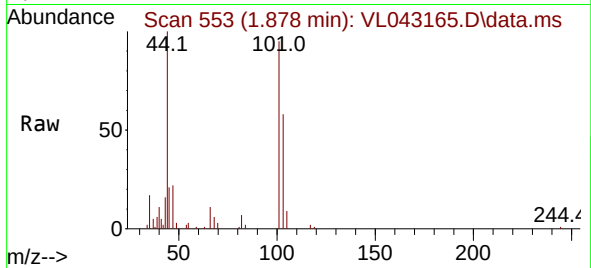
Tgt Ion: 43 Resp: 5746
Ion Ratio Lower Upper
43 100
57 53.1 40.8 61.2





#11
Trichlorofluoromethane
Concen: 0.355 ppbv
RT: 1.878 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

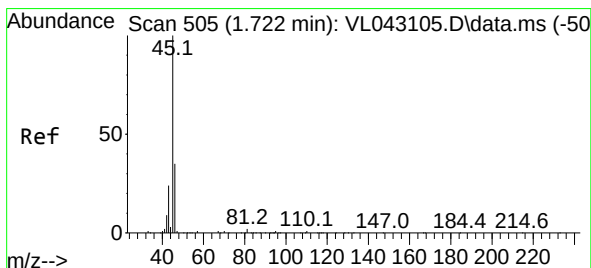
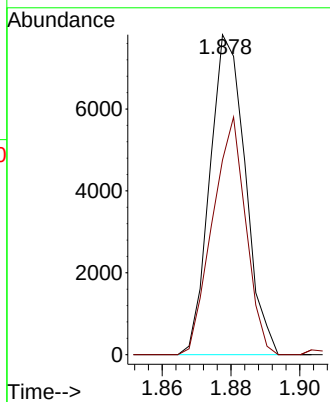
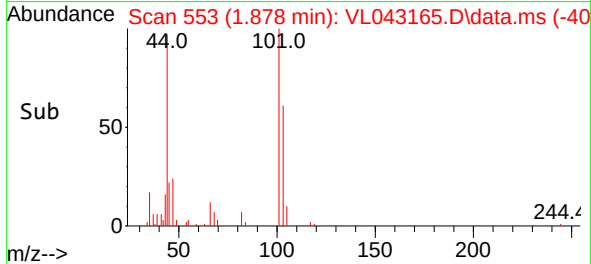
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



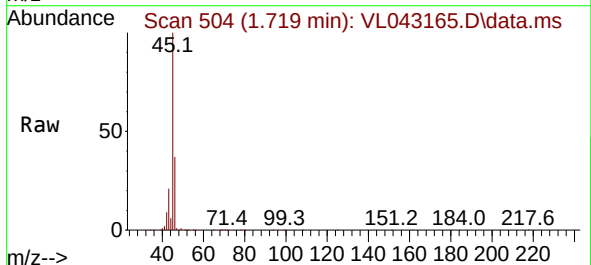
Tgt Ion:101 Resp: 558
Ion Ratio Lower Upper
101 100
103 60.8 49.3 73.9

Manual Integrations
APPROVED

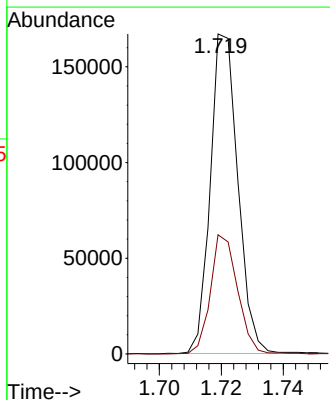
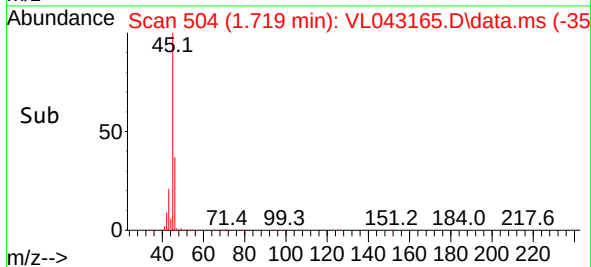
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

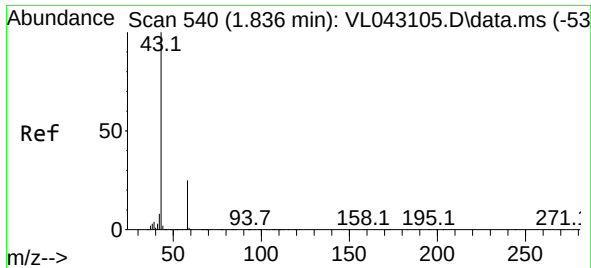


#13
Ethanol
Concen: 36.217 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50



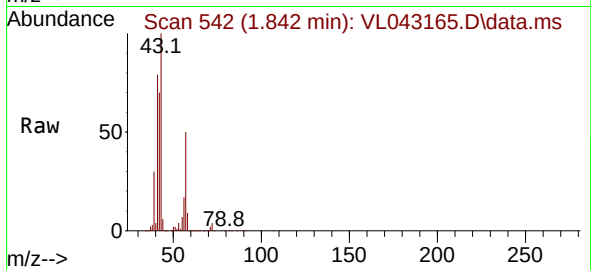
Tgt Ion: 45 Resp: 103305
Ion Ratio Lower Upper
45 100
46 37.1 14.7 58.9





#15
Acetone
Concen: 12.696 ppbv m
RT: 1.842 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

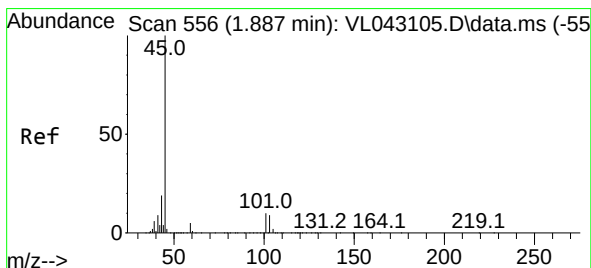
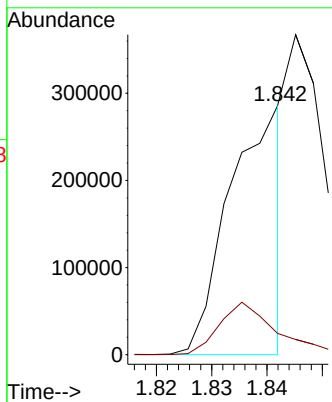
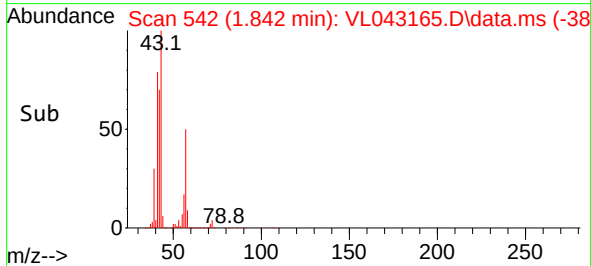
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 43 Resp: 193420
Ion Ratio Lower Upper
43 100
58 22.5 20.8 31.2

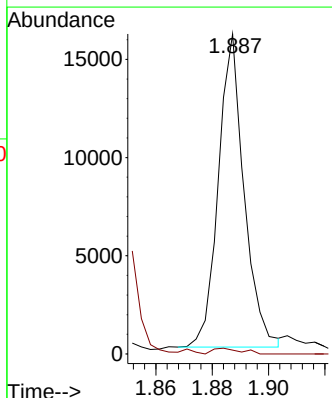
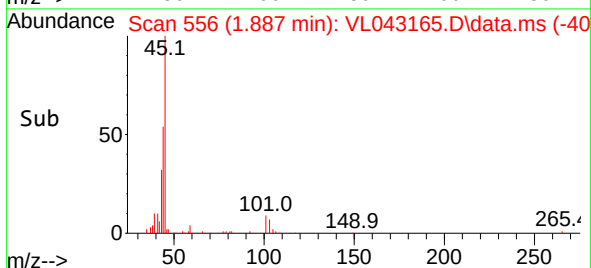
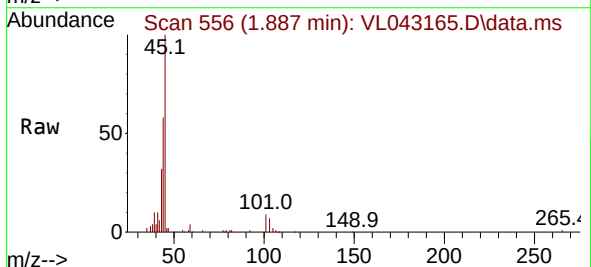
Manual Integrations
APPROVED

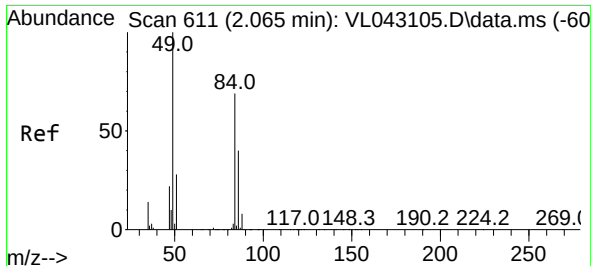
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#19
Isopropyl Alcohol
Concen: 1.065 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

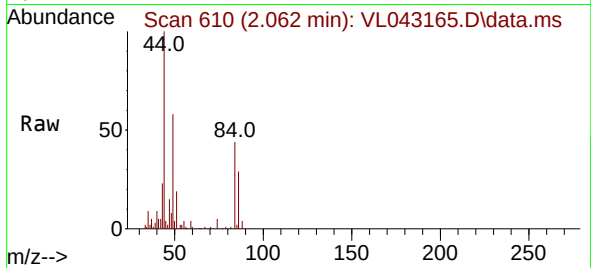
Tgt Ion: 45 Resp: 10103
Ion Ratio Lower Upper
45 100
58 432.0 31.3 46.9#





#20
Methylene Chloride
Concen: 0.660 ppbv
RT: 2.062 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

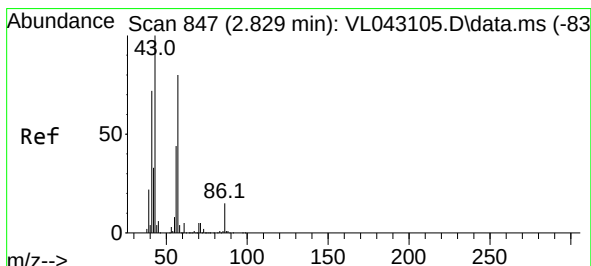
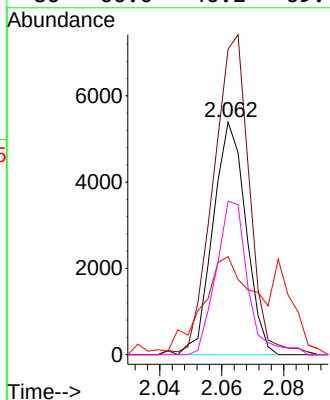
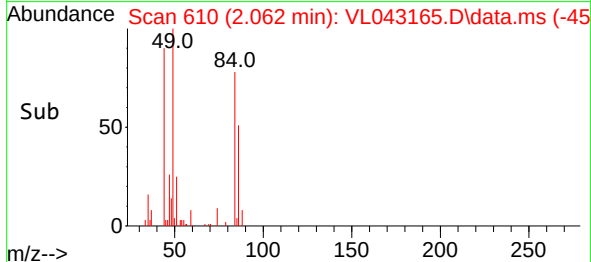
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 84 Resp: 3972
Ion Ratio Lower Upper
84 100
49 130.2 116.6 175.0
51 27.8 34.8 52.2
86 66.0 46.2 69.4

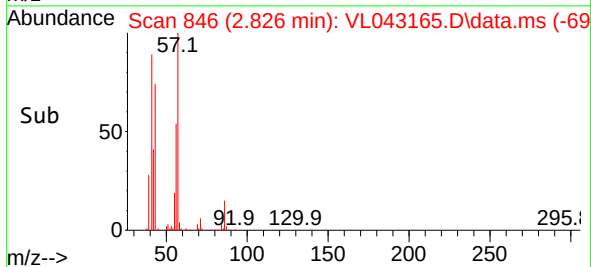
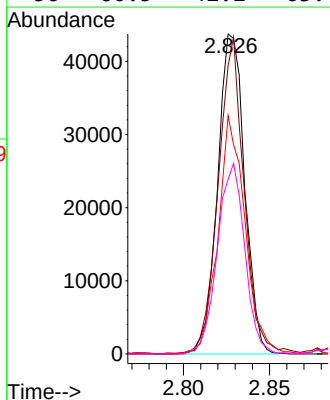
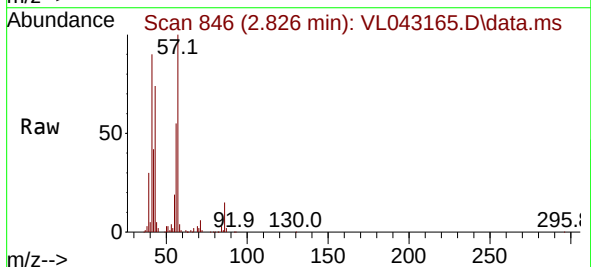
Manual Integrations
APPROVED

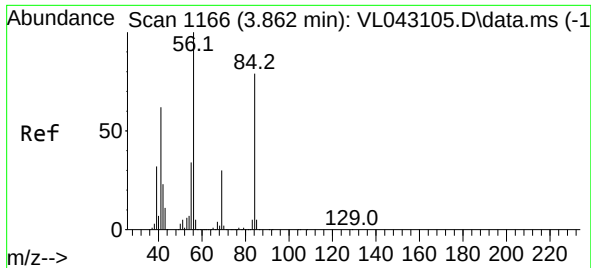
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#26
Hexane
Concen: 2.744 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

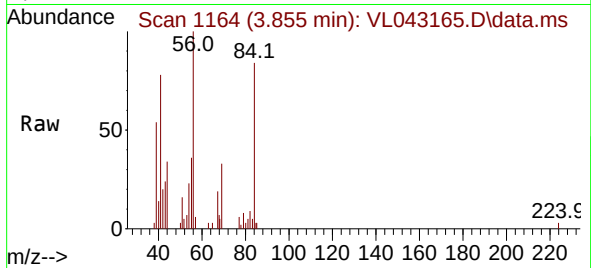
Tgt Ion: 57 Resp: 47767
Ion Ratio Lower Upper
57 100
41 95.1 71.4 107.0
43 75.9 178.5 267.7#
56 60.5 42.2 63.4





#30
Cyclohexane
Concen: 0.349 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

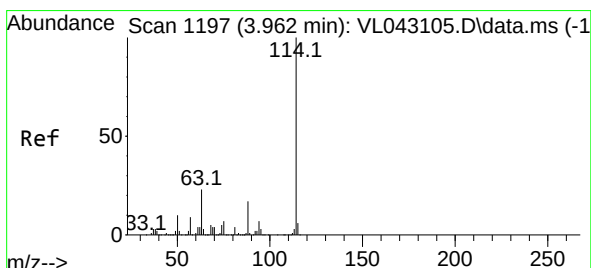
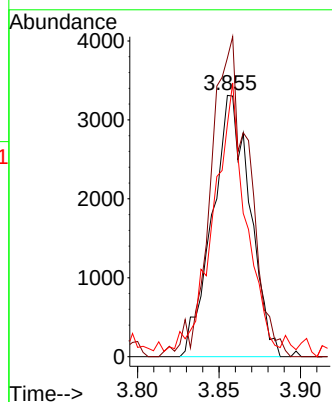
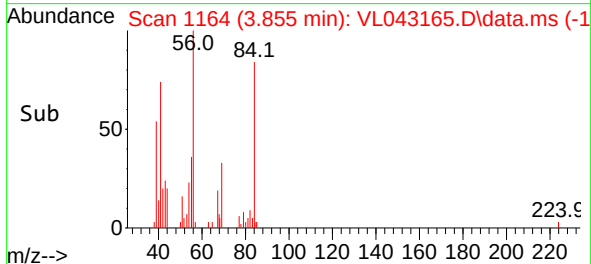
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 84 Resp: 5300
Ion Ratio Lower Upper
84 100
56 124.3 100.9 151.3
41 98.4 63.8 95.6

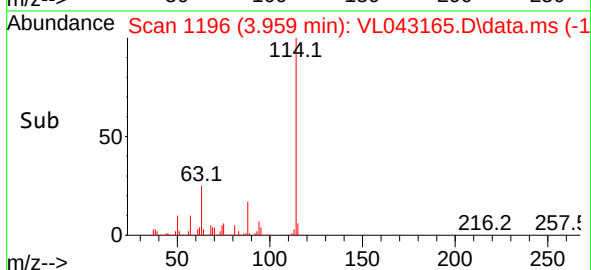
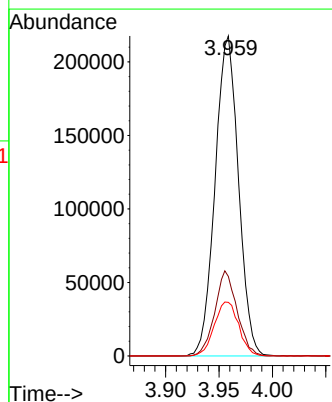
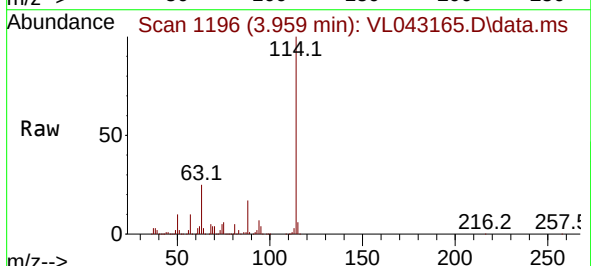
Manual Integrations
APPROVED

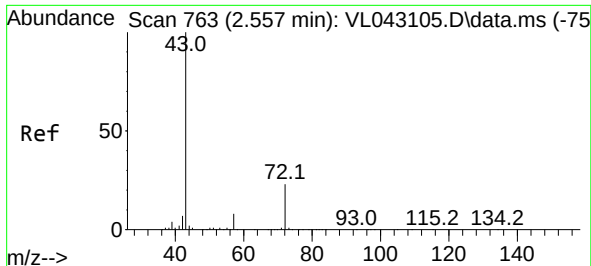
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion:114 Resp: 330913
Ion Ratio Lower Upper
114 100
63 25.4 19.3 28.9
88 17.7 13.9 20.9





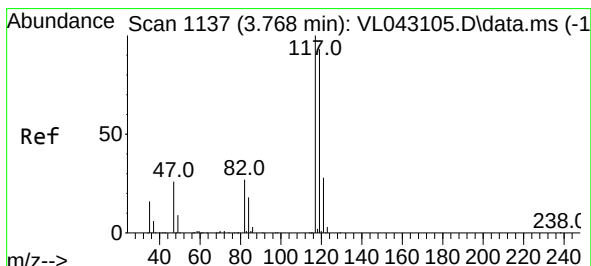
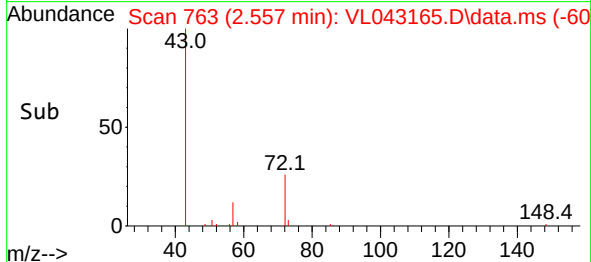
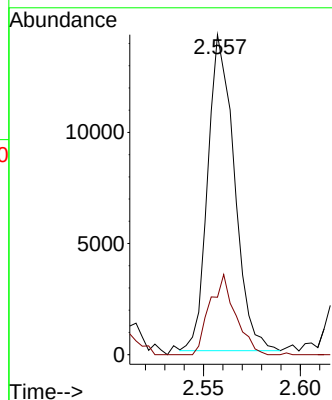
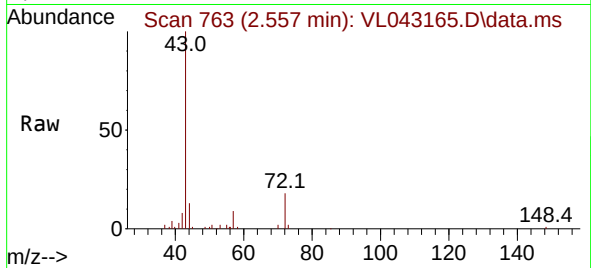
#34
2-Butanone
Concen: 0.612 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
141-IA2

Tgt Ion: 43 Resp: 1360
Ion Ratio Lower Upper
43 100
72 24.5 18.4 27.6

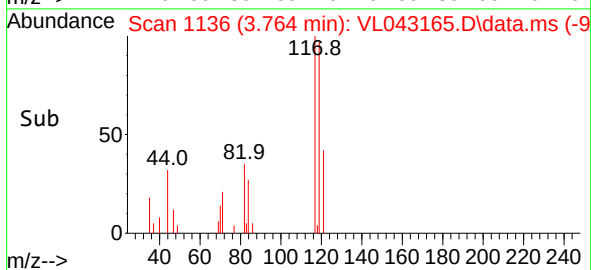
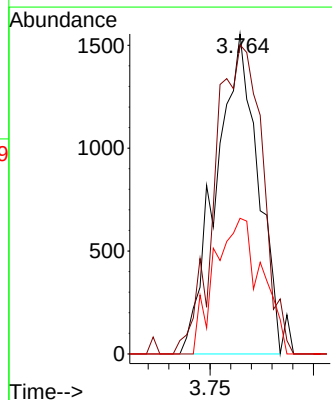
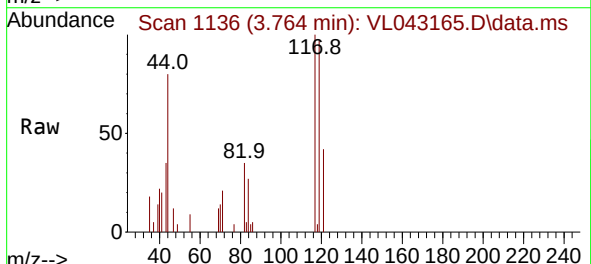
Manual Integrations
APPROVED

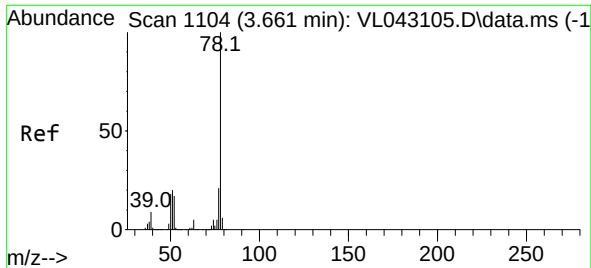
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.092 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

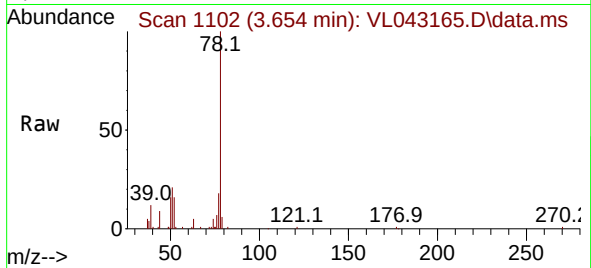
Tgt Ion:117 Resp: 2179
Ion Ratio Lower Upper
117 100
119 92.4 74.1 111.1
121 42.4 22.2 33.2#





#36
Benzene
Concen: 0.540 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

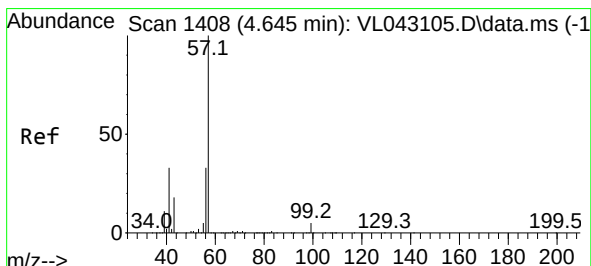
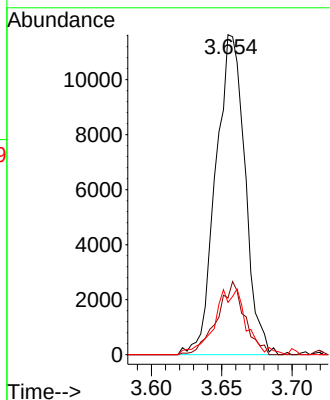
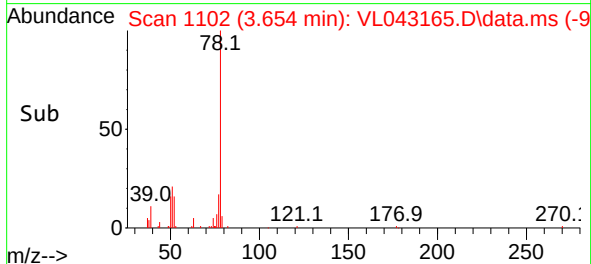
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



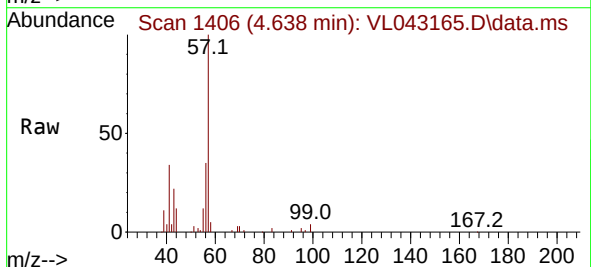
Tgt Ion: 78 Resp: 16820
Ion Ratio Lower Upper
78 100
77 17.7 17.0 25.6
50 16.3 14.6 22.0

Manual Integrations
APPROVED

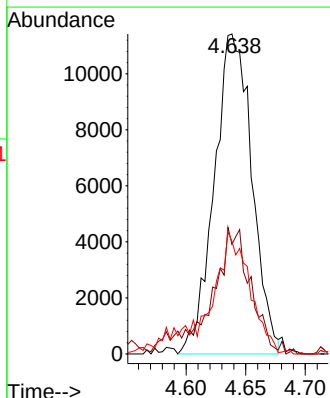
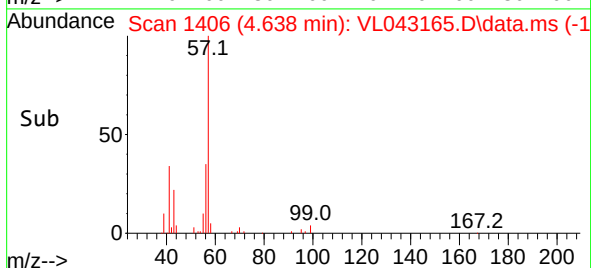
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

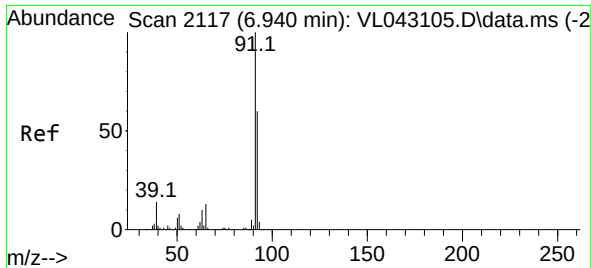


#44
2,2,4-Trimethylpentane
Concen: 0.478 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50



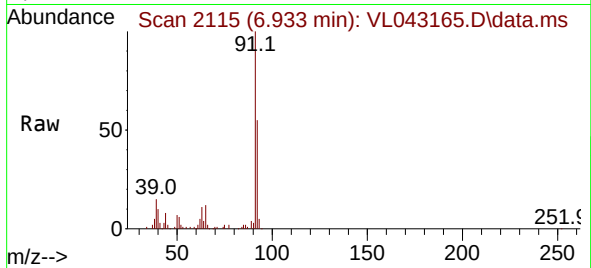
Tgt Ion: 57 Resp: 25124
Ion Ratio Lower Upper
57 100
41 42.1 26.3 39.5#
56 42.2 25.9 38.9#





#53
Toluene
Concen: 0.904 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

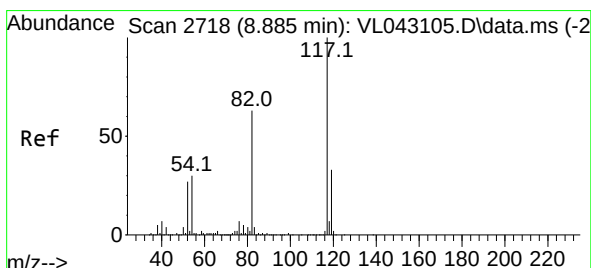
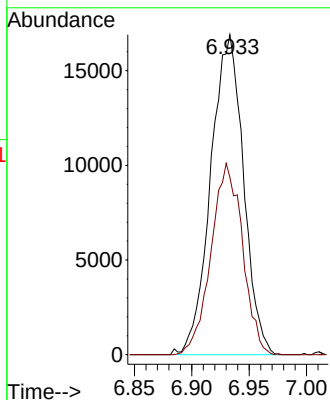
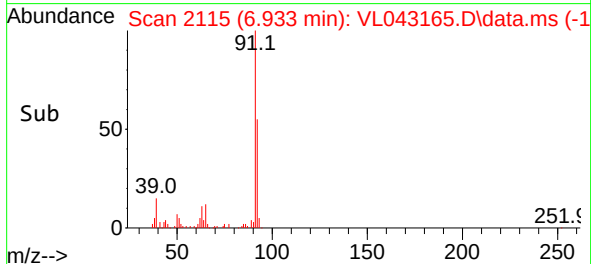
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 91 Resp: 3344
Ion Ratio Lower Upper
91 100
92 57.6 48.8 73.2

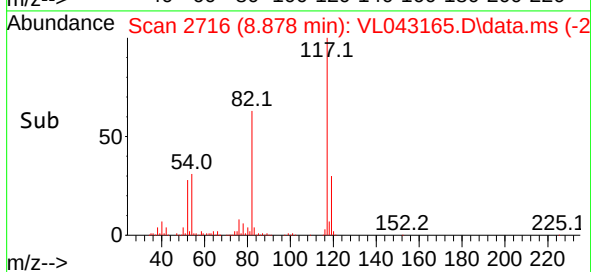
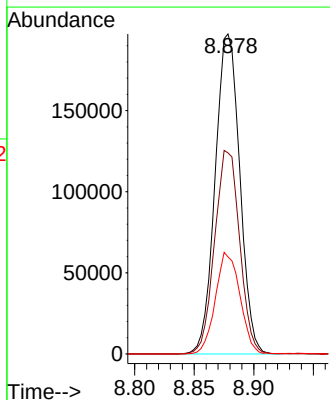
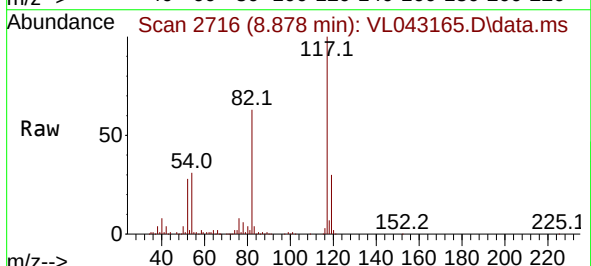
Manual Integrations
APPROVED

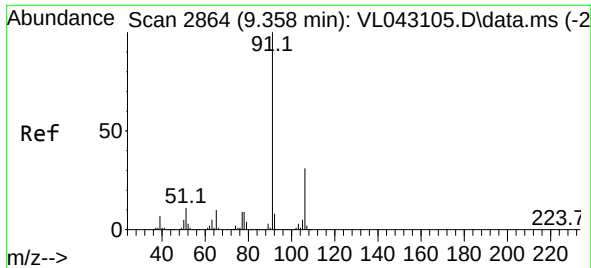
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

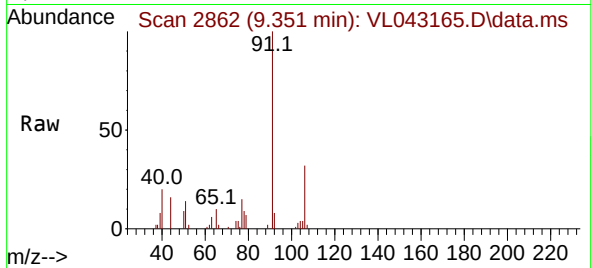
Tgt Ion:117 Resp: 283774
Ion Ratio Lower Upper
117 100
82 64.5 53.8 80.8
119 31.8 25.4 38.0





#58
Ethyl Benzene
Concen: 0.153 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

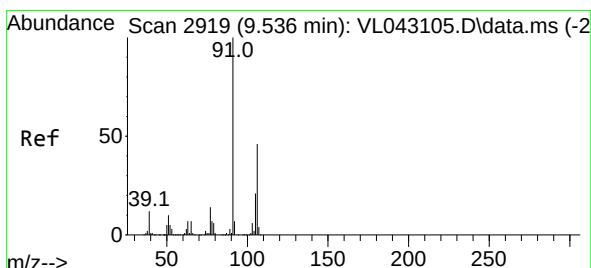
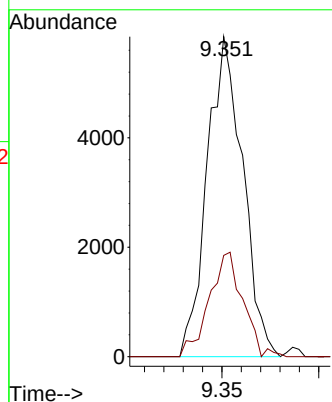
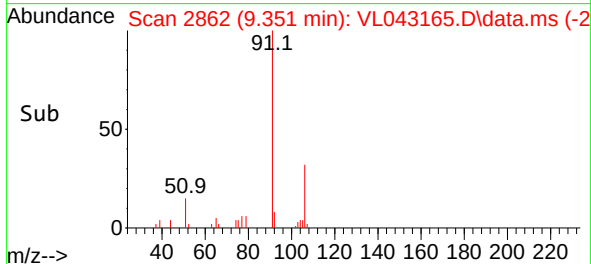
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 91 Resp: 747
Ion Ratio Lower Upper
91 100
106 31.7 24.8 37.2

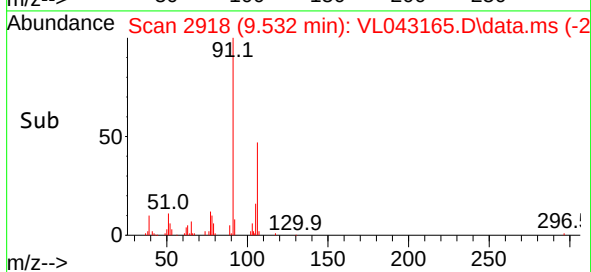
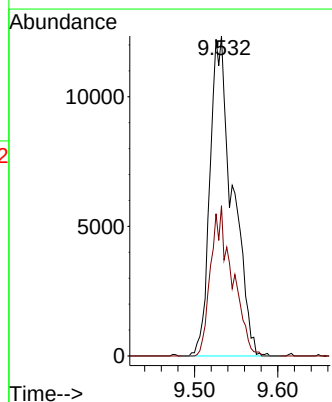
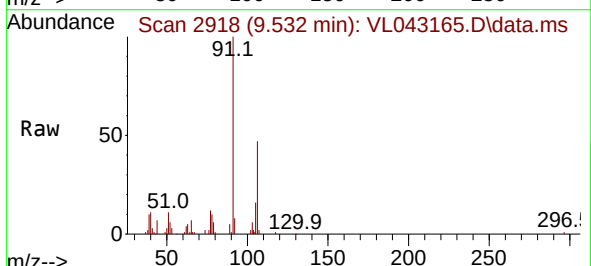
Manual Integrations
APPROVED

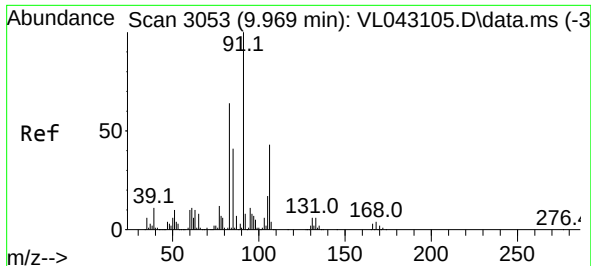
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#59
m/p-Xylene
Concen: 0.602 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 91 Resp: 23381
Ion Ratio Lower Upper
91 100
106 44.5 38.0 57.0





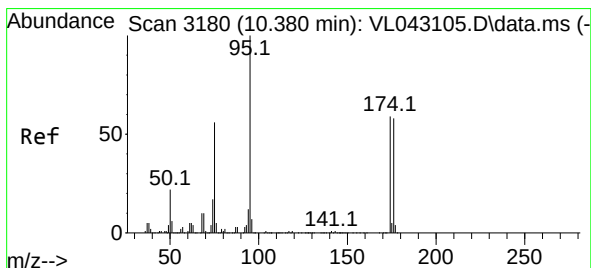
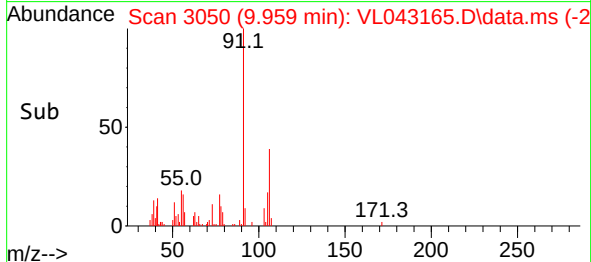
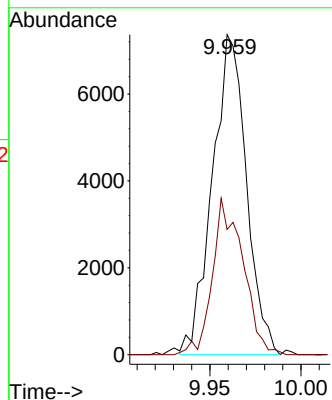
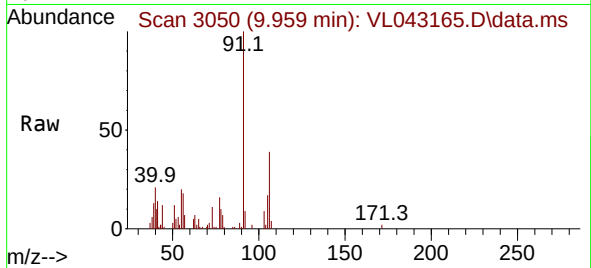
#60
o-Xylene
Concen: 0.249 ppbv
RT: 9.959 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
141-IA2

Tgt Ion: 91 Resp: 9569
Ion Ratio Lower Upper
91 100
106 43.8 21.9 65.8

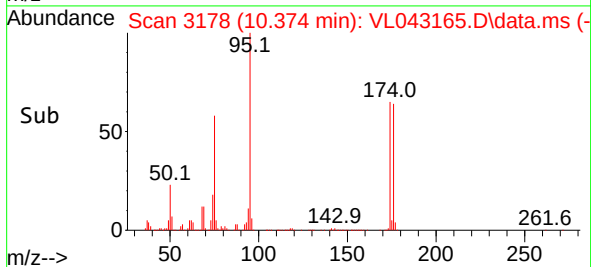
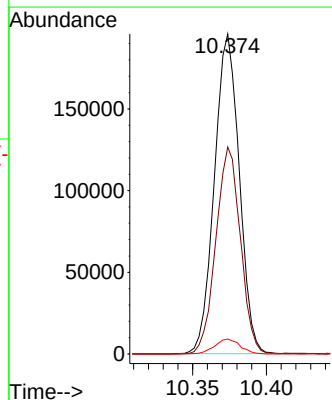
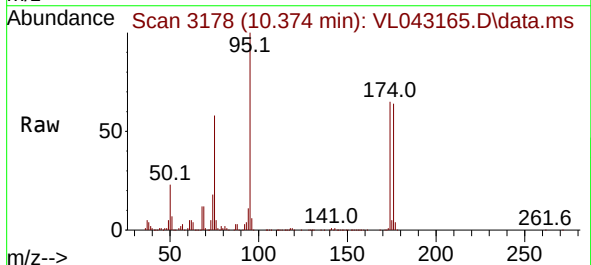
Manual Integrations
APPROVED

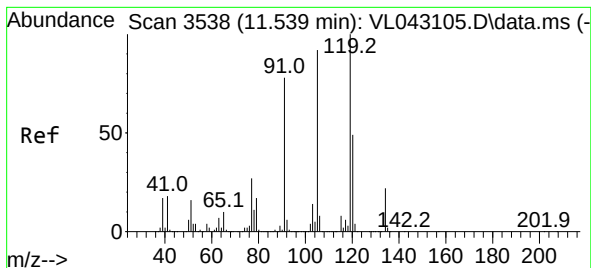
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.388 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 95 Resp: 229122
Ion Ratio Lower Upper
95 100
174 64.0 48.3 72.5
175 4.8 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.151 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.007 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_L

ClientSampleId :

141-IA2

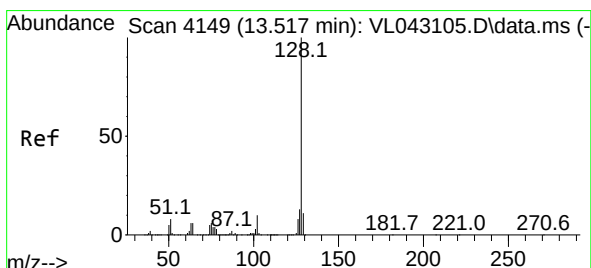
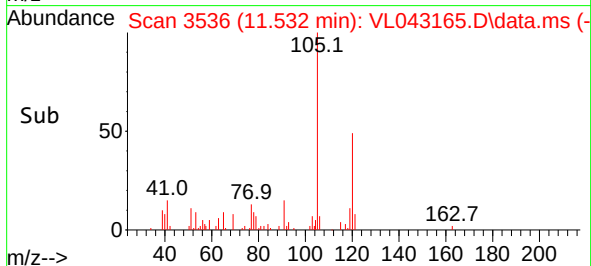
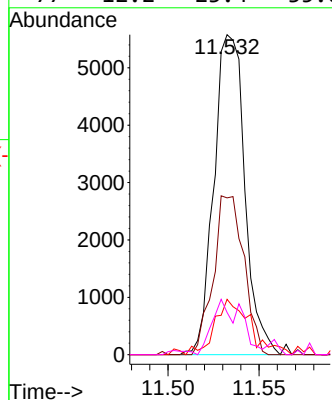
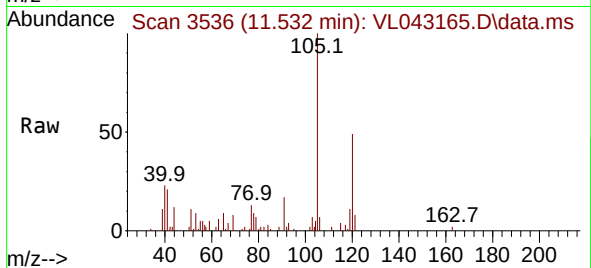
Tgt Ion:	105	Resp:	6570
Ion Ratio	Lower	Upper	
105	100		
120	49.0	42.8	64.2
91	16.1	68.3	102.5
77	12.2	23.4	35.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#79

Naphthalene

Concen: 0.269 ppbv

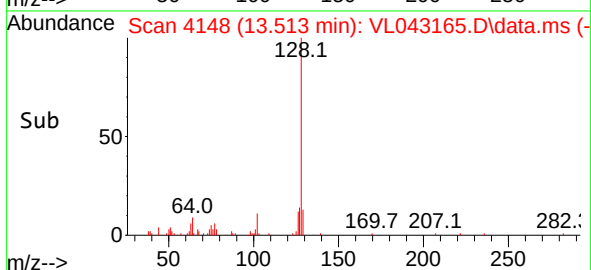
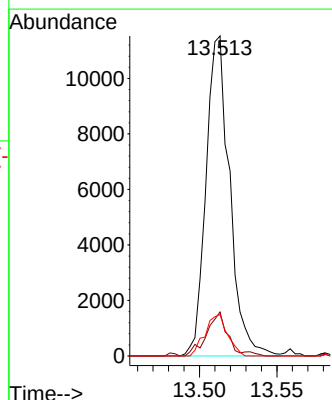
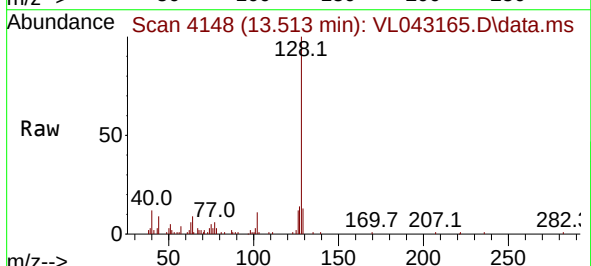
RT: 13.513 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Tgt Ion:	128	Resp:	12262
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.5	15.7
129	13.0	9.1	13.7



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-SG-1
Lab Sample ID: Q3557-04
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	5.44		2	1.09	4.94	11/06/25 20:35	VL110625
74-87-3	Chloromethane	0.25	0.52	J	2	0.41	2.07	11/06/25 20:35	VL110625
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/06/25 20:35	VL110625
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/06/25 20:35	VL110625
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/06/25 20:35	VL110625
109-99-9	Tetrahydrofuran	0.16	0.47	U	2	0.47	2.95	11/06/25 20:35	VL110625
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/06/25 20:35	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/06/25 20:35	VL110625
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/06/25 20:35	VL110625
75-65-0	tert-Butyl alcohol	0.32	0.97	U	2	0.97	3.03	11/06/25 20:35	VL110625
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/06/25 20:35	VL110625
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/06/25 20:35	VL110625
67-64-1	Acetone	9.10	21.6		2	0.86	2.38	11/06/25 20:35	VL110625
75-15-0	Carbon Disulfide	0.16	0.50	U	2	0.50	3.11	11/06/25 20:35	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/06/25 20:35	VL110625
75-09-2	Methylene Chloride	0.92	3.20	J	2	1.60	3.47	11/06/25 20:35	VL110625
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/06/25 20:35	VL110625
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/06/25 20:35	VL110625
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/06/25 20:35	VL110625
78-93-3	2-Butanone	0.99	2.92	J	2	0.32	2.95	11/06/25 20:35	VL110625
56-23-5	Carbon Tetrachloride	0.070	0.44		2	0.31	0.38	11/06/25 20:35	VL110625
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/06/25 20:35	VL110625
67-66-3	Chloroform	0.72	3.52	J	2	0.93	4.88	11/06/25 20:35	VL110625
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/06/25 20:35	VL110625
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/06/25 20:35	VL110625
71-43-2	Benzene	0.16	0.51	U	2	0.51	3.19	11/06/25 20:35	VL110625
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/06/25 20:35	VL110625
79-01-6	Trichloroethene	0.050	0.27	U	2	0.27	0.32	11/06/25 20:35	VL110625
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/06/25 20:35	VL110625
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/06/25 20:35	VL110625
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/06/25 20:35	VL110625
108-88-3	Toluene	0.32	1.21	U	2	1.21	3.77	11/06/25 20:35	VL110625
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/06/25 20:35	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/06/25 20:35	VL110625
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/06/25 20:35	VL110625
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/06/25 20:35	VL110625
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/06/25 20:35	VL110625
127-18-4	Tetrachloroethene	0.030	0.20	U	2	0.20	0.41	11/06/25 20:35	VL110625
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/06/25 20:35	VL110625
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/06/25 20:35	VL110625
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/06/25 20:35	VL110625
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/06/25 20:35	VL110625
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/06/25 20:35	VL110625
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/06/25 20:35	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/06/25 20:35	VL110625
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/06/25 20:35	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-SG-1
Lab Sample ID: Q3557-04
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/06/25 20:35	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/06/25 20:35	VL110625
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/06/25 20:35	VL110625
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/06/25 20:35	VL110625
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/06/25 20:35	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/06/25 20:35	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/06/25 20:35	VL110625
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/06/25 20:35	VL110625
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/06/25 20:35	VL110625
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/06/25 20:35	VL110625
110-54-3	Hexane	0.56	1.97	J	2	1.13	3.52	11/06/25 20:35	VL110625
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/06/25 20:35	VL110625
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/06/25 20:35	VL110625
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/06/25 20:35	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 9.90 70 (65) - 130 99% SPK: 10

INTERNAL STANDARDS

Area Count
74-97-5 Bromochloromethane 131000
540-36-3 1,4-Difluorobenzene 365000
3114-55-4 Chlorobenzene-d5 304000

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\VL110625\
 Data File : VL043177.D
 Acq On : 06 Nov 2025 20:35
 Operator : SY/MD
 Sample : Q3557-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:28:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

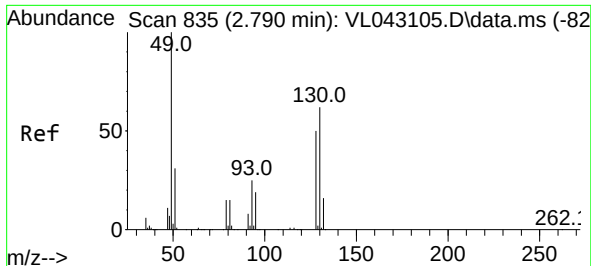
Internal Standards						
1) Bromochloromethane	2.784	49	130758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	364794	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.872	117	304142	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	234974	9.940	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9913	0.533	ppbv	92
4) Chloromethane	1.531	50	914	0.124	ppbv #	72
9) Propene	1.486	41	5549	0.622	ppbv	86
11) Trichlorofluoromethane	1.878	101	2531m	0.139	ppbv	
13) Ethanol	1.719	45	28888	8.755	ppbv	99
15) Acetone	1.832	43	79867	4.532	ppbv	99
19) Isopropyl Alcohol	1.884	45	8294	0.756	ppbv #	1
20) Methylene Chloride	2.062	84	3197	0.459	ppbv #	79
26) Hexane	2.823	57	5600	0.278	ppbv #	39
29) Chloroform	2.846	83	10548	0.361	ppbv	93
34) 2-Butanone	2.554	43	12160	0.496	ppbv	94
35) Carbon Tetrachloride	3.758	117	931m	0.035	ppbv	
53) Toluene	6.924	91	5111m	0.125	ppbv	

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

Manual Integrations

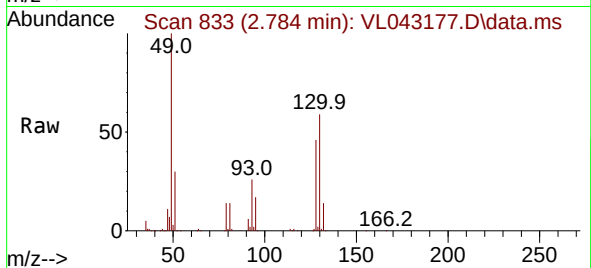
Quant Time: Nov 07 00:28:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

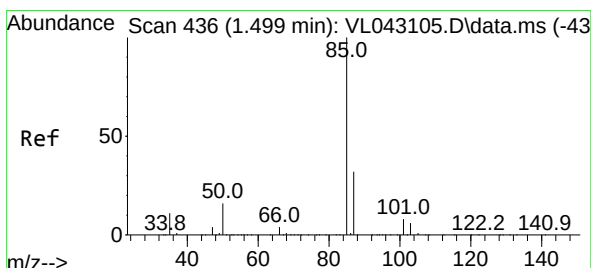
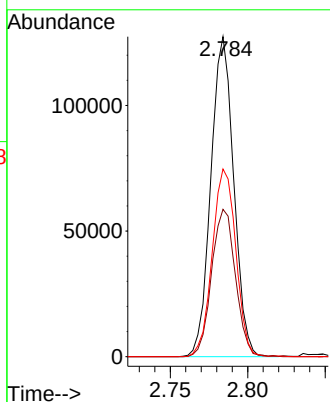
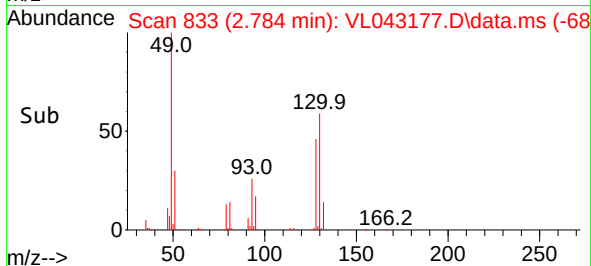
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



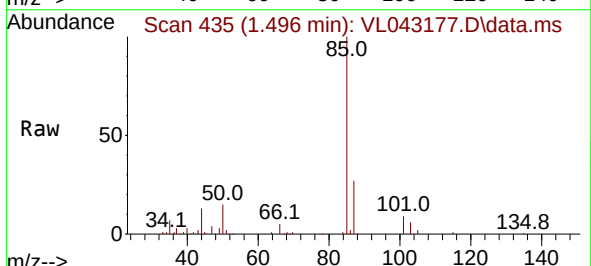
Tgt Ion: 49 Resp: 130758
Ion Ratio Lower Upper
49 100
128 47.9 24.4 73.4
130 60.5 31.0 93.0

Manual Integrations
APPROVED

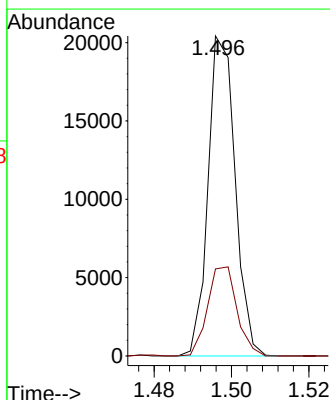
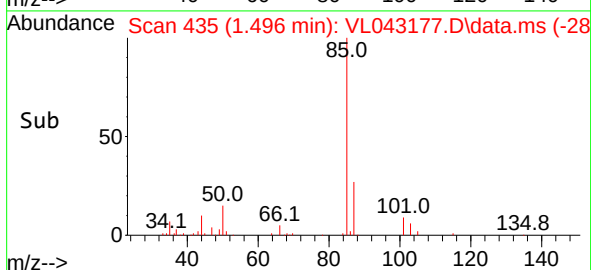
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

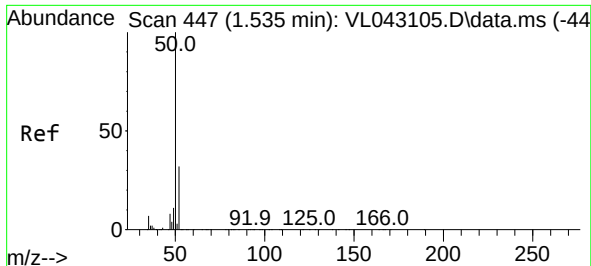


#2
Dichlorodifluoromethane
Concen: 0.533 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35



Tgt Ion: 85 Resp: 9913
Ion Ratio Lower Upper
85 100
87 27.2 25.3 37.9





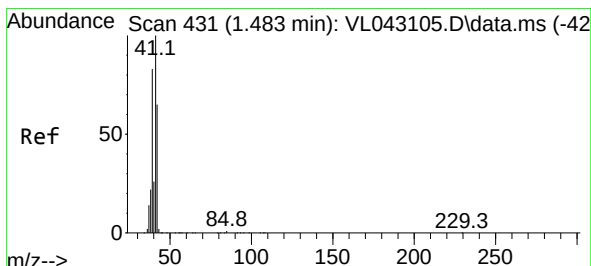
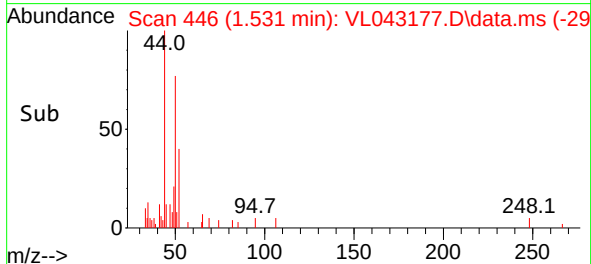
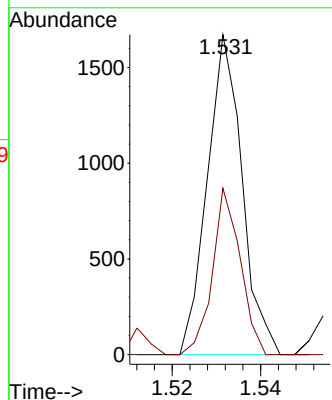
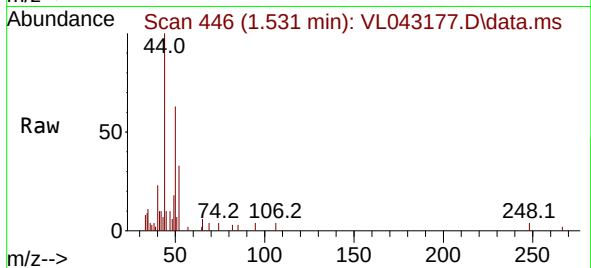
#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Instrument :
MSVOA_L
ClientSampleId :
141-SG-1

Tgt Ion: 50 Resp: 914
Ion Ratio Lower Upper
50 100
52 46.8 25.2 37.8

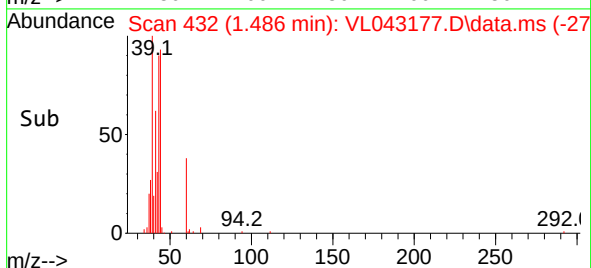
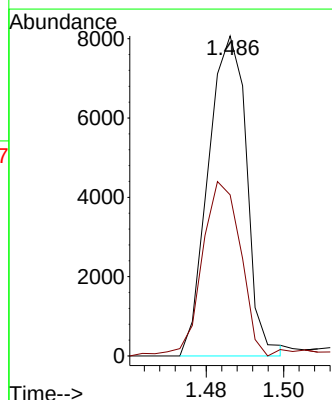
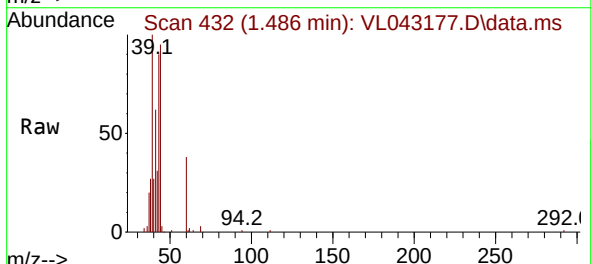
Manual Integrations
APPROVED

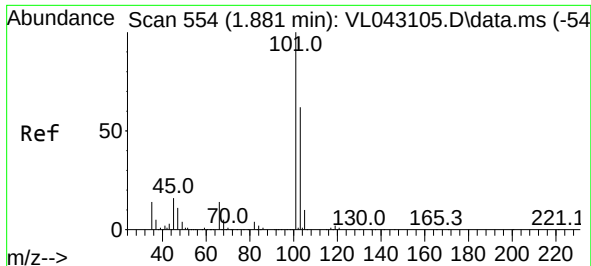
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#9
Propene
Concen: 0.622 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

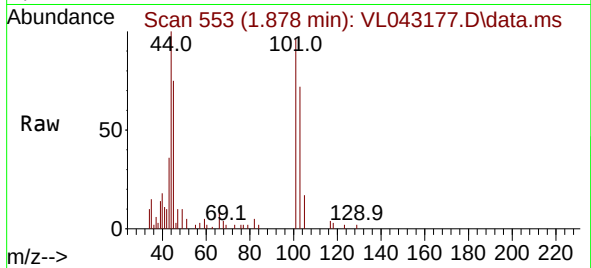
Tgt Ion: 41 Resp: 5549
Ion Ratio Lower Upper
41 100
42 57.3 55.1 82.7





#11
Trichlorofluoromethane
Concen: 0.139 ppbv m
RT: 1.878 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

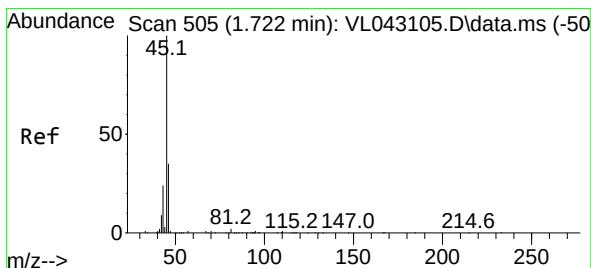
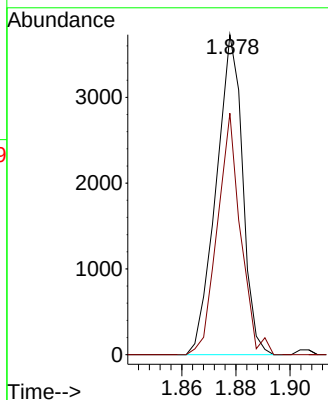
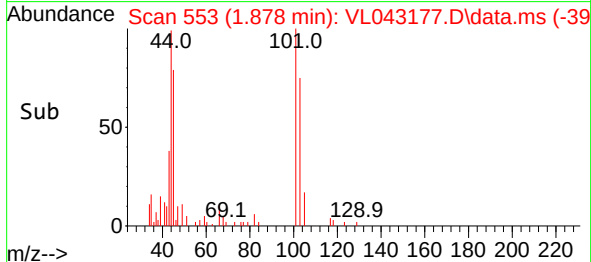
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion:101 Resp: 253
Ion Ratio Lower Upper
101 100
103 75.4 49.3 73.9

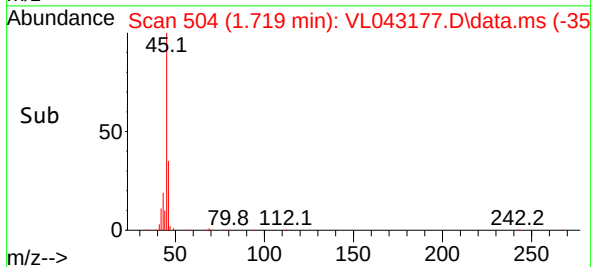
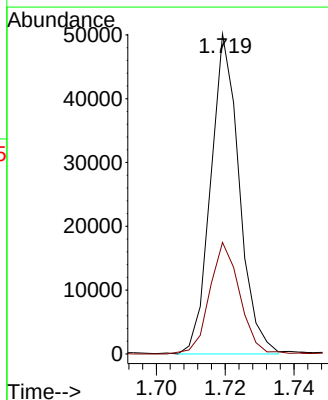
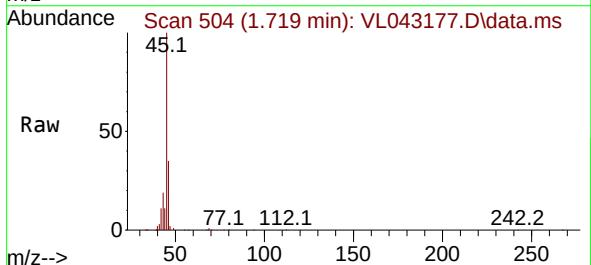
Manual Integrations
APPROVED

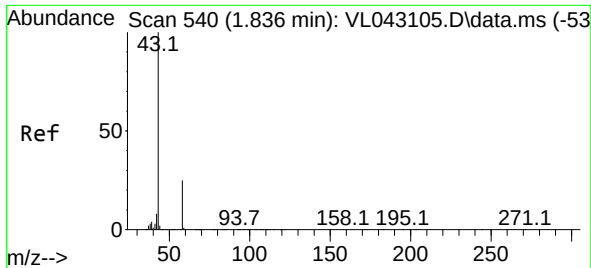
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#13
Ethanol
Concen: 8.755 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

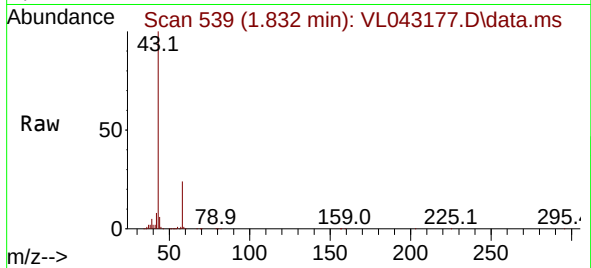
Tgt Ion: 45 Resp: 28888
Ion Ratio Lower Upper
45 100
46 37.4 14.7 58.9





#15
Acetone
Concen: 4.532 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

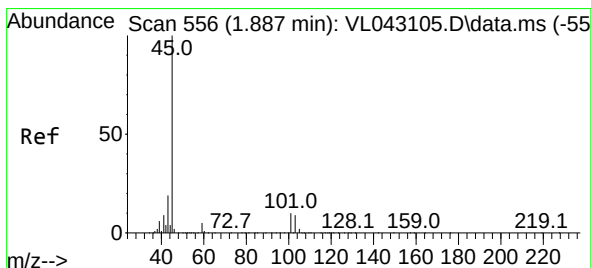
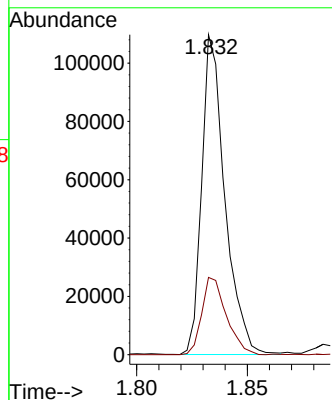
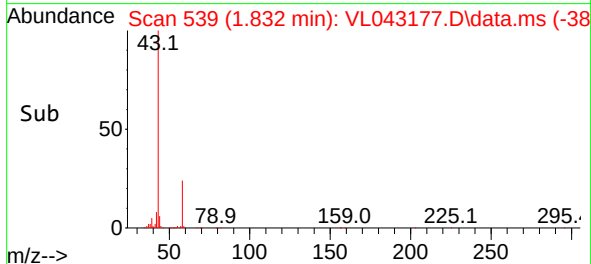
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion: 43 Resp: 7986
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2

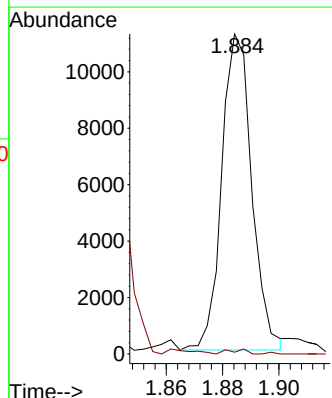
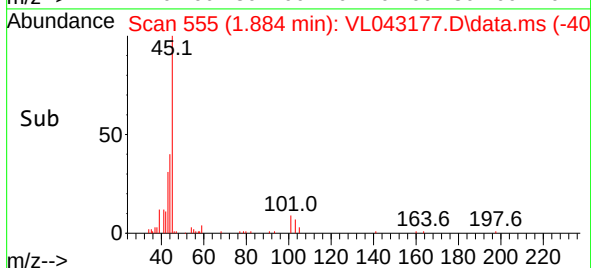
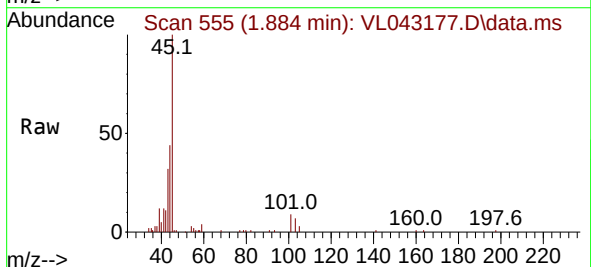
Manual Integrations
APPROVED

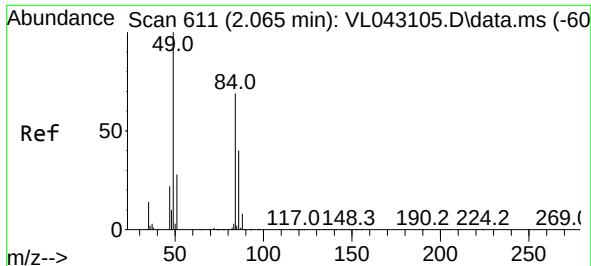
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#19
Isopropyl Alcohol
Concen: 0.756 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

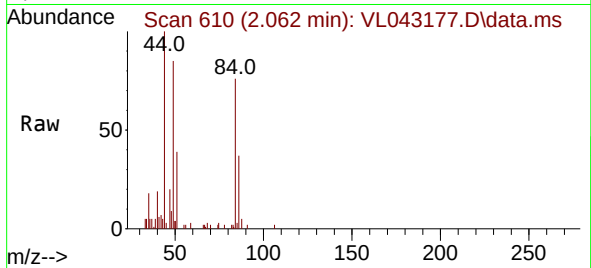
Tgt Ion: 45 Resp: 8294
Ion Ratio Lower Upper
45 100
58 248.3 31.3 46.9#





#20
Methylene Chloride
Concen: 0.459 ppbv
RT: 2.062 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

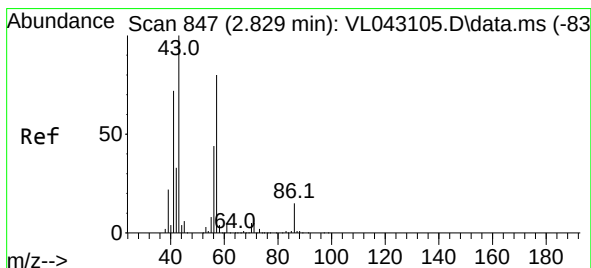
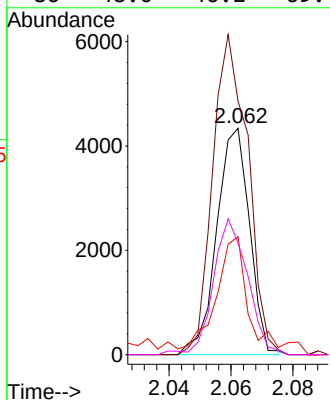
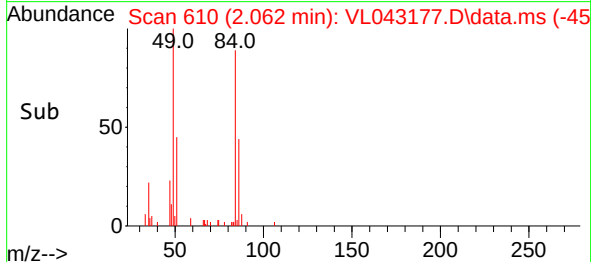
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion:	84	Resp:	319
Ion	Ratio	Lower	Upper
84	100		
49	111.9	116.6	175.0
51	49.6	34.8	52.2
86	48.0	46.2	69.4

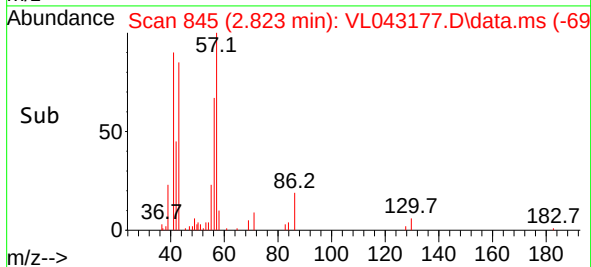
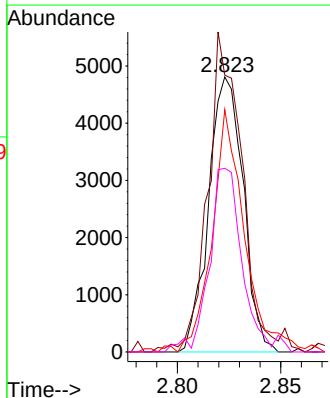
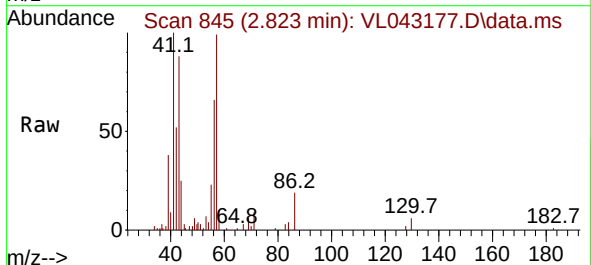
Manual Integrations
APPROVED

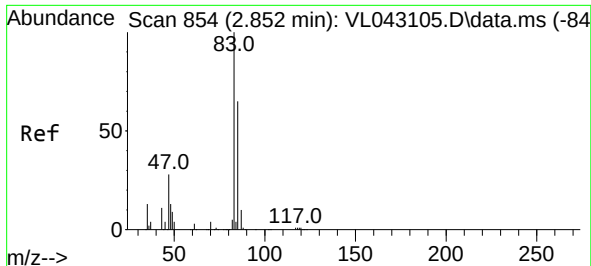
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#26
Hexane
Concen: 0.278 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.006 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion:	57	Resp:	5600
Ion	Ratio	Lower	Upper
57	100		
41	115.3	71.4	107.0
43	84.3	178.5	267.7
56	64.0	42.2	63.4





#29

Chloroform

Concen: 0.361 ppbv

RT: 2.846 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

141-SG-1

Tgt Ion: 83 Resp: 10548

Ion Ratio Lower Upper

83 100

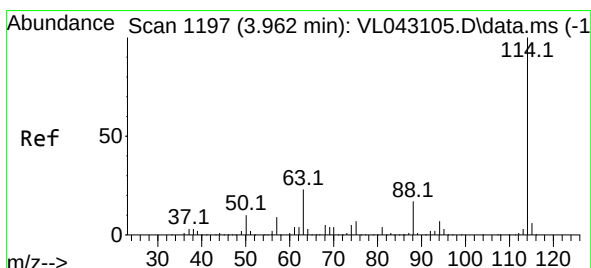
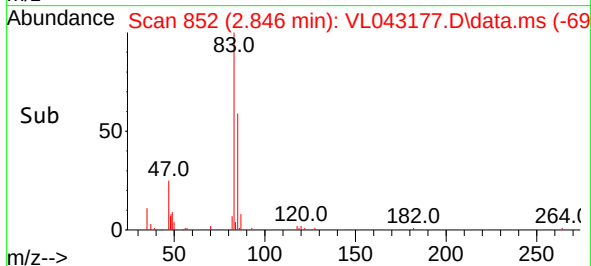
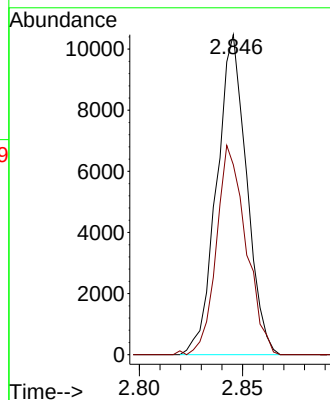
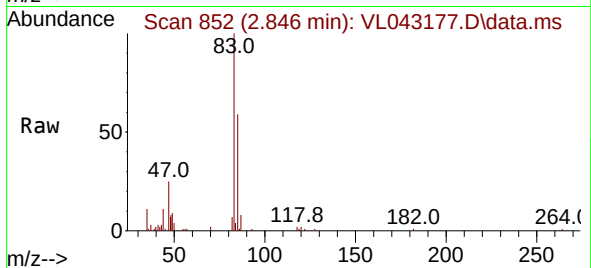
85 59.4 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.013 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

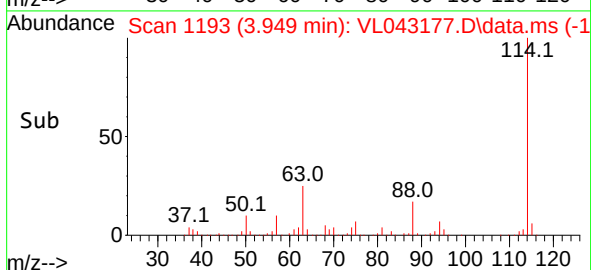
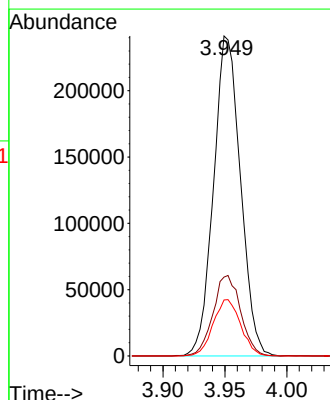
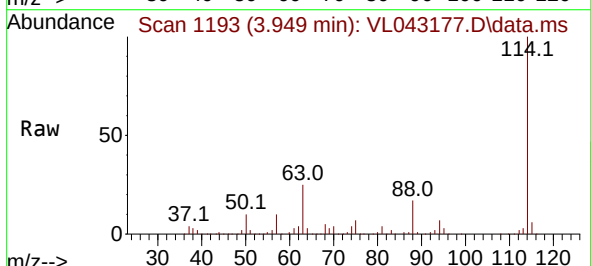
Tgt Ion:114 Resp: 364794

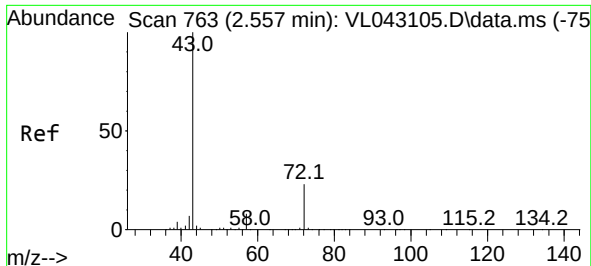
Ion Ratio Lower Upper

114 100

63 25.8 19.3 28.9

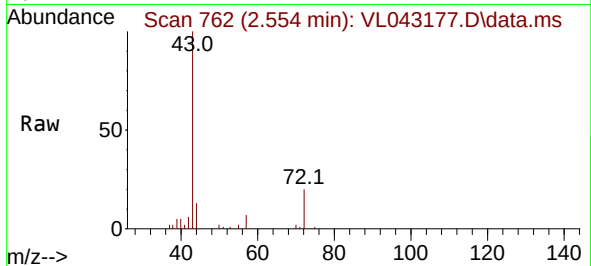
88 18.0 13.9 20.9





#34
2-Butanone
Concen: 0.496 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

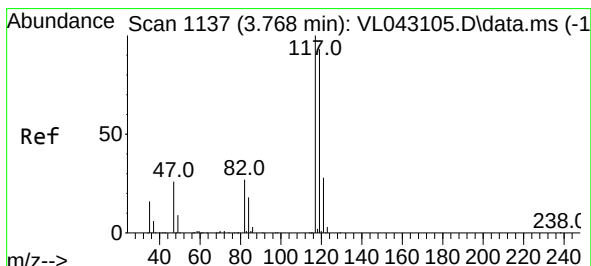
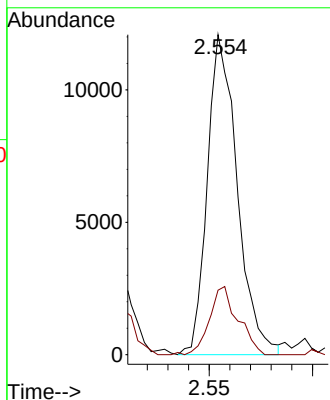
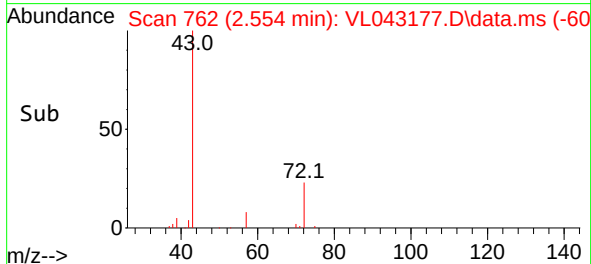
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion: 43 Resp: 12160
Ion Ratio Lower Upper
43 100
72 20.2 18.4 27.6

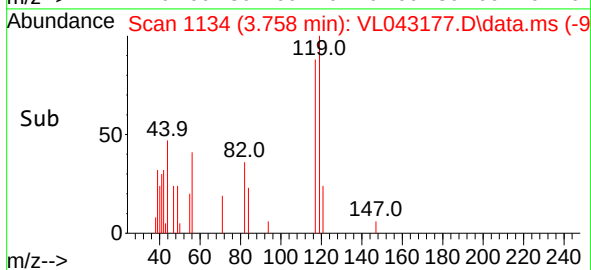
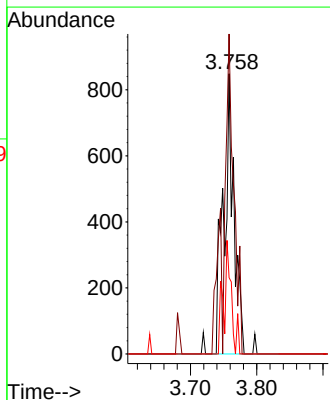
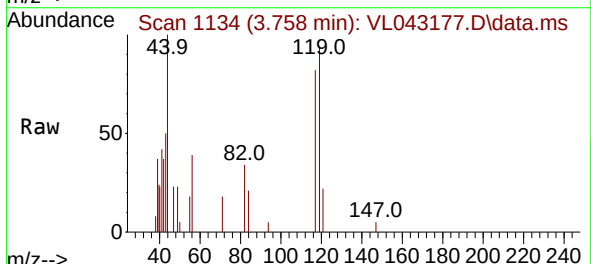
Manual Integrations
APPROVED

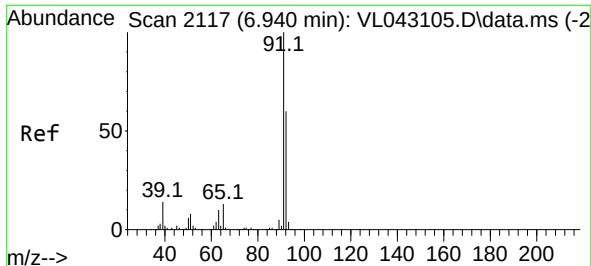
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.010 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

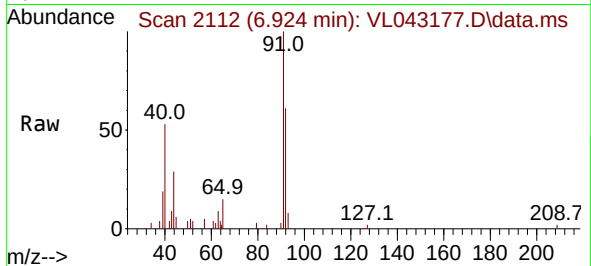
Tgt Ion:117 Resp: 931
Ion Ratio Lower Upper
117 100
119 114.1 74.1 111.1#
121 27.2 22.2 33.2





#53
Toluene
Concen: 0.125 ppbv m
RT: 6.924 min Scan# 2117
Delta R.T. -0.016 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

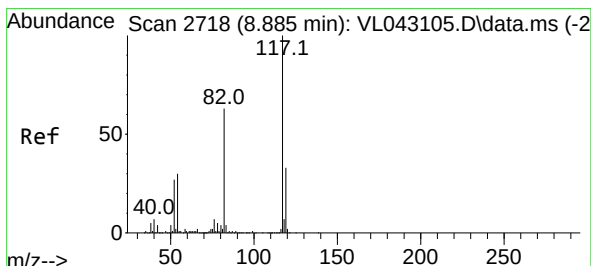
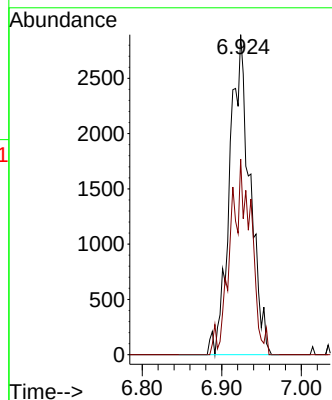
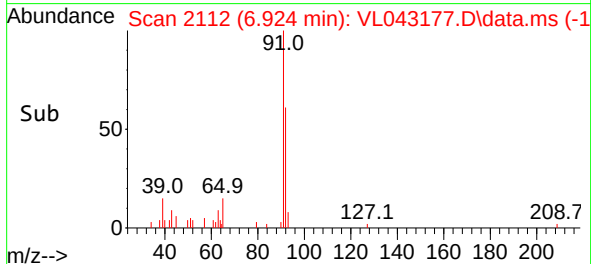
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion: 91 Resp: 511
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2

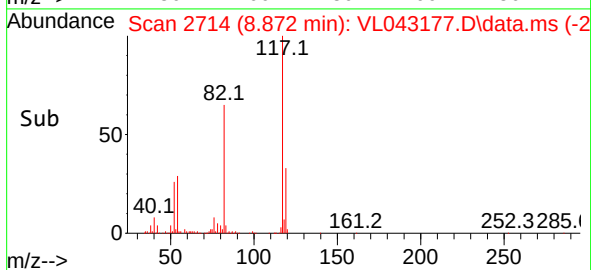
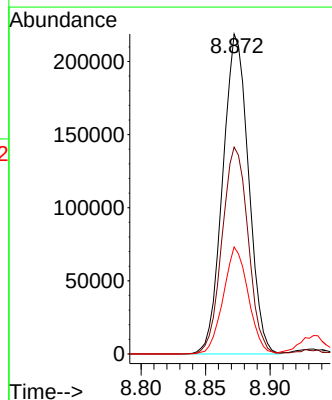
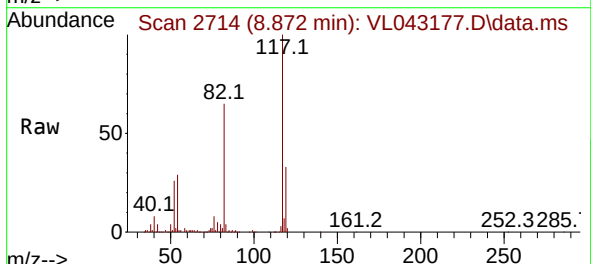
Manual Integrations
APPROVED

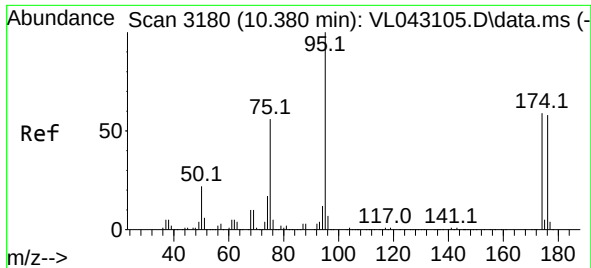
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.013 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

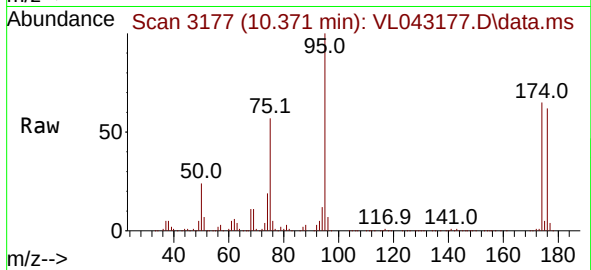
Tgt Ion:117 Resp: 304142
Ion Ratio Lower Upper
117 100
82 65.3 53.8 80.8
119 32.3 25.4 38.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.940 ppbv
 RT: 10.371 min Scan# 31
 Delta R.T. -0.010 min
 Lab File: VL043177.D
 Acq: 06 Nov 2025 20:35

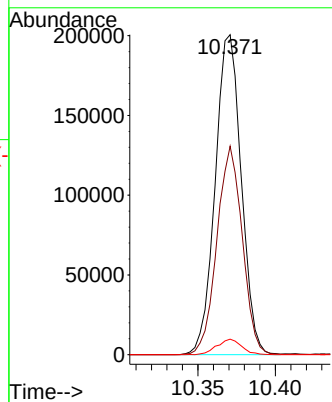
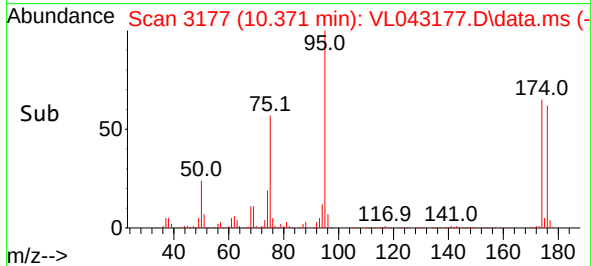
Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-1



Tgt Ion: 95 Resp: 234974
 Ion Ratio Lower Upper
 95 100
 174 63.6 48.3 72.5
 175 4.6 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-SG-2
Lab Sample ID: Q3557-05
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	5.44		2	1.09	4.94	11/06/25 21:08	VL110625
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/06/25 21:08	VL110625
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/06/25 21:08	VL110625
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/06/25 21:08	VL110625
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/06/25 21:08	VL110625
109-99-9	Tetrahydrofuran	0.23	0.68	J	2	0.47	2.95	11/06/25 21:08	VL110625
75-69-4	Trichlorofluoromethane	0.34	1.91	U	2	1.91	5.62	11/06/25 21:08	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/06/25 21:08	VL110625
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/06/25 21:08	VL110625
75-65-0	tert-Butyl alcohol	1.00	3.03		2	0.97	3.03	11/06/25 21:08	VL110625
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/06/25 21:08	VL110625
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/06/25 21:08	VL110625
67-64-1	Acetone	67.2	160	E	2	0.86	2.38	11/06/25 21:08	VL110625
75-15-0	Carbon Disulfide	0.16	0.50	U	2	0.50	3.11	11/06/25 21:08	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/06/25 21:08	VL110625
75-09-2	Methylene Chloride	1.10	3.82		2	1.60	3.47	11/06/25 21:08	VL110625
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/06/25 21:08	VL110625
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/06/25 21:08	VL110625
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/06/25 21:08	VL110625
78-93-3	2-Butanone	2.70	7.96		2	0.32	2.95	11/06/25 21:08	VL110625
56-23-5	Carbon Tetrachloride	0.080	0.50		2	0.31	0.38	11/06/25 21:08	VL110625
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/06/25 21:08	VL110625
67-66-3	Chloroform	0.19	0.93	U	2	0.93	4.88	11/06/25 21:08	VL110625
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/06/25 21:08	VL110625
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/06/25 21:08	VL110625
71-43-2	Benzene	0.16	0.51	U	2	0.51	3.19	11/06/25 21:08	VL110625
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/06/25 21:08	VL110625
79-01-6	Trichloroethene	0.050	0.27	U	2	0.27	0.32	11/06/25 21:08	VL110625
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/06/25 21:08	VL110625
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/06/25 21:08	VL110625
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	2	0.78	4.10	11/06/25 21:08	VL110625
108-88-3	Toluene	0.32	1.21	U	2	1.21	3.77	11/06/25 21:08	VL110625
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/06/25 21:08	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/06/25 21:08	VL110625
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/06/25 21:08	VL110625
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/06/25 21:08	VL110625
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/06/25 21:08	VL110625
127-18-4	Tetrachloroethene	0.22	1.49		2	0.20	0.41	11/06/25 21:08	VL110625
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/06/25 21:08	VL110625
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/06/25 21:08	VL110625
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/06/25 21:08	VL110625
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/06/25 21:08	VL110625
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/06/25 21:08	VL110625
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/06/25 21:08	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/06/25 21:08	VL110625
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/06/25 21:08	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-SG-2
Lab Sample ID: Q3557-05
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/06/25 21:08	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92	11/06/25 21:08	VL110625
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01	11/06/25 21:08	VL110625
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/06/25 21:08	VL110625
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01	11/06/25 21:08	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42	11/06/25 21:08	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7	11/06/25 21:08	VL110625
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21	11/06/25 21:08	VL110625
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05	11/06/25 21:08	VL110625
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92	11/06/25 21:08	VL110625
110-54-3	Hexane	0.56	1.97	J	2	1.13	3.52	11/06/25 21:08	VL110625
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13	11/06/25 21:08	VL110625
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60	11/06/25 21:08	VL110625
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09	11/06/25 21:08	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.0 70 (65) - 130 100% SPK: 10

INTERNAL STANDARDS

Area Count
74-97-5 Bromochloromethane 131000
540-36-3 1,4-Difluorobenzene 359000
3114-55-4 Chlorobenzene-d5 304000

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\VL110625\
 Data File : VL043178.D
 Acq On : 06 Nov 2025 21:08
 Operator : SY/MD
 Sample : Q3557-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:29:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	131405	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	358615	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	303524	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	236795	10.037	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.400%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	9907	0.530	ppbv	99
3) Chlorodifluoromethane	1.479	51	2087m	0.103	ppbv	
9) Propene	1.486	41	2376	0.265	ppbv #	15
11) Trichlorofluoromethane	1.877	101	2805	0.154	ppbv	90
13) Ethanol	1.722	45	18184	5.484	ppbv	92
15) Acetone	1.835	43	595518	33.623	ppbv	99
17) tert-Butyl alcohol	2.039	59	12433	0.511	ppbv #	94
19) Isopropyl Alcohol	1.887	45	8050	0.730	ppbv #	36
20) Methylene Chloride	2.062	84	3877	0.554	ppbv #	89
26) Hexane	2.826	57	5694	0.281	ppbv #	42
34) 2-Butanone	2.557	43	32842	1.362	ppbv	98
35) Carbon Tetrachloride	3.751	117	1091m	0.042	ppbv	
41) Tetrahydrofuran	3.065	42	1517	0.113	ppbv #	86
52) Tetrachloroethene	8.215	164	1364m	0.112	ppbv	

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

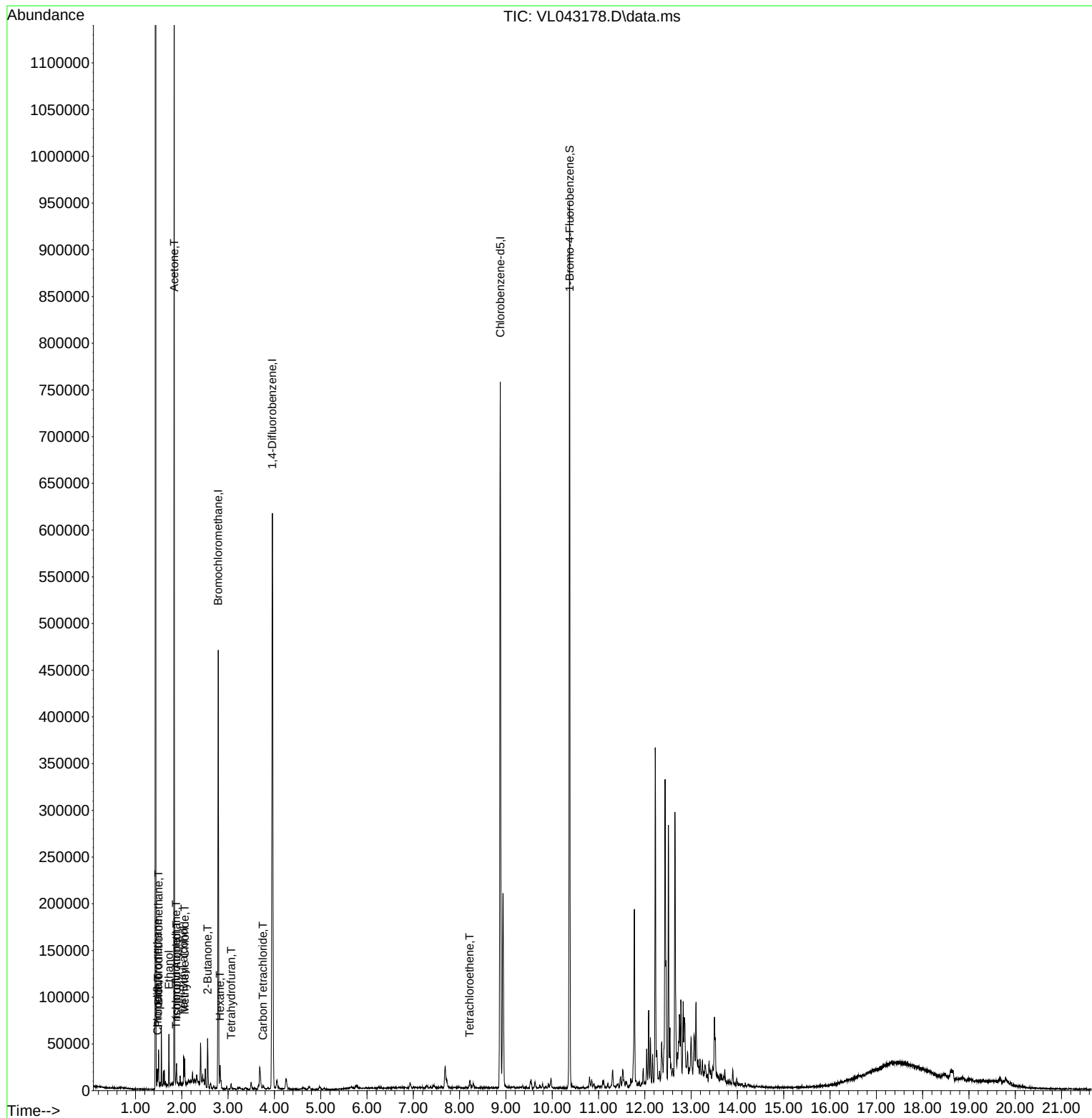
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043178.D
Acq On : 06 Nov 2025 21:08
Operator : SY/MD
Sample : Q3557-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

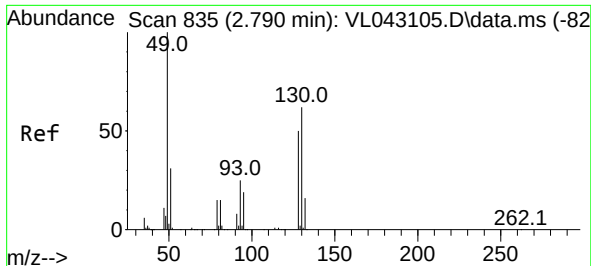
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2

Quant Time: Nov 07 00:29:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025





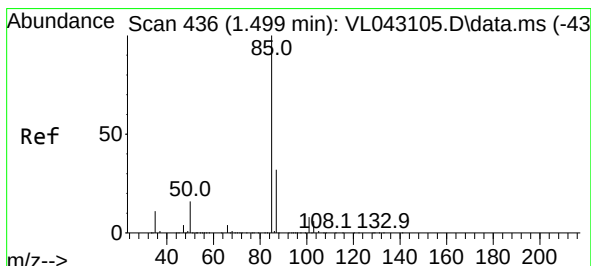
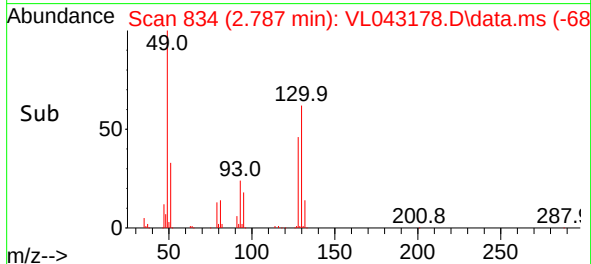
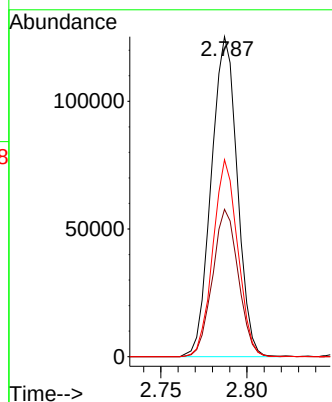
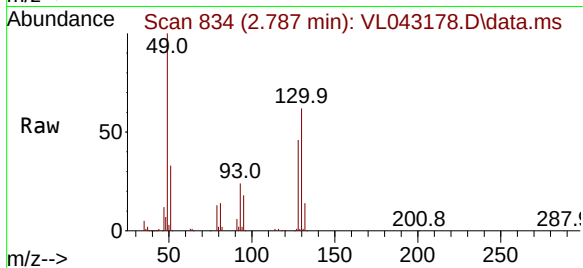
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Instrument :
MSVOA_L
ClientSampleId :
141-SG-2

Tgt Ion: 49 Resp: 13140
Ion Ratio Lower Upper
49 100
128 45.8 24.4 73.4
130 58.7 31.0 93.0

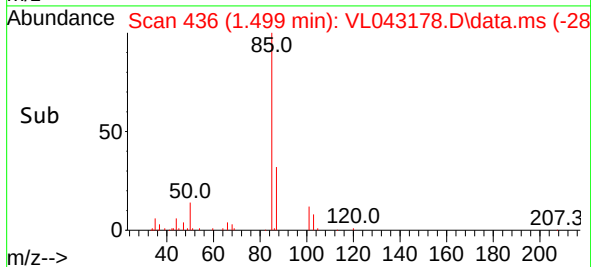
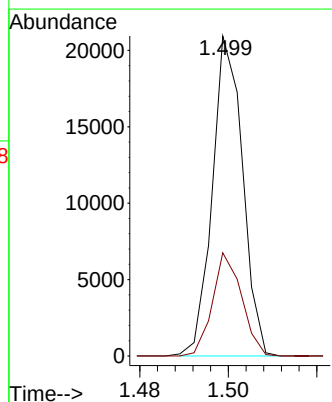
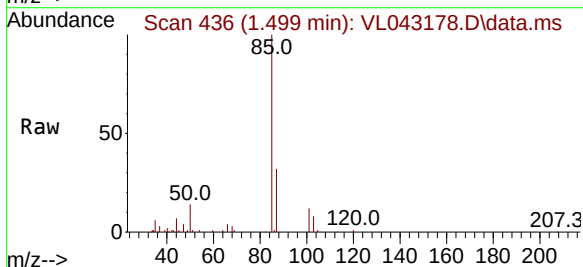
Manual Integrations
APPROVED

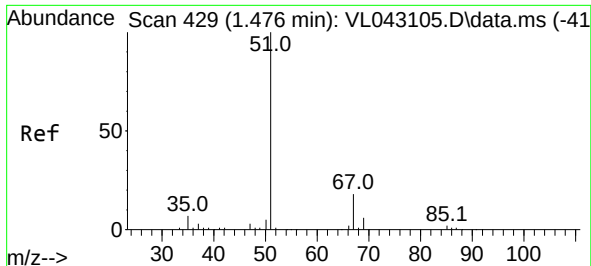
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.530 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

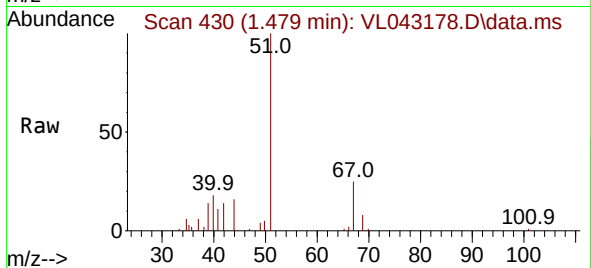
Tgt Ion: 85 Resp: 9907
Ion Ratio Lower Upper
85 100
87 32.3 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.103 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

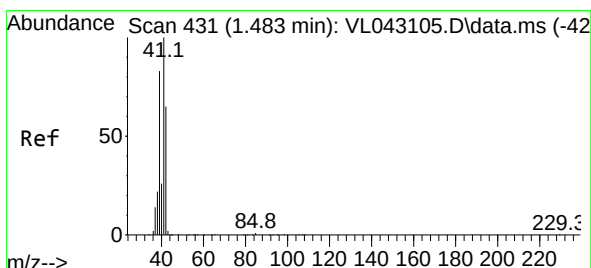
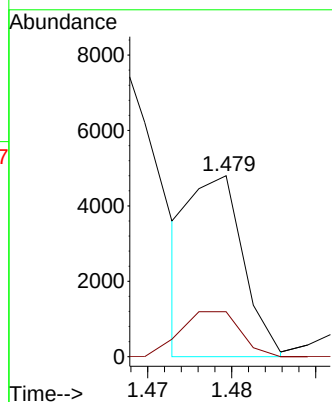
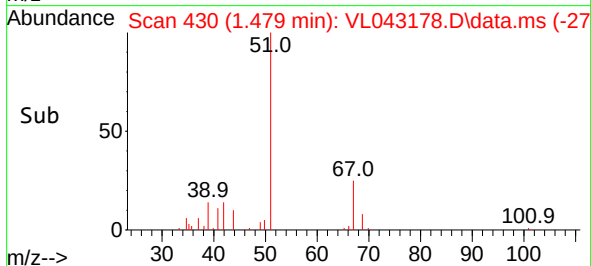
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2



Tgt Ion: 51 Resp: 2085
Ion Ratio Lower Upper
51 100
67 28.7 15.1 22.75

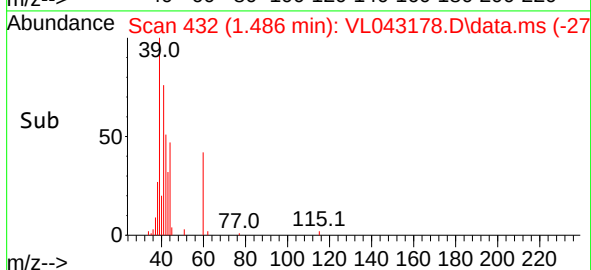
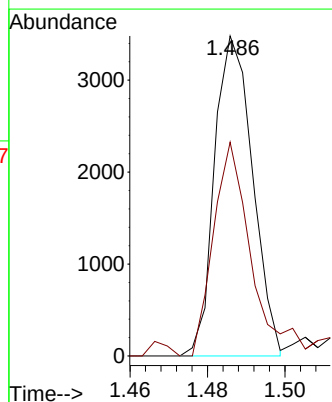
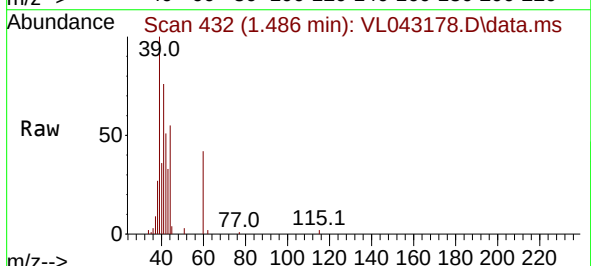
Manual Integrations
APPROVED

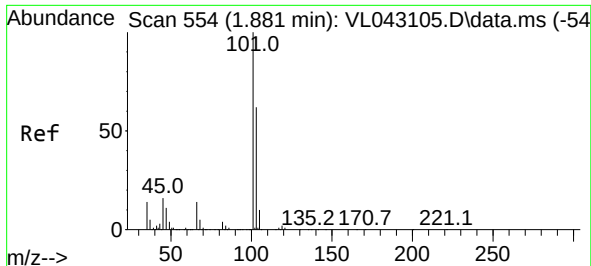
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#9
Propene
Concen: 0.265 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

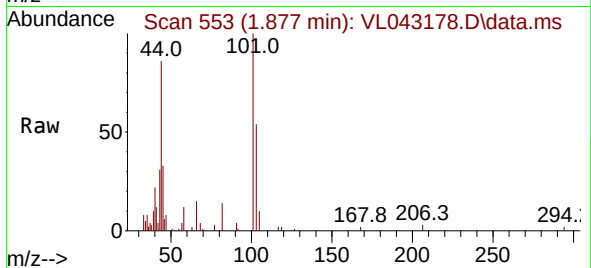
Tgt Ion: 41 Resp: 2376
Ion Ratio Lower Upper
41 100
42 0.0 55.1 82.75





#11
 Trichlorofluoromethane
 Concen: 0.154 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL043178.D
 Acq: 06 Nov 2025 21:08

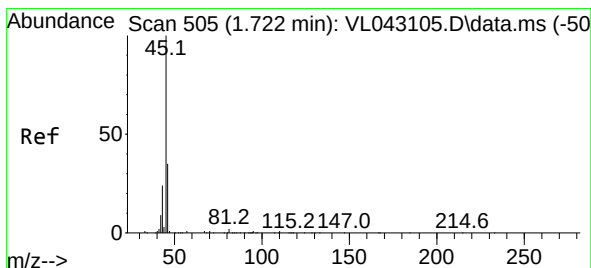
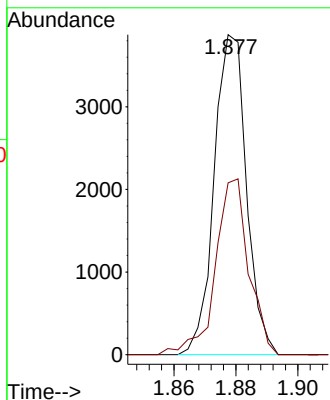
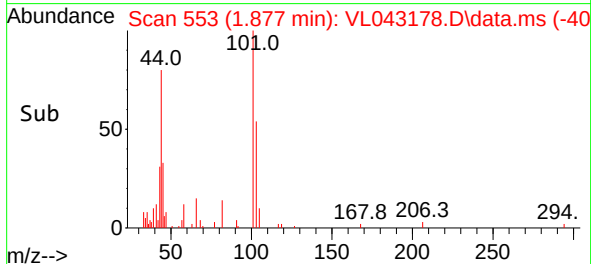
Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-2



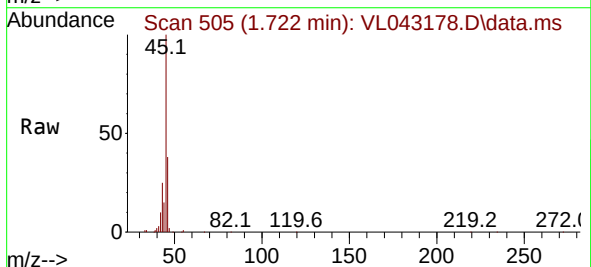
Tgt Ion: 101 Resp: 280
 Ion Ratio Lower Upper
 101 100
 103 53.7 49.3 73.9

Manual Integrations
 APPROVED

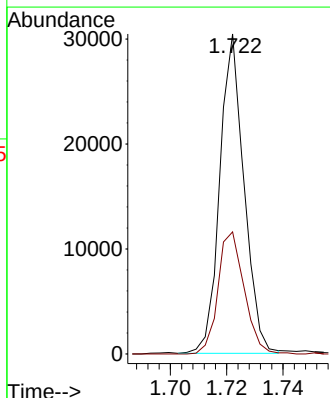
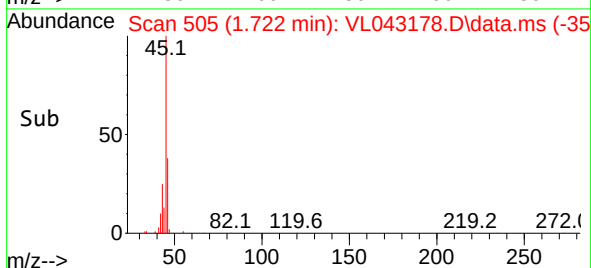
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

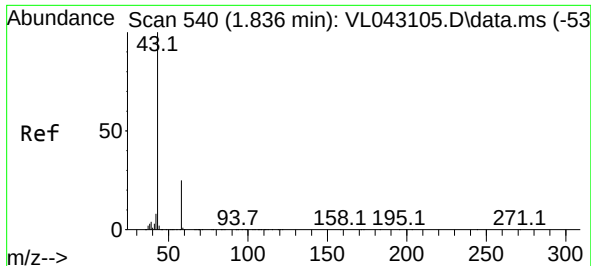


#13
 Ethanol
 Concen: 5.484 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL043178.D
 Acq: 06 Nov 2025 21:08



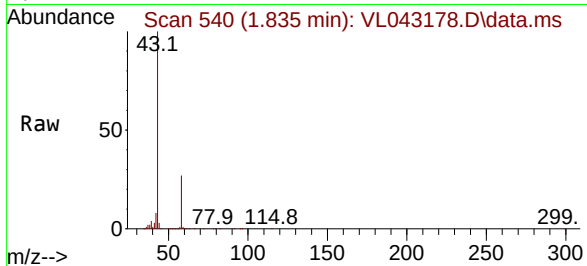
Tgt Ion: 45 Resp: 18184
 Ion Ratio Lower Upper
 45 100
 46 41.4 14.7 58.9





#15
Acetone
Concen: 33.623 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

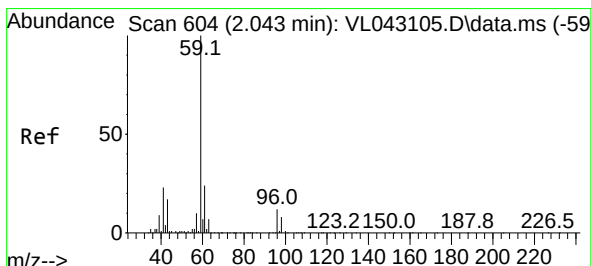
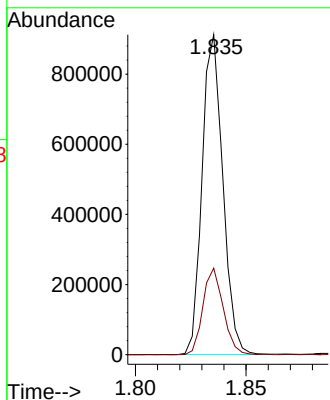
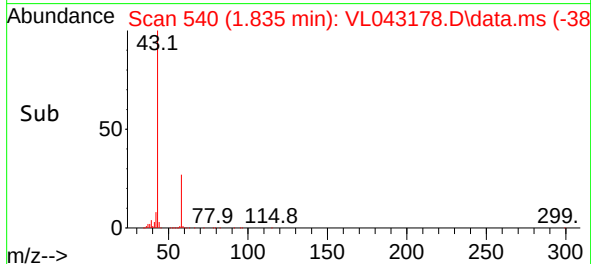
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2



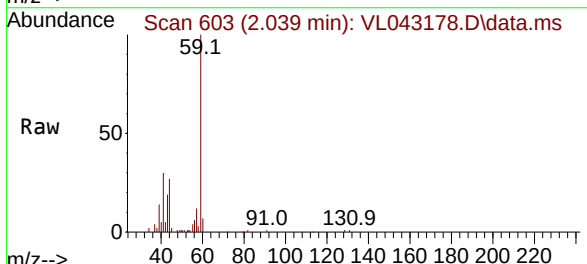
Tgt Ion: 43 Resp: 595518
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2

Manual Integrations
APPROVED

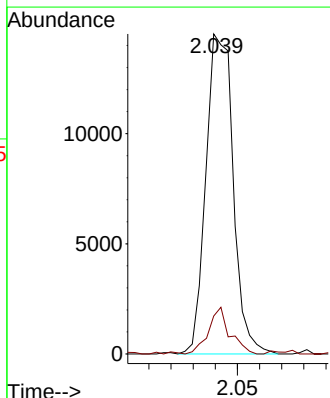
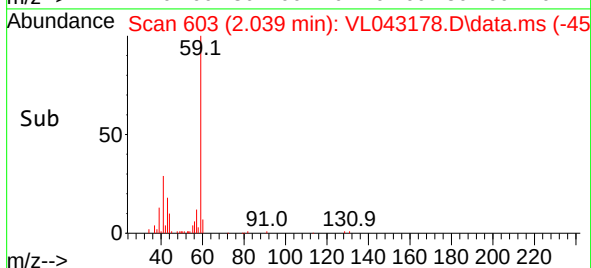
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

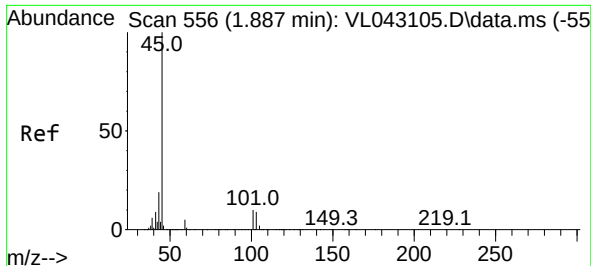


#17
tert-Butyl alcohol
Concen: 0.511 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08



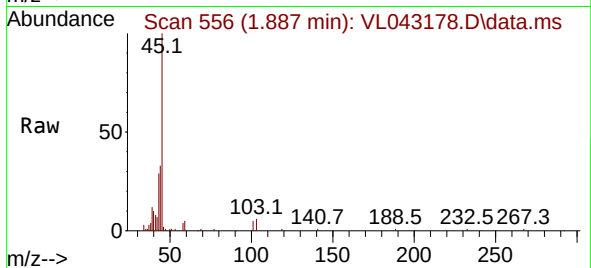
Tgt Ion: 59 Resp: 12433
Ion Ratio Lower Upper
59 100
57 12.6 8.2 12.4#





#19
Isopropyl Alcohol
Concen: 0.730 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

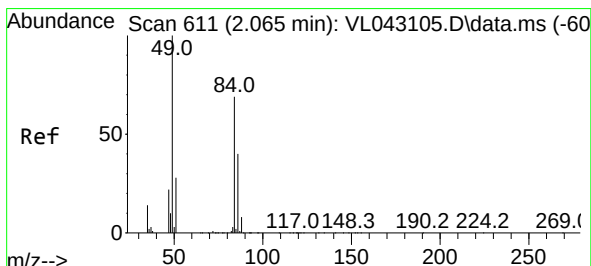
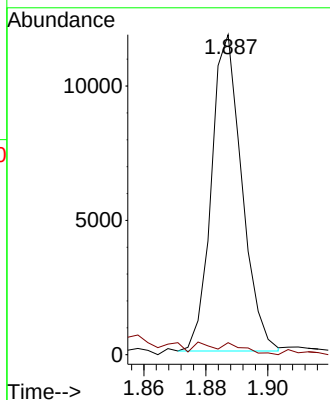
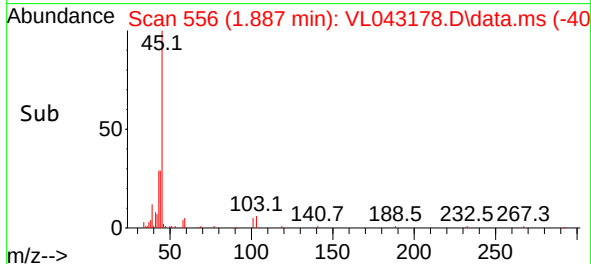
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2



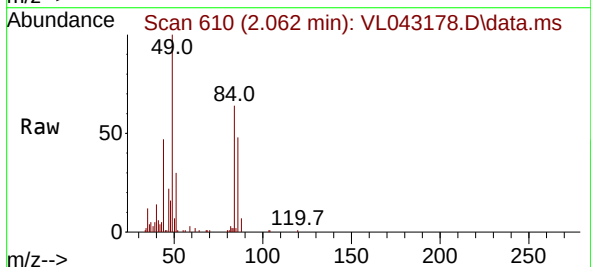
Tgt Ion: 45 Resp: 8050
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9

Manual Integrations
APPROVED

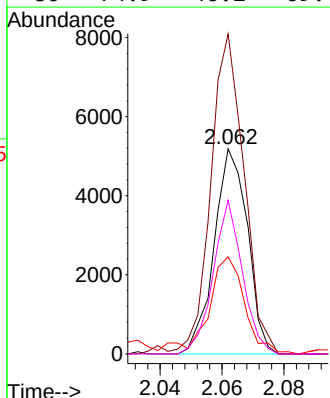
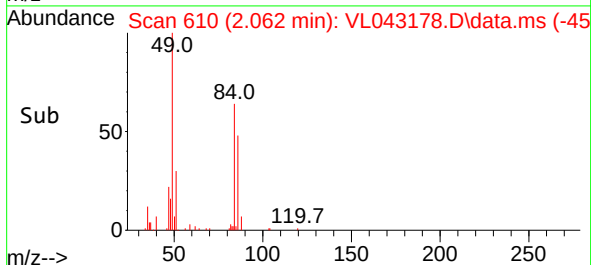
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

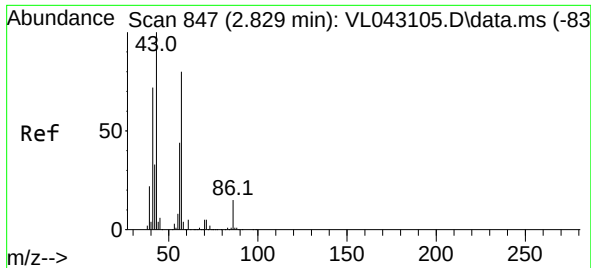


#20
Methylene Chloride
Concen: 0.554 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08



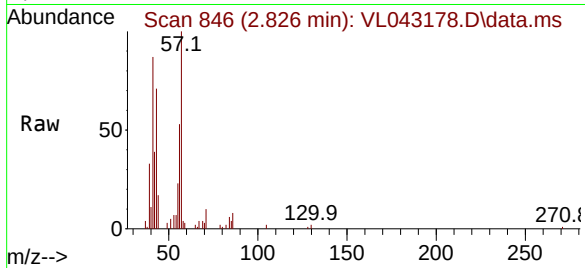
Tgt Ion: 84 Resp: 3877
Ion Ratio Lower Upper
84 100
49 156.0 116.6 175.0
51 46.3 34.8 52.2
86 74.9 46.2 69.4





#26
Hexane
Concen: 0.281 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

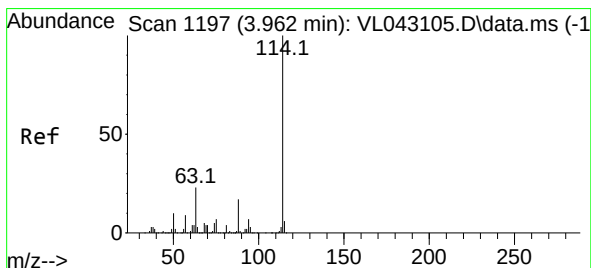
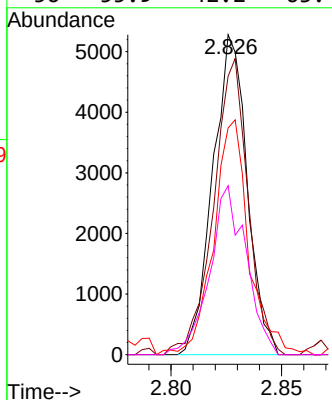
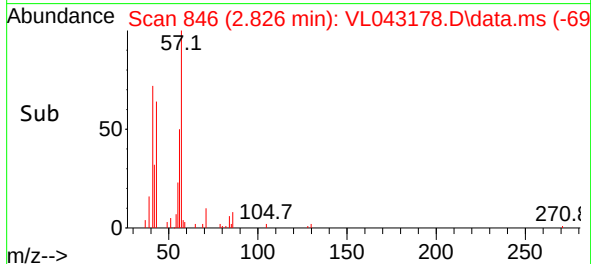
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2



Tgt Ion: 57 Resp: 5694
Ion Ratio Lower Upper
57 100
41 95.1 71.4 107.0
43 75.2 178.5 267.7
56 55.9 42.2 63.4

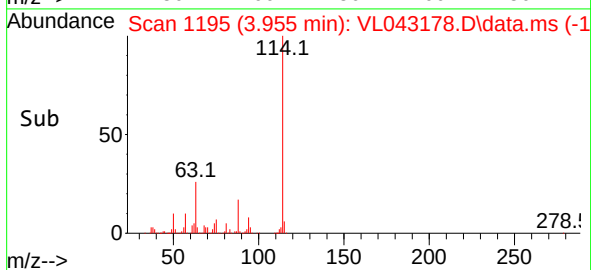
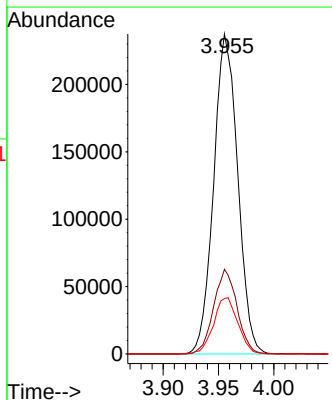
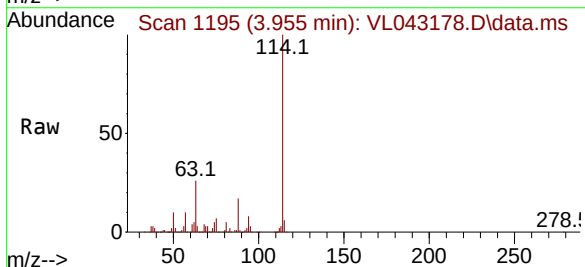
Manual Integrations
APPROVED

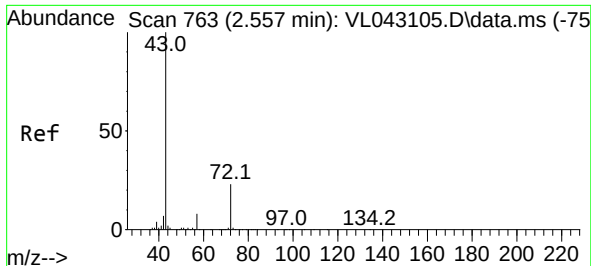
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

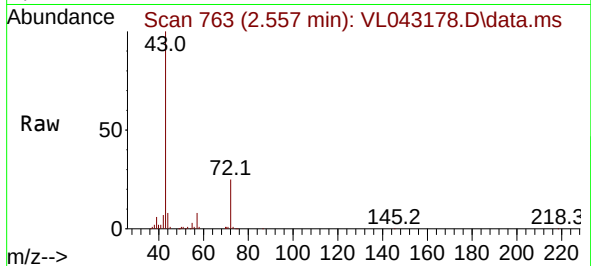
Tgt Ion:114 Resp: 358615
Ion Ratio Lower Upper
114 100
63 25.8 19.3 28.9
88 17.8 13.9 20.9





#34
2-Butanone
Concen: 1.362 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

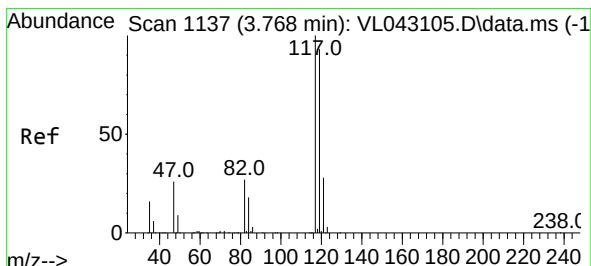
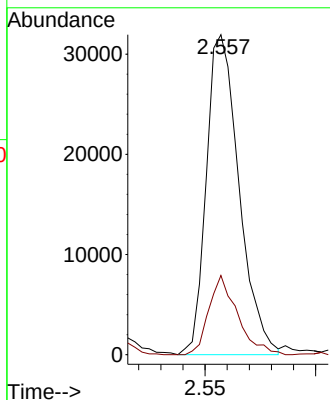
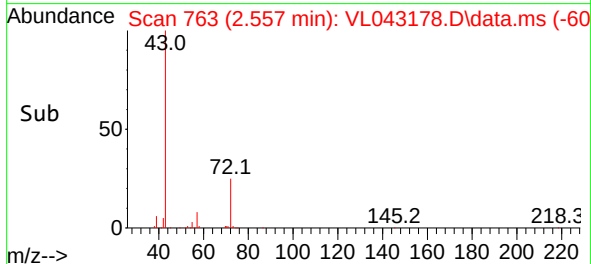
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2



Tgt Ion: 43 Resp: 3284
Ion Ratio Lower Upper
43 100
72 22.0 18.4 27.6

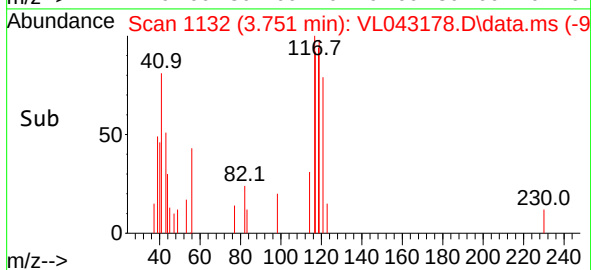
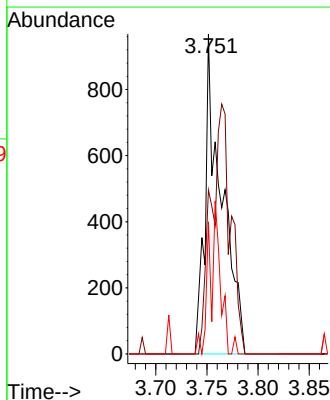
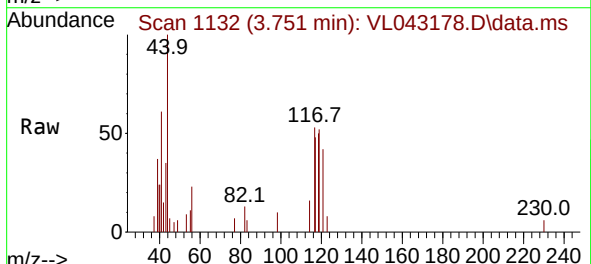
Manual Integrations
APPROVED

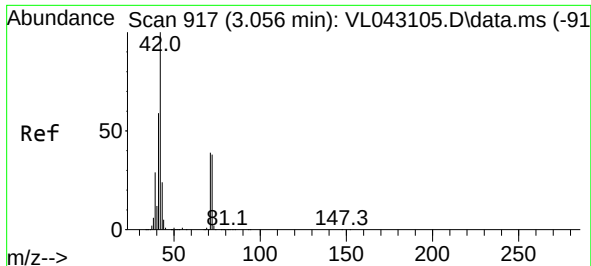
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.751 min Scan# 1132
Delta R.T. -0.016 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion:117 Resp: 1091
Ion Ratio Lower Upper
117 100
119 98.4 74.1 111.1
121 79.4 22.2 33.2#





#41

Tetrahydrofuran

Concen: 0.113 ppbv

RT: 3.065 min Scan# 917

Delta R.T. 0.009 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

Instrument :

MSVOA_1

ClientSampleId :

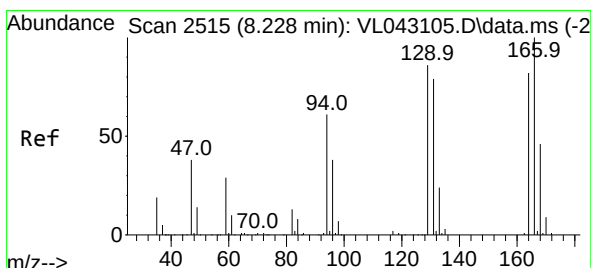
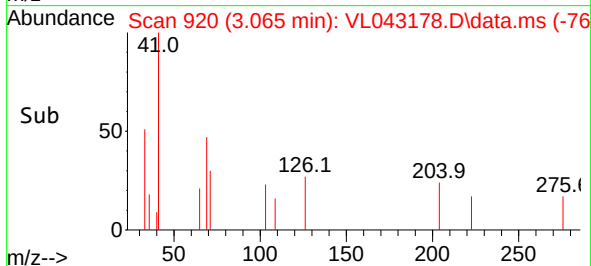
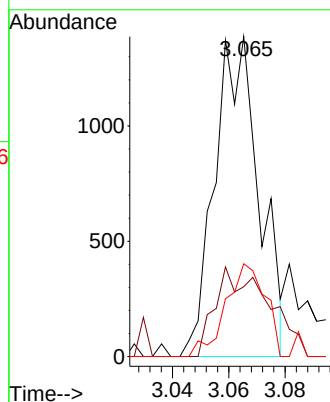
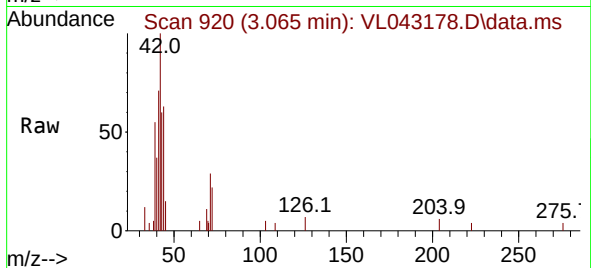
141-SG-2

Tgt Ion:	42	Resp:	151
Ion Ratio	Lower	Upper	
42	100		
72	33.4	31.3	46.9
71	27.2	30.4	45.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#52

Tetrachloroethene

Concen: 0.112 ppbv m

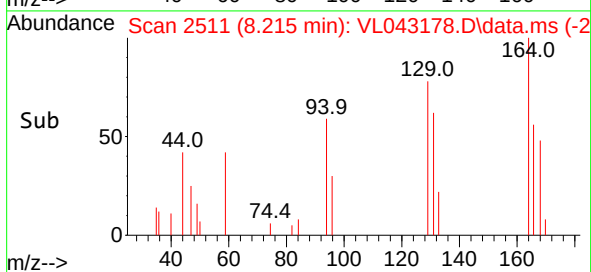
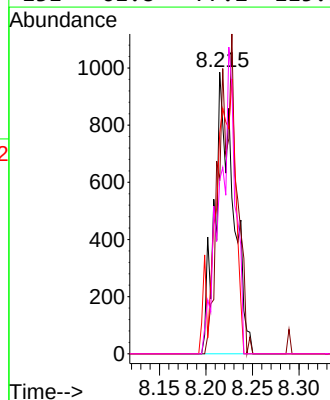
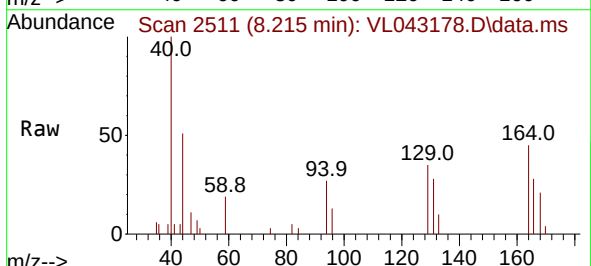
RT: 8.215 min Scan# 2511

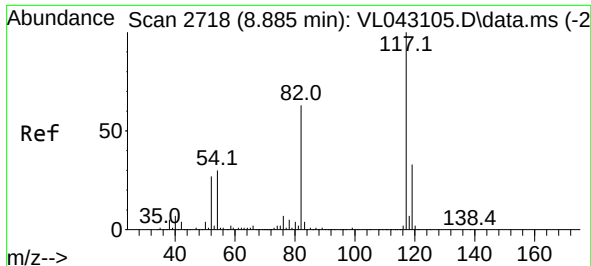
Delta R.T. -0.013 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

Tgt Ion:	164	Resp:	1364
Ion Ratio	Lower	Upper	
164	100		
166	61.5	97.6	146.4#
129	78.5	84.5	126.7#
131	61.8	77.2	115.8#





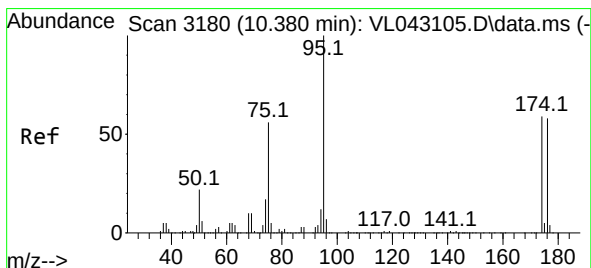
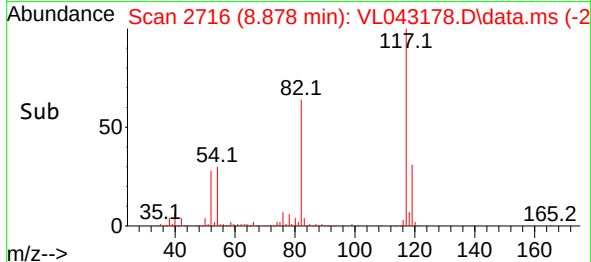
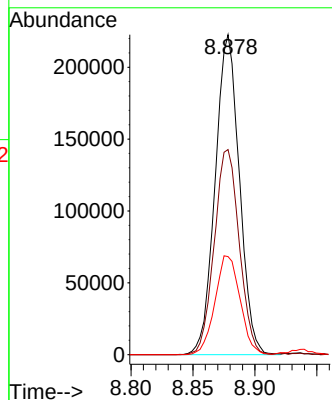
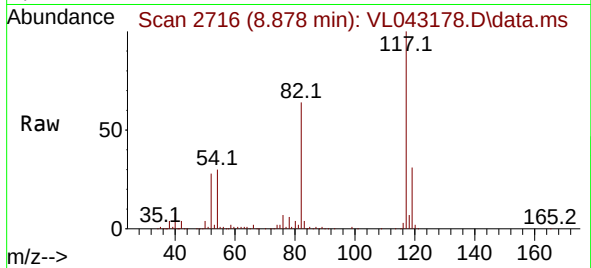
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

Tgt Ion:117 Resp: 303524
Ion Ratio Lower Upper
117 100
82 66.5 53.8 80.8
119 32.1 25.4 38.0

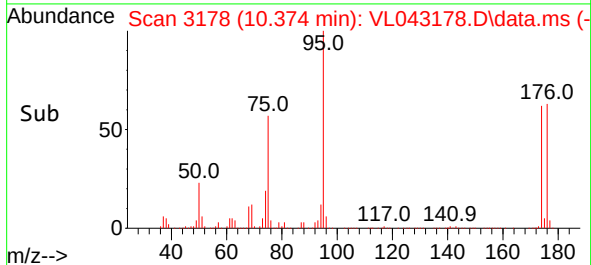
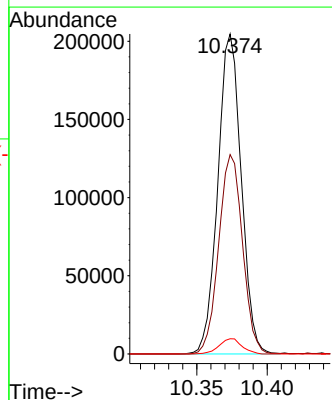
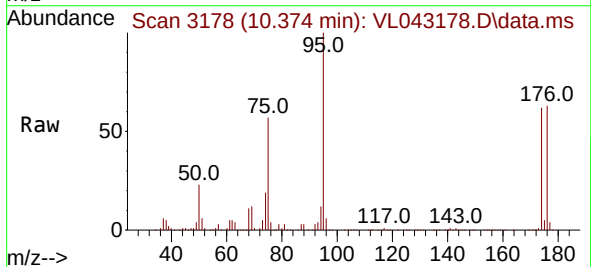
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.037 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 95 Resp: 236795
Ion Ratio Lower Upper
95 100
174 63.5 48.3 72.5
175 4.6 3.8 5.8



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-SG-2DL
Lab Sample ID: Q3557-05DL
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.20	5.93	JD	10	5.44	24.7	11/06/25 17:03	VL110625
74-87-3	Chloromethane	0.98	2.02	UD	10	2.02	10.3	11/06/25 17:03	VL110625
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	11/06/25 17:03	VL110625
74-83-9	Bromomethane	0.77	2.99	UD	10	2.99	19.4	11/06/25 17:03	VL110625
75-00-3	Chloroethane	1.50	3.96	UD	10	3.96	13.2	11/06/25 17:03	VL110625
109-99-9	Tetrahydrofuran	0.80	2.36	UD	10	2.36	14.8	11/06/25 17:03	VL110625
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	10	9.55	28.1	11/06/25 17:03	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10	10.7	38.3	11/06/25 17:03	VL110625
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10	10.5	35.0	11/06/25 17:03	VL110625
75-65-0	tert-Butyl alcohol	1.60	4.85	UD	10	4.85	15.2	11/06/25 17:03	VL110625
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	11/06/25 17:03	VL110625
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	10	5.95	19.8	11/06/25 17:03	VL110625
67-64-1	Acetone	76.7	182	D	10	4.28	11.9	11/06/25 17:03	VL110625
75-15-0	Carbon Disulfide	0.80	2.49	UD	10	2.49	15.6	11/06/25 17:03	VL110625
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	10	8.29	18.0	11/06/25 17:03	VL110625
75-09-2	Methylene Chloride	3.10	10.8	JD	10	7.99	17.4	11/06/25 17:03	VL110625
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	10	4.76	19.8	11/06/25 17:03	VL110625
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	11/06/25 17:03	VL110625
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	11/06/25 17:03	VL110625
78-93-3	2-Butanone	2.80	8.26	JD	10	1.65	14.8	11/06/25 17:03	VL110625
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	10	1.57	1.89	11/06/25 17:03	VL110625
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	11/06/25 17:03	VL110625
67-66-3	Chloroform	0.96	4.69	UD	10	4.69	24.4	11/06/25 17:03	VL110625
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	11/06/25 17:03	VL110625
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	11/06/25 17:03	VL110625
71-43-2	Benzene	0.79	2.52	UD	10	2.52	16.0	11/06/25 17:03	VL110625
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	10	3.76	20.2	11/06/25 17:03	VL110625
79-01-6	Trichloroethene	0.24	1.29	UD	10	1.29	1.61	11/06/25 17:03	VL110625
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	10	6.01	23.1	11/06/25 17:03	VL110625
75-27-4	Bromodichloromethane	0.63	4.22	UD	10	4.22	33.5	11/06/25 17:03	VL110625
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	10	3.98	20.5	11/06/25 17:03	VL110625
108-88-3	Toluene	1.60	6.03	UD	10	6.03	18.8	11/06/25 17:03	VL110625
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	10	6.81	22.7	11/06/25 17:03	VL110625
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	10	4.99	22.7	11/06/25 17:03	VL110625
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	10	4.42	27.3	11/06/25 17:03	VL110625
124-48-1	Dibromochloromethane	0.85	7.24	UD	10	7.24	42.6	11/06/25 17:03	VL110625
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	10	6.53	7.69	11/06/25 17:03	VL110625
127-18-4	Tetrachloroethene	0.15	1.02	UD	10	1.02	2.03	11/06/25 17:03	VL110625
108-90-7	Chlorobenzene	0.77	3.55	UD	10	3.55	23.0	11/06/25 17:03	VL110625
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	11/06/25 17:03	VL110625
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	11/06/25 17:03	VL110625
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	11/06/25 17:03	VL110625
100-42-5	Styrene	1.60	6.81	UD	10	6.81	21.3	11/06/25 17:03	VL110625
75-25-2	Bromoform	0.48	4.96	UD	10	4.96	51.7	11/06/25 17:03	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	10	1.24	2.06	11/06/25 17:03	VL110625
95-49-8	2-Chlorotoluene	1.70	8.80	UD	10	8.80	25.9	11/06/25 17:03	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 141-SG-2DL
Lab Sample ID: Q3557-05DL
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/06/25 17:03	VL110625
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/06/25 17:03	VL110625
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	10	3.25	30.1	11/06/25 17:03	VL110625
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/06/25 17:03	VL110625
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/06/25 17:03	VL110625
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	10	15.6	37.1	11/06/25 17:03	VL110625
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	10	13.9	53.3	11/06/25 17:03	VL110625
106-99-0	1,3-Butadiene	0.51	1.13	UD	10	1.13	11.1	11/06/25 17:03	VL110625
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	11/06/25 17:03	VL110625
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10	10.3	24.6	11/06/25 17:03	VL110625
110-54-3	Hexane	1.60	5.64	UD	10	5.64	17.6	11/06/25 17:03	VL110625
107-05-1	Allyl Chloride	1.10	3.44	UD	10	3.44	15.7	11/06/25 17:03	VL110625
123-91-1	1,4-Dioxane	2.20	7.93	UD	10	7.93	18.0	11/06/25 17:03	VL110625
80-62-6	Methyl Methacrylate	1.40	5.73	UD	10	5.73	20.5	11/06/25 17:03	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.1 70 (65) - 130 101% SPK: 10

INTERNAL STANDARDS

	Area Count
74-97-5 Bromochloromethane	112000
540-36-3 1,4-Difluorobenzene	310000
3114-55-4 Chlorobenzene-d5	260000

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\VL110625\
 Data File : VL043171.D
 Acq On : 06 Nov 2025 17:03
 Operator : SY/MD
 Sample : Q3557-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-2DL

Quant Time: Nov 07 00:24:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

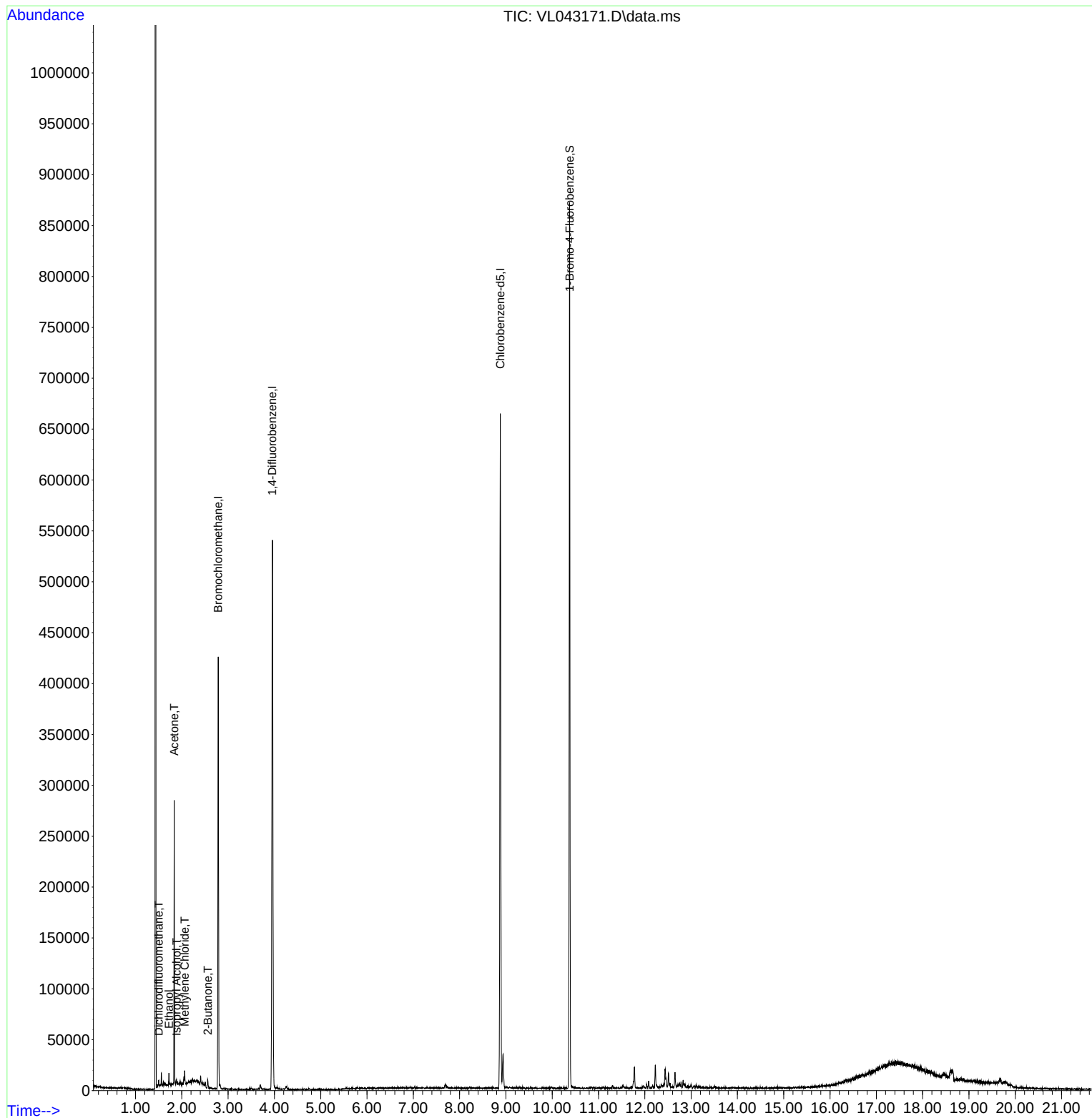
Internal Standards						
1) Bromochloromethane	2.787	49	111726	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	310352	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	260144	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	204363	10.107	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1859	0.117	ppbv	97
13) Ethanol	1.722	45	3586	1.272	ppbv	96
15) Acetone	1.835	43	115569	7.674	ppbv	99
19) Isopropyl Alcohol	1.887	45	1703	0.182	ppbv #	1
20) Methylene Chloride	2.062	84	1868	0.314	ppbv #	83
34) 2-Butanone	2.560	43	5741	0.275	ppbv	94

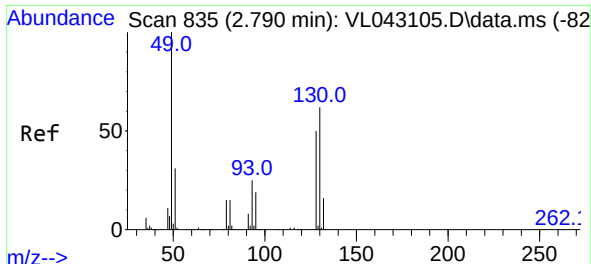
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043171.D
Acq On : 06 Nov 2025 17:03
Operator : SY/MD
Sample : Q3557-05DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

Quant Time: Nov 07 00:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

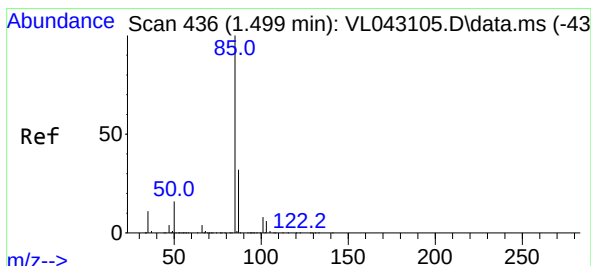
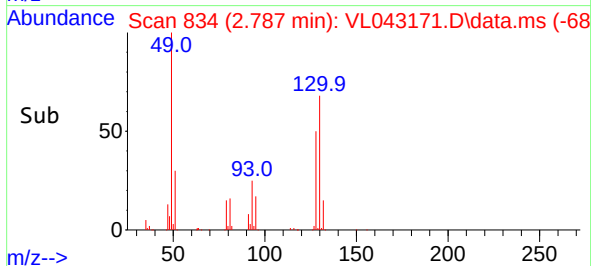
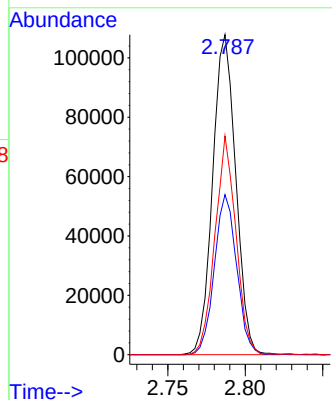
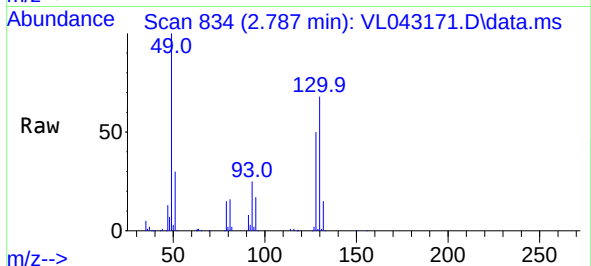




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

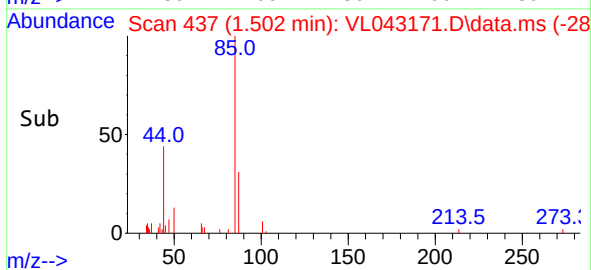
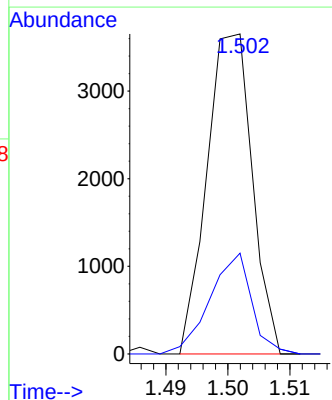
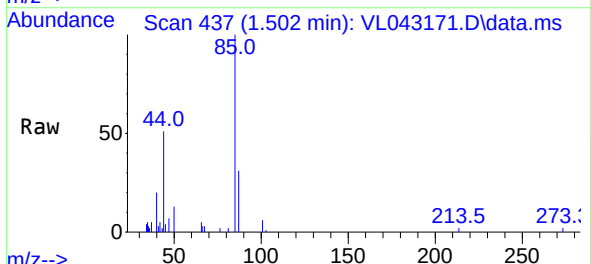
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

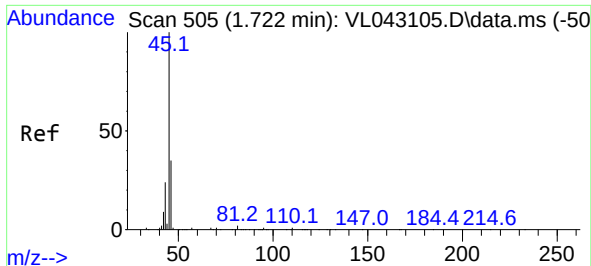
Tgt Ion: 49 Resp: 111726
Ion Ratio Lower Upper
49 100
128 48.4 24.4 73.4
130 62.3 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.117 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 85 Resp: 1859
Ion Ratio Lower Upper
85 100
87 30.0 25.3 37.9

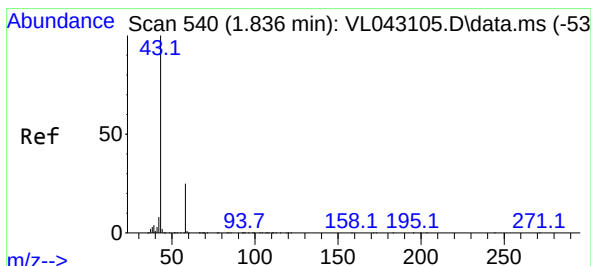
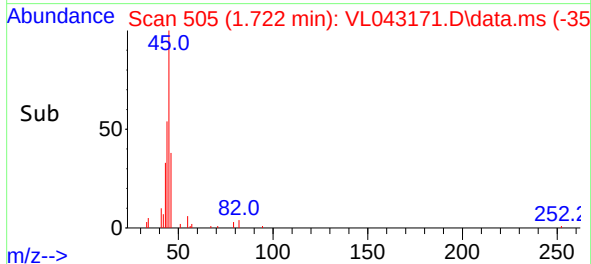
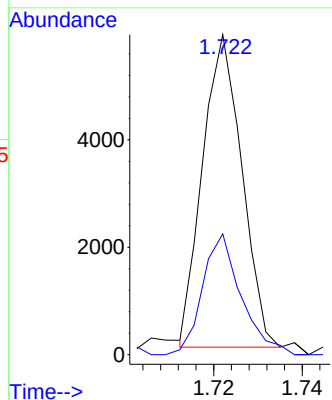
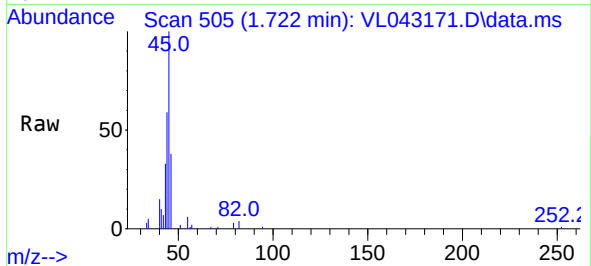




#13
Ethanol
Concen: 1.272 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

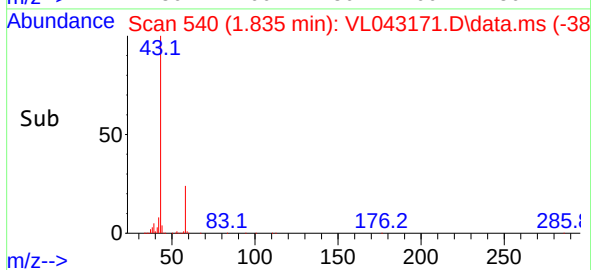
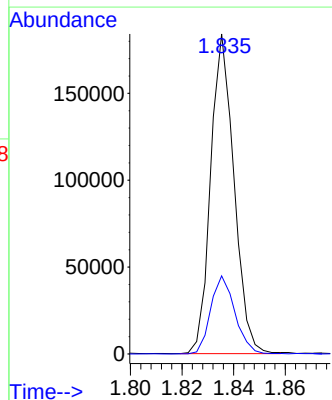
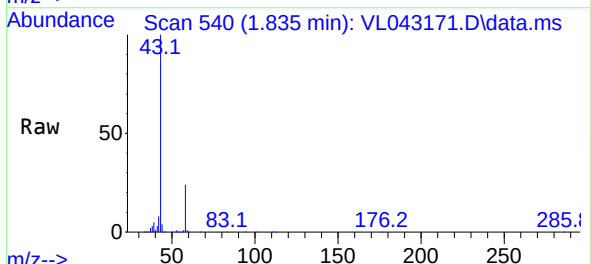
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2DL

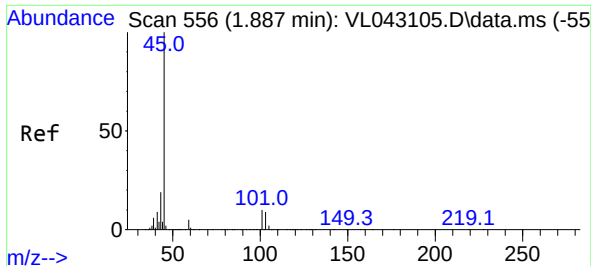
Tgt Ion: 45 Resp: 3586
Ion Ratio Lower Upper
45 100
46 39.4 14.7 58.9



#15
Acetone
Concen: 7.674 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 43 Resp: 115569
Ion Ratio Lower Upper
43 100
58 25.6 20.8 31.2

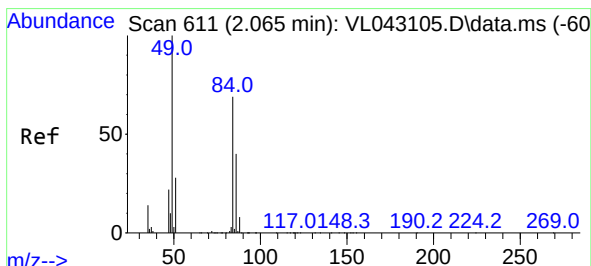
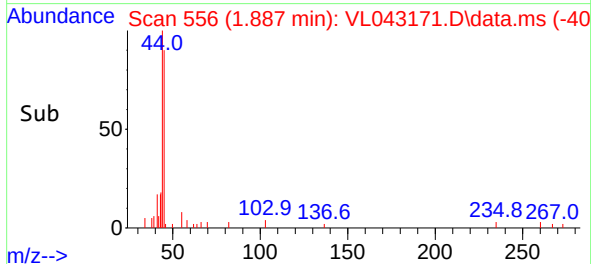
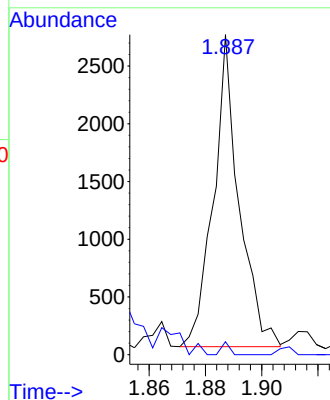
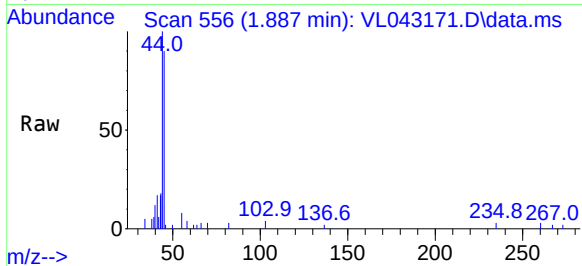




#19
Isopropyl Alcohol
Concen: 0.182 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

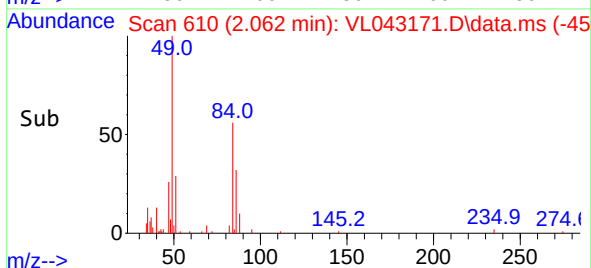
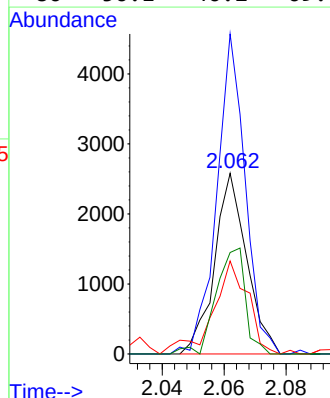
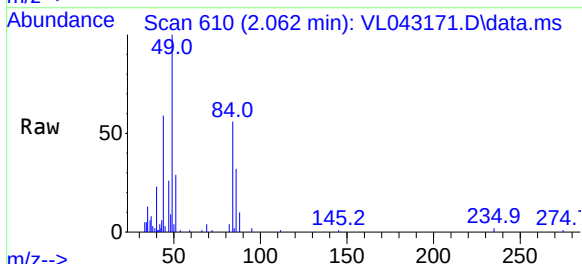
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

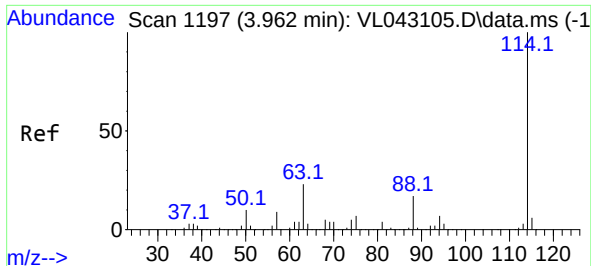
Tgt Ion: 45 Resp: 1703
Ion Ratio Lower Upper
45 100
58 1732.9 31.3 46.9#



#20
Methylene Chloride
Concen: 0.314 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 84 Resp: 1868
Ion Ratio Lower Upper
84 100
49 177.1 116.6 175.0#
51 51.4 34.8 52.2
86 56.1 46.2 69.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043171.D

Acq: 06 Nov 2025 17:03

Instrument :

MSVOA_L

ClientSampleId :

141-SG-2DL

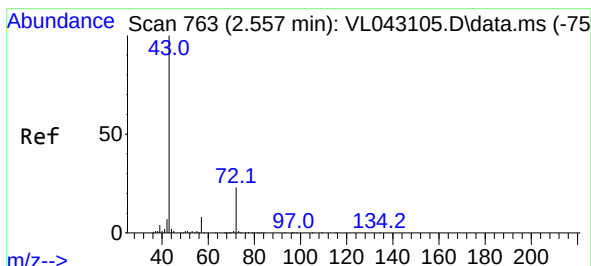
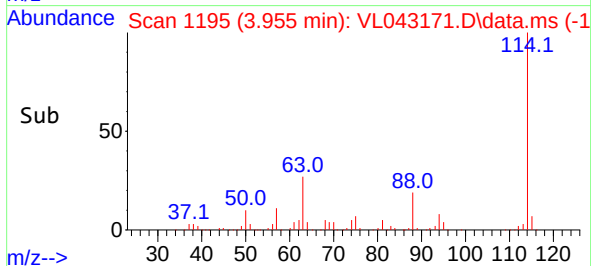
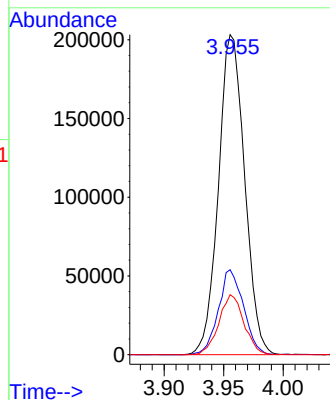
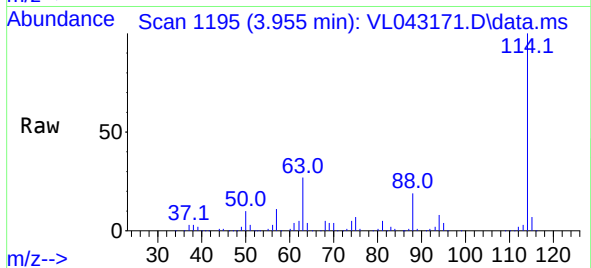
Tgt Ion:114 Resp: 310352

Ion Ratio Lower Upper

114 100

63 25.6 19.3 28.9

88 17.9 13.9 20.9



#34

2-Butanone

Concen: 0.275 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043171.D

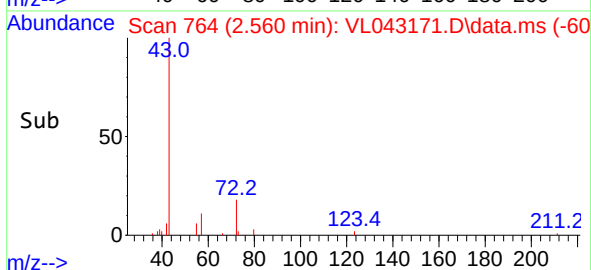
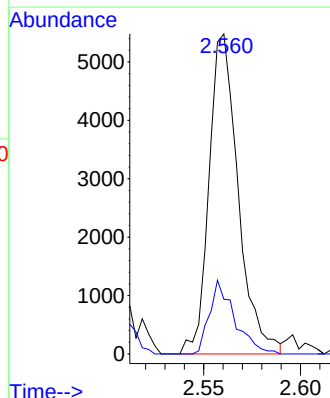
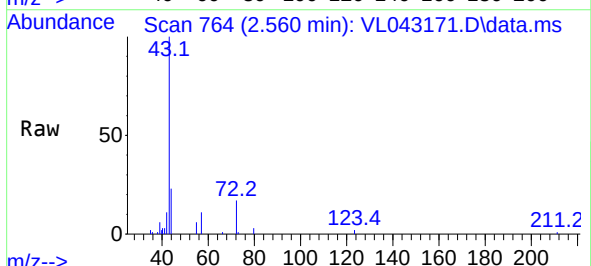
Acq: 06 Nov 2025 17:03

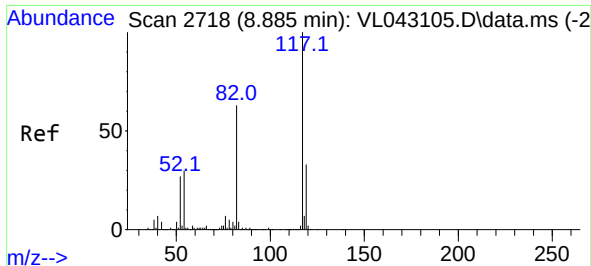
Tgt Ion: 43 Resp: 5741

Ion Ratio Lower Upper

43 100

72 19.9 18.4 27.6

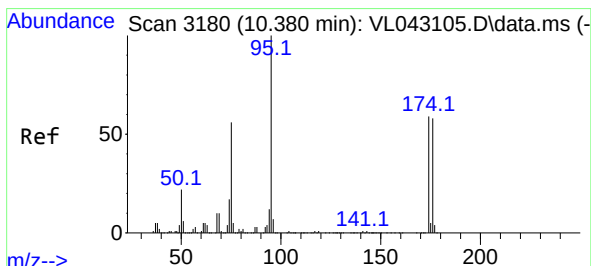
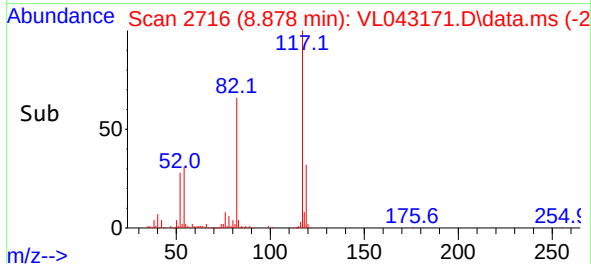
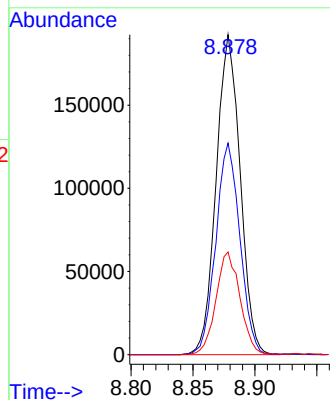
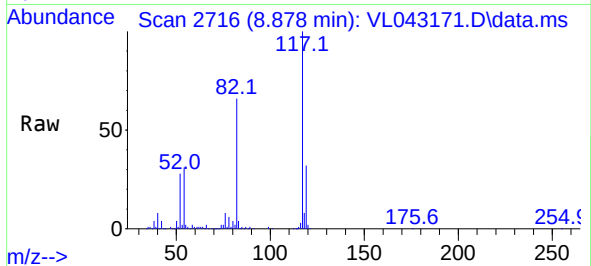




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

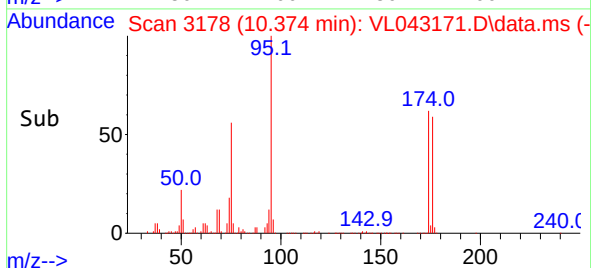
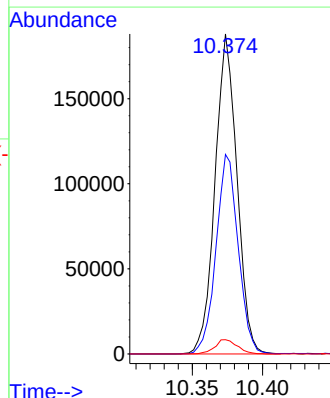
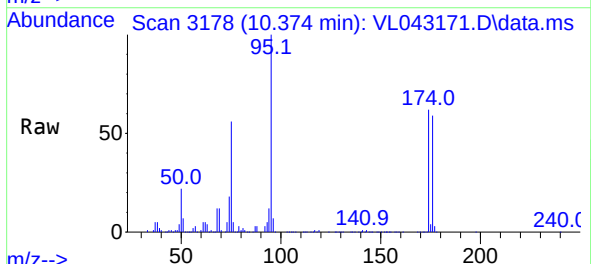
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

Tgt Ion:117 Resp: 260144
Ion Ratio Lower Upper
117 100
82 66.4 53.8 80.8
119 32.2 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.107 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 95 Resp: 204363
Ion Ratio Lower Upper
95 100
174 63.1 48.3 72.5
175 4.6 3.8 5.8





CALIBRATION SUMMARY

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

Method File : VL101425AIR.M

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

Last Update : Wed Oct 15 02:12:58 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL043110.D 0.1 =VL043109.D 0.5 =VL043108.D 1 =VL043107.D 2 =VL043106.D 10 =VL043105.D 15 =VL043111.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.545	1.527	1.481	1.278	1.278	1.422	9.38
3) Chlorodifluoro...			1.672	1.632	1.577	1.451	1.359	1.538	8.46
4) Chloromethane			0.640	0.621	0.579	0.500	0.477	0.563	12.89
5) T Vinyl Chloride	0.723	0.554	0.562	0.557	0.528	0.481	0.462	0.552	15.33
6) T Bromomethane			0.336	0.338	0.317	0.260	0.263	0.303	12.78
7) Chloroethane			0.261	0.256	0.238	0.192	0.183	0.226	16.03
8) T Dichlorotetra...			1.175	1.265	1.230	1.040	1.036	1.149	9.26
9) T Propene			0.738	0.713	0.721	0.655	0.585	0.682	9.20
10) T Heptane			2.184	2.151	2.032	1.803	1.650	1.964	11.73
11) T Trichlorofluor...			1.510	1.459	1.477	1.242	1.265	1.391	9.11
12) T 1,1,2-Trichlor...			1.215	1.220	1.191	0.976	0.996	1.120	10.97
13) Ethanol			0.289	0.307	0.302	0.193	0.171	0.252	25.86
14) T Bromoethene			0.481	0.434	0.431	0.371	0.362	0.416	11.84
15) T Acetone			1.561	1.522	1.508	1.091	1.058	1.348	18.60
16) T 1,3-Butadiene			0.780	0.700	0.649	0.552	0.531	0.642	16.07
17) tert-Butyl alc...			2.010	2.047	1.934	1.689	1.571	1.850	11.31
18) T 1,1-Dichloroet...			0.519	0.539	0.512	0.437	0.434	0.488	10.07
19) T Isopropyl Alcohol			0.971	0.958	0.870	0.725	0.674	0.839	16.03
20) T Methylene Chlo...			0.738	0.612	0.508	0.406	0.400	0.533	26.98
21) T Allyl Chloride			1.097	1.049	1.040	0.910	0.869	0.993	9.86
22) T trans-1,2-Dich...			0.609	0.696	0.594	0.511	0.508	0.583	13.38
23) T Vinyl Acetate			2.148	1.904	2.292	1.623	1.905	1.974	13.03
24) T 1,1-Dichloroet...			1.169	1.237	1.190	1.031	1.009	1.127	8.99
25) T Ethyl Acetate			3.526	3.626	3.558	3.132	2.871	3.342	9.77
26) T Hexane			1.753	1.677	1.548	1.406	1.318	1.540	11.77
27) T Carbon Disulfide			1.423	1.540	1.505	1.315	1.272	1.411	8.26
28) T Methyl tert-Bu...			0.742	0.767	0.769	0.587	0.638	0.701	11.86
29) T Chloroform			2.437	2.397	2.296	2.030	1.997	2.232	9.22
30) T Cyclohexane			1.493	1.448	1.390	1.214	1.176	1.344	10.53
31) T cis-1,2-Dichlo...			1.491	1.594	1.516	1.405	1.348	1.471	6.55
32) T 1,1,1-Trichlor...	2.165	2.605	2.407	2.439	2.424	2.136	2.092	2.324	8.31

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.708	0.707	0.606	0.587	0.672	10.68
35) T Carbon Tetrach...	0.752	0.761	0.710	0.743	0.745	0.649	0.674	0.719	5.96
36) T Benzene			0.974	0.980	1.023	0.871	0.862	0.942	7.60
37) T 1,2-Dichloroet...			0.589	0.571	0.565	0.485	0.502	0.543	8.49
38) T Trichloroethene	0.460	0.421	0.401	0.402	0.398	0.342	0.330	0.393	11.38
39) T 1,2-Dichloropr...			0.359	0.370	0.371	0.317	0.305	0.344	8.99

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL101425AIR.M										
40) T	1,4-Dioxane			0.166	0.166	0.162	0.141	0.135	0.154	9.56
41) T	Tetrahydrofuran			0.427	0.394	0.384	0.343	0.332	0.376	10.32
42) T	Bromodichlorom...			0.779	0.775	0.791	0.697	0.713	0.751	5.68
43) T	Methyl Methacr...			0.500	0.511	0.493	0.450	0.437	0.478	6.85
44) T	2,2,4-Trimethy...			1.695	1.706	1.683	1.460	1.401	1.589	9.22
45) T	t-1,3-Dichloro...			0.478	0.502	0.506	0.462	0.453	0.480	4.94
46) T	cis-1,3-Dichlo...			0.593	0.590	0.603	0.546	0.535	0.573	5.34
47) T	1,1,2-Trichlor...			0.416	0.383	0.384	0.338	0.338	0.372	9.07
48) T	Dibromochlorom...			0.619	0.650	0.667	0.589	0.582	0.622	5.96
49) T	Bromoform			0.503	0.515	0.544	0.487	0.478	0.505	5.14
50) T	4-Methyl-2-Pen...			0.969	0.989	0.974	0.873	0.833	0.928	7.55
51) T	2-Hexanone			0.683	0.708	0.738	0.692	0.658	0.696	4.31
52) T	Tetrachloroethene	0.354	0.345	0.349	0.366	0.353	0.312	0.298	0.340	7.27
53) T	Toluene			1.212	1.162	1.176	1.036	1.003	1.118	8.28
54) T	1,2-Dibromoethane		0.662	0.570	0.586	0.617	0.533	0.526	0.582	8.84
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.662	0.664	0.665	0.590	0.570	0.630	7.32
57) T	Chlorobenzene			1.010	1.009	1.000	0.849	0.810	0.936	10.47
58) T	Ethyl Benzene			1.801	1.815	1.824	1.599	1.543	1.716	7.84
59) T	m/p-Xylene			1.463	1.457	1.476	1.238	1.210	1.369	9.71
60) T	o-Xylene			1.433	1.471	1.454	1.224	1.177	1.352	10.34
61) T	Styrene			0.597	0.649	0.664	0.578	0.564	0.610	7.17
62) T	Isopropylbenzene			2.564	2.671	2.616	2.241	2.123	2.443	10.02
63) T	1,1,2,2-Tetrac...	1.029	1.019	0.900	0.924	0.933	0.777	0.755	0.905	11.78
64) T	n-propylbenzene			0.688	0.710	0.696	0.589	0.551	0.647	11.10
65) T	tert-Butylbenzene			2.342	2.383	2.364	1.901	1.796	2.157	13.20
66) T	Benzyl Chloride			0.229	0.259	0.250	0.241	0.221	0.240	6.35
67) T	sec-Butylbenzene			3.313	3.378	3.357	2.697	2.565	3.062	12.96
68) S	1-Bromo-4-Fluo...	0.765	0.780	0.768	0.770	0.779	0.781	0.798	0.777	1.44
69) T	p-Isopropyltol...			2.726	2.896	2.871	2.330	2.186	2.602	12.47
70) T	n-Butylbenzene			2.611	2.820	2.849	2.321	2.218	2.564	11.16
71) T	2-Chlorotoluene			1.959	1.997	2.018	1.698	1.645	1.863	9.53
72) T	4-Ethyltoluene			1.741	1.761	1.805	1.530	1.475	1.662	8.97
73) T	1,3,5-Trimethy...			1.434	1.466	1.477	1.261	1.217	1.371	8.95
74) T	1,2,4-Trimethy...			1.691	1.706	1.664	1.331	1.278	1.534	13.75
75) T	1,3-Dichlorobe...			0.903	0.956	1.000	0.818	0.773	0.890	10.57
76) T	1,4-Dichlorobe...			0.957	0.957	0.971	0.823	0.779	0.897	9.96
77) T	1,2-Dichlorobe...			0.944	0.954	0.914	0.766	0.727	0.861	12.40
78) T	Hexachloro-1,3...			0.751	0.764	0.746	0.555	0.516	0.667	18.08
79) T	Naphthalene		1.265	1.532	1.766	1.971	1.580	1.507	1.604	15.04
80) T	Naphthalene,2-...			0.255	0.355	0.515	0.478	0.485	0.418	26.20
81) T	1,2,4-Trichlor...			0.553	0.726	0.803	0.638	0.608	0.666	14.90

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341790	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	309230	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 241468 10.046 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	132845	8.987	ppbv	100
3) Chlorodifluoromethane	1.476	51	150832	9.431	ppbv	100
4) Chloromethane	1.535	50	51934	8.869	ppbv	100
5) Vinyl Chloride	1.583	62	50044	8.713	ppbv	100
6) Bromomethane	1.671	94	27062	8.593	ppbv	100
7) Chloroethane	1.706	64	19941	8.492	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	108109	9.049	ppbv	100
9) Propene	1.483	41	68116	9.602	ppbv	100
10) Heptane	4.985	43	187423	9.217	ppbv	100
11) Trichlorofluoromethane	1.881	101	129180	8.935	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	101442	8.715	ppbv	100
13) Ethanol	1.722	45	20045	7.640	ppbv	100
14) Bromoethene	1.784	108	38553	8.916	ppbv	100
15) Acetone	1.836	43	113399	8.047	ppbv	100
16) 1,3-Butadiene	1.612	39	57406	8.596	ppbv	100
17) tert-Butyl alcohol	2.043	59	175630	9.130	ppbv	100
18) 1,1-Dichloroethene	2.036	96	45413	8.949	ppbv	100
19) Isopropyl Alcohol	1.887	45	75355	8.634	ppbv	97
20) Methylene Chloride	2.065	84	42212	7.620	ppbv	100
21) Allyl Chloride	2.098	41	94625	9.145	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	53146	8.761	ppbv	100
23) Vinyl Acetate	2.467	43	168706	8.218	ppbv	100
24) 1,1-Dichloroethane	2.412	63	107153	9.143	ppbv	100
25) Ethyl Acetate	2.839	43	325662	9.371	ppbv	100
26) Hexane	2.829	57	146168	9.128	ppbv	99
27) Carbon Disulfide	2.153	76	136729	9.319	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	61076	8.384	ppbv	98
29) Chloroform	2.852	83	211071	9.097	ppbv	100
30) Cyclohexane	3.862	84	126226	9.037	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	146072	9.553	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	222043	9.189	ppbv	100
34) 2-Butanone	2.557	43	207274	8.971	ppbv	100
35) Carbon Tetrachloride	3.768	117	221937	9.032	ppbv	100
36) Benzene	3.661	78	297653	9.246	ppbv	100
37) 1,2-Dichloroethane	3.221	62	165898	8.946	ppbv	100
38) Trichloroethene	4.554	130	116947	8.708	ppbv	100
39) 1,2-Dichloropropane	4.315	63	108446	9.207	ppbv	100
40) 1,4-Dioxane	4.583	88	48201	9.153	ppbv #	97
41) Tetrahydrofuran	3.056	42	117069	9.076	ppbv	100
42) Bromodichloromethane	4.496	83	238353	9.286	ppbv	100
43) Methyl Methacrylate	4.881	69	153927	9.371	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	499148	9.273	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	157856	9.620	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

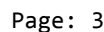
Response via : Initial Calibration

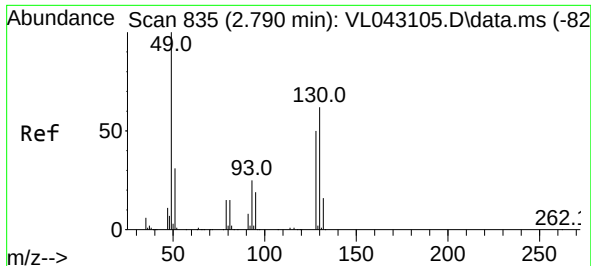
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	186533	9.525	ppbv	100
47) 1,1,2-Trichloroethane	6.584	97	115419	9.082	ppbv	100
48) Dibromochloromethane	7.390	129	201349	9.476	ppbv	100
49) Bromoform	9.487	173	166377	9.633	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	298401	9.362	ppbv	100
51) 2-Hexanone	7.438	43	236391	9.940	ppbv	100
52) Tetrachloroethene	8.228	164	106710	9.192	ppbv	100
53) Toluene	6.940	91	354007	9.266	ppbv	100
54) 1,2-Dibromoethane	7.658	107	182074	9.080	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	182585	9.367	ppbv	100
57) Chlorobenzene	8.927	112	262566	9.076	ppbv	100
58) Ethyl Benzene	9.358	91	494344	9.241	ppbv	100
59) m/p-Xylene	9.536	91	765374m	18.067	ppbv	
60) o-Xylene	9.969	91	378462	9.053	ppbv	100
61) Styrene	9.875	104	178859	9.477	ppbv	100
62) Isopropylbenzene	10.542	105	692992	9.173	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	240245	8.582	ppbv	100
64) n-propylbenzene	10.992	120	182233	9.112	ppbv	100
65) tert-Butylbenzene	11.536	119	587750	8.810	ppbv	100
66) Benzyl Chloride	11.617	91	74574	10.009	ppbv	100
67) sec-Butylbenzene	11.769	105	834052	8.809	ppbv	100
69) p-Isopropyltoluene	11.927	119	720433	8.955	ppbv	100
70) n-Butylbenzene	12.283	91	717743	9.053	ppbv	100
71) 2-Chlorotoluene	10.905	91	524961	9.111	ppbv	100
72) 4-Ethyltoluene	11.128	105	473042	9.202	ppbv	100
73) 1,3,5-Trimethylbenzene	11.206	105	389818	9.195	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	411619	8.676	ppbv	100
75) 1,3-Dichlorobenzene	11.610	146	252926	9.192	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	254461	9.171	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	236724	8.893	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	171777	8.334	ppbv	100
79) Naphthalene	13.517	128	488672	9.972	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	147897	11.431	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	197210	9.582	ppbv	100

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

Manual Integrations

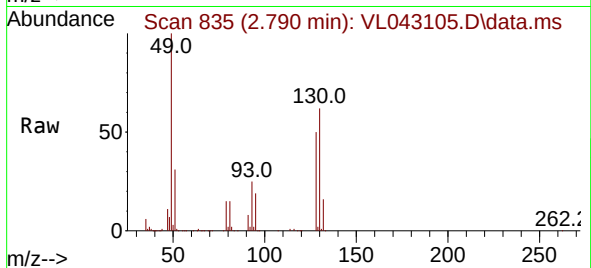
Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

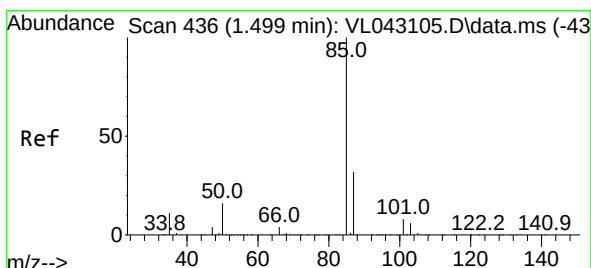
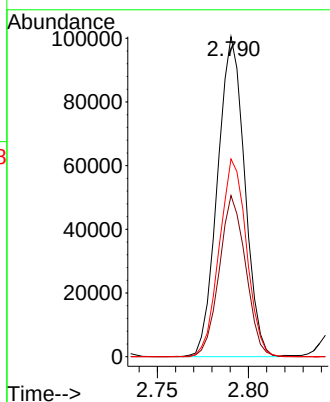
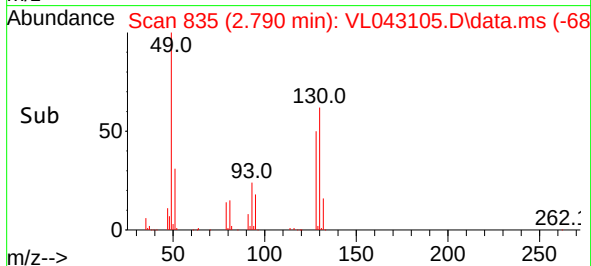
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



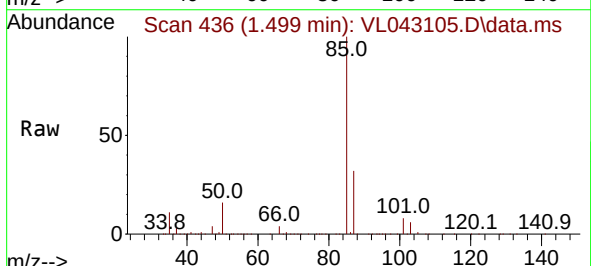
Tgt Ion: 49 Resp: 10397
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 62.0 31.0 93.0

Manual Integrations
APPROVED

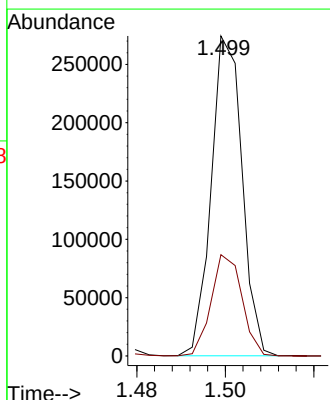
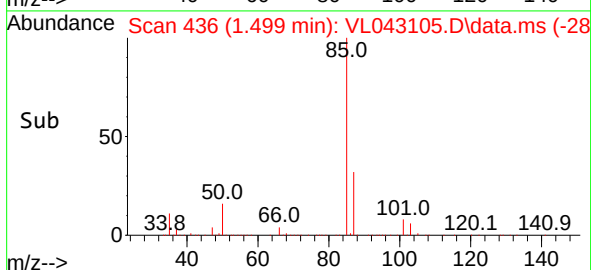
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

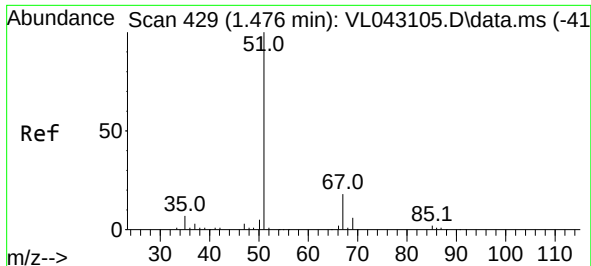


#2
Dichlorodifluoromethane
Concen: 8.987 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion: 85 Resp: 132845
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





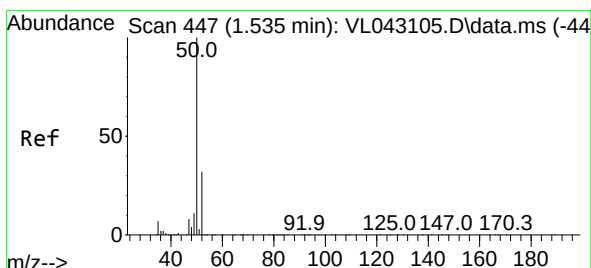
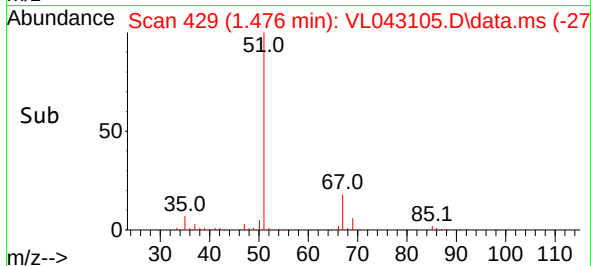
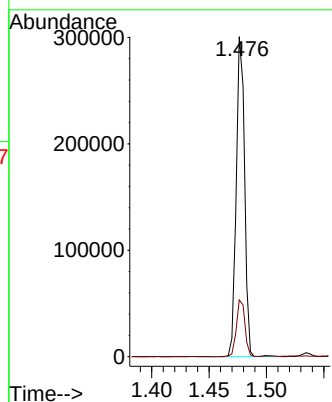
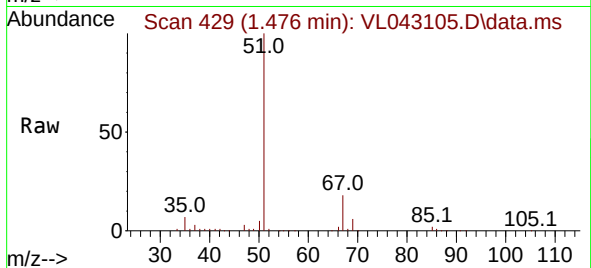
#3
Chlorodifluoromethane
Concen: 9.431 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 150832
Ion Ratio Lower Upper
51 100
67 18.9 15.1 22.7

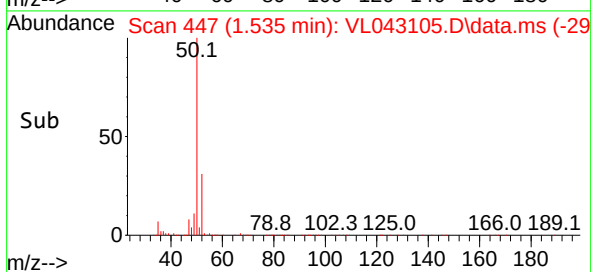
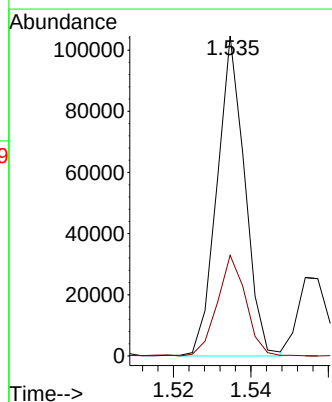
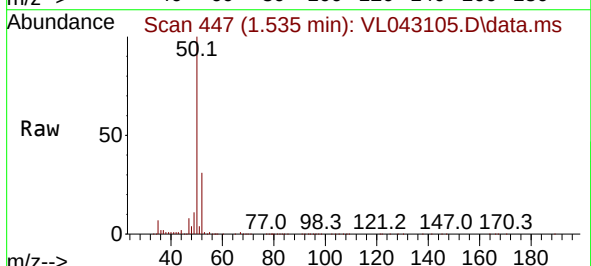
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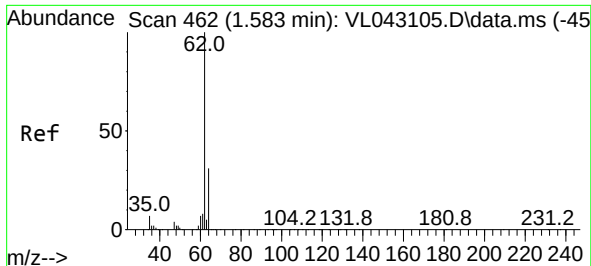
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 8.869 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

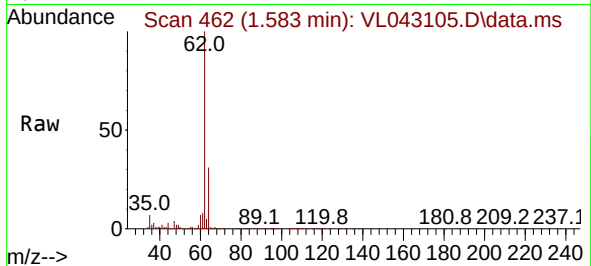
Tgt Ion: 50 Resp: 51934
Ion Ratio Lower Upper
50 100
52 31.5 25.2 37.8





#5
 Vinyl Chloride
 Concen: 8.713 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

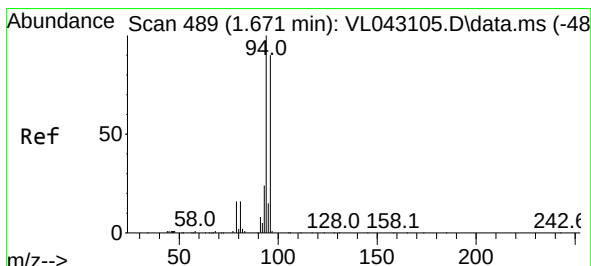
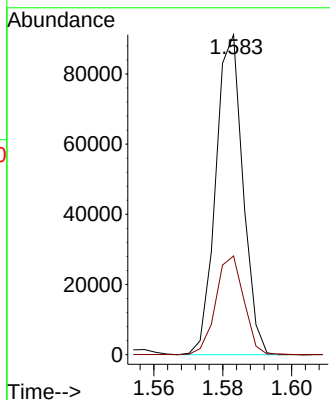
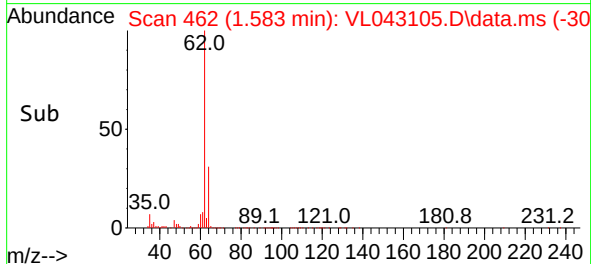
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



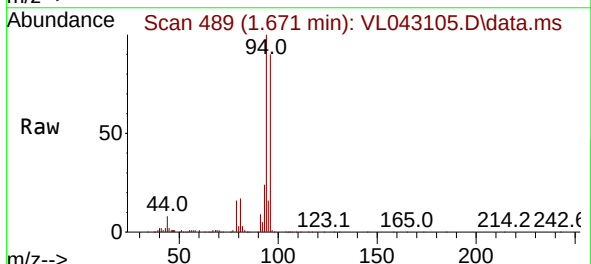
Tgt Ion: 62 Resp: 50044
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.6 36.8

Manual Integrations
 APPROVED

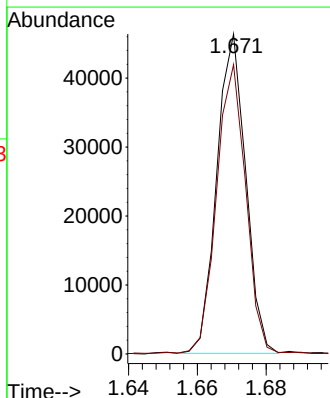
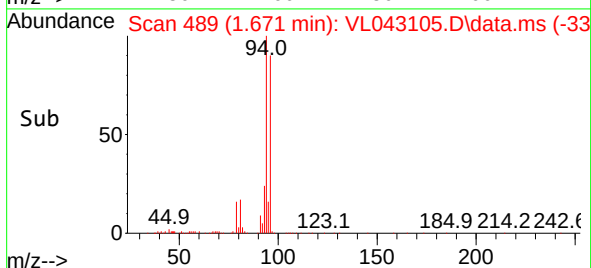
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

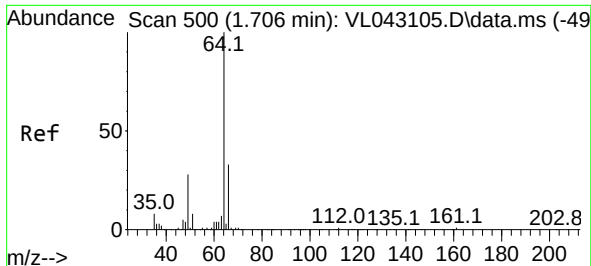


#6
 Bromomethane
 Concen: 8.593 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31



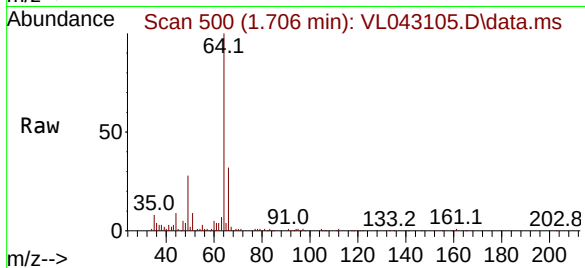
Tgt Ion: 94 Resp: 27062
 Ion Ratio Lower Upper
 94 100
 96 90.3 72.2 108.4





#7
Chloroethane
Concen: 8.492 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

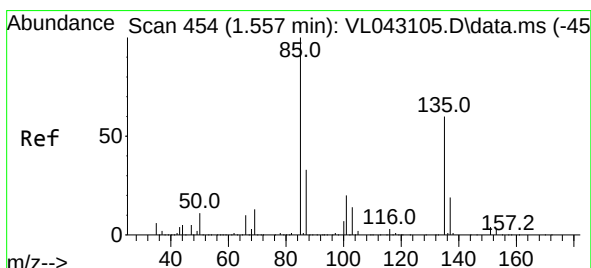
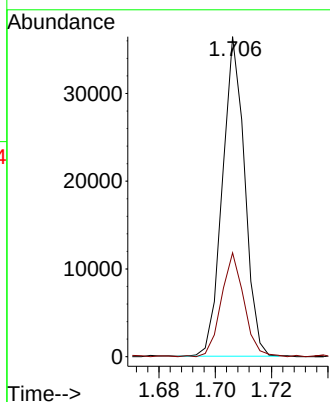
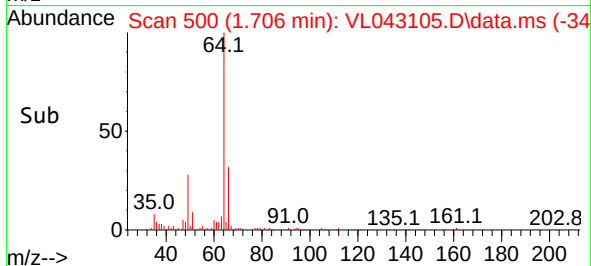
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 64 Resp: 1994
Ion Ratio Lower Upper
64 100
66 32.5 26.0 39.0

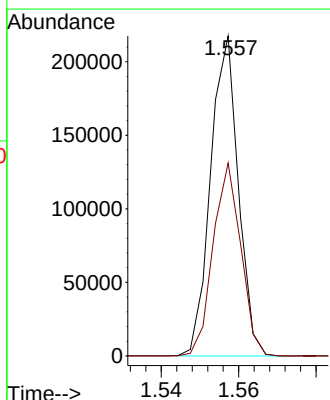
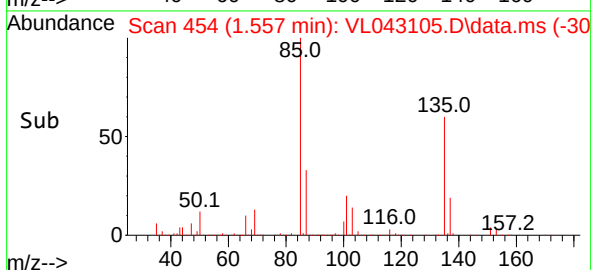
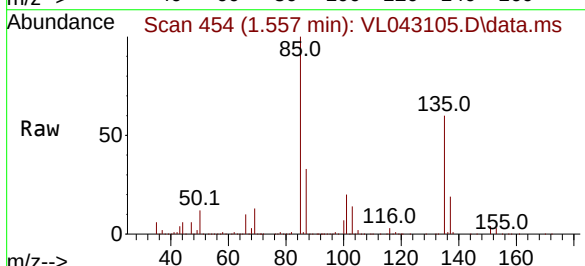
Manual Integrations
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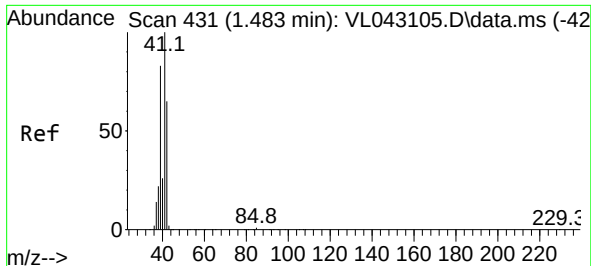
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 9.049 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 108109
Ion Ratio Lower Upper
85 100
135 60.3 48.2 72.4





#9

Propene

Concen: 9.602 ppbv

RT: 1.483 min Scan# 431

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 68110

Ion Ratio Lower Upper

41 100

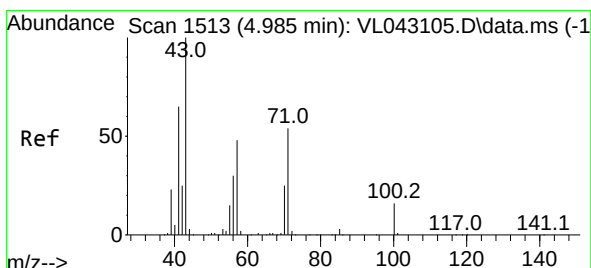
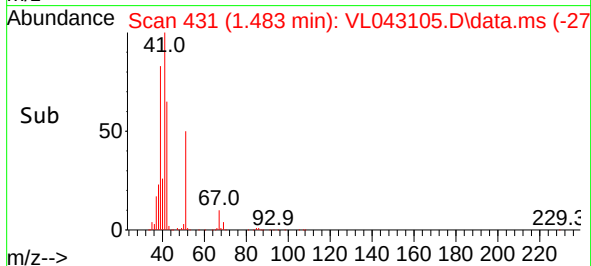
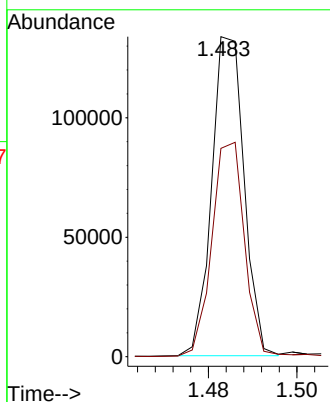
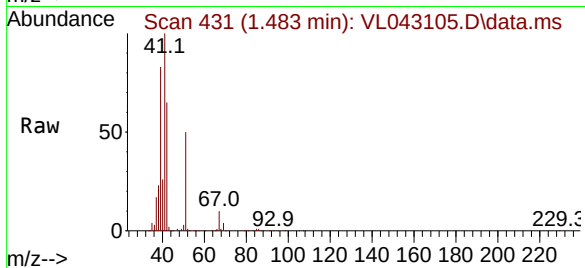
42 68.9 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 9.217 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.000 min

Lab File: VL043105.D

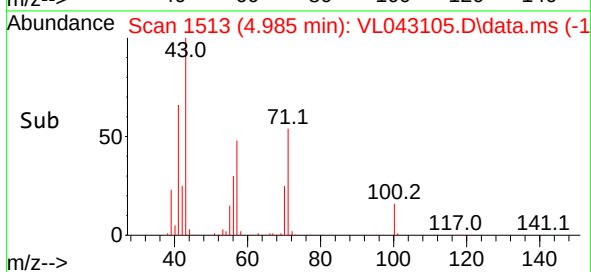
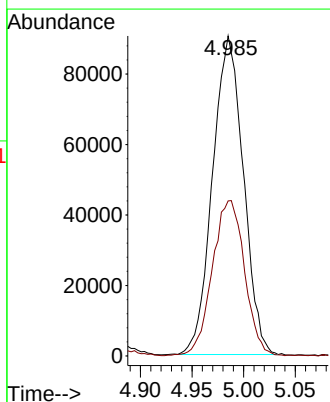
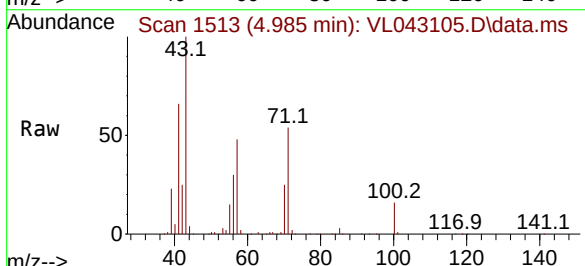
Acq: 14 Oct 2025 10:31

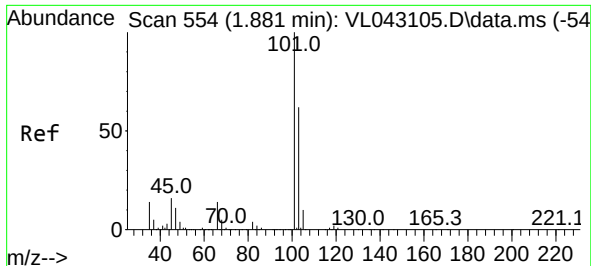
Tgt Ion: 43 Resp: 187423

Ion Ratio Lower Upper

43 100

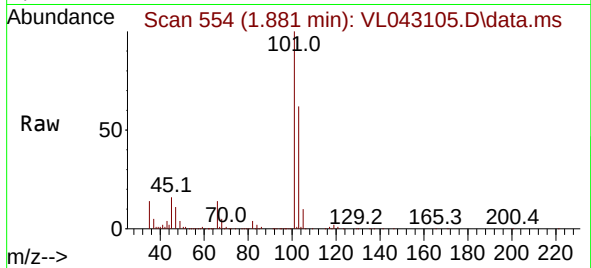
57 50.9 40.8 61.2





#11
 Trichlorofluoromethane
 Concen: 8.935 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

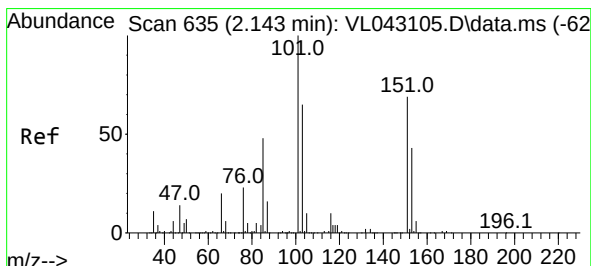
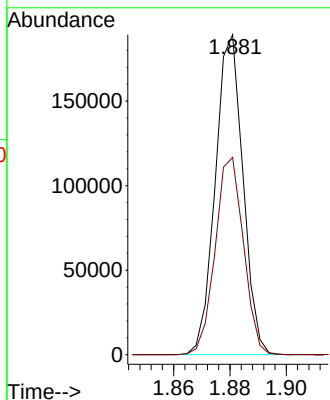
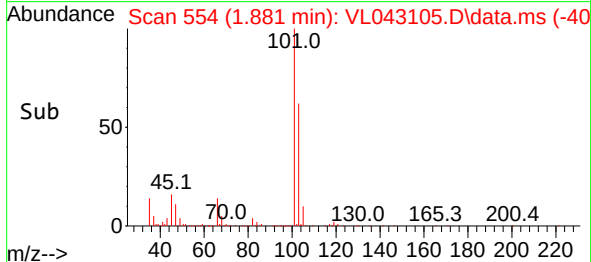
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



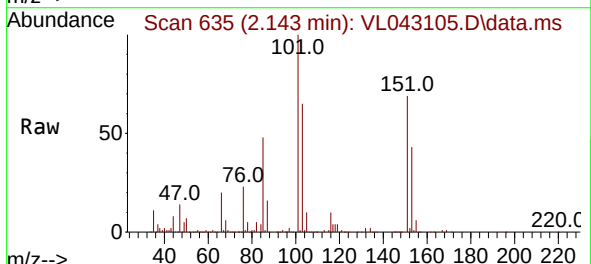
Tgt Ion:101 Resp: 129180
 Ion Ratio Lower Upper
 101 100
 103 61.6 49.3 73.9

Manual Integrations
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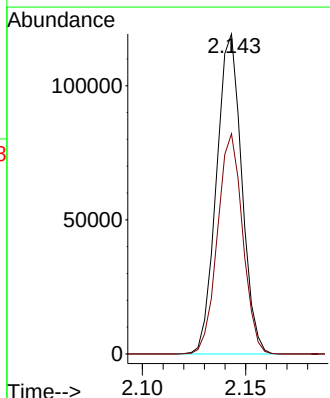
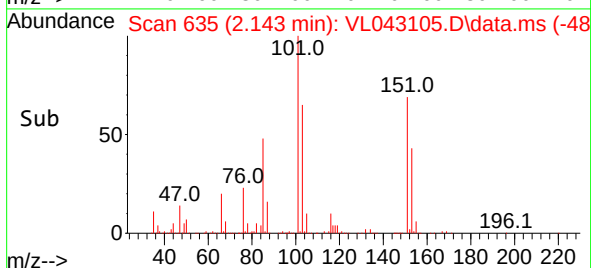
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

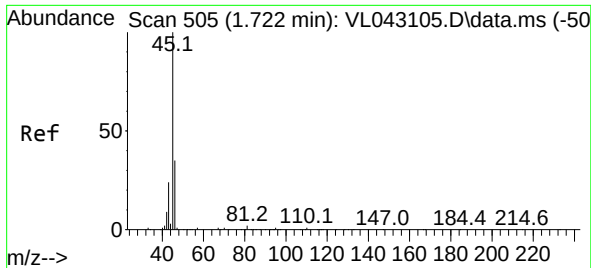


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.715 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31



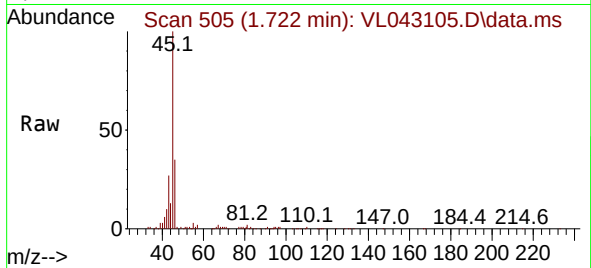
Tgt Ion:101 Resp: 101442
 Ion Ratio Lower Upper
 101 100
 151 68.4 54.7 82.1





#13
Ethanol
Concen: 7.640 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

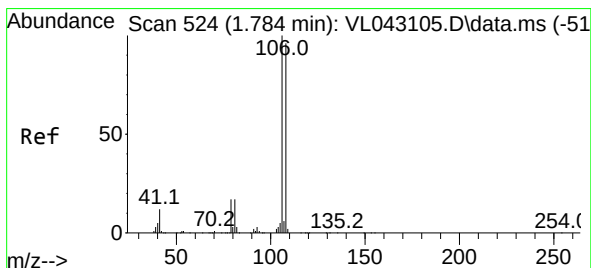
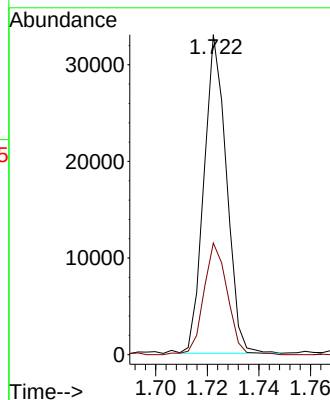
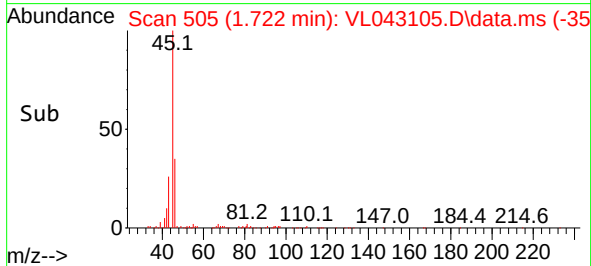
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



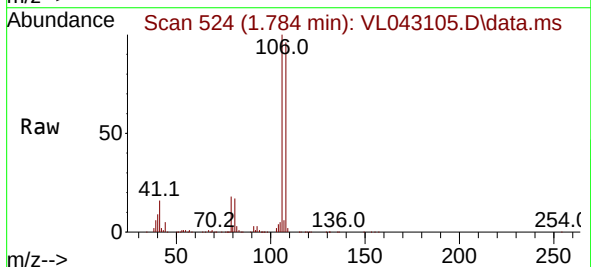
Tgt Ion: 45 Resp: 20045
Ion Ratio Lower Upper
45 100
46 36.8 14.7 58.9

Manual Integrations
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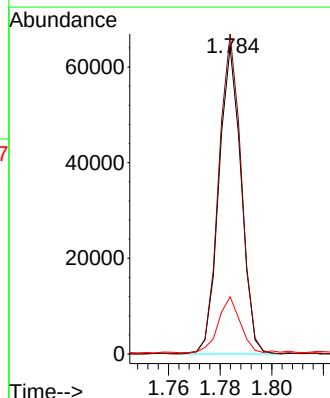
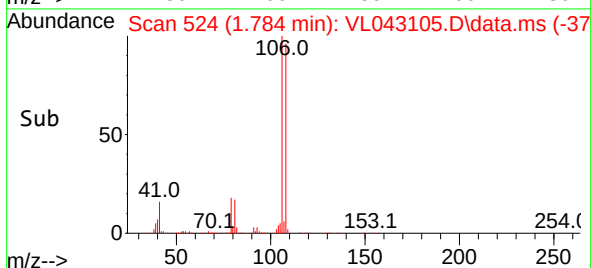
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

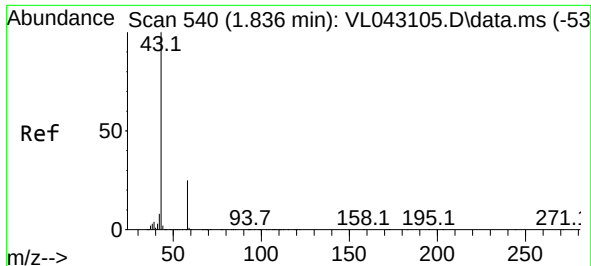


#14
Bromoethene
Concen: 8.916 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



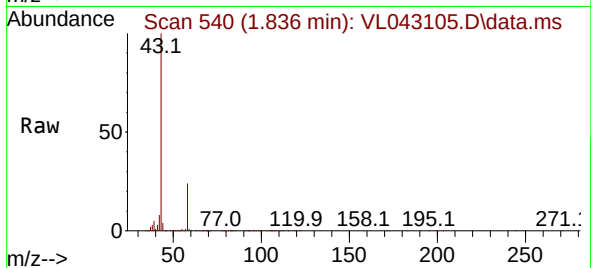
Tgt Ion:108 Resp: 38553
Ion Ratio Lower Upper
108 100
106 105.5 84.4 126.6
79 19.1 15.3 22.9





#15
Acetone
Concen: 8.047 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

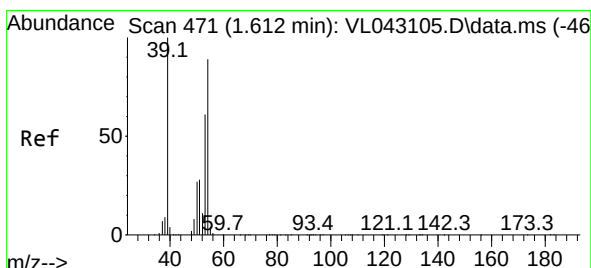
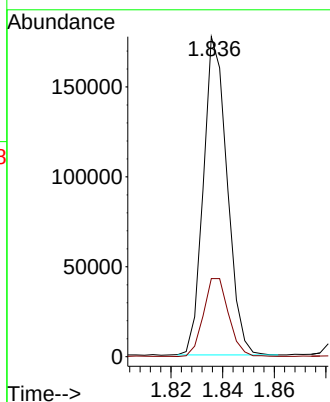
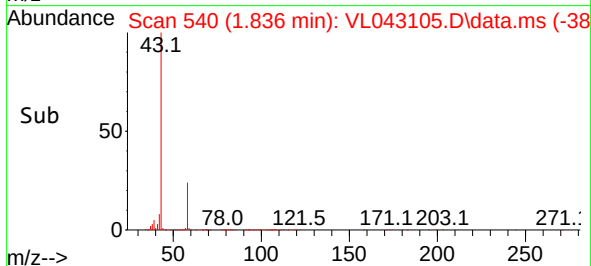
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 113399
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2

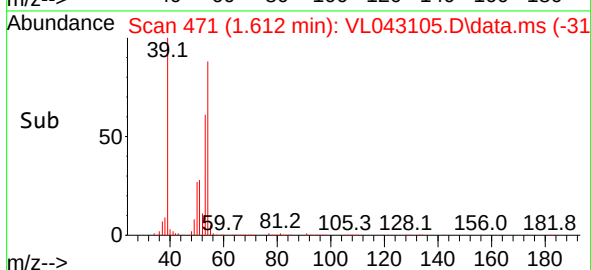
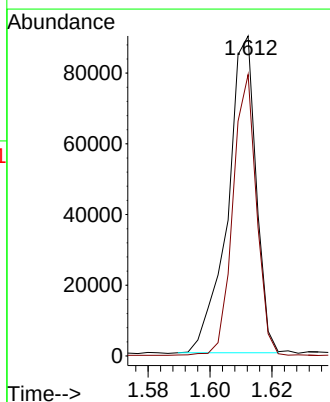
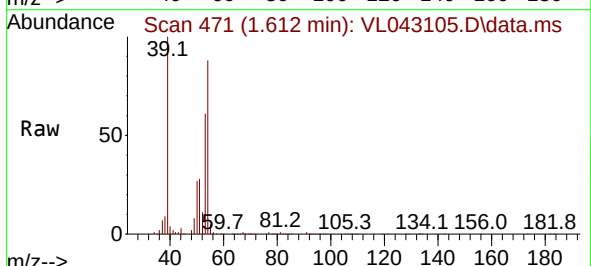
Manual Integrations
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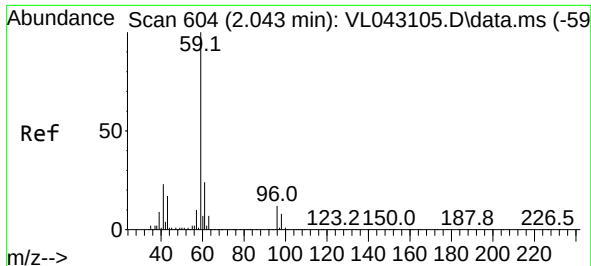
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 8.596 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 39 Resp: 57406
Ion Ratio Lower Upper
39 100
54 73.7 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.130 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 59 Resp: 175630

Ion Ratio Lower Upper

59 100

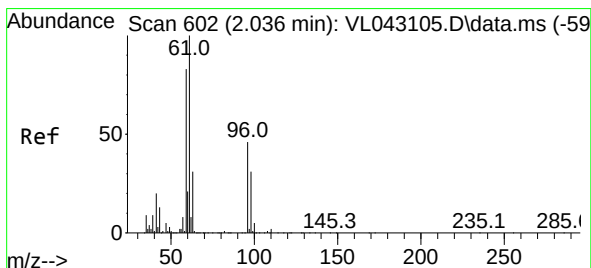
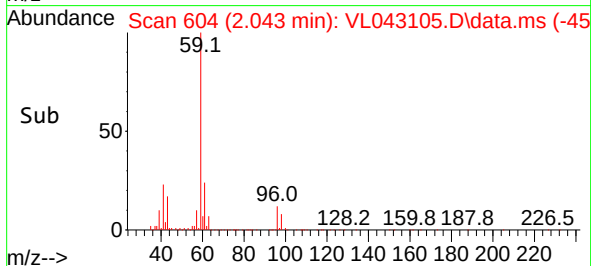
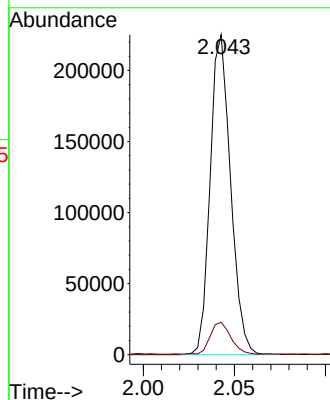
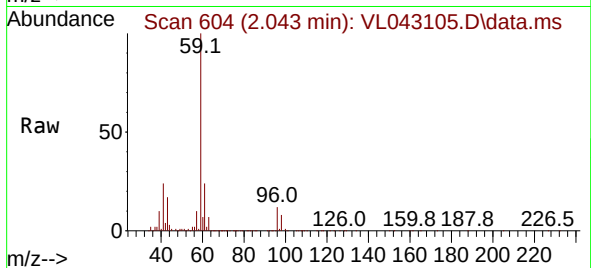
57 10.3 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

1,1-Dichloroethene

Concen: 8.949 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

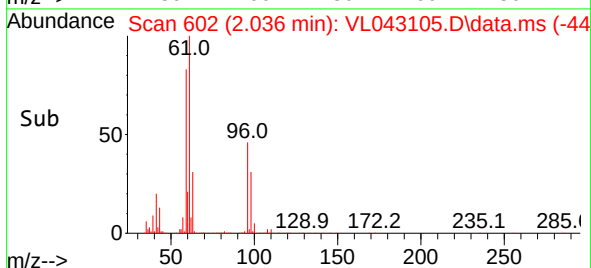
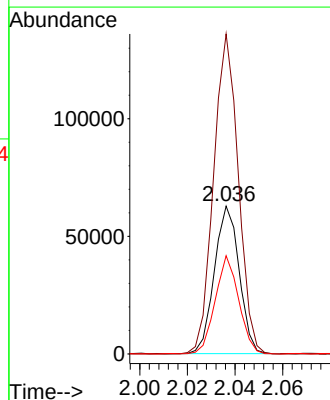
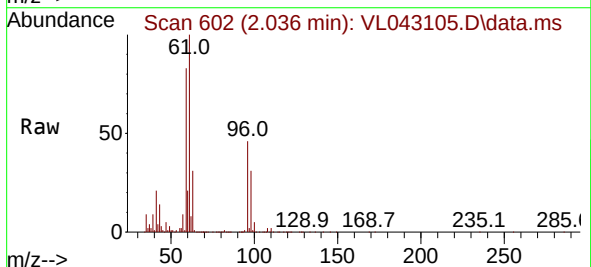
Tgt Ion: 96 Resp: 45413

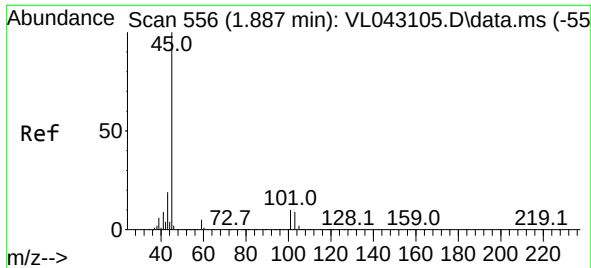
Ion Ratio Lower Upper

96 100

61 216.7 173.4 260.0

98 66.5 53.2 79.8





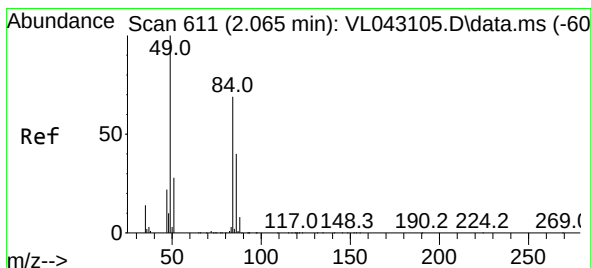
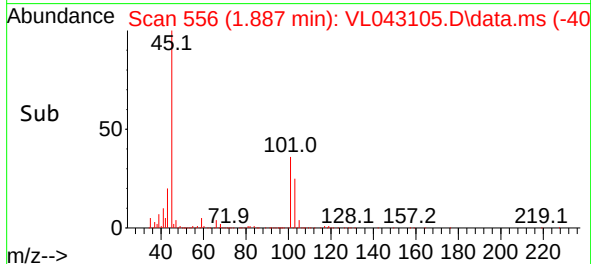
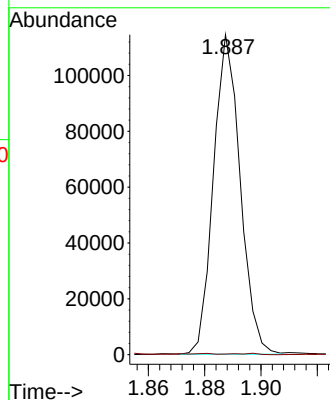
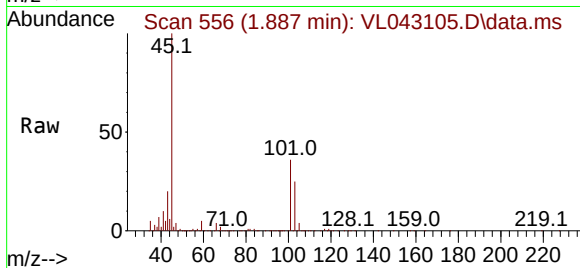
#19
Isopropyl Alcohol
Concen: 8.634 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 7535
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9

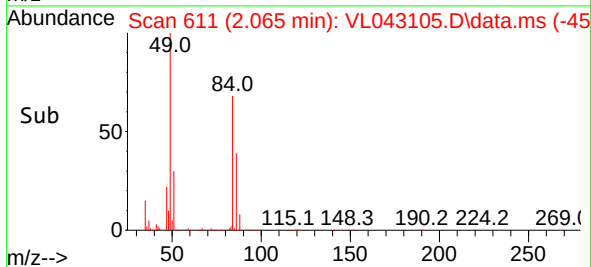
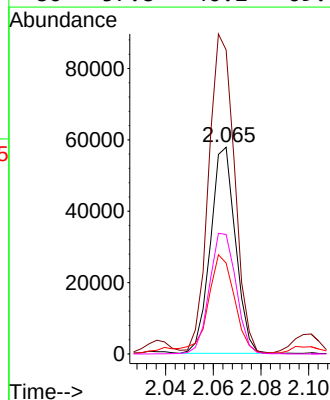
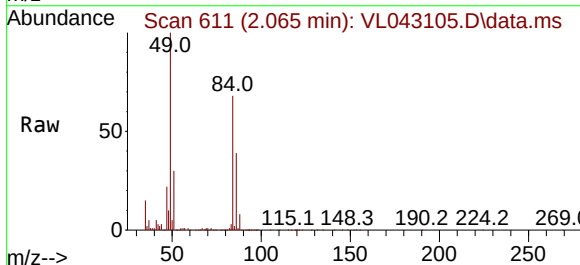
Manual Integrations
APPROVED

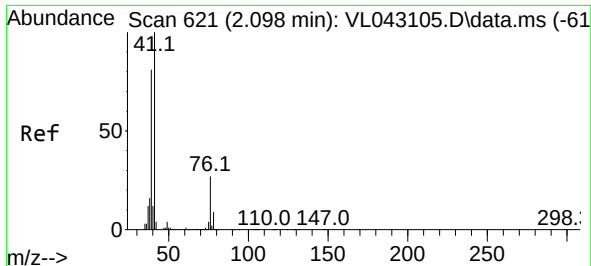
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#20
Methylene Chloride
Concen: 7.620 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212
Ion Ratio Lower Upper
84 100
49 145.8 116.6 175.0
51 43.5 34.8 52.2
86 57.8 46.2 69.4





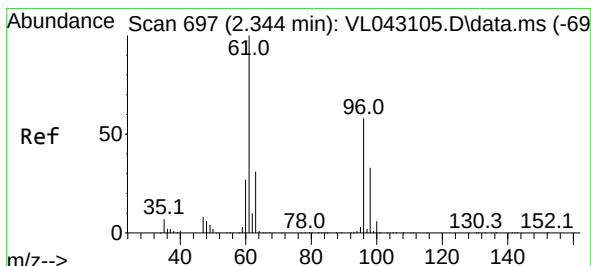
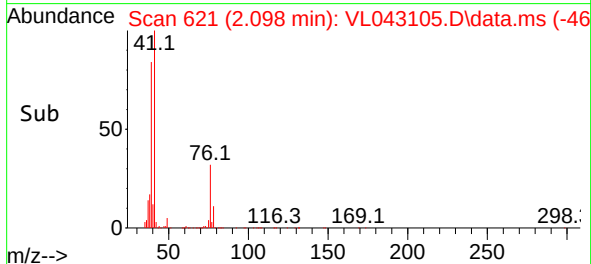
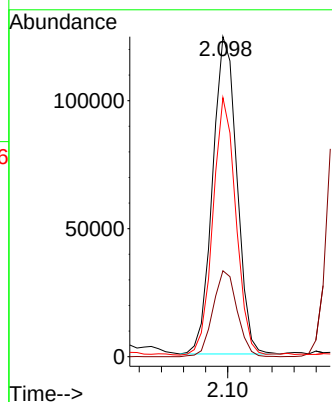
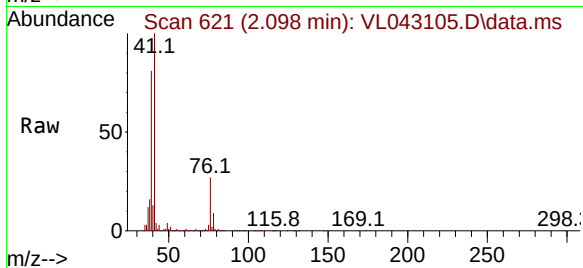
#21
 Allyl Chloride
 Concen: 9.145 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 9462
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.5 32.3
 39 76.4 60.8 91.2

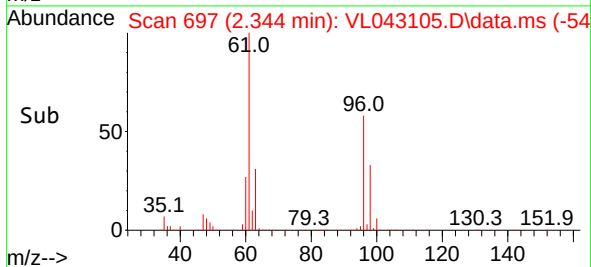
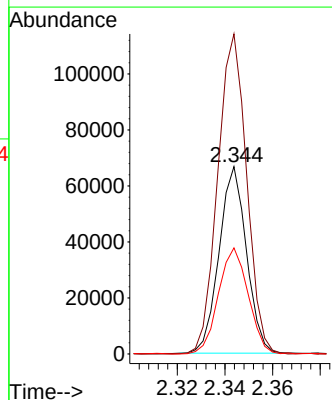
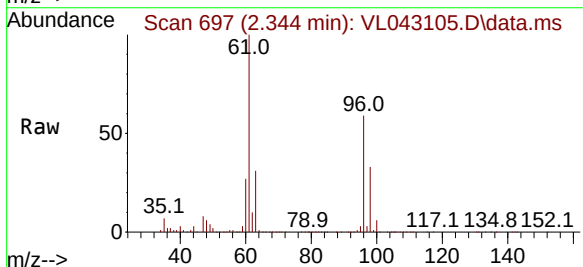
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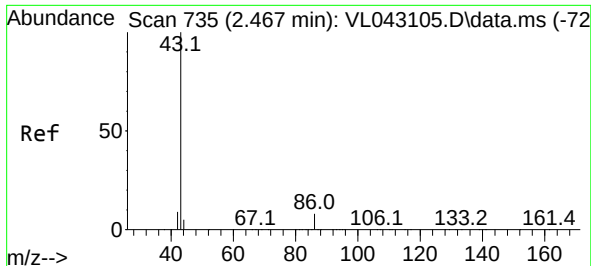
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.761 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

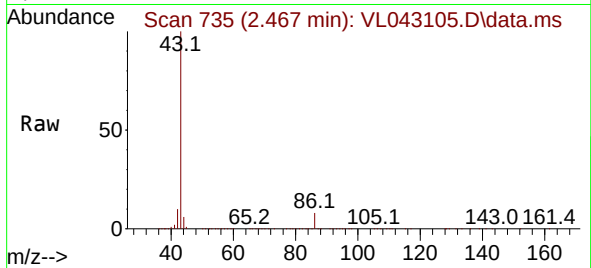
Tgt Ion: 96 Resp: 53146
 Ion Ratio Lower Upper
 96 100
 61 171.3 137.0 205.6
 98 56.9 45.5 68.3





#23
 Vinyl Acetate
 Concen: 8.218 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

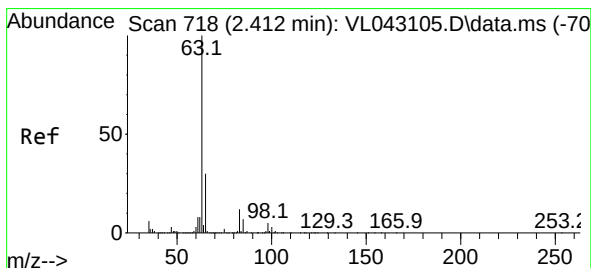
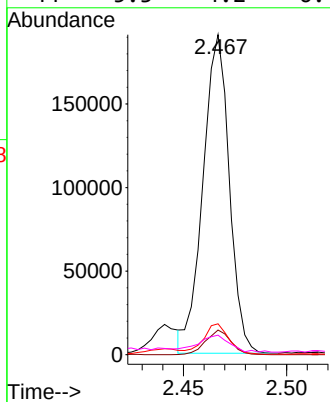
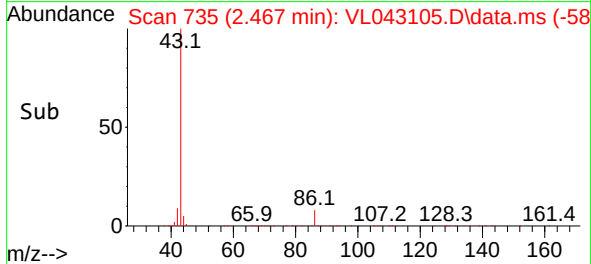
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



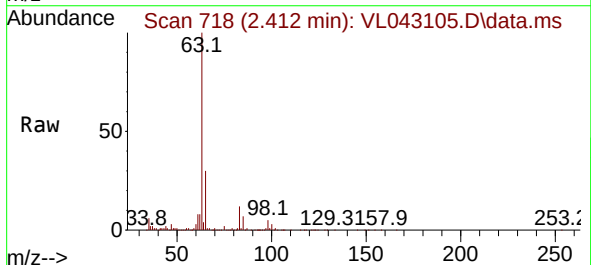
Tgt Ion: 43 Resp: 168700
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.2 9.2
 42 9.5 7.6 11.4
 44 5.3 4.2 6.4

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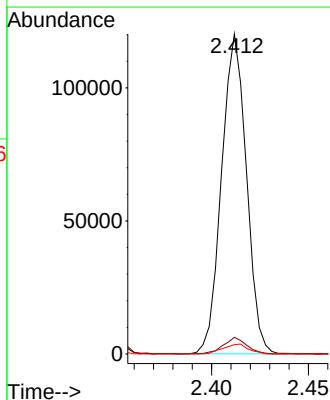
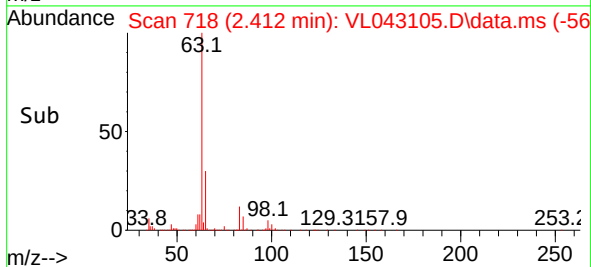
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

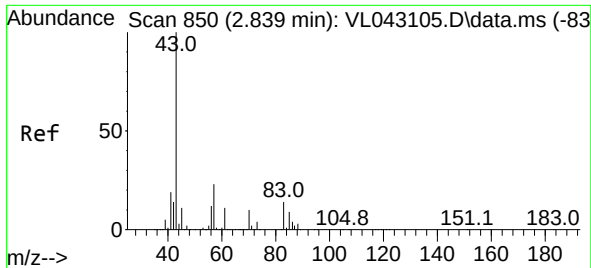


#24
 1,1-Dichloroethane
 Concen: 9.143 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31



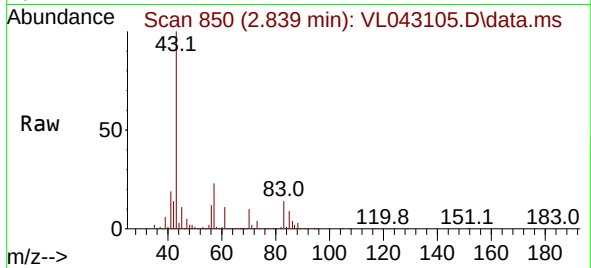
Tgt Ion: 63 Resp: 107153
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.6 7.8
 100 2.9 1.5 4.4





#25
Ethyl Acetate
Concen: 9.371 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

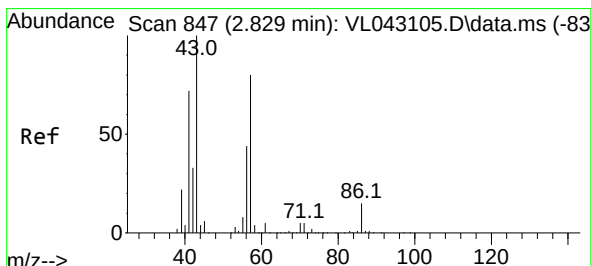
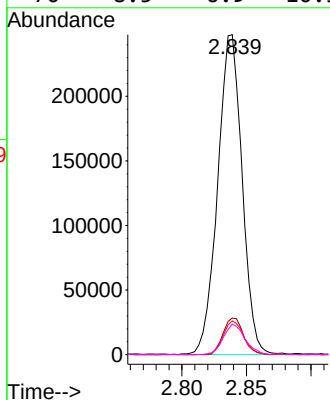
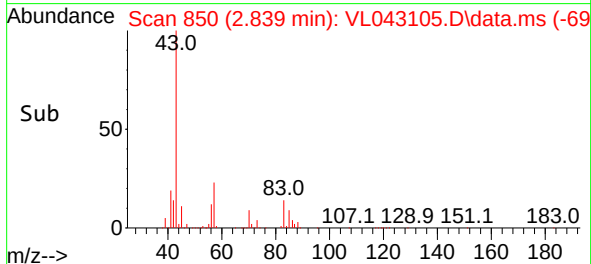
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 325662
Ion Ratio Lower Upper
43 100
45 9.8 7.8 11.8
61 8.8 7.0 10.6
70 8.5 6.9 10.3

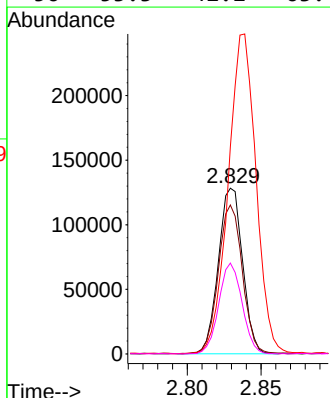
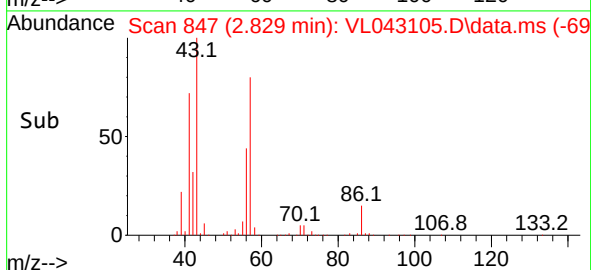
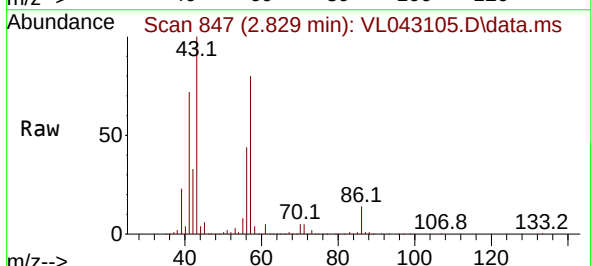
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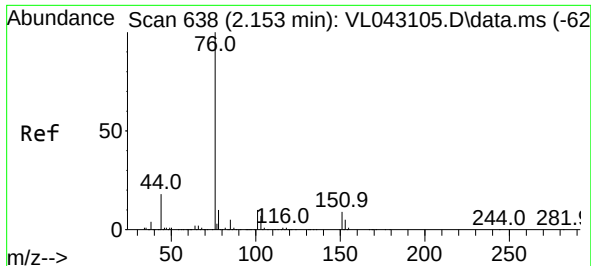
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 9.128 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

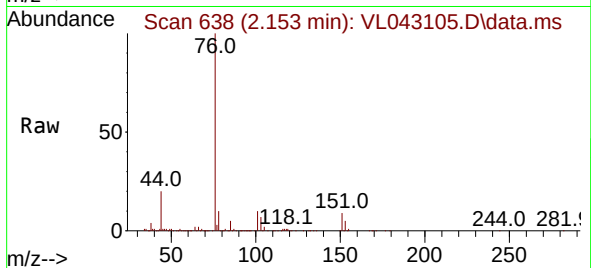
Tgt Ion: 57 Resp: 146168
Ion Ratio Lower Upper
57 100
41 90.2 71.4 107.0
43 222.4 178.5 267.7
56 53.3 42.2 63.4





#27
Carbon Disulfide
Concen: 9.319 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

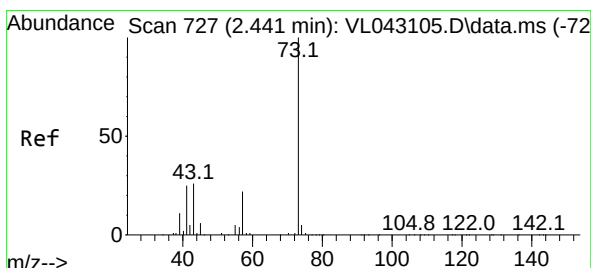
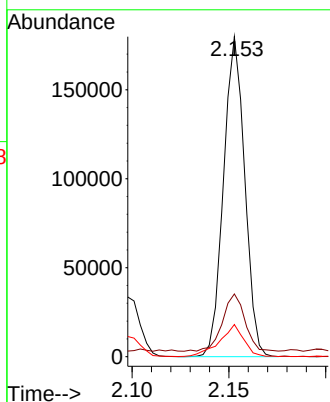
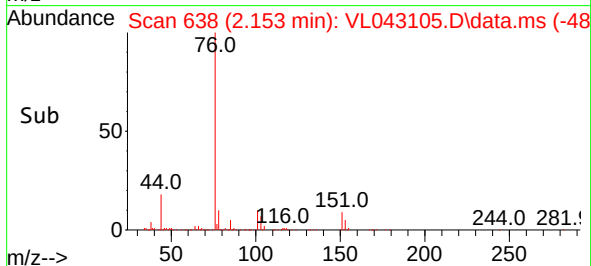
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 76 Resp: 136729
Ion Ratio Lower Upper
76 100
44 20.1 16.7 25.1
78 11.5 9.3 13.9

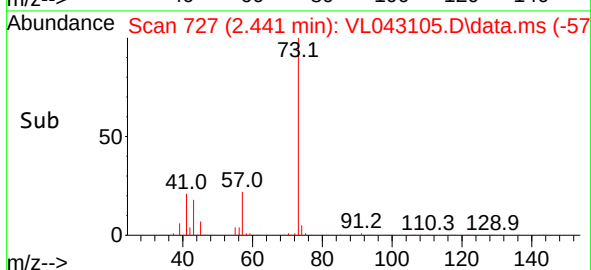
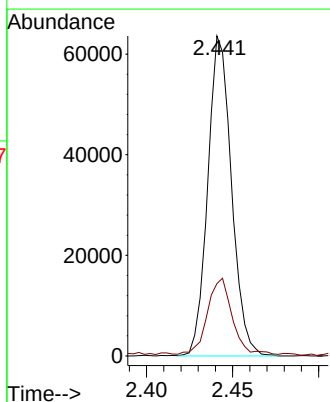
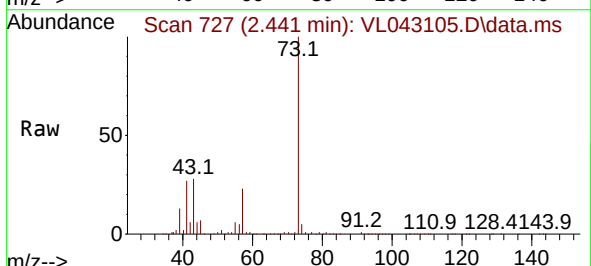
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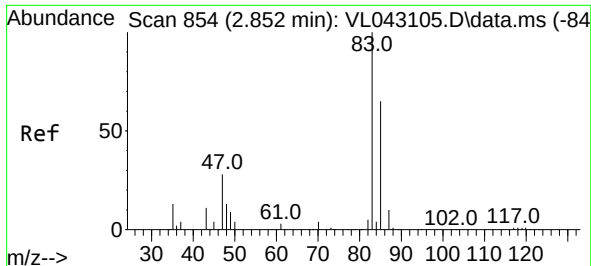
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 8.384 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 73 Resp: 61076
Ion Ratio Lower Upper
73 100
57 24.8 20.5 30.7





#29

Chloroform

Concen: 9.097 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 83 Resp: 21107

Ion Ratio Lower Upper

83 100

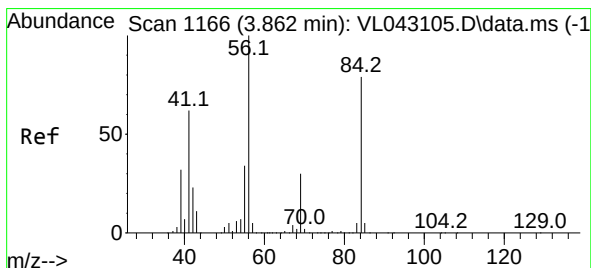
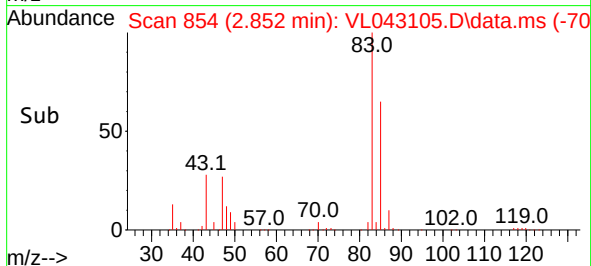
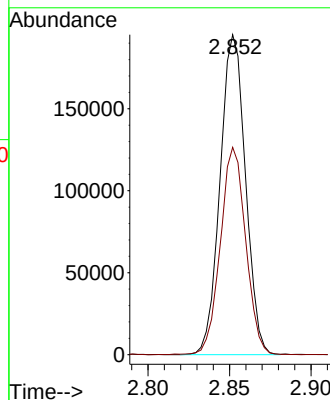
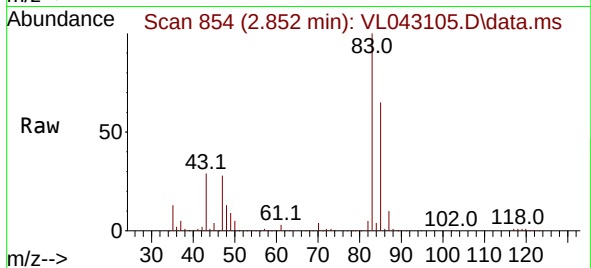
85 64.7 51.8 77.6

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 9.037 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

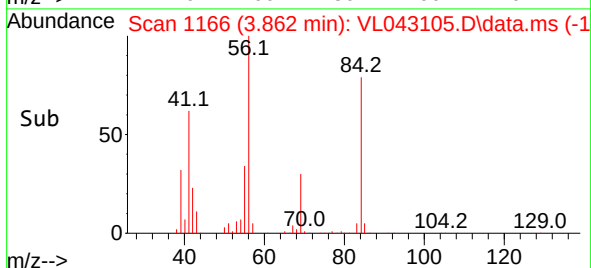
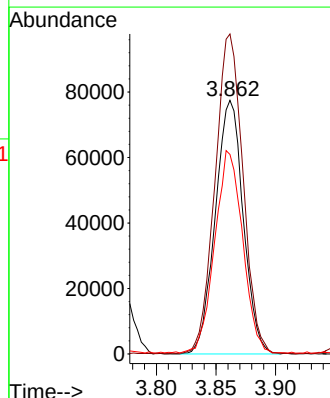
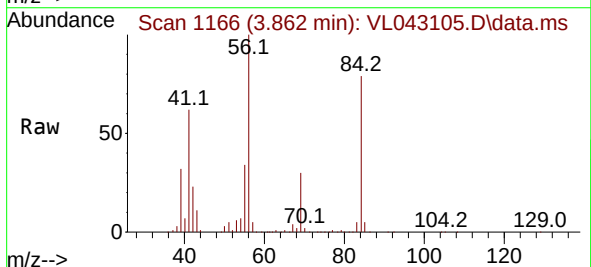
Tgt Ion: 84 Resp: 126226

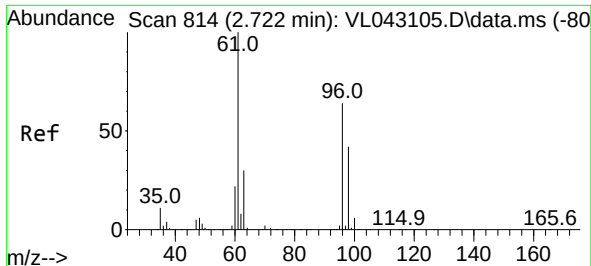
Ion Ratio Lower Upper

84 100

56 126.5 100.9 151.3

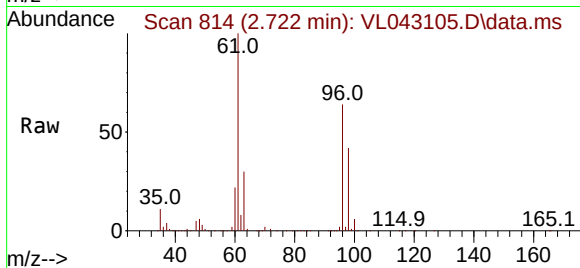
41 79.8 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.553 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

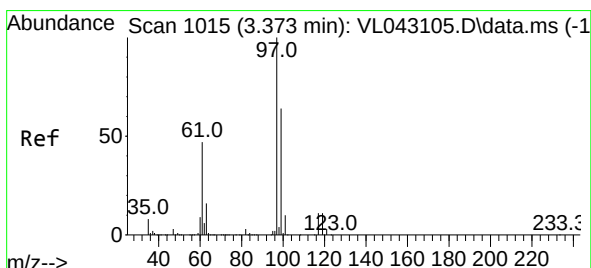
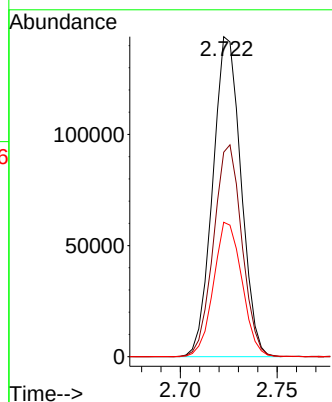
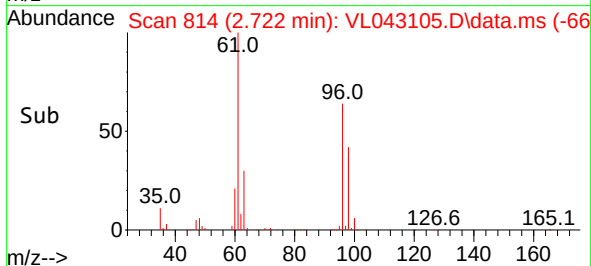
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



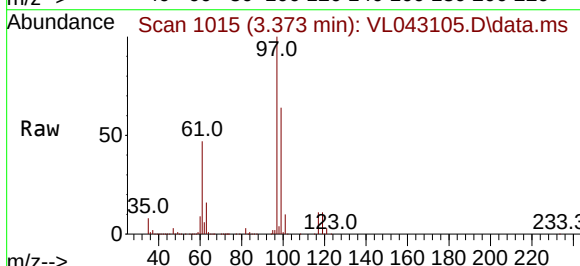
Tgt Ion: 61 Resp: 146072
 Ion Ratio Lower Upper
 61 100
 96 63.8 51.0 76.6
 98 41.9 33.5 50.3

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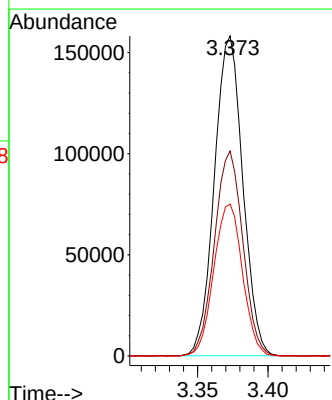
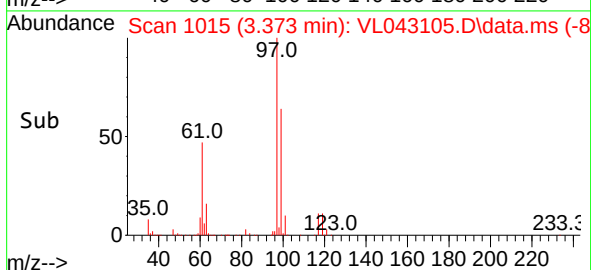
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

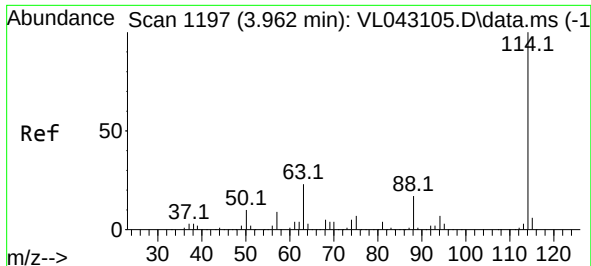


#32
 1,1,1-Trichloroethane
 Concen: 9.189 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31



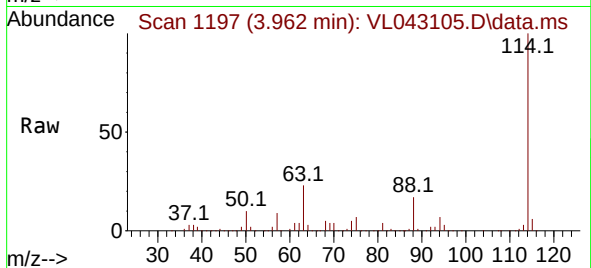
Tgt Ion: 97 Resp: 222043
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.3 76.9
 61 48.0 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

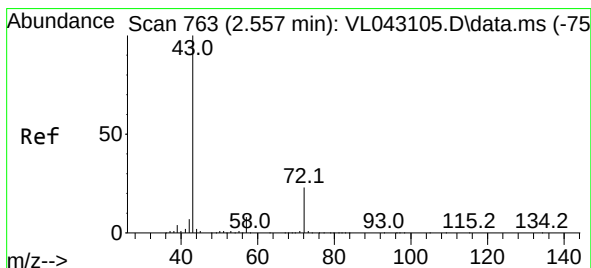
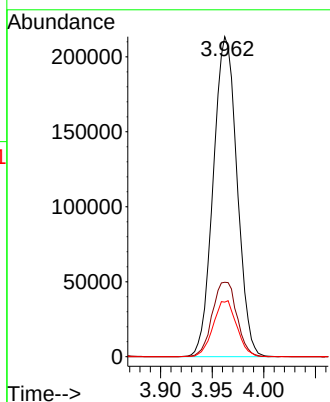
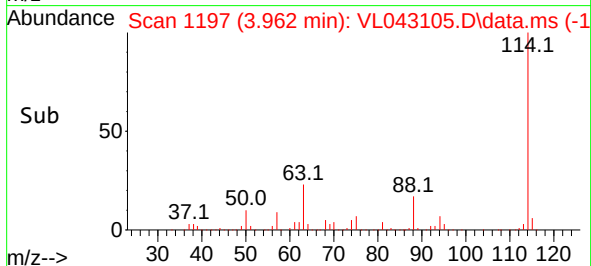
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:114 Resp: 341790
Ion Ratio Lower Upper
114 100
63 24.1 19.3 28.9
88 17.4 13.9 20.9

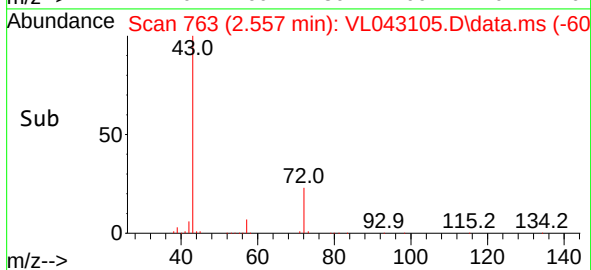
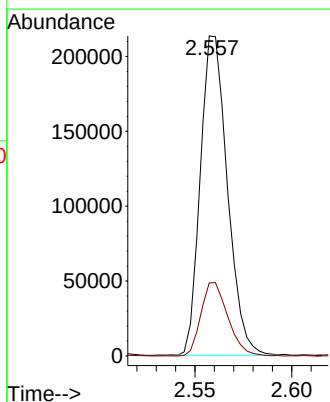
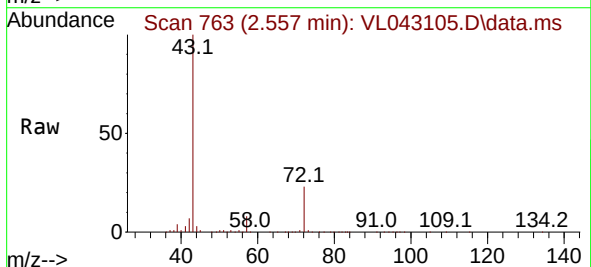
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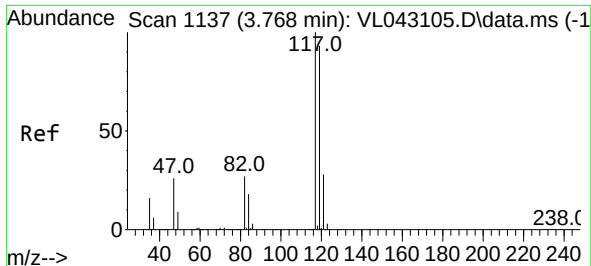
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#34
2-Butanone
Concen: 8.971 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

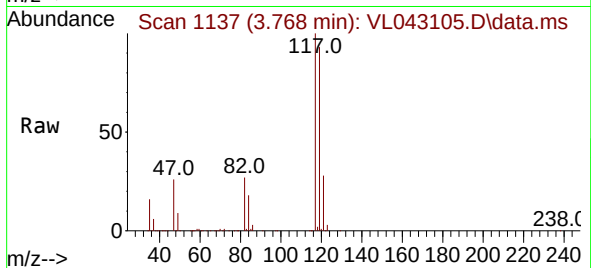
Tgt Ion: 43 Resp: 207274
Ion Ratio Lower Upper
43 100
72 22.8 18.4 27.6





#35
Carbon Tetrachloride
Concen: 9.032 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

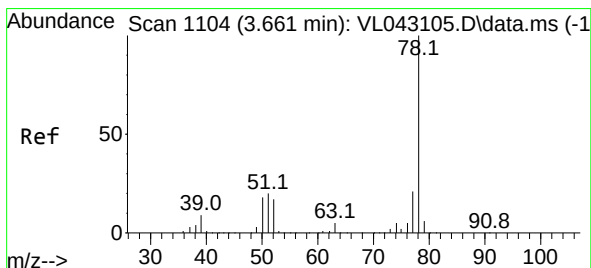
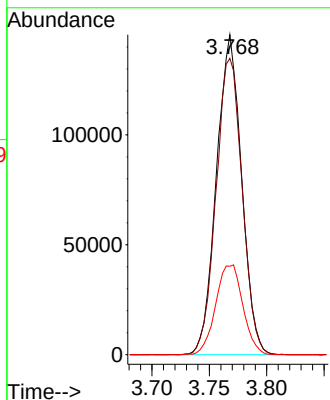
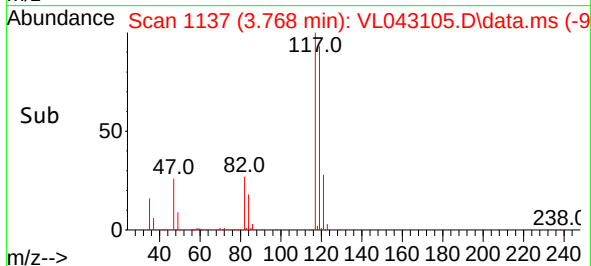
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



Tgt Ion: 117 Resp: 221937
Ion Ratio Lower Upper
117 100
119 92.6 74.1 111.1
121 27.7 22.2 33.2

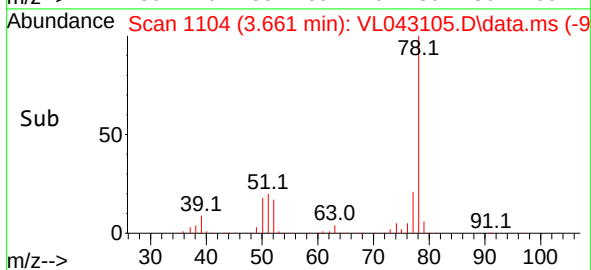
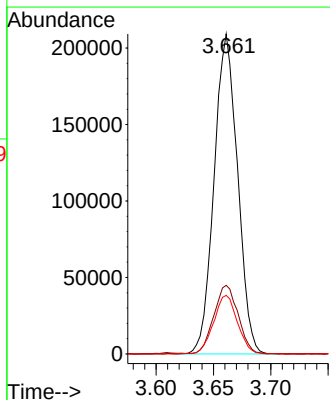
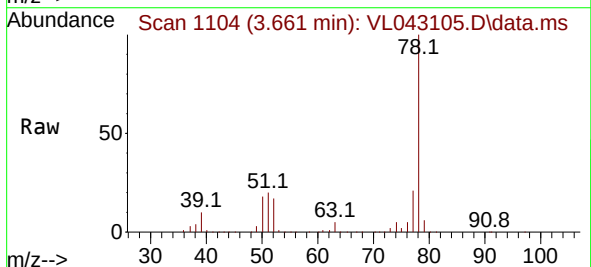
Manual Integrations
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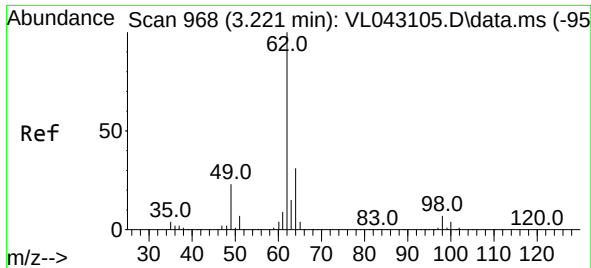
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 9.246 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

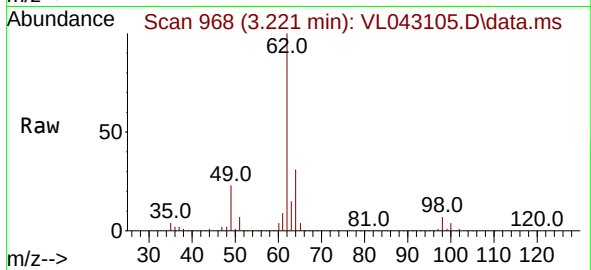
Tgt Ion: 78 Resp: 297653
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.3 14.6 22.0





#37
1,2-Dichloroethane
Concen: 8.946 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

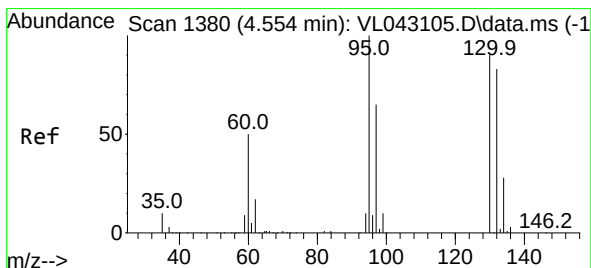
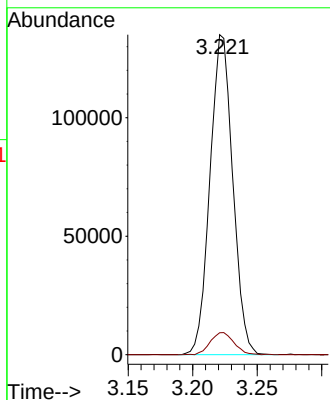
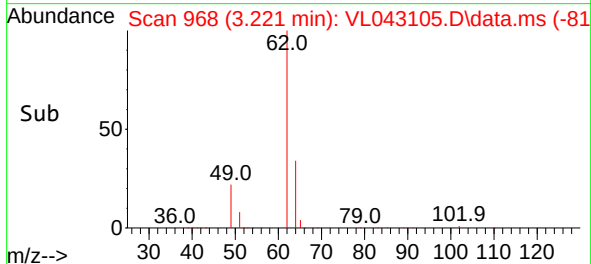
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



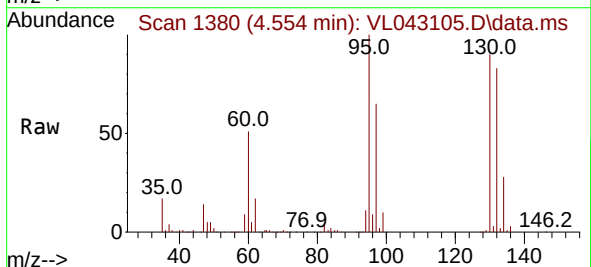
Tgt Ion: 62 Resp: 165898
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6

Manual Integrations
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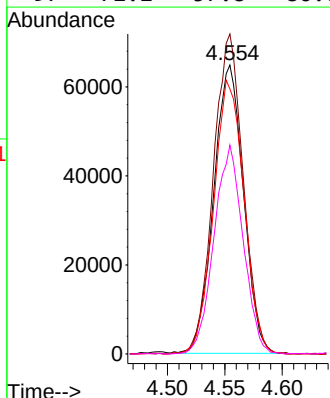
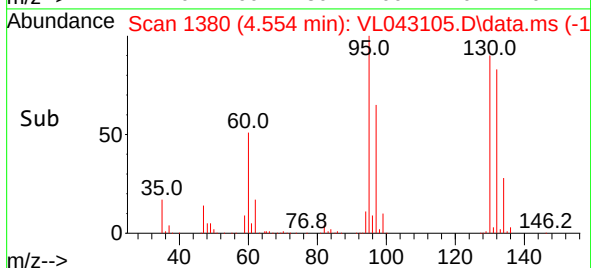
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

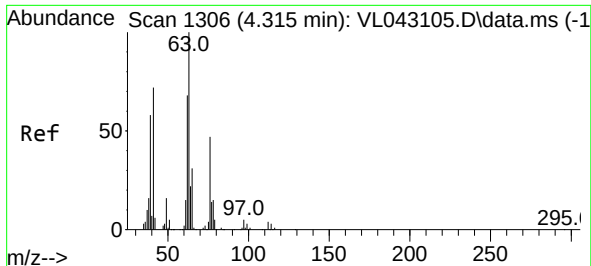


#38
Trichloroethene
Concen: 8.708 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion:130 Resp: 116947
Ion Ratio Lower Upper
130 100
95 110.8 88.6 133.0
132 91.7 73.4 110.0
97 72.2 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.207 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.000 min

Lab File: VL043105.D

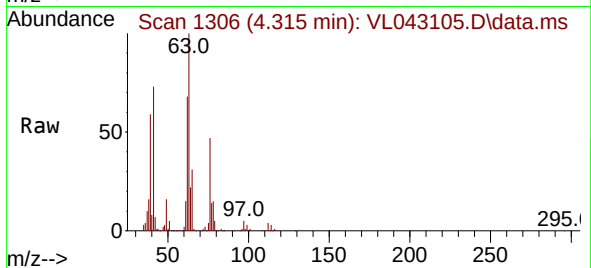
Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



Tgt Ion: 63 Resp: 108440

Ion Ratio Lower Upper

63 100

41 72.5 58.0 87.0

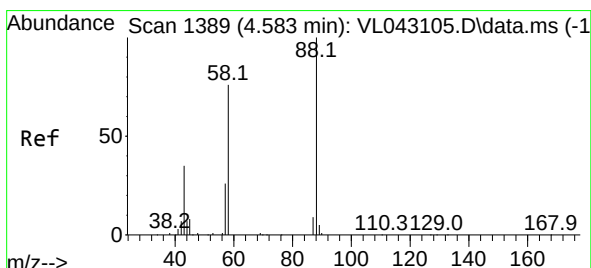
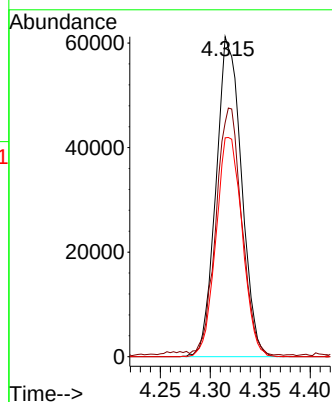
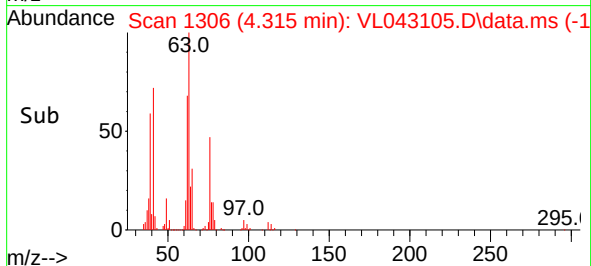
62 68.4 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 9.153 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion: 88 Resp: 48201

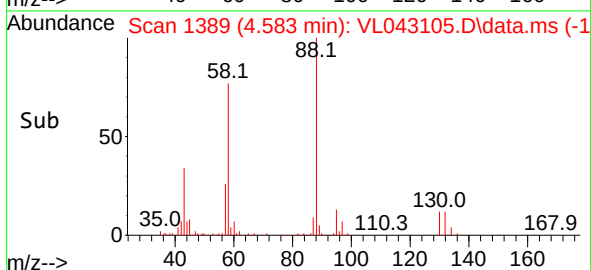
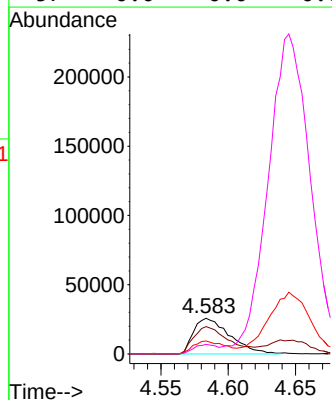
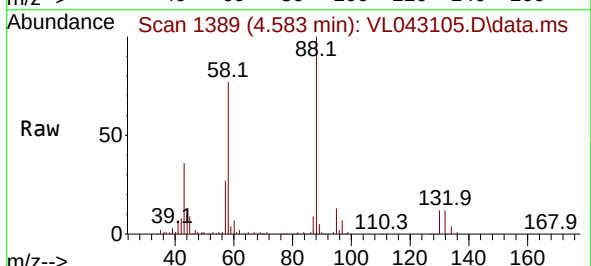
Ion Ratio Lower Upper

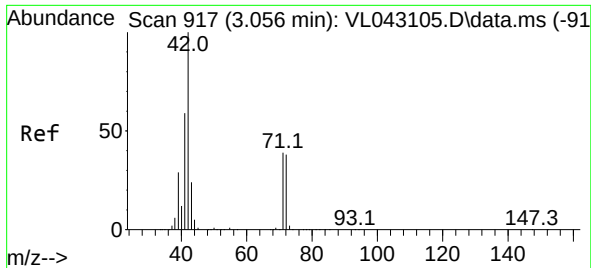
88 100

58 74.3 61.1 91.7

43 33.3 24.0 36.0

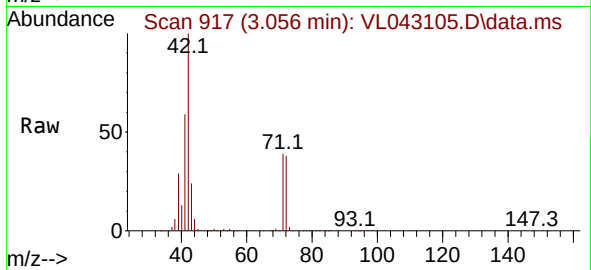
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.076 ppbv
RT: 3.056 min Scan# 917
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

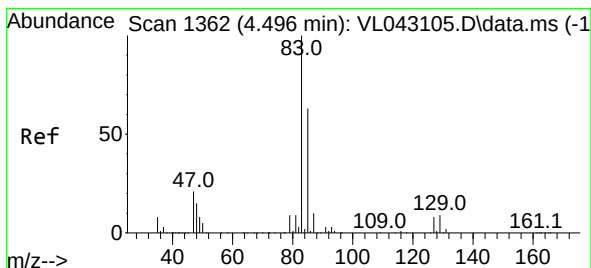
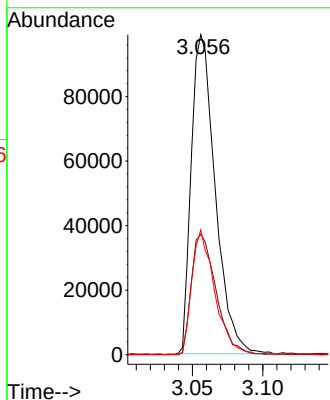
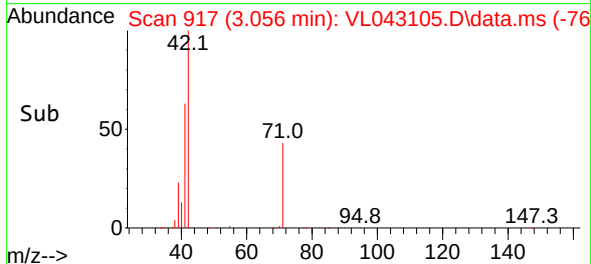
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 42 Resp: 117069
Ion Ratio Lower Upper
42 100
72 39.1 31.3 46.9
71 37.8 30.4 45.6

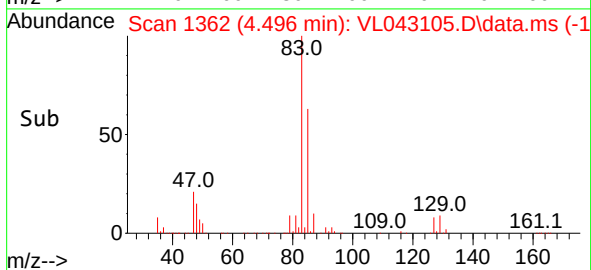
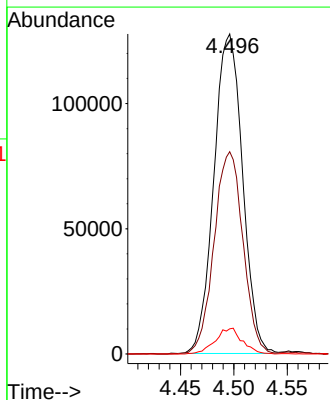
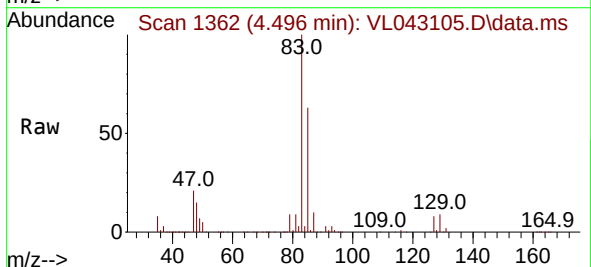
Manual Integrations
APPROVED

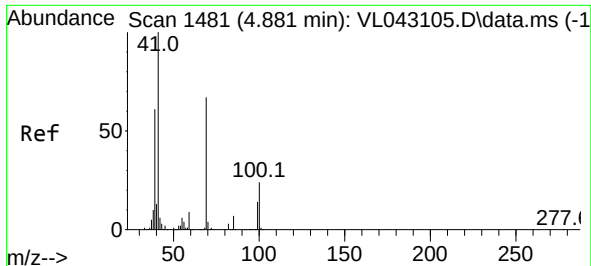
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

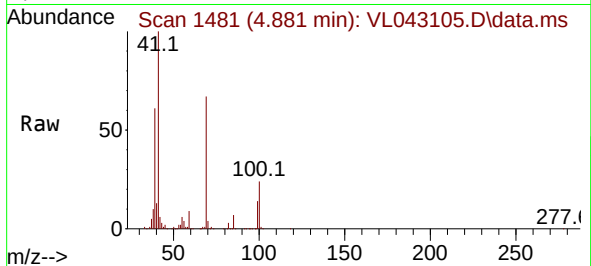
Tgt Ion: 83 Resp: 238353
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 7.9 6.3 9.5





#43
Methyl Methacrylate
Concen: 9.371 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

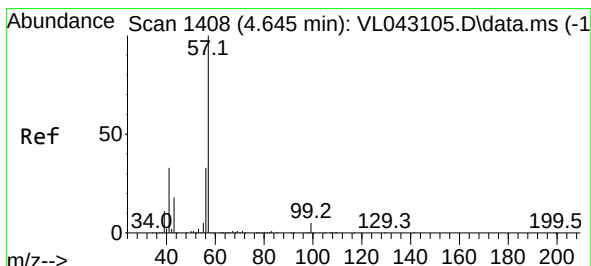
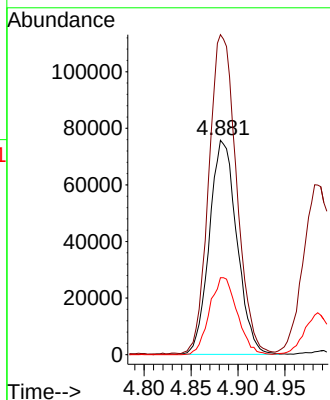
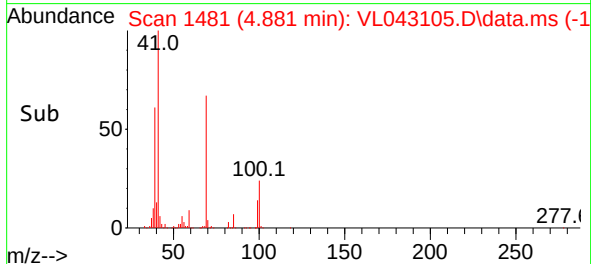
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



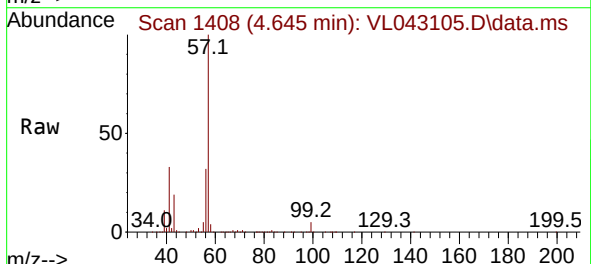
Tgt Ion: 69 Resp: 15392
Ion Ratio Lower Upper
69 100
41 149.8 120.5 180.7
100 36.2 29.0 43.4

Manual Integrations
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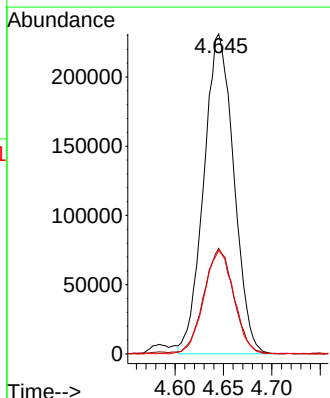
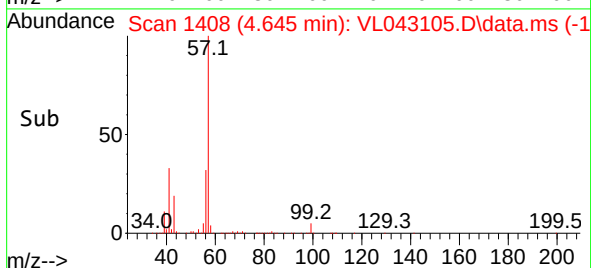
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

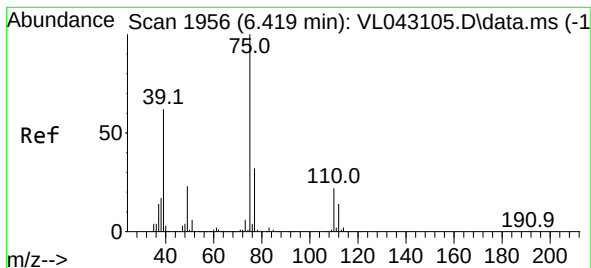


#44
2,2,4-Trimethylpentane
Concen: 9.273 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion: 57 Resp: 499148
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 32.1 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.620 ppbv

RT: 6.419 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 157850

Ion Ratio Lower Upper

75 100

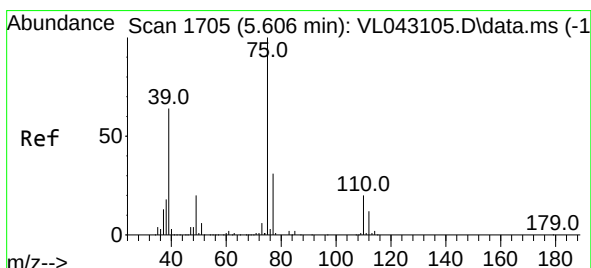
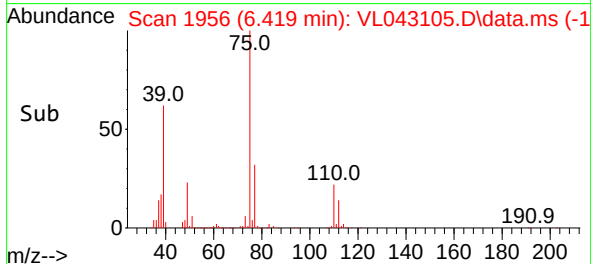
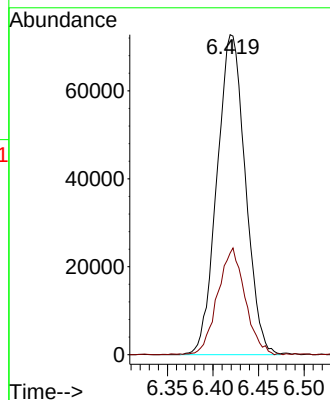
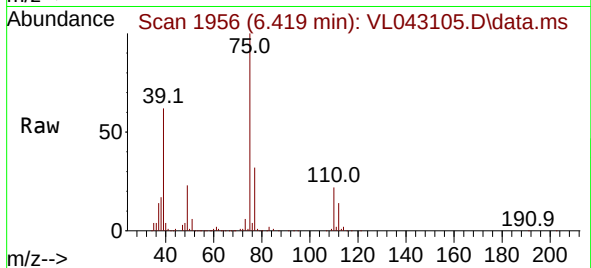
77 31.8 25.4 38.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

cis-1,3-Dichloropropene

Concen: 9.525 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

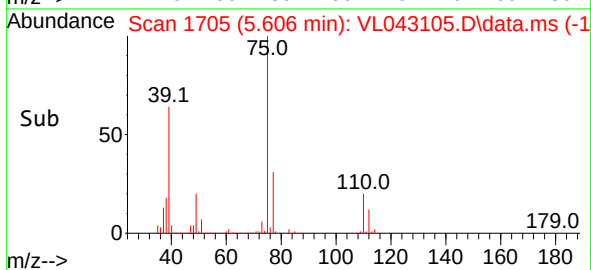
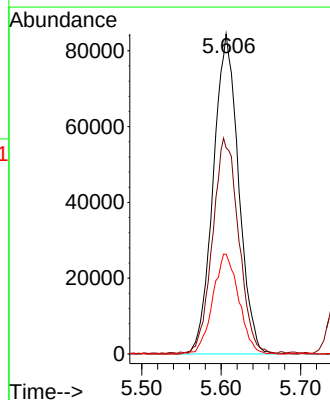
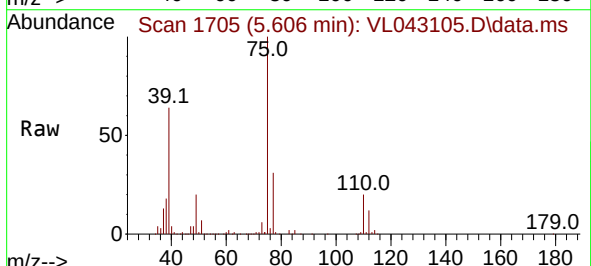
Tgt Ion: 75 Resp: 186533

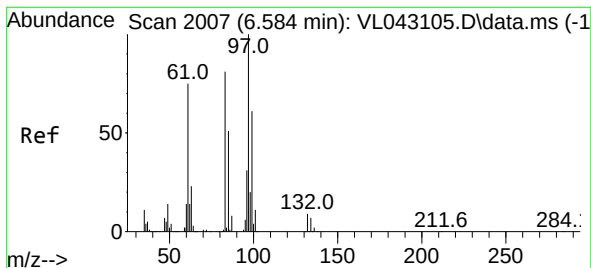
Ion Ratio Lower Upper

75 100

39 63.8 51.0 76.6

77 31.2 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.082 ppbv

RT: 6.584 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VL043105.D

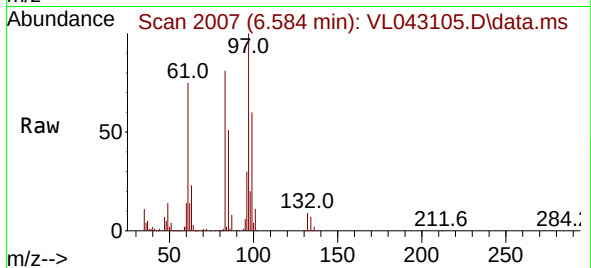
Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



Tgt Ion: 97 Resp: 115419

Ion Ratio Lower Upper

97 100

83 80.7 64.6 96.8

85 50.7 40.6 60.8

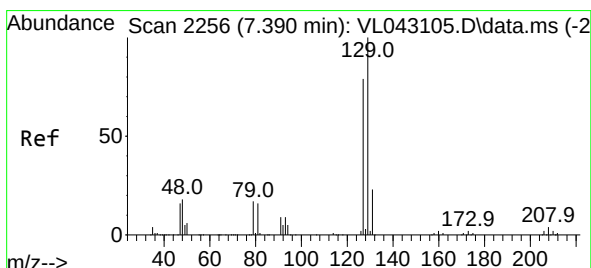
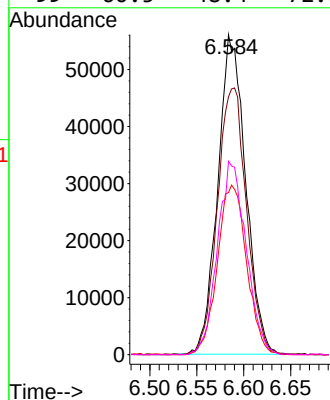
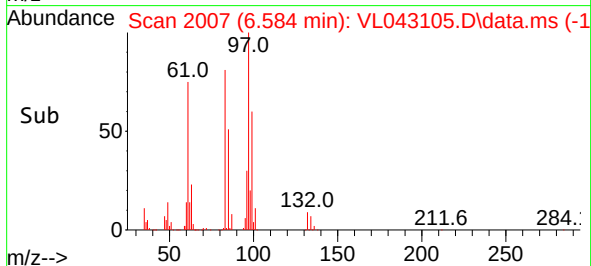
99 60.5 48.4 72.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 9.476 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VL043105.D

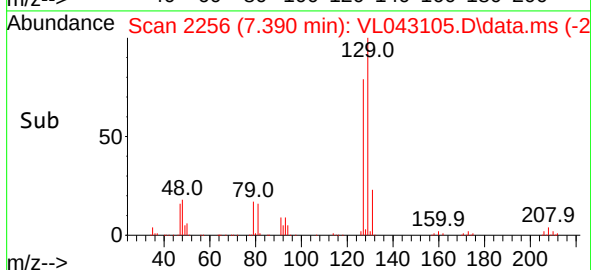
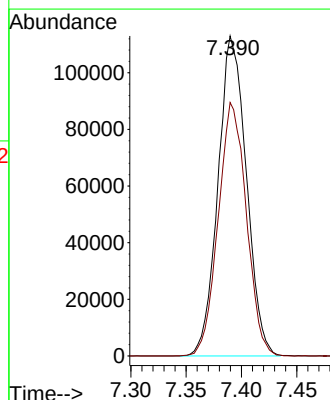
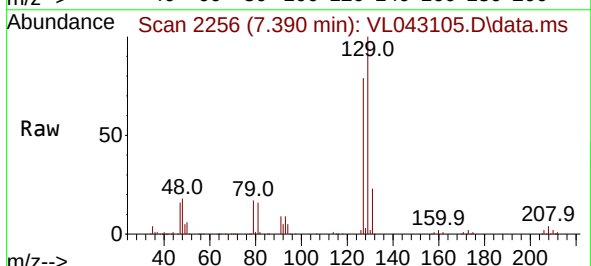
Acq: 14 Oct 2025 10:31

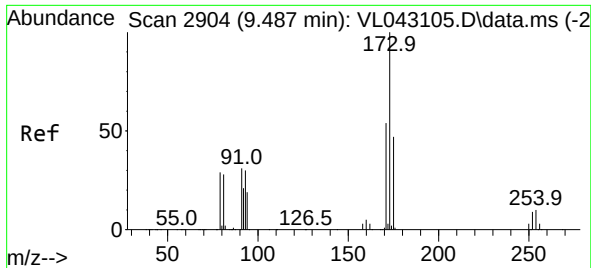
Tgt Ion:129 Resp: 201349

Ion Ratio Lower Upper

129 100

127 78.6 39.3 117.9





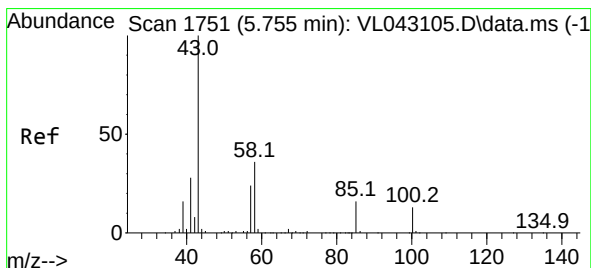
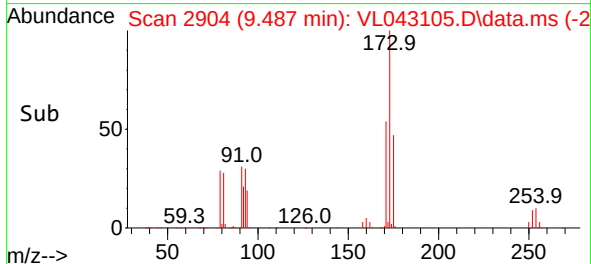
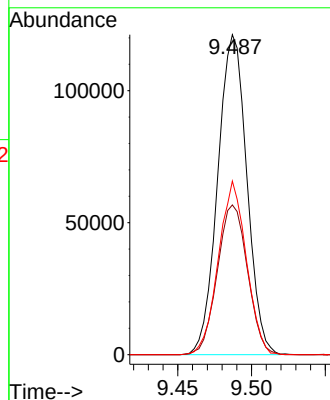
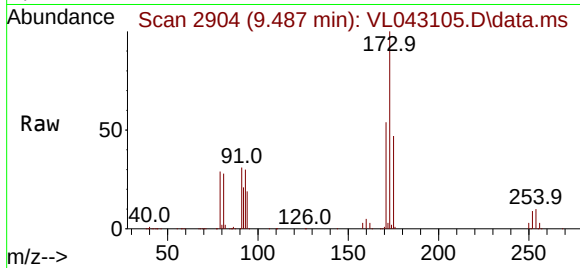
#49
Bromoform
Concen: 9.633 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 16637
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
171 52.1 41.7 62.5

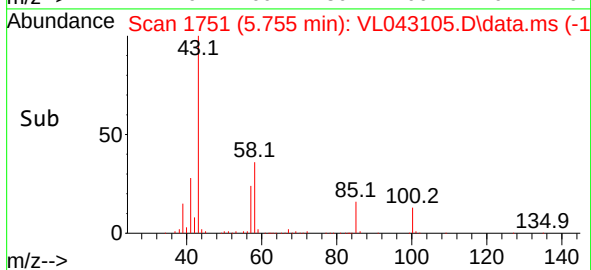
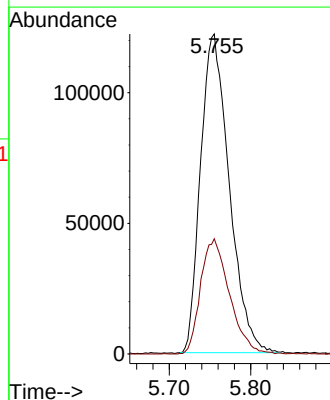
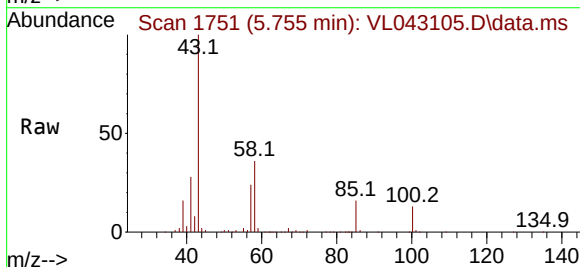
Manual Integrations
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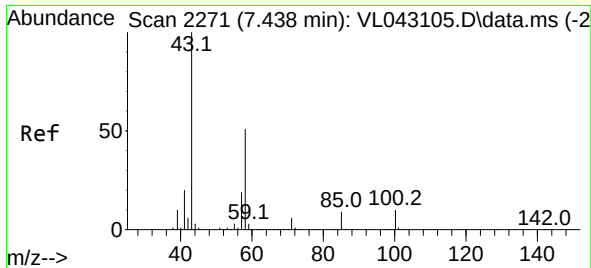
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50
4-Methyl-2-Pentanone
Concen: 9.362 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 298401
Ion Ratio Lower Upper
43 100
58 36.3 29.1 43.7





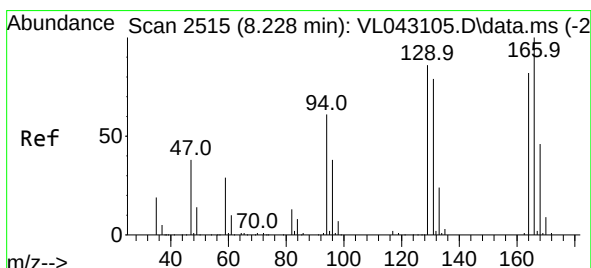
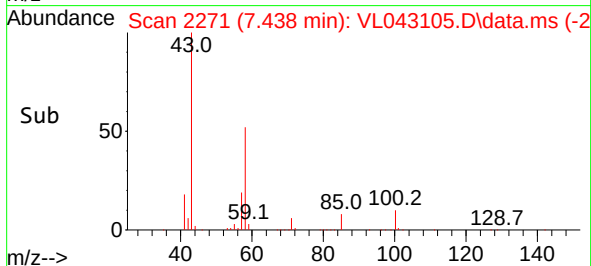
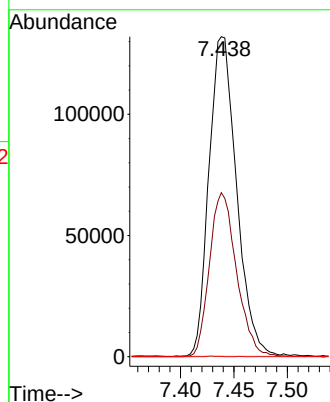
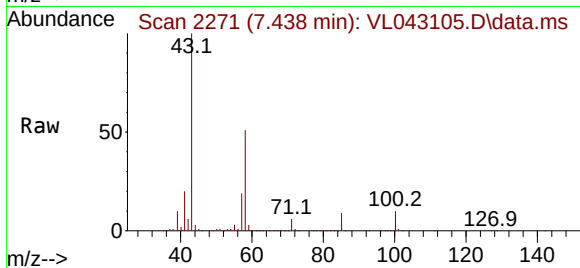
#51
2-Hexanone
Concen: 9.940 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 23639
Ion Ratio Lower Upper
43 100
58 50.6 40.4 60.6
98 0.1 0.1 0.1

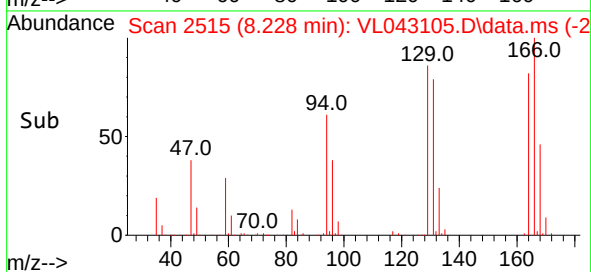
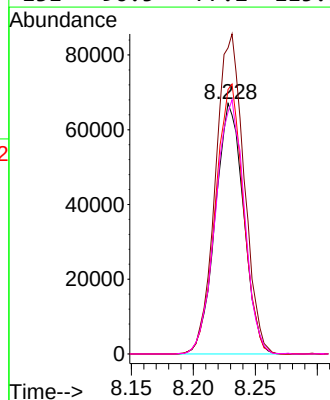
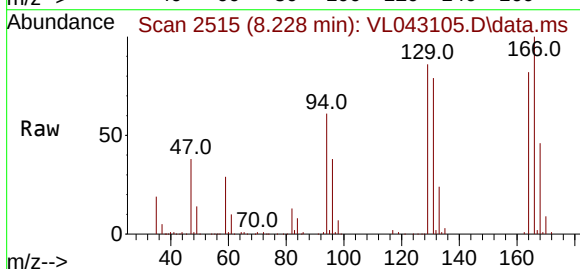
Manual Integrations
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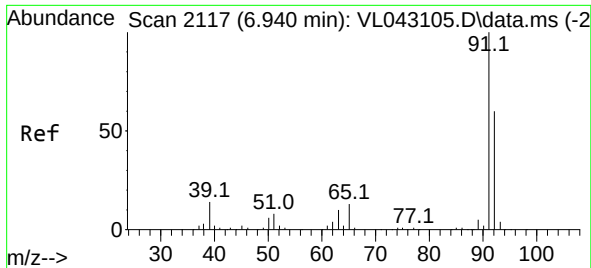
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 9.192 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

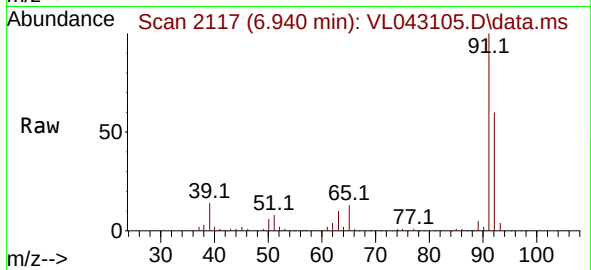
Tgt Ion:164 Resp: 106710
Ion Ratio Lower Upper
164 100
166 122.0 97.6 146.4
129 105.6 84.5 126.7
131 96.5 77.2 115.8





#53
Toluene
Concen: 9.266 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

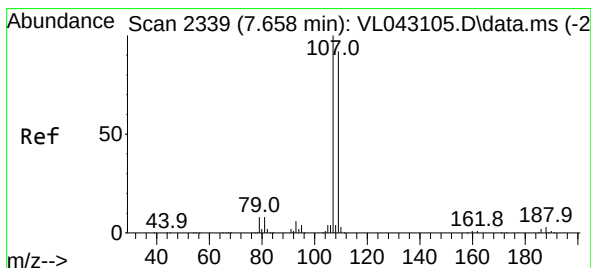
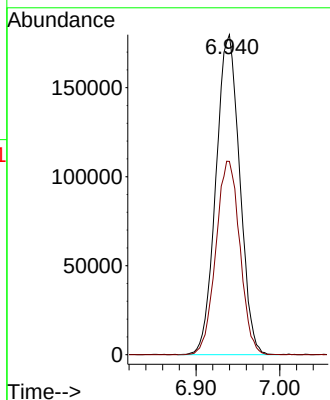
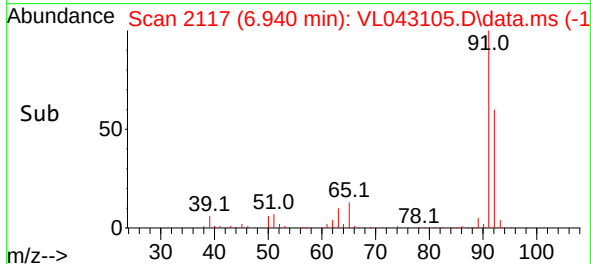
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



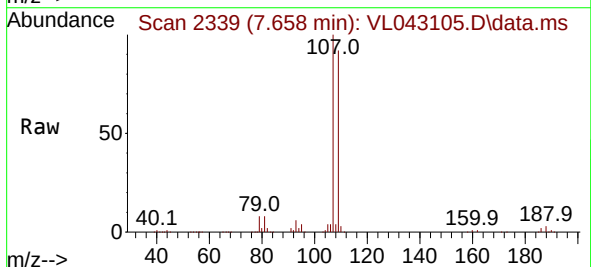
Tgt Ion: 91 Resp: 35400
Ion Ratio Lower Upper
91 100
92 61.0 48.8 73.2

Manual Integrations
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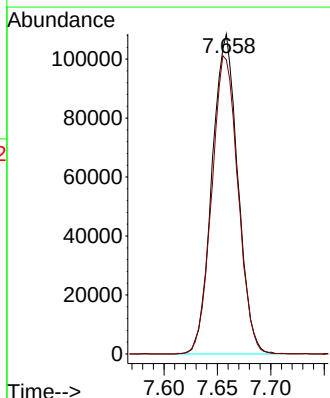
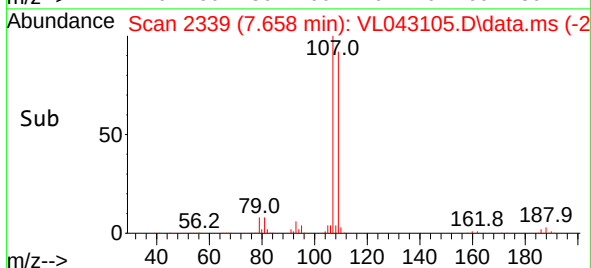
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

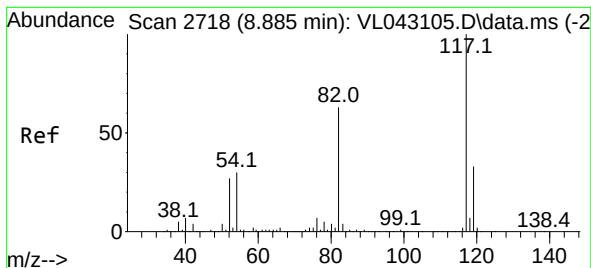


#54
1,2-Dibromoethane
Concen: 9.080 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion:107 Resp: 182074
Ion Ratio Lower Upper
107 100
109 91.8 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

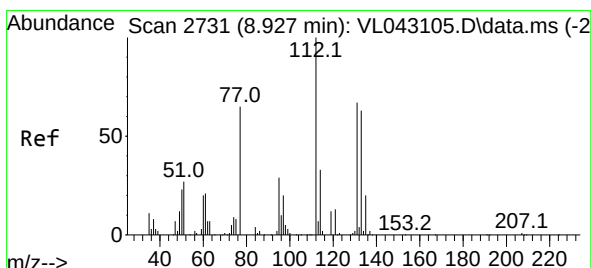
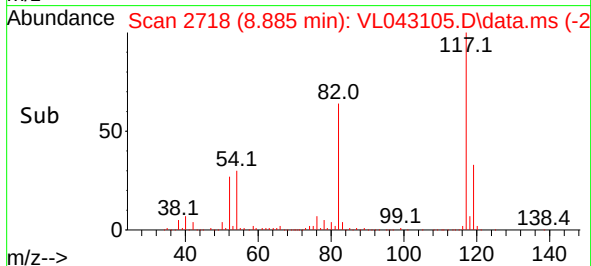
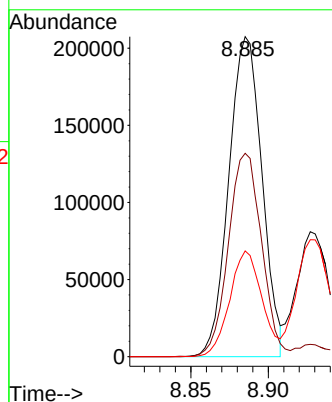
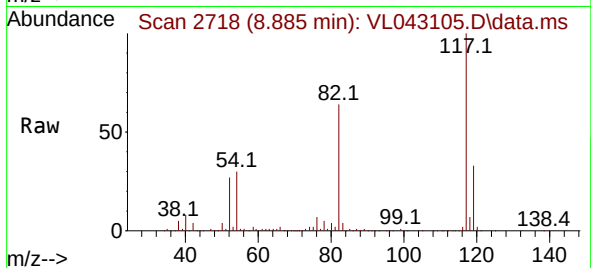
Tgt Ion:117 Resp: 309230

Ion	Ratio	Lower	Upper
117	100		
82	67.3	53.8	80.8
119	33.4	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.367 ppbv

RT: 8.927 min Scan# 2731

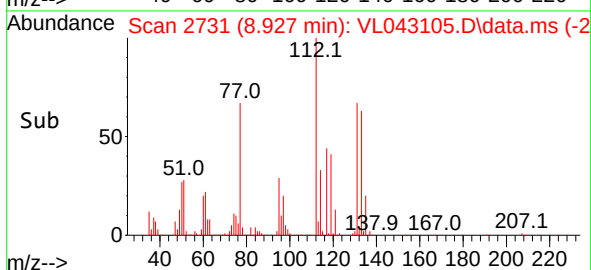
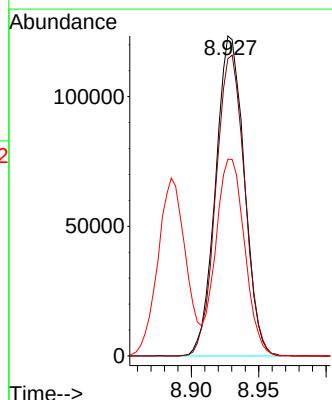
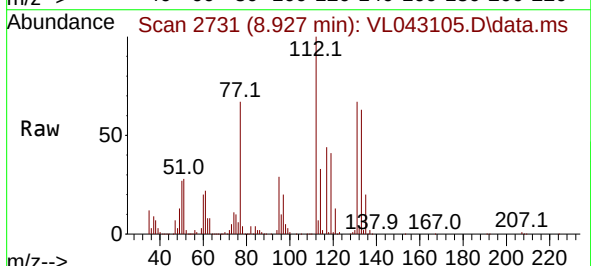
Delta R.T. 0.000 min

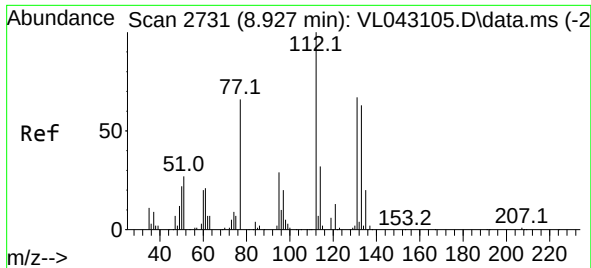
Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.7	113.5
119	63.3	50.6	76.0





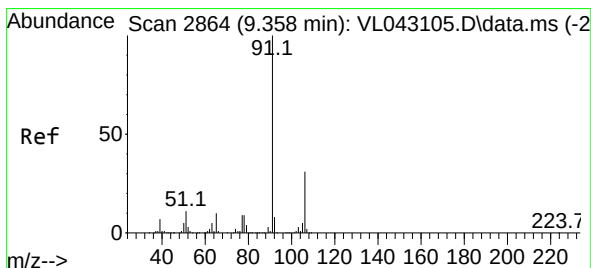
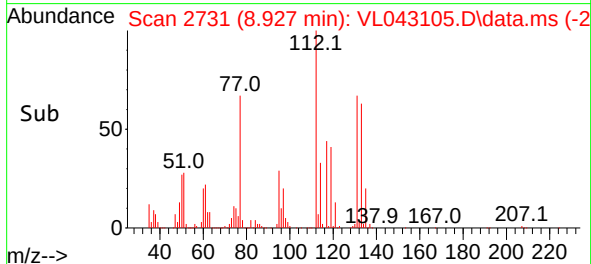
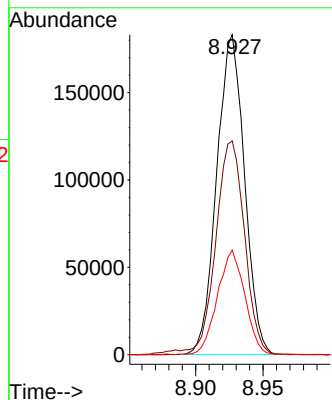
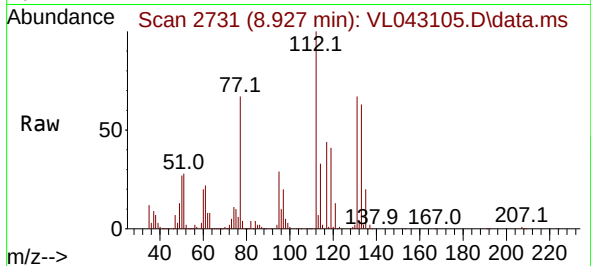
#57
Chlorobenzene
Concen: 9.076 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 262560
Ion Ratio Lower Upper
112 100
77 66.6 53.3 79.9
114 32.5 29.3 35.8

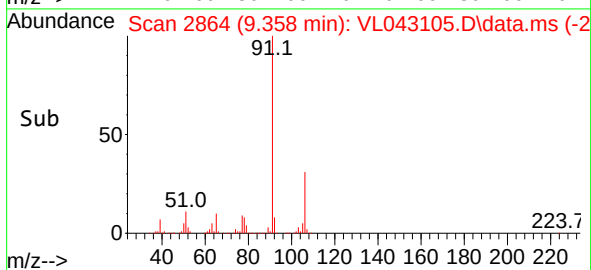
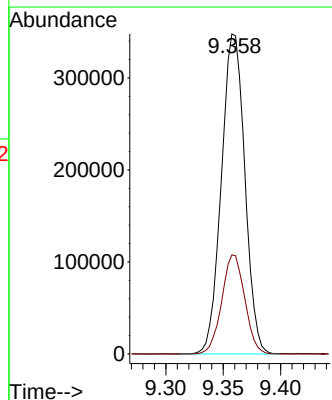
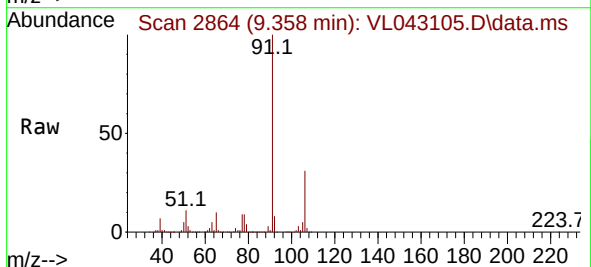
Manual Integrations
APPROVED

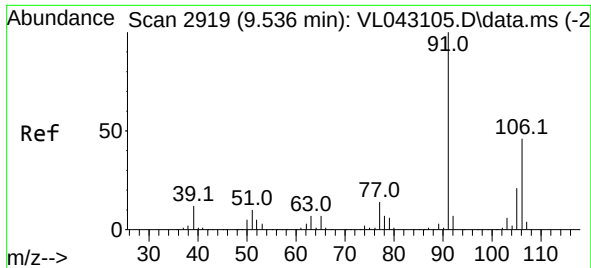
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 9.241 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 494344
Ion Ratio Lower Upper
91 100
106 31.0 24.8 37.2





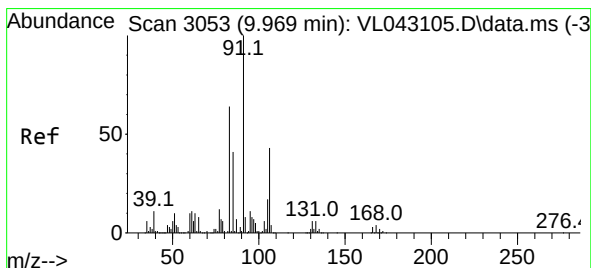
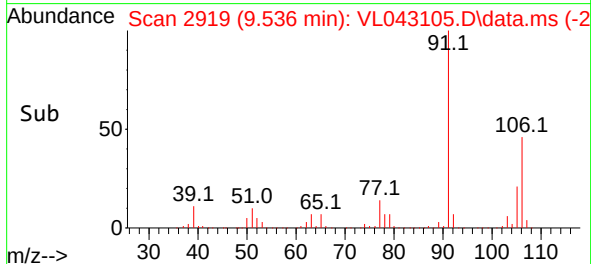
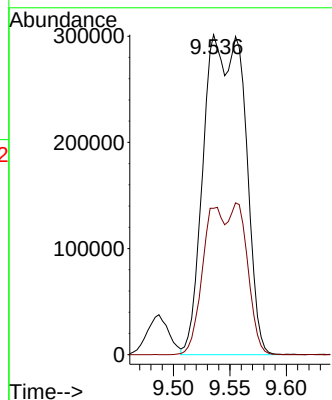
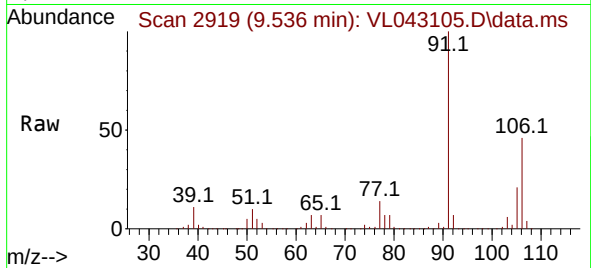
#59
m/p-Xylene
Concen: 18.067 ppbv m
RT: 9.536 min Scan# 2919
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 765374
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

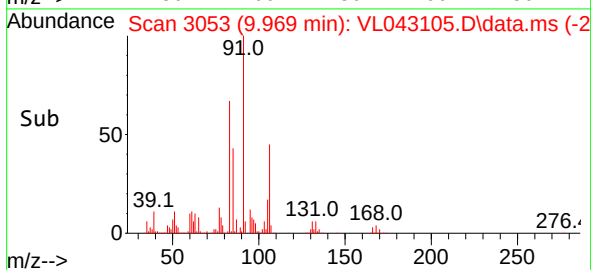
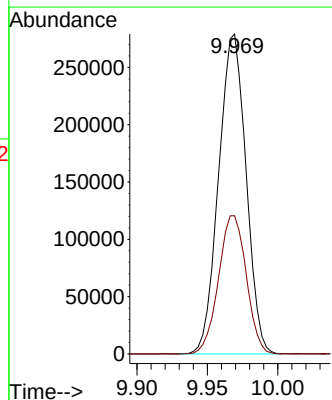
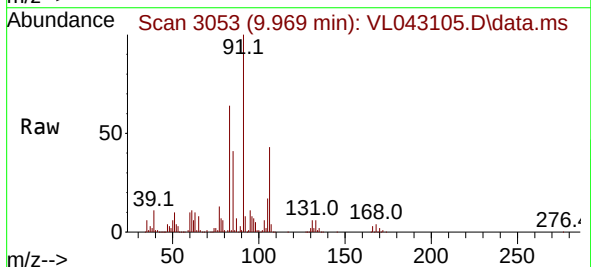
Manual Integrations
APPROVED

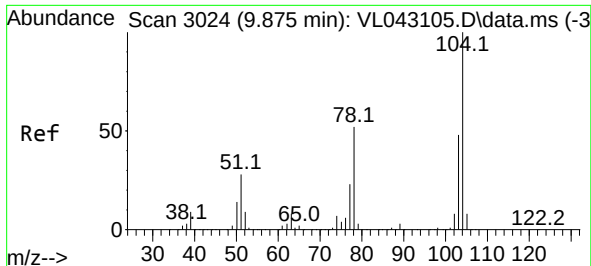
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#60
o-Xylene
Concen: 9.053 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

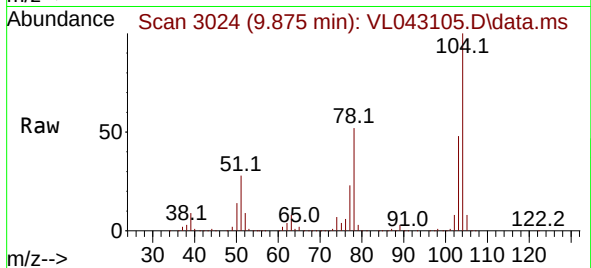
Tgt Ion: 91 Resp: 378462
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.8





#61
Styrene
Concen: 9.477 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

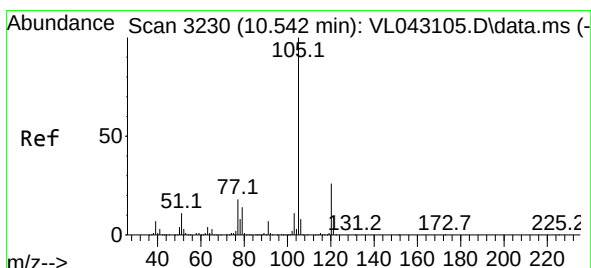
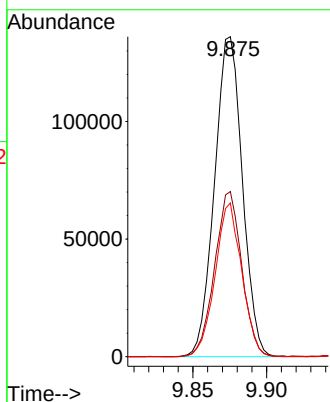
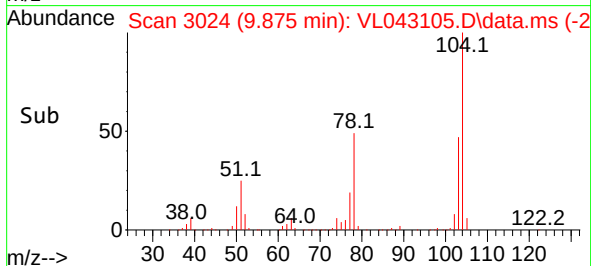
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



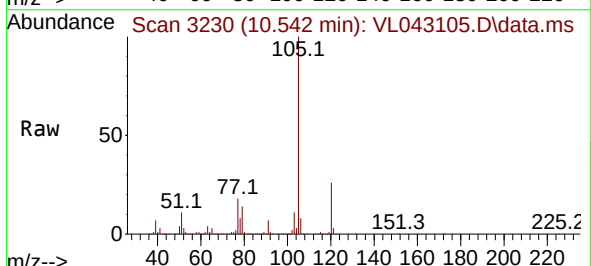
Tgt Ion:104 Resp: 178859
Ion Ratio Lower Upper
104 100
78 50.2 40.2 60.2
103 46.1 36.9 55.3

Manual Integrations
APPROVED

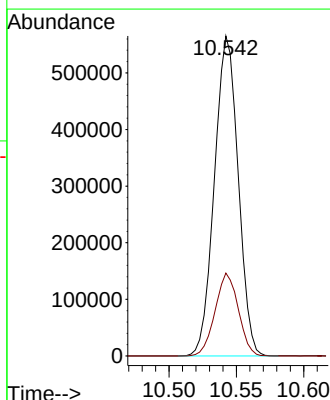
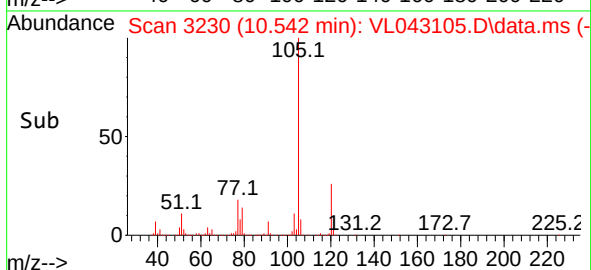
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

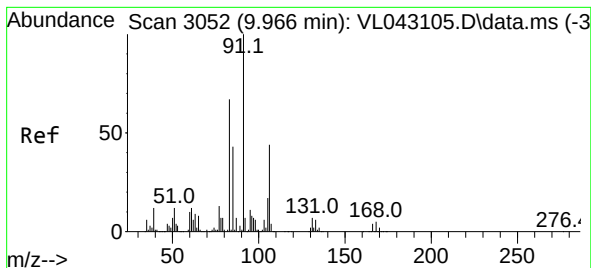


#62
Isopropylbenzene
Concen: 9.173 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



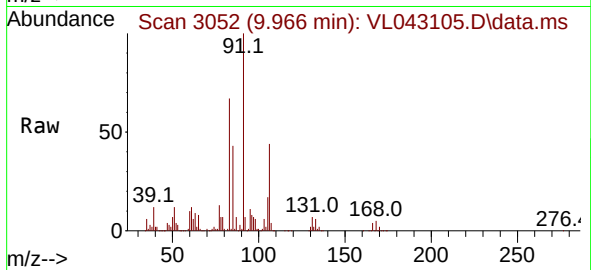
Tgt Ion:105 Resp: 692992
Ion Ratio Lower Upper
105 100
120 25.3 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.582 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

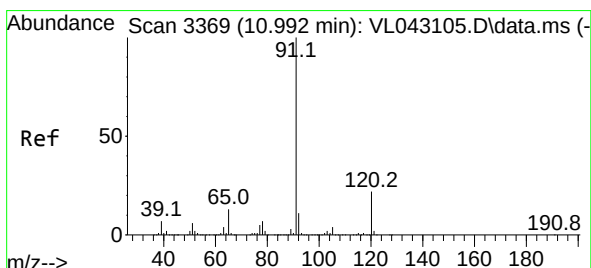
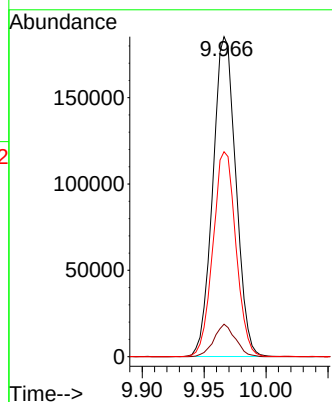
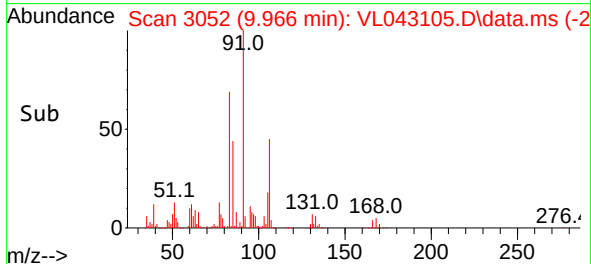
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



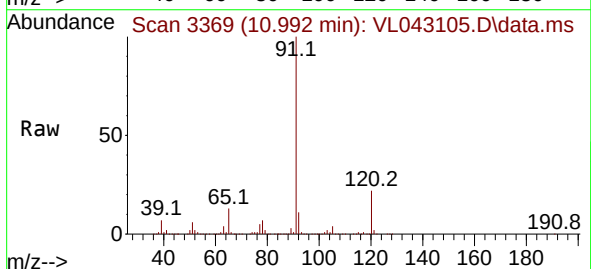
Tgt Ion: 83 Resp: 240245
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.0 32.0 96.0

Manual Integrations
APPROVED

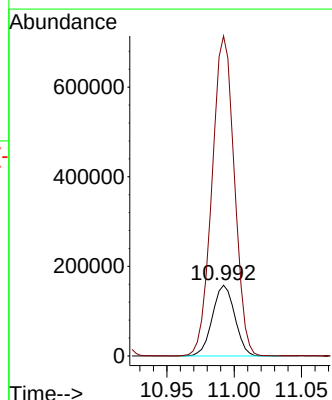
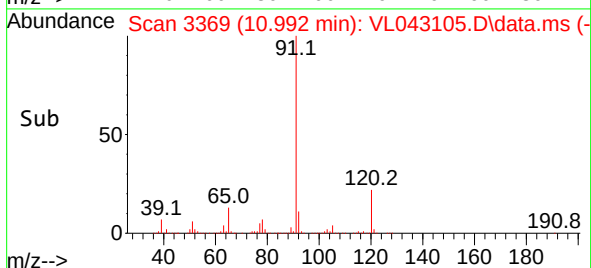
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

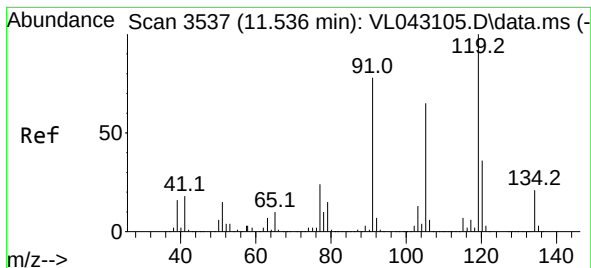


#64
n-propylbenzene
Concen: 9.112 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



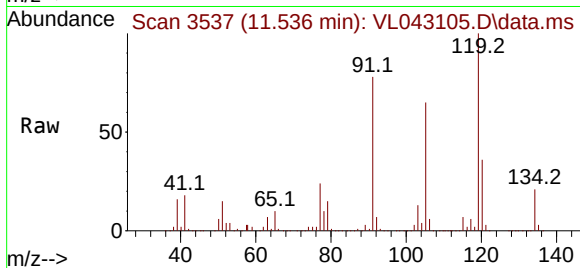
Tgt Ion:120 Resp: 182233
Ion Ratio Lower Upper
120 100
91 452.0 361.6 542.4





#65
tert-Butylbenzene
Concen: 8.810 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

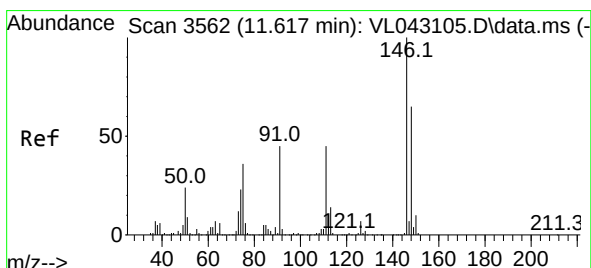
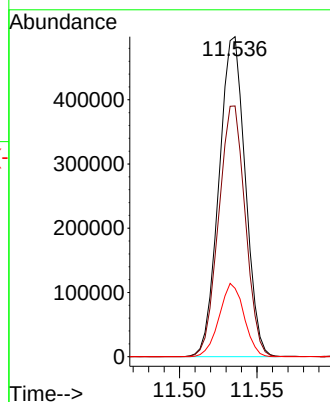
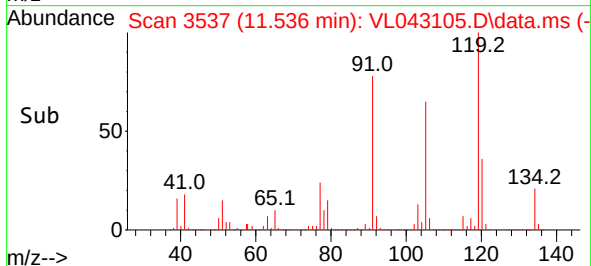
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 119 Resp: 587750
Ion Ratio Lower Upper
119 100
91 79.1 63.4 95.0
134 21.6 17.3 25.9

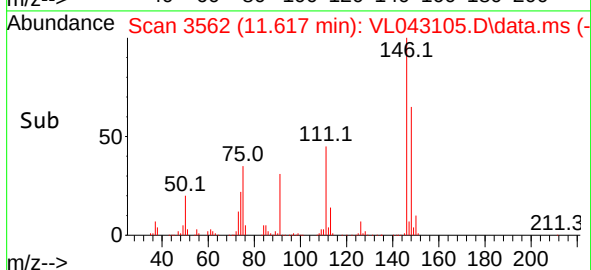
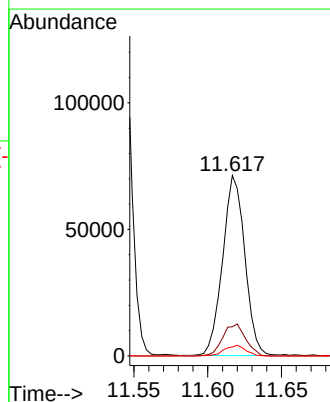
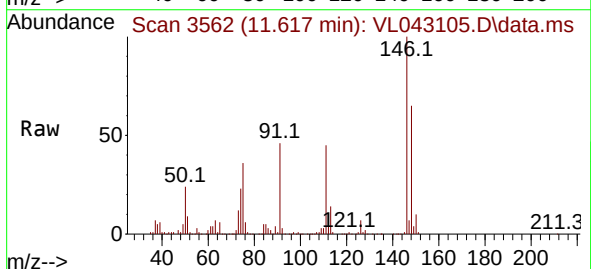
Manual Integrations
APPROVED

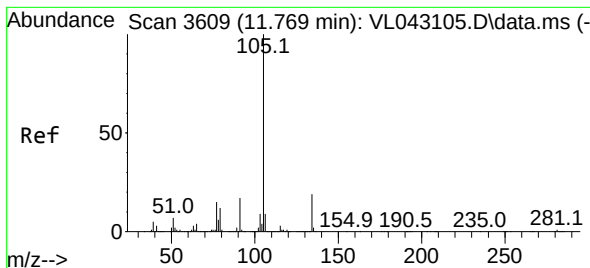
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
Benzyl Chloride
Concen: 10.009 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

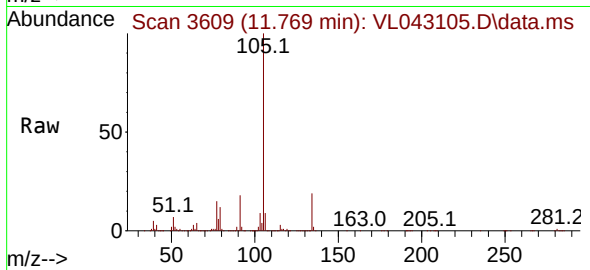
Tgt Ion: 91 Resp: 74574
Ion Ratio Lower Upper
91 100
126 18.3 14.6 22.0
128 5.7 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 8.809 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

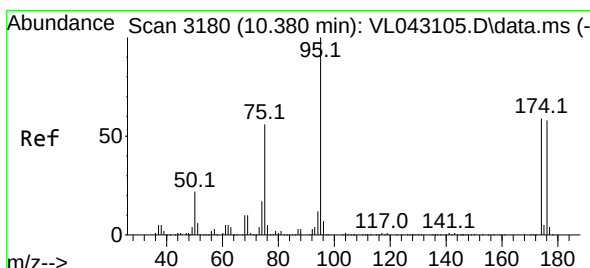
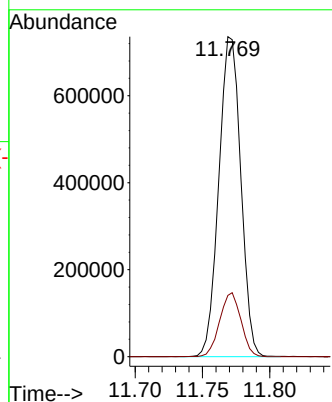
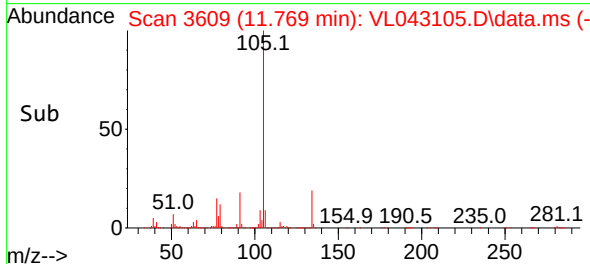
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



Tgt Ion:105 Resp: 834052
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

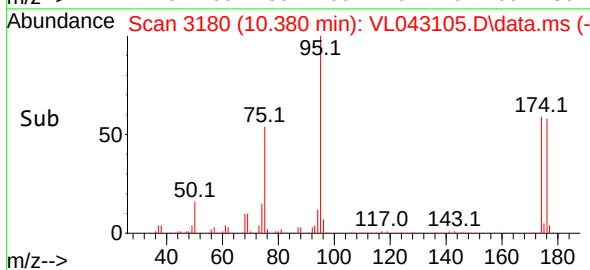
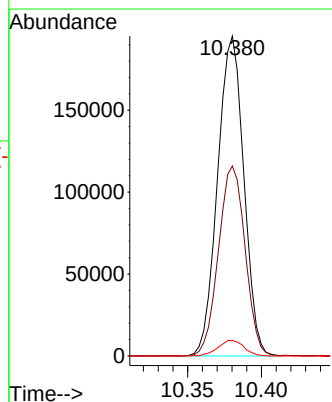
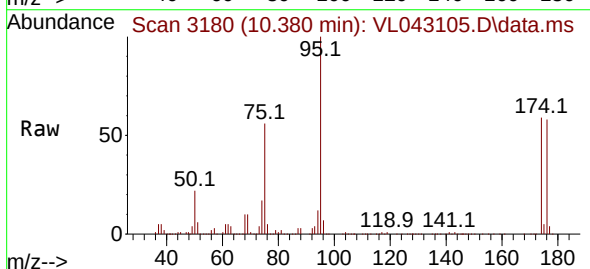
Manual Integrations
 APPROVED

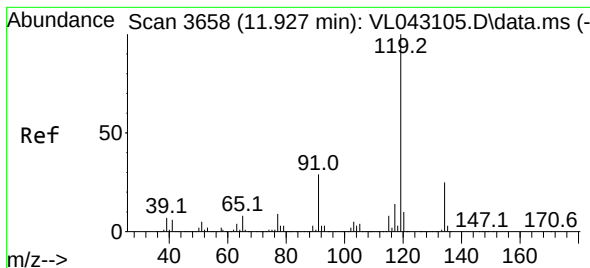
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.046 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

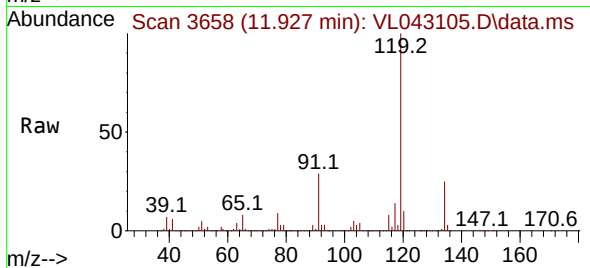
Tgt Ion: 95 Resp: 241468
 Ion Ratio Lower Upper
 95 100
 174 60.4 48.3 72.5
 175 4.8 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.955 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

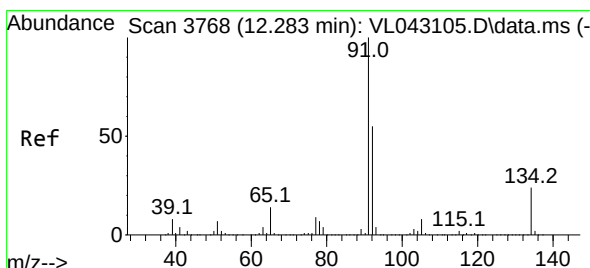
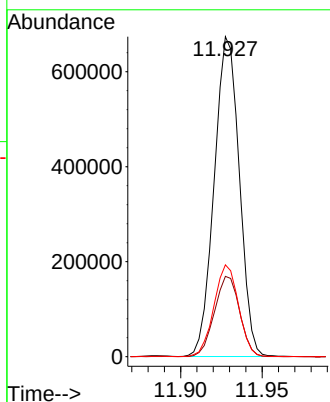
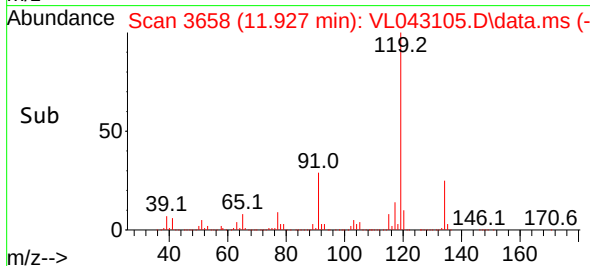
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



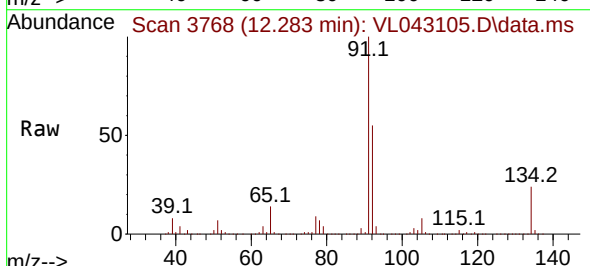
Tgt Ion: 119 Resp: 720431
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 28.3 22.6 33.8

Manual Integrations
APPROVED

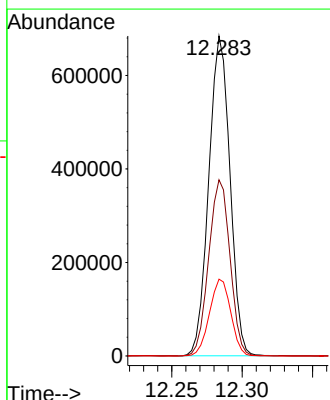
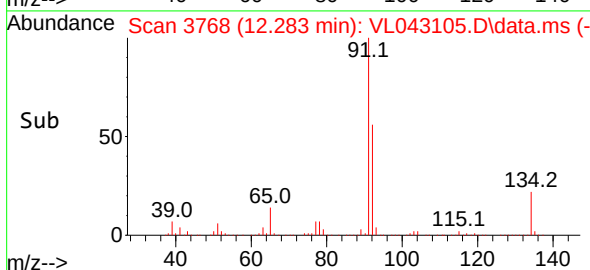
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

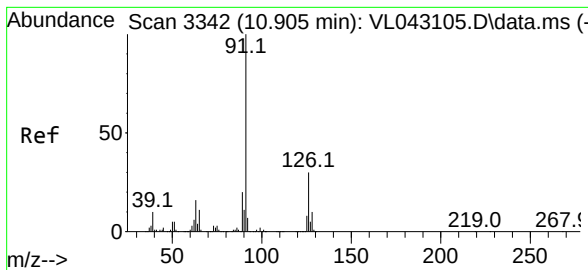


#70
n-Butylbenzene
Concen: 9.053 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion: 91 Resp: 717743
Ion Ratio Lower Upper
91 100
92 55.6 44.5 66.7
134 24.1 19.3 28.9





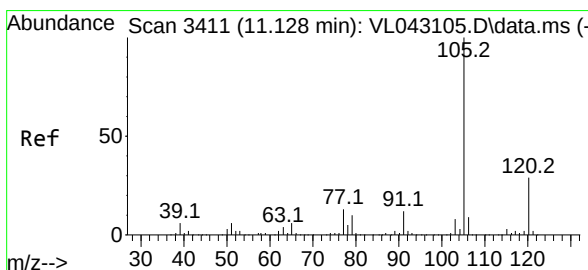
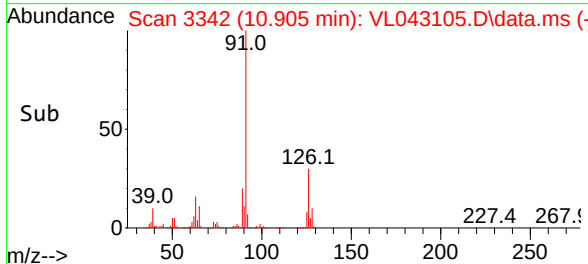
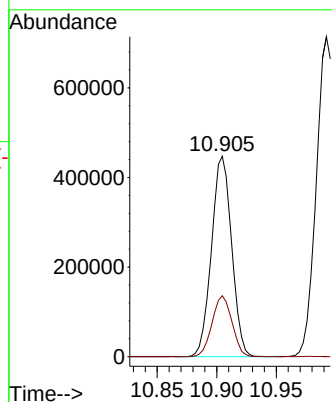
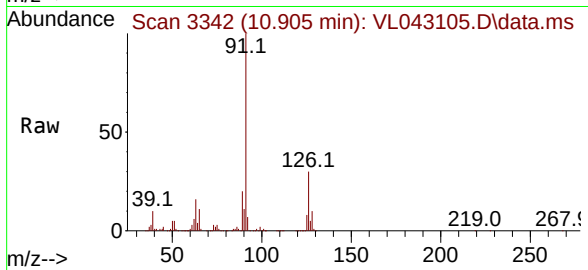
#71
2-Chlorotoluene
Concen: 9.111 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 52496
Ion Ratio Lower Upper
91 100
126 30.0 12.0 48.0

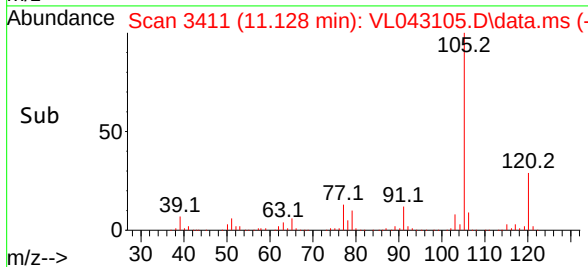
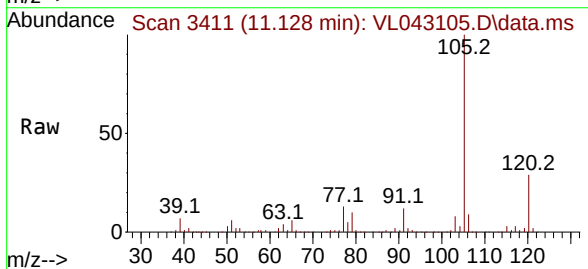
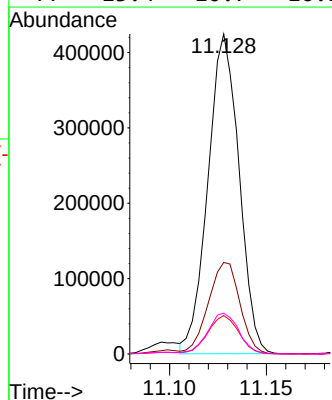
Manual Integrations
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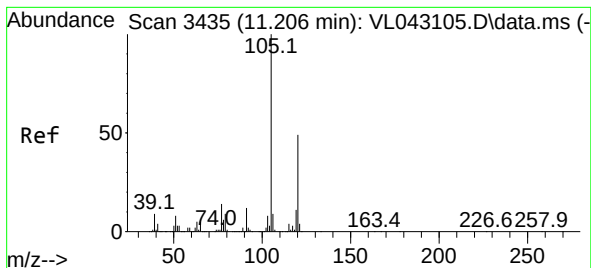
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 9.202 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 473042
Ion Ratio Lower Upper
105 100
120 30.3 24.2 36.4
91 12.5 10.0 15.0
77 13.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.195 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 389818

Ion Ratio Lower Upper

105 100

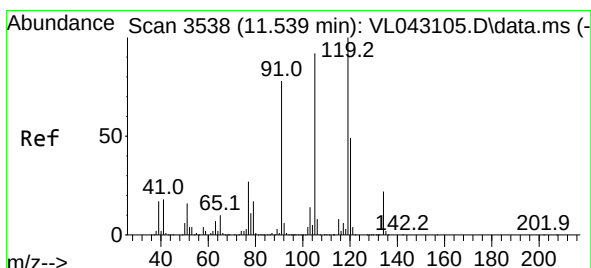
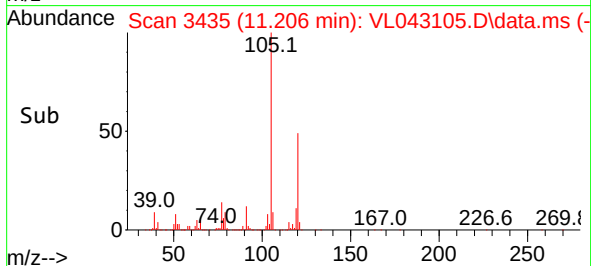
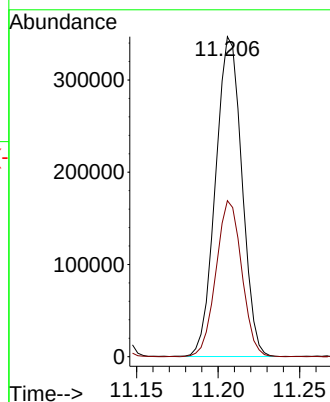
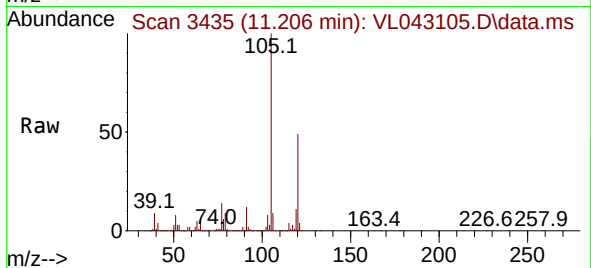
120 48.8 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.676 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619

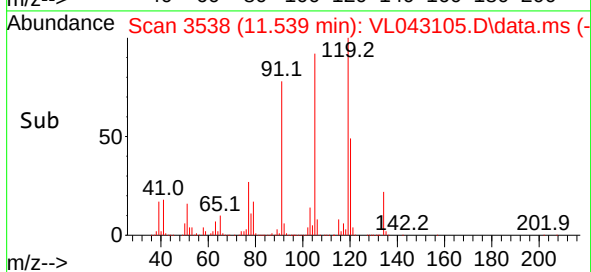
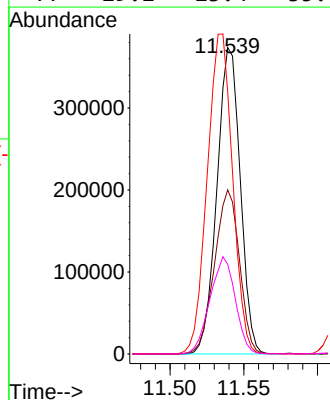
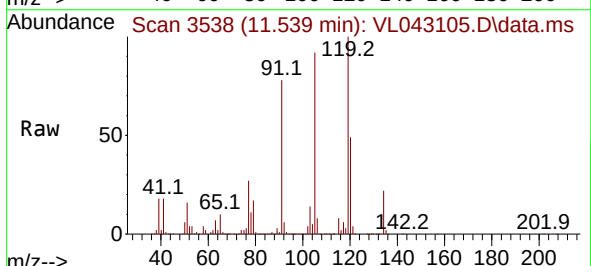
Ion Ratio Lower Upper

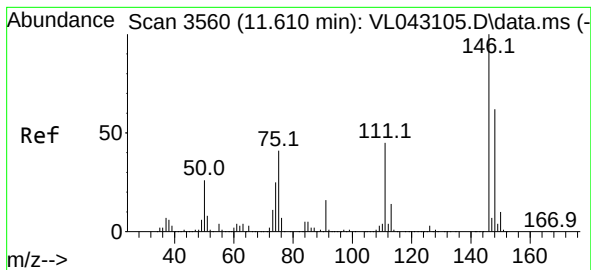
105 100

120 53.5 42.8 64.2

91 85.4 68.3 102.5

77 29.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 9.192 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 252920

Ion Ratio Lower Upper

146 100

111 46.6 23.3 69.9

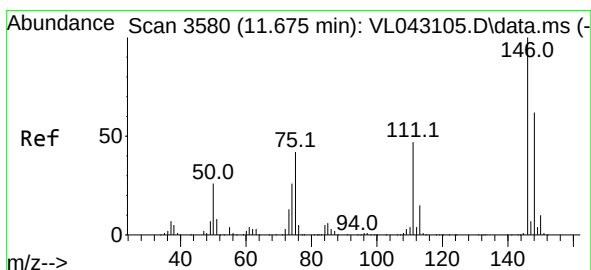
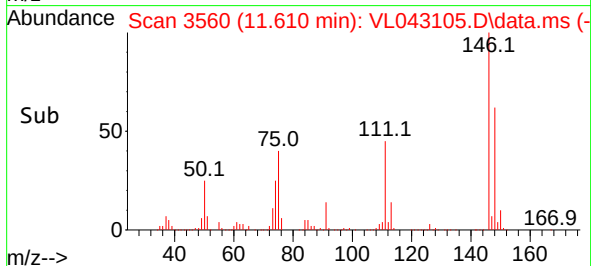
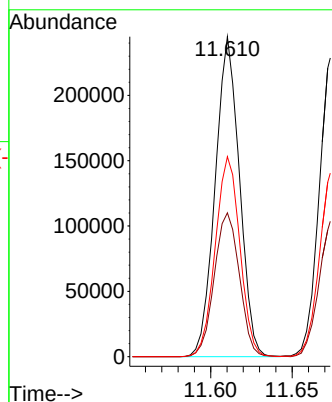
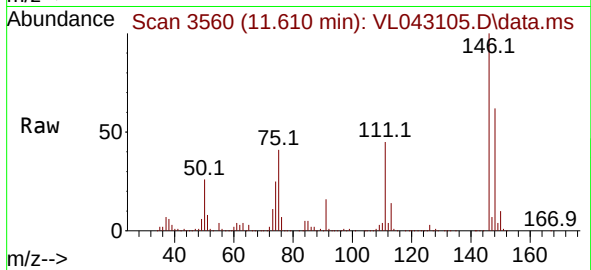
148 63.3 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 9.171 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

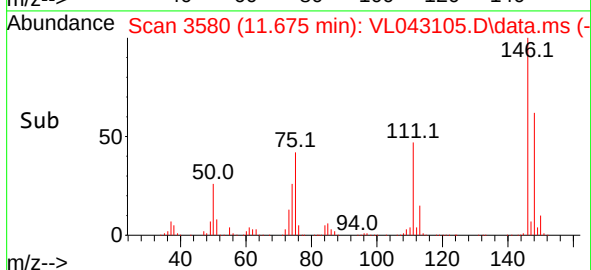
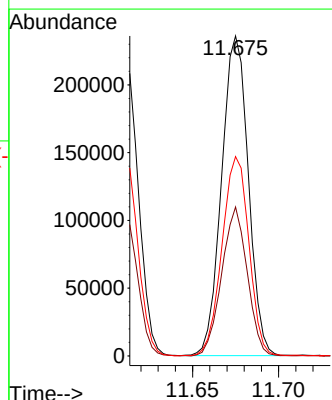
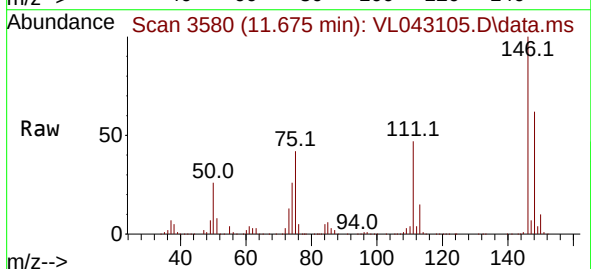
Tgt Ion:146 Resp: 254461

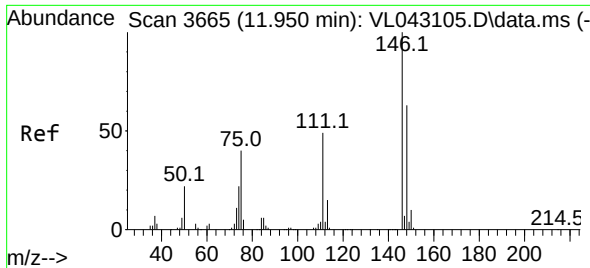
Ion Ratio Lower Upper

146 100

111 44.7 22.4 67.0

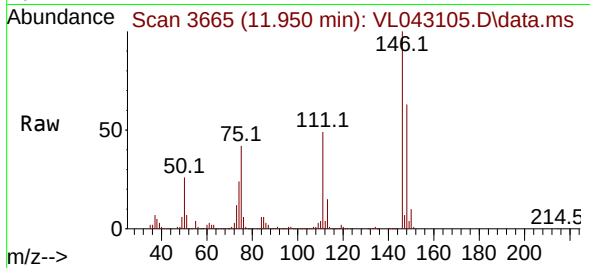
148 63.1 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 8.893 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

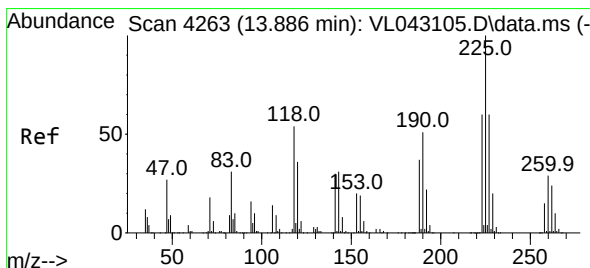
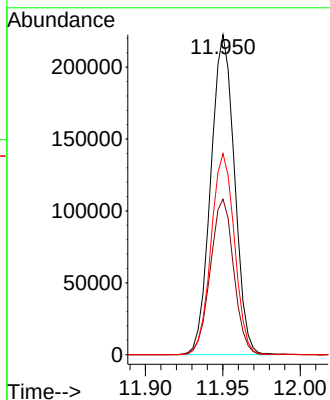
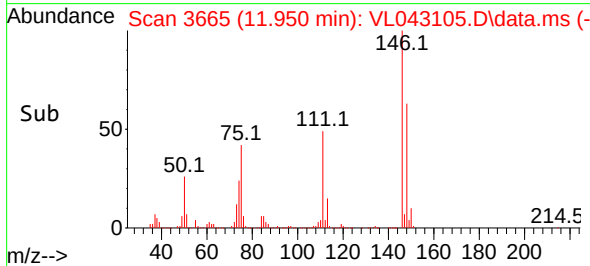
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



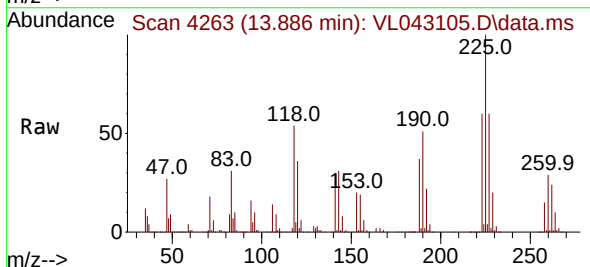
Tgt Ion:146 Resp: 236724
Ion Ratio Lower Upper
146 100
111 48.0 24.0 72.0
148 62.2 31.1 93.3

Manual Integrations
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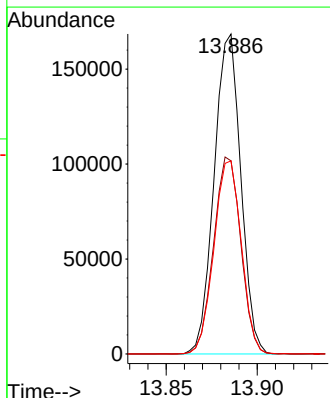
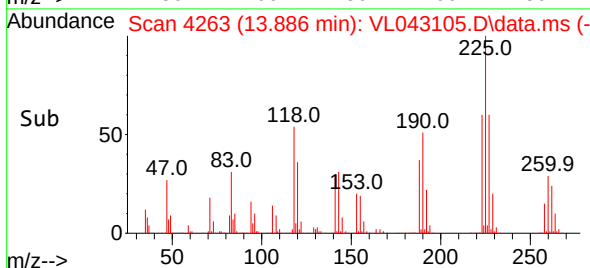
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

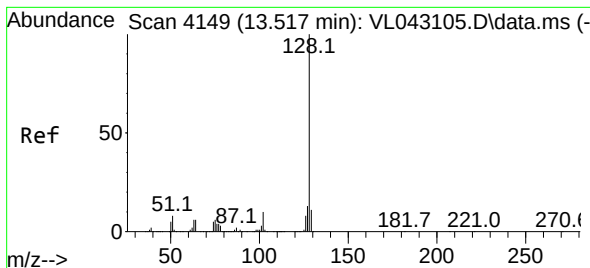


#78
Hexachloro-1,3-Butadiene
Concen: 8.334 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion:225 Resp: 171777
Ion Ratio Lower Upper
225 100
223 62.8 50.2 75.4
227 62.0 49.6 74.4





#79

Naphthalene

Concen: 9.972 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

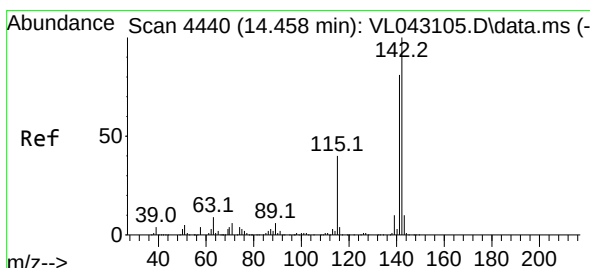
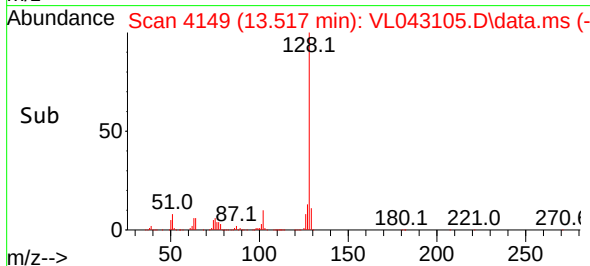
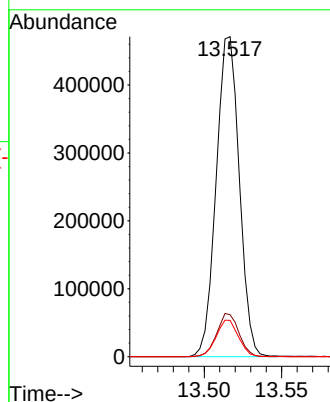
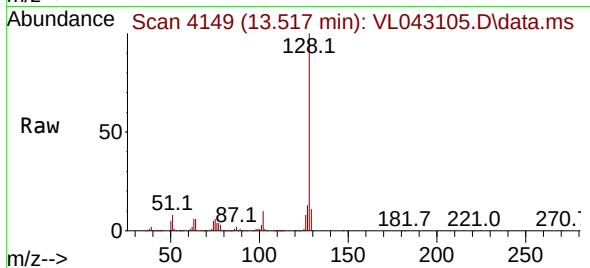
Tgt Ion:128 Resp: 488672

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.4	9.1	13.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 11.431 ppbv

RT: 14.458 min Scan# 4440

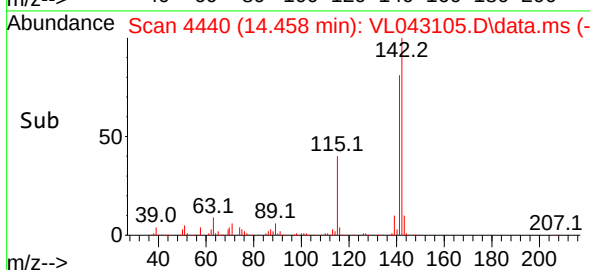
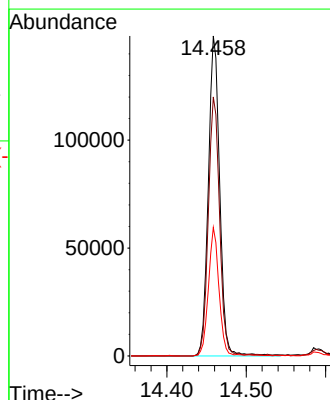
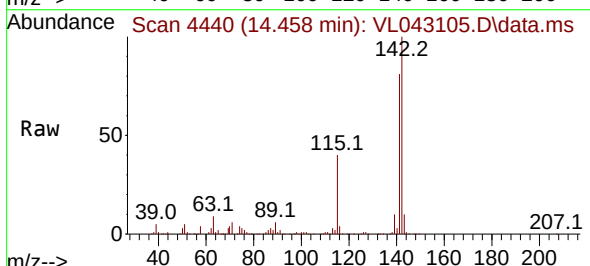
Delta R.T. 0.000 min

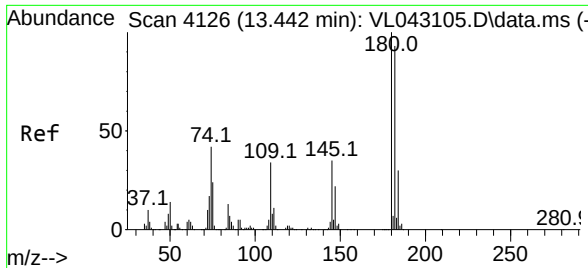
Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:142 Resp: 147897

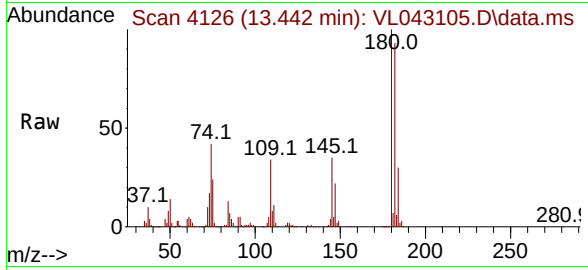
Ion	Ratio	Lower	Upper
142	100		
141	80.8	64.6	97.0
115	37.8	30.2	45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.582 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

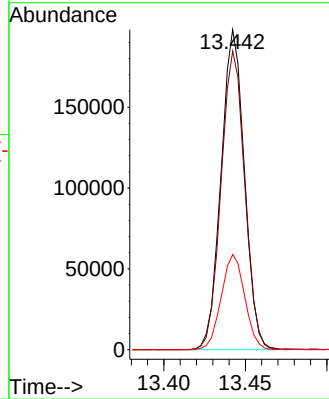
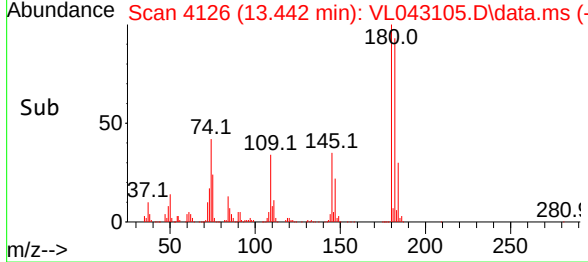


Tgt Ion:180 Resp: 197210

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.5	113.3
184	29.9	23.9	35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	105309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	342939	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	313603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 244329 10.024 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	31189	2.083	ppbv	99
3) Chlorodifluoromethane	1.476	51	33217	2.050	ppbv	96
4) Chloromethane	1.535	50	12185	2.054	ppbv	93
5) Vinyl Chloride	1.583	62	11114	1.911	ppbv	92
6) Bromomethane	1.671	94	6672	2.092	ppbv	95
7) Chloroethane	1.706	64	5008	2.106	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	25897	2.140	ppbv	100
9) Propene	1.486	41	15177	2.112	ppbv	94
10) Heptane	4.982	43	42790	2.078	ppbv	97
11) Trichlorofluoromethane	1.881	101	31114	2.125	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	25091	2.128	ppbv	100
13) Ethanol	1.722	45	6363	2.394	ppbv	95
14) Bromoethene	1.784	108	9087	2.075	ppbv	97
15) Acetone	1.836	43	31756	2.225	ppbv	97
16) 1,3-Butadiene	1.612	39	13668	2.021	ppbv	99
17) tert-Butyl alcohol	2.043	59	40738	2.091	ppbv	96
18) 1,1-Dichloroethene	2.036	96	10794	2.100	ppbv	99
19) Isopropyl Alcohol	1.888	45	18326	2.073	ppbv #	40
20) Methylene Chloride	2.062	84	10694	1.906	ppbv #	82
21) Allyl Chloride	2.098	41	21902	2.090	ppbv	93
22) trans-1,2-Dichloroethene	2.344	96	12511	2.036	ppbv	98
23) Vinyl Acetate	2.464	43	48282	2.322	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	25066	2.112	ppbv	99
25) Ethyl Acetate	2.836	43	74929	2.129	ppbv	99
26) Hexane	2.829	57	32595	2.010	ppbv	93
27) Carbon Disulfide	2.153	76	31705	2.134	ppbv	95
28) Methyl tert-Butyl Ether	2.441	73	16207	2.196	ppbv	98
29) Chloroform	2.849	83	48367	2.058	ppbv	99
30) Cyclohexane	3.859	84	29270	2.069	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	31925	2.061	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	51049	2.086	ppbv	98
34) 2-Butanone	2.558	43	48458	2.090	ppbv	99
35) Carbon Tetrachloride	3.765	117	51073	2.071	ppbv	97
36) Benzene	3.658	78	70156	2.172	ppbv	98
37) 1,2-Dichloroethane	3.218	62	38767	2.083	ppbv	100
38) Trichloroethene	4.551	130	27272	2.024	ppbv	96
39) 1,2-Dichloropropane	4.315	63	25427	2.151	ppbv	92
40) 1,4-Dioxane	4.584	88	11102m	2.101	ppbv	
41) Tetrahydrofuran	3.059	42	26362	2.037	ppbv	98
42) Bromodichloromethane	4.496	83	54224	2.106	ppbv #	93
43) Methyl Methacrylate	4.878	69	33805	2.051	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	115417	2.137	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	34728	2.109	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

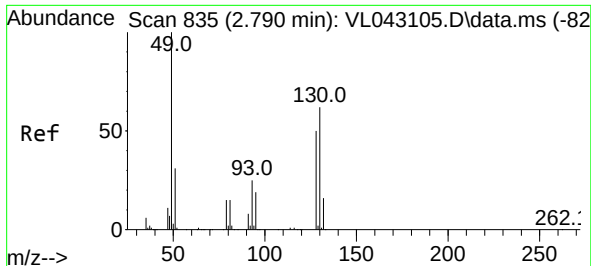
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

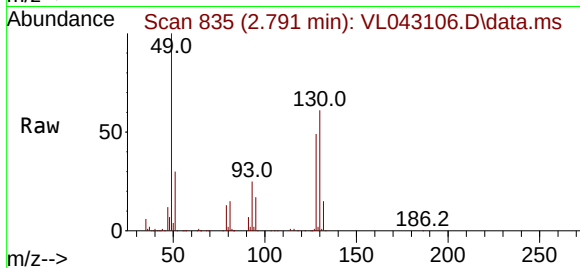
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	41365m	2.105	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	26359	2.067	ppbv	94
48) Dibromochloromethane	7.390	129	45751	2.146	ppbv	99
49) Bromoform	9.484	173	37314	2.153	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	66811	2.089	ppbv	99
51) 2-Hexanone	7.438	43	50642	2.122	ppbv #	99
52) Tetrachloroethene	8.228	164	24183	2.076	ppbv	91
53) Toluene	6.937	91	80660	2.104	ppbv	99
54) 1,2-Dibromoethane	7.655	107	42320	2.103	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.924	131	41712	2.110	ppbv	94
57) Chlorobenzene	8.924	112	62714	2.138	ppbv	97
58) Ethyl Benzene	9.354	91	114403	2.109	ppbv	99
59) m/p-Xylene	9.532	91	185190m	4.311	ppbv	
60) o-Xylene	9.963	91	91223	2.152	ppbv	98
61) Styrene	9.872	104	41631	2.175	ppbv	98
62) Isopropylbenzene	10.539	105	164073	2.142	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	58510	2.061	ppbv	99
64) n-propylbenzene	10.989	120	43648	2.152	ppbv	96
65) tert-Butylbenzene	11.529	119	148300	2.192	ppbv	99
66) Benzyl Chloride	11.617	91	15656	2.072	ppbv	98
67) sec-Butylbenzene	11.769	105	210525	2.193	ppbv	99
69) p-Isopropyltoluene	11.928	119	180060	2.207	ppbv	99
70) n-Butylbenzene	12.284	91	178676	2.222	ppbv	98
71) 2-Chlorotoluene	10.902	91	126551	2.166	ppbv	99
72) 4-Ethyltoluene	11.125	105	113233	2.172	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	92650	2.155	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	104352	2.169	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	62709	2.247	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	60877	2.164	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	57304	2.123	ppbv	97
78) Hexachloro-1,3-Butadiene	13.883	225	46796	2.239	ppbv	98
79) Naphthalene	13.514	128	123642	2.488	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	32308	2.462	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	50394	2.414	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

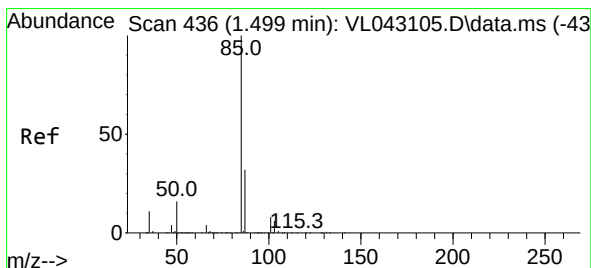
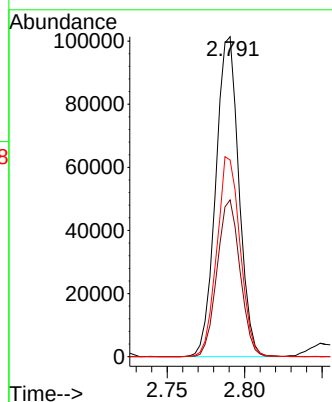
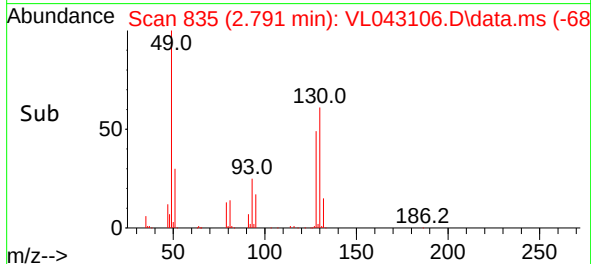
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 49 Resp: 105309
Ion Ratio Lower Upper
49 100
128 48.8 24.4 73.4
130 62.8 31.0 93.0

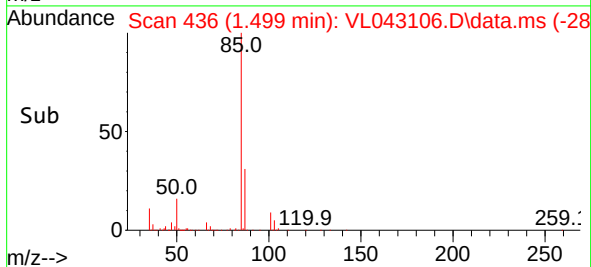
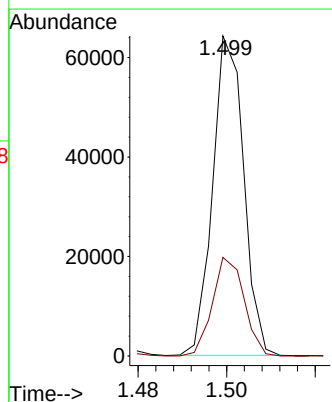
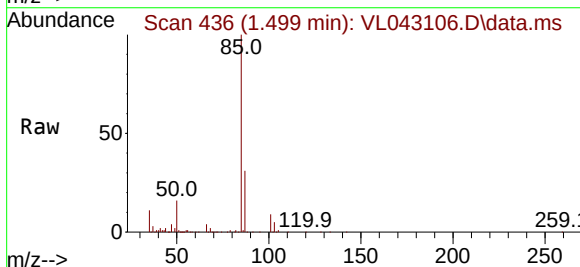
Manual Integrations
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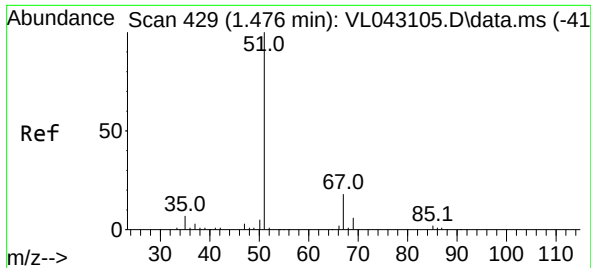
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189
Ion Ratio Lower Upper
85 100
87 30.9 25.3 37.9





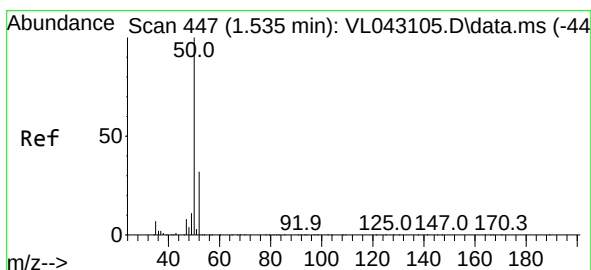
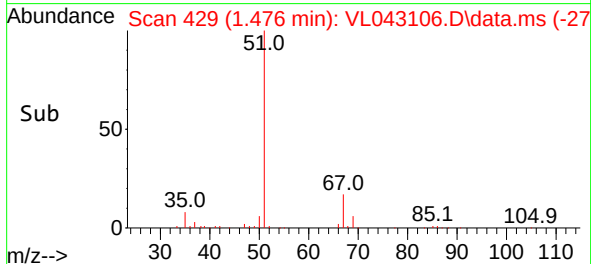
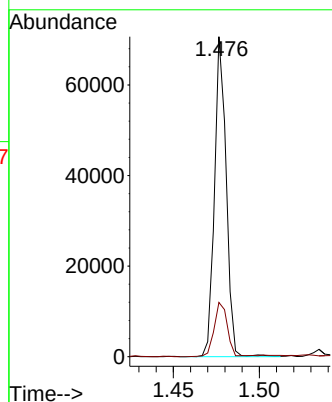
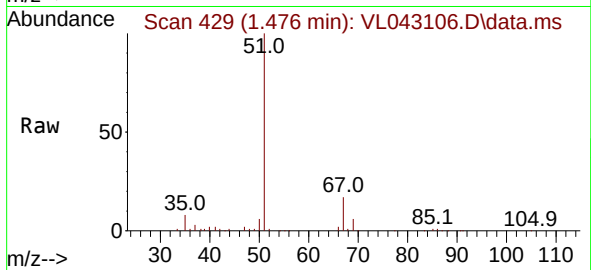
#3
Chlorodifluoromethane
Concen: 2.050 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 51 Resp: 3321
Ion Ratio Lower Upper
51 100
67 20.6 15.1 22.7

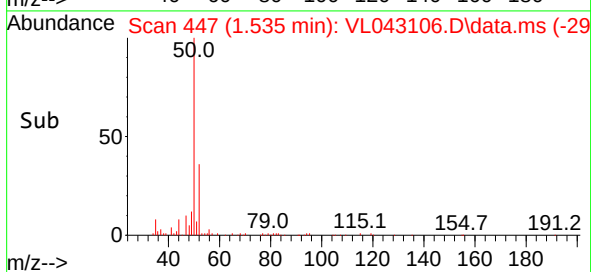
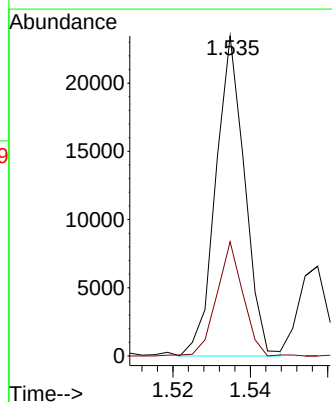
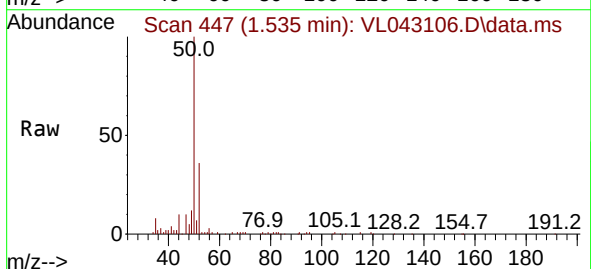
Manual Integrations
APPROVED

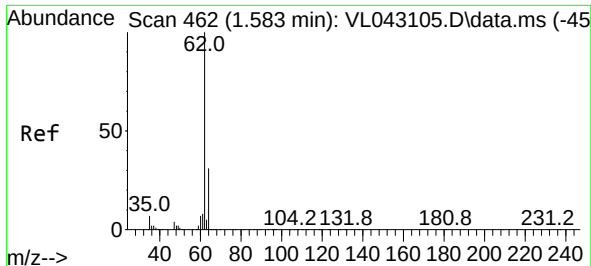
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 2.054 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

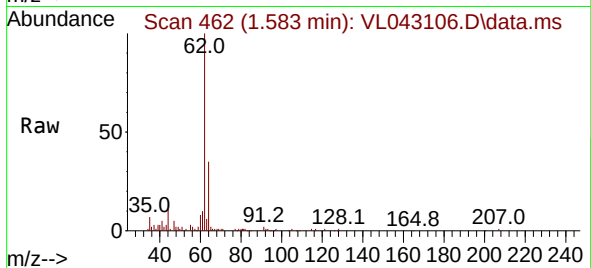
Tgt Ion: 50 Resp: 12185
Ion Ratio Lower Upper
50 100
52 35.4 25.2 37.8





#5
Vinyl Chloride
Concen: 1.911 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

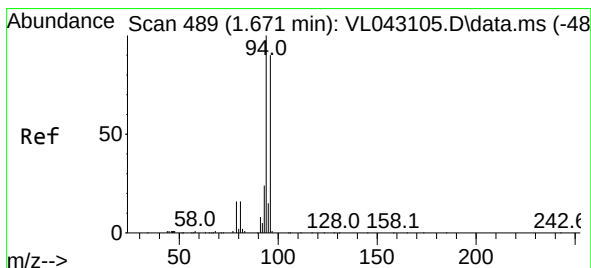
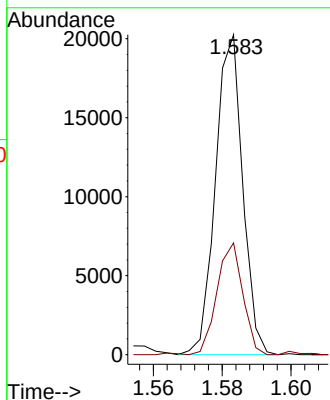
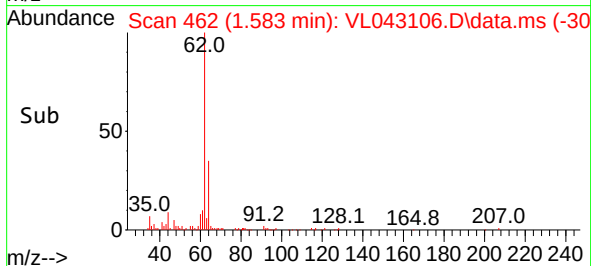
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 62 Resp: 11114
Ion Ratio Lower Upper
62 100
64 35.0 24.6 36.8

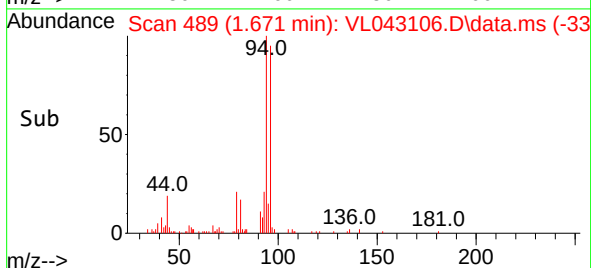
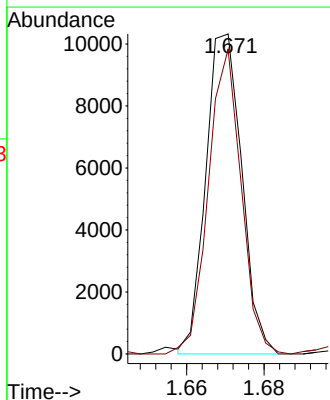
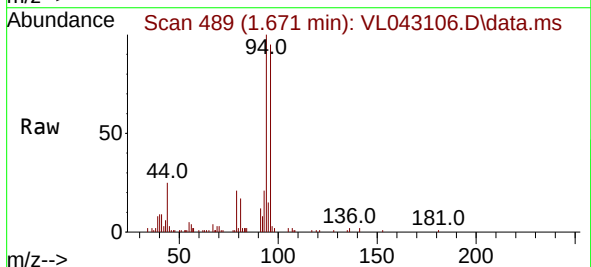
Manual Integrations
APPROVED

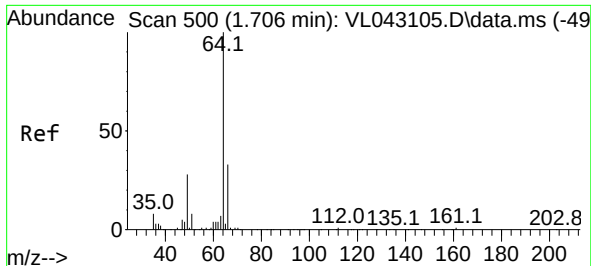
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#6
Bromomethane
Concen: 2.092 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

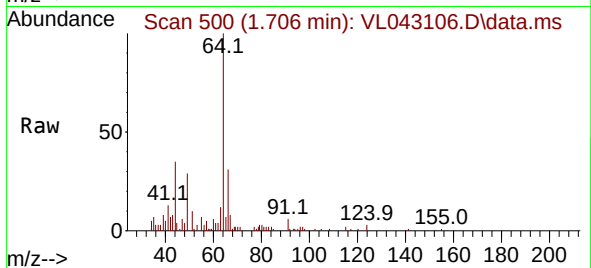
Tgt Ion: 94 Resp: 6672
Ion Ratio Lower Upper
94 100
96 94.6 72.2 108.4





#7
Chloroethane
Concen: 2.106 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

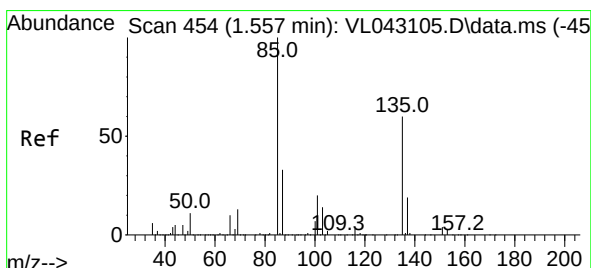
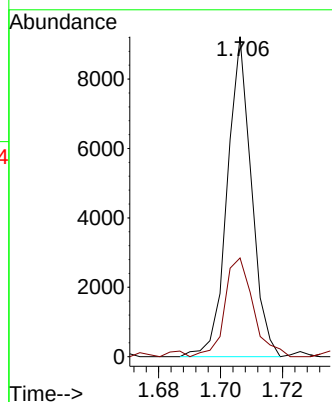
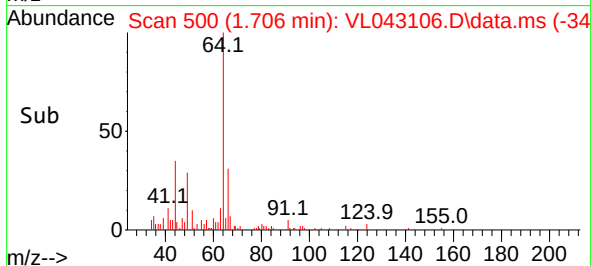
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 64 Resp: 5008
Ion Ratio Lower Upper
64 100
66 30.8 26.0 39.0

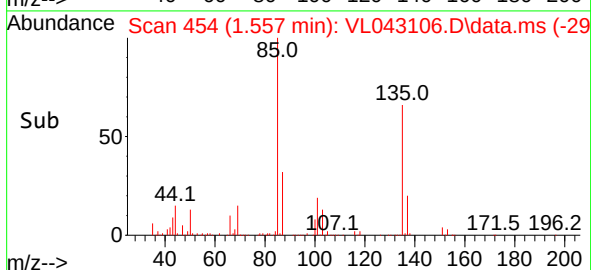
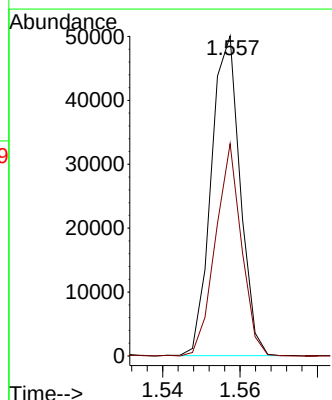
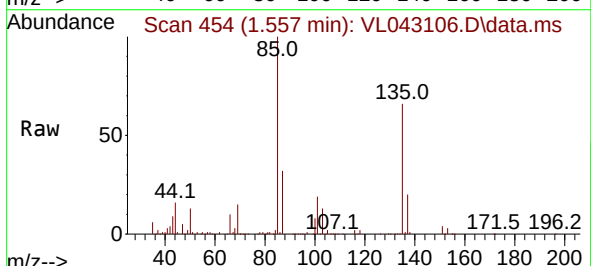
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APPROVED

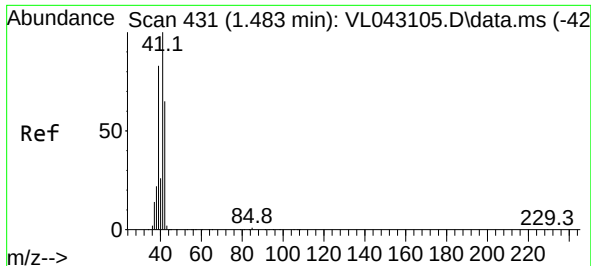
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 2.140 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 25897
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 2.112 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1517

Ion Ratio Lower Upper

41 100

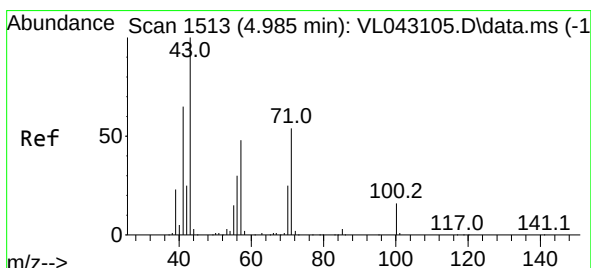
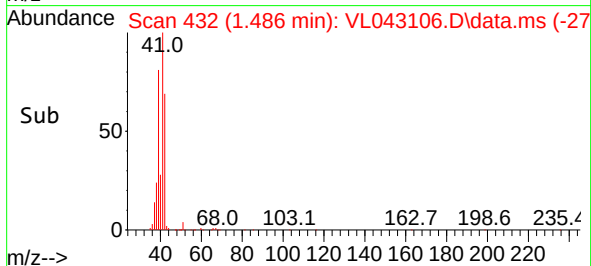
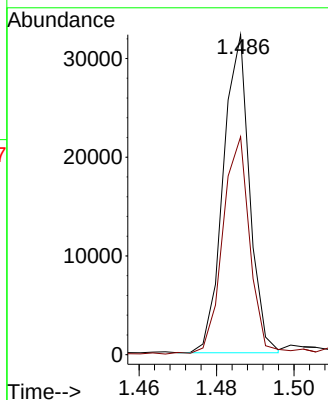
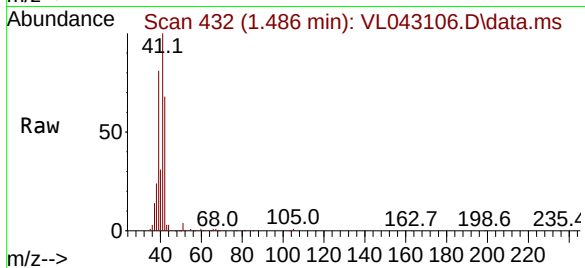
42 74.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 2.078 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043106.D

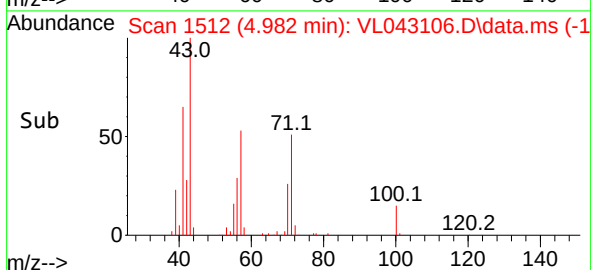
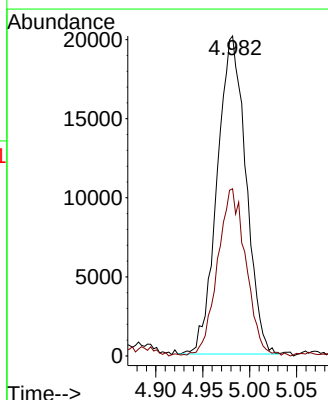
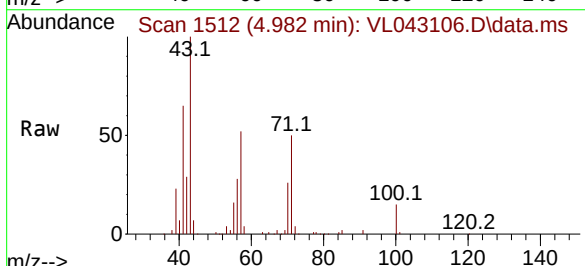
Acq: 14 Oct 2025 11:27

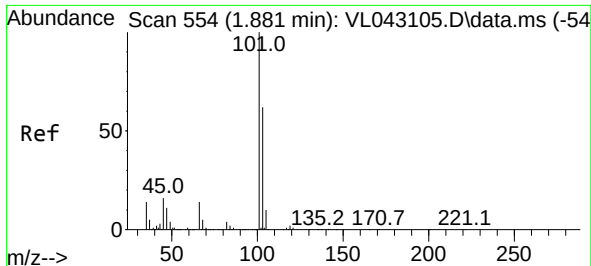
Tgt Ion: 43 Resp: 42790

Ion Ratio Lower Upper

43 100

57 52.8 40.8 61.2





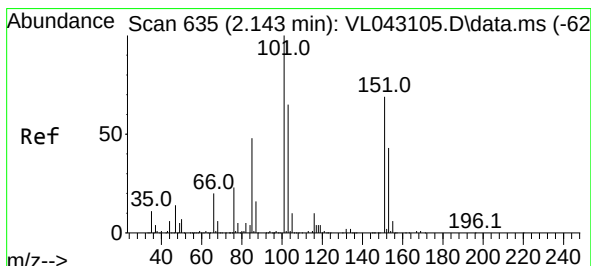
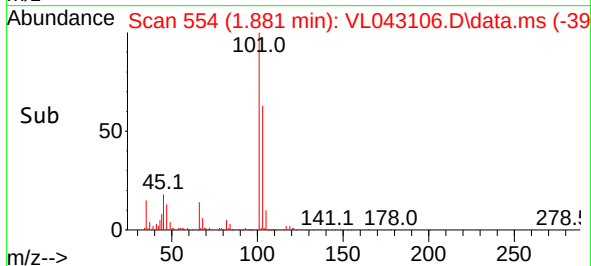
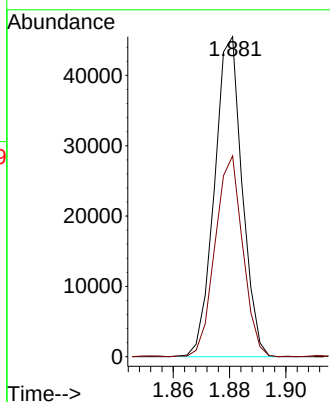
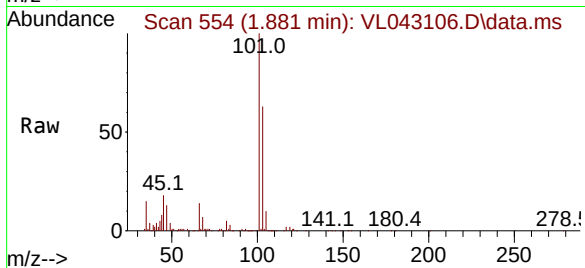
#11
 Trichlorofluoromethane
 Concen: 2.125 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:101 Resp: 31114
 Ion Ratio Lower Upper
 101 100
 103 62.8 49.3 73.9

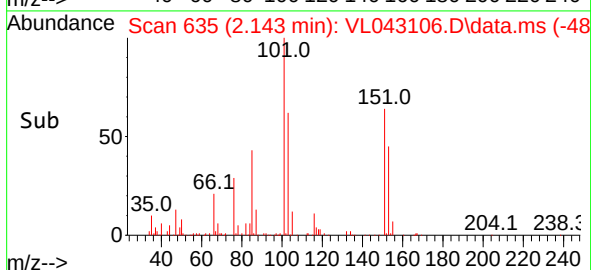
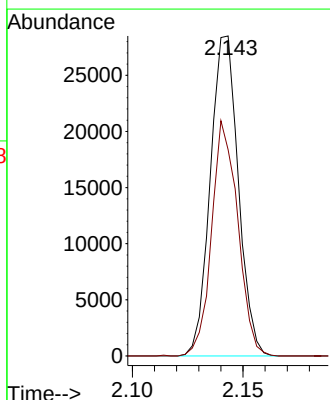
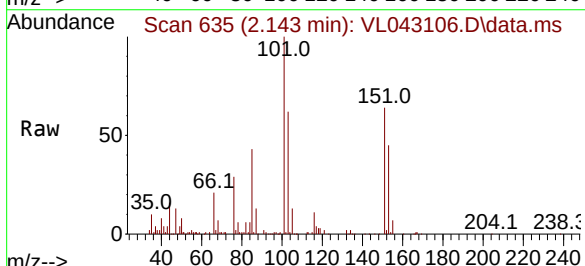
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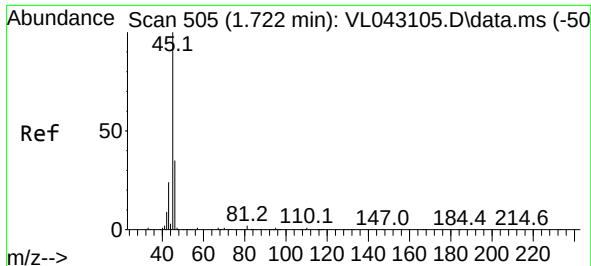
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.128 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

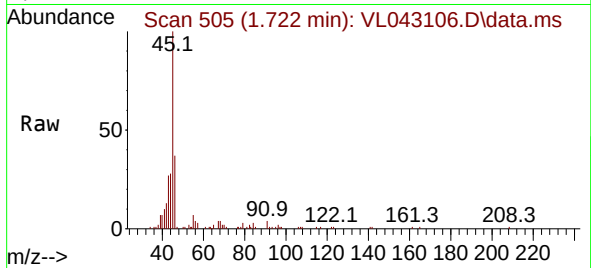
Tgt Ion:101 Resp: 25091
 Ion Ratio Lower Upper
 101 100
 151 68.5 54.7 82.1





#13
Ethanol
Concen: 2.394 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

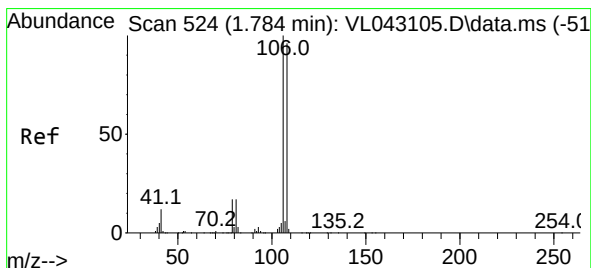
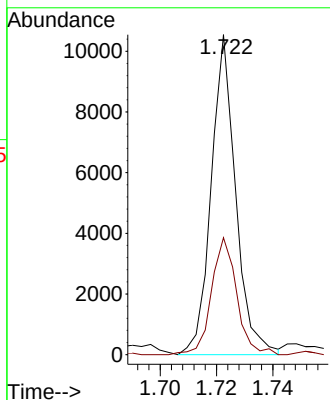
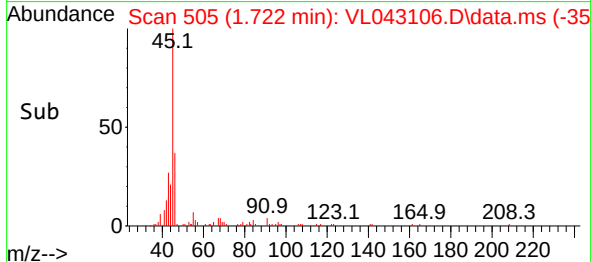
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



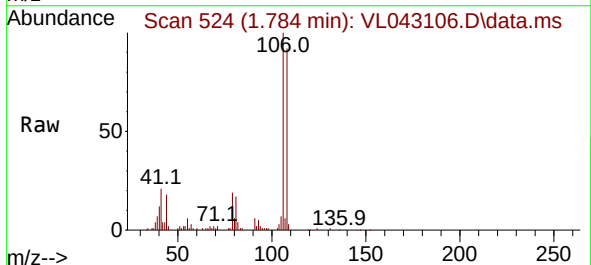
Tgt Ion: 45 Resp: 636
Ion Ratio Lower Upper
45 100
46 39.6 14.7 58.9

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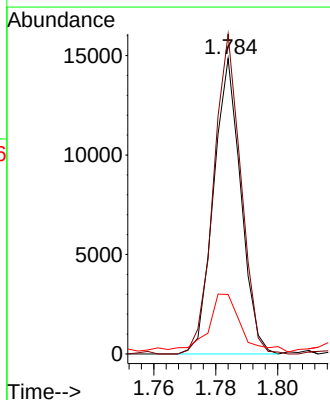
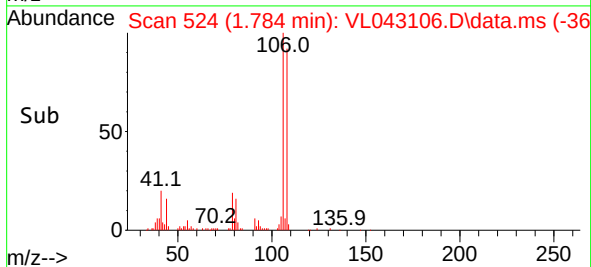
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

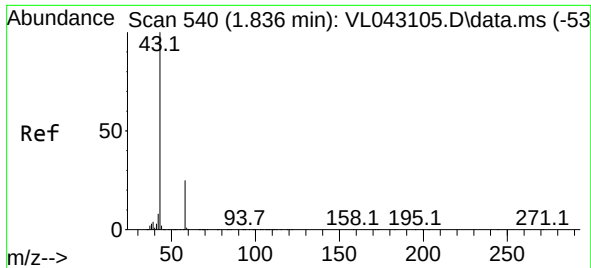


#14
Bromoethene
Concen: 2.075 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



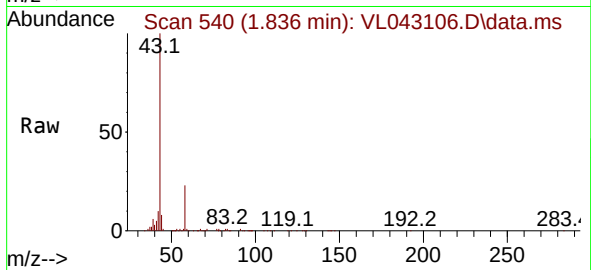
Tgt Ion:108 Resp: 9087
Ion Ratio Lower Upper
108 100
106 109.1 84.4 126.6
79 19.1 15.3 22.9





#15
Acetone
Concen: 2.225 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

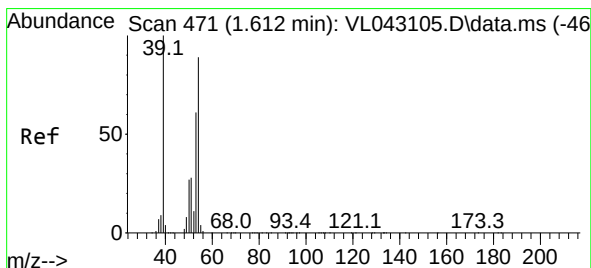
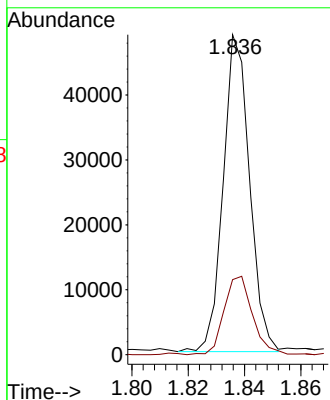
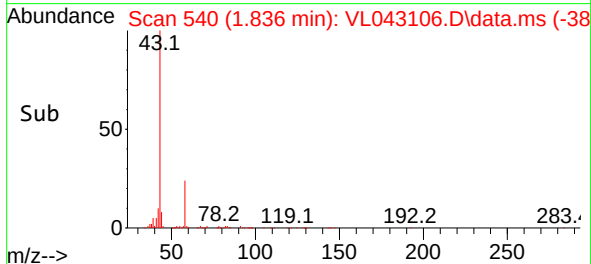
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 43 Resp: 31750
Ion Ratio Lower Upper
43 100
58 27.3 20.8 31.2

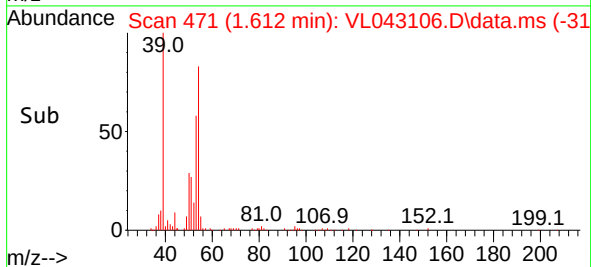
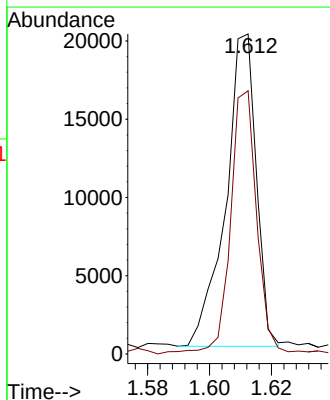
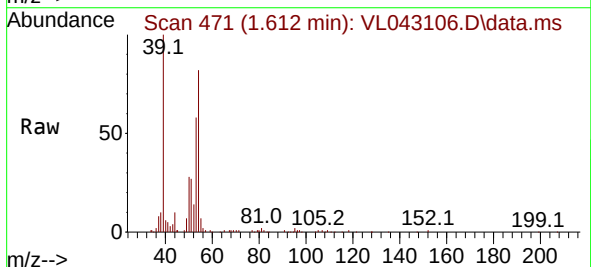
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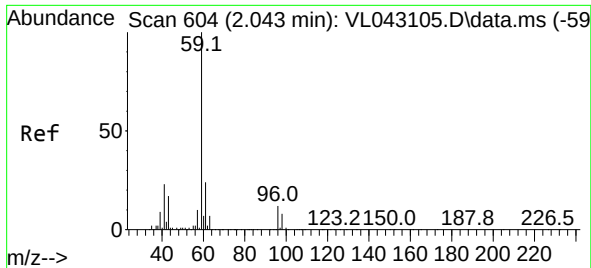
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 39 Resp: 13668
Ion Ratio Lower Upper
39 100
54 74.3 59.0 88.4





#17

tert-Butyl alcohol

Concen: 2.091 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 59 Resp: 40738

Ion Ratio Lower Upper

59 100

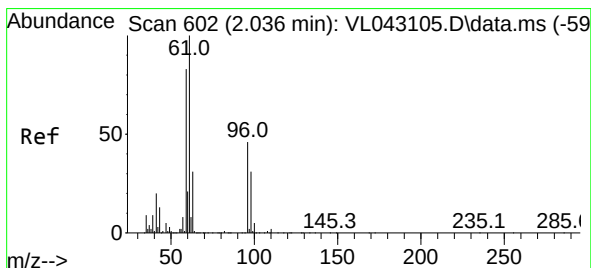
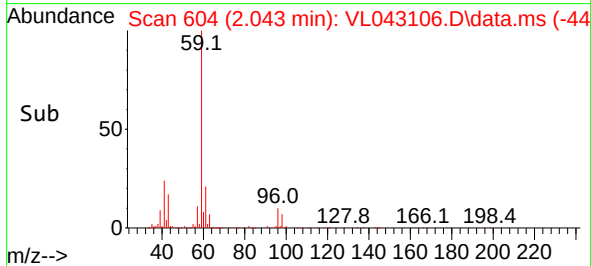
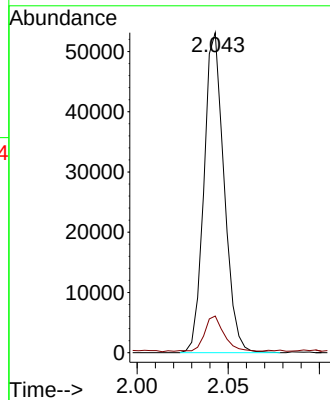
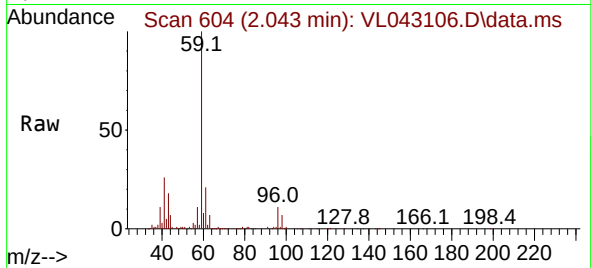
57 11.9 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

1,1-Dichloroethene

Concen: 2.100 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

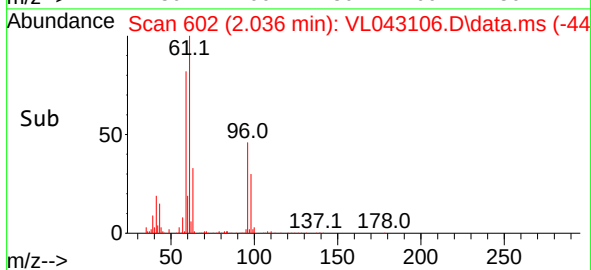
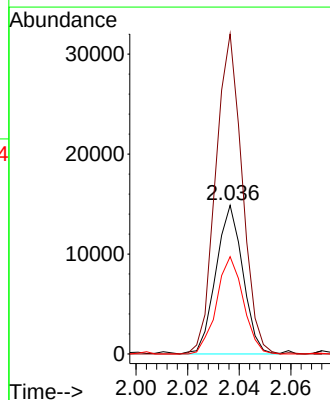
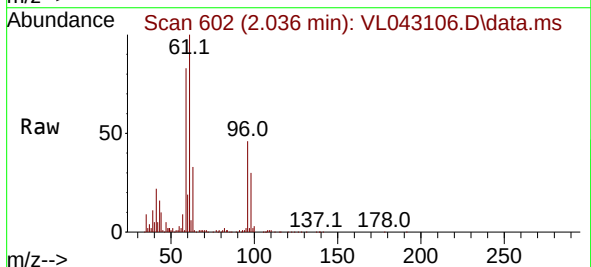
Tgt Ion: 96 Resp: 10794

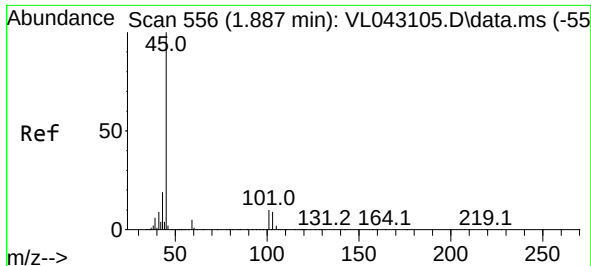
Ion Ratio Lower Upper

96 100

61 215.2 173.4 260.0

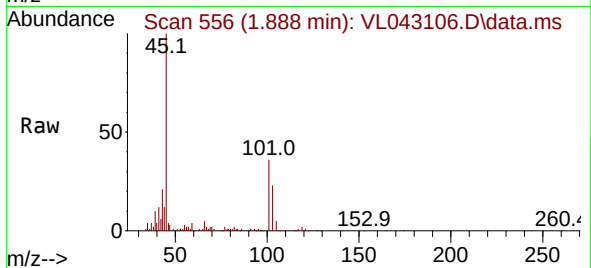
98 65.4 53.2 79.8





#19
Isopropyl Alcohol
Concen: 2.073 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

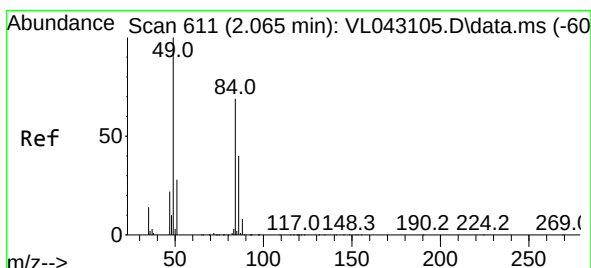
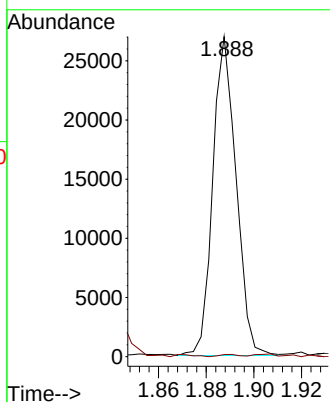
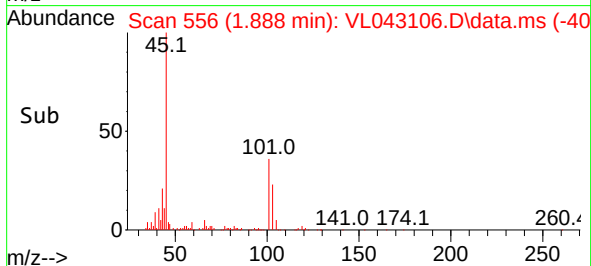
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



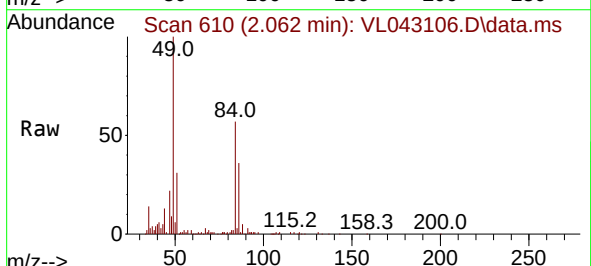
Tgt Ion: 45 Resp: 18320
Ion Ratio Lower Upper
45 100
58 2.3 31.3 46.9

Manual Integrations
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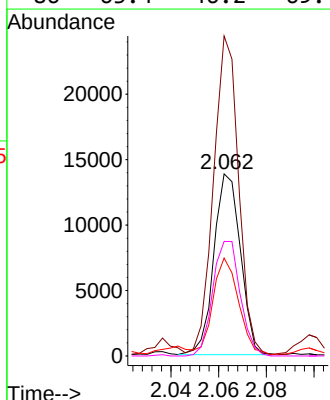
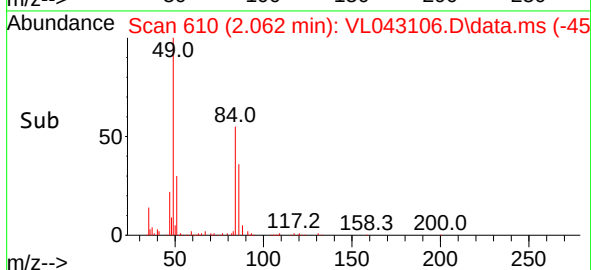
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

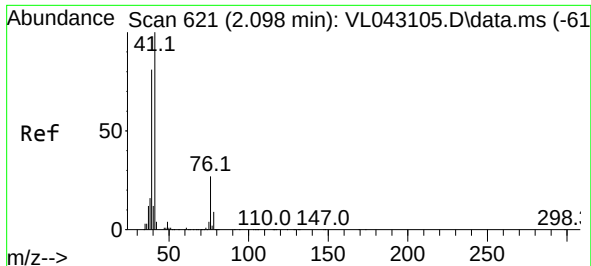


#20
Methylene Chloride
Concen: 1.906 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion: 84 Resp: 10694
Ion Ratio Lower Upper
84 100
49 175.6 116.6 175.0#
51 53.2 34.8 52.2#
86 63.4 46.2 69.4





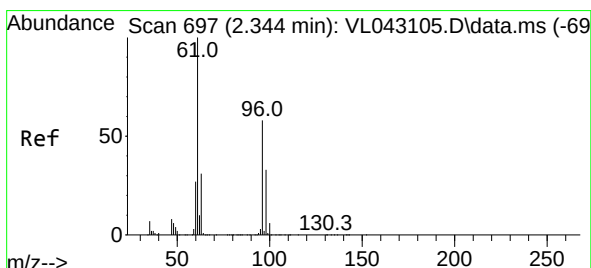
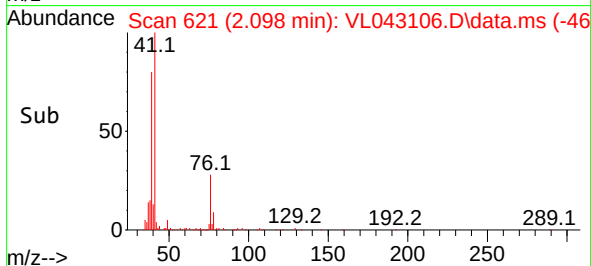
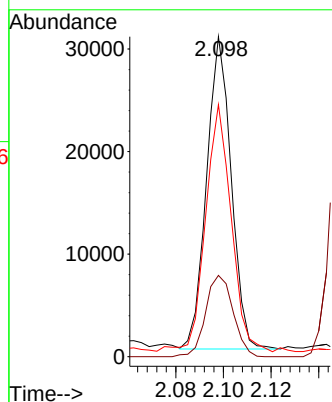
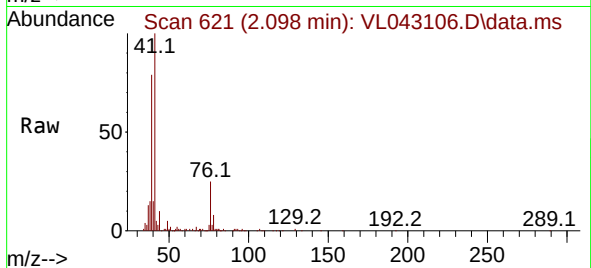
#21
 Allyl Chloride
 Concen: 2.090 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 41 Resp: 2190
 Ion Ratio Lower Upper
 41 100
 76 28.9 21.5 32.3
 39 83.1 60.8 91.2

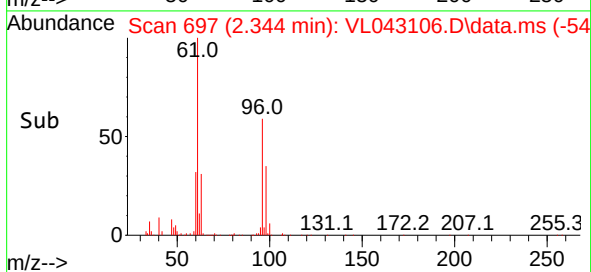
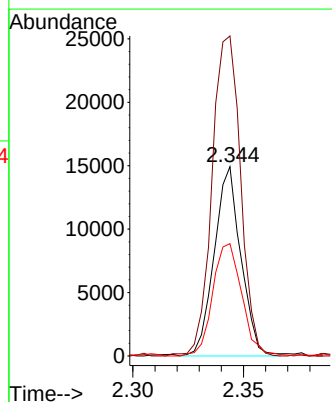
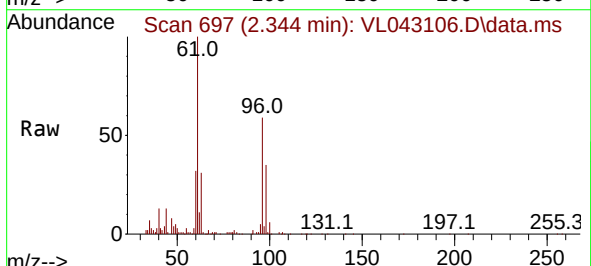
Manual Integrations
 APPROVED

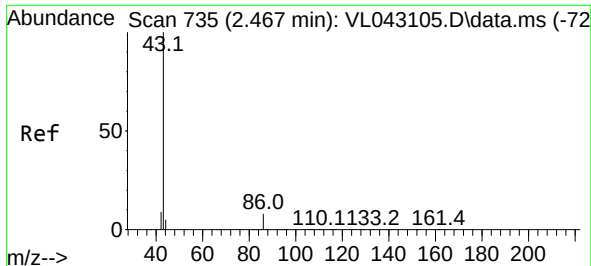
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.036 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 12511
 Ion Ratio Lower Upper
 96 100
 61 169.0 137.0 205.6
 98 59.3 45.5 68.3





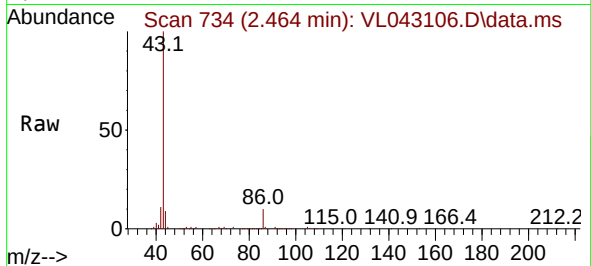
#23
 Vinyl Acetate
 Concen: 2.322 ppbv
 RT: 2.464 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

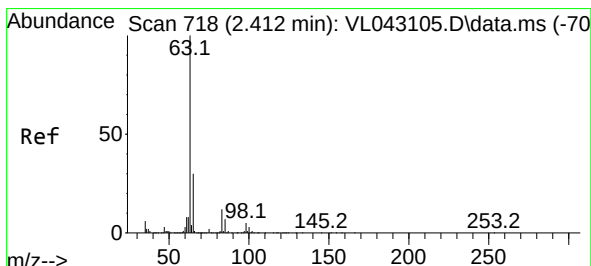
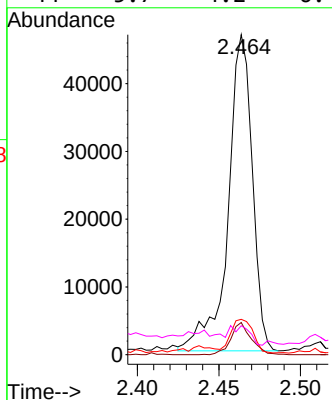
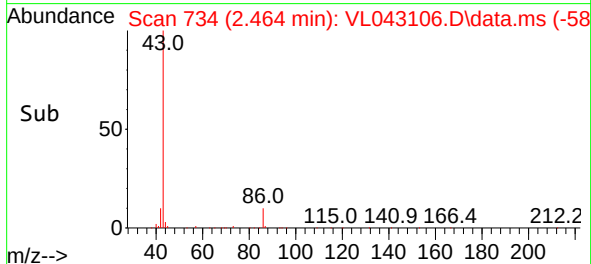


Tgt Ion: 43 Resp: 4828
 Ion Ratio Lower Upper
 43 100
 86 10.1 6.2 9.2
 42 10.6 7.6 11.4
 44 5.7 4.2 6.4

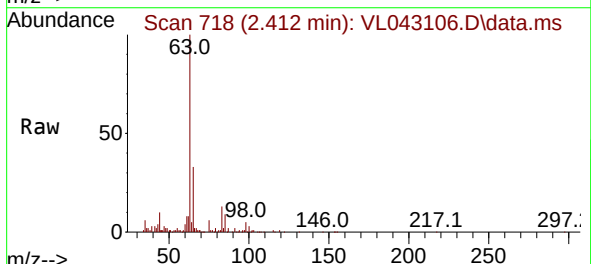
Manual Integrations

APPROVED

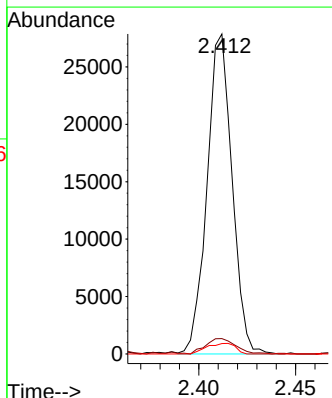
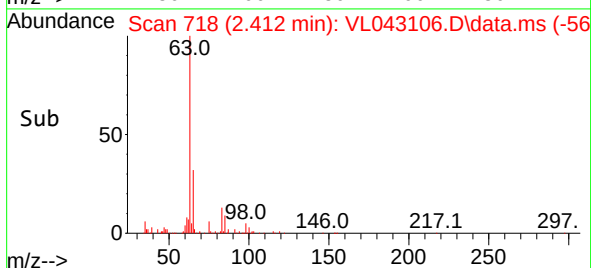
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

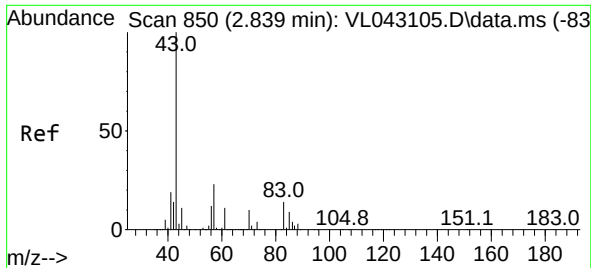


#24
 1,1-Dichloroethane
 Concen: 2.112 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27



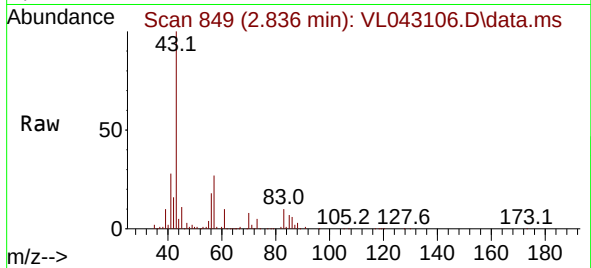
Tgt Ion: 63 Resp: 25066
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.6 7.8
 100 3.2 1.5 4.4





#25
Ethyl Acetate
Concen: 2.129 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

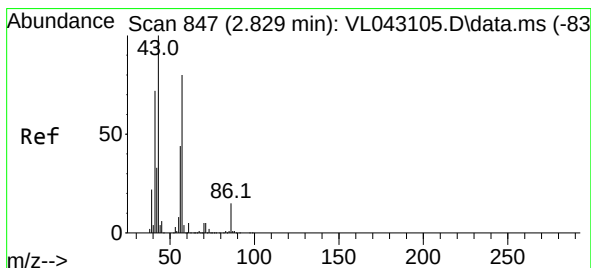
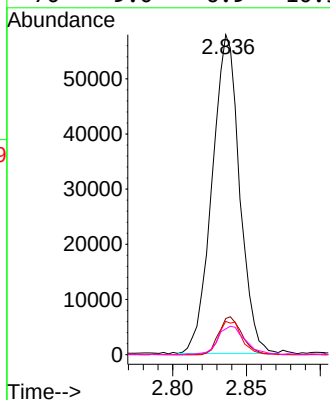
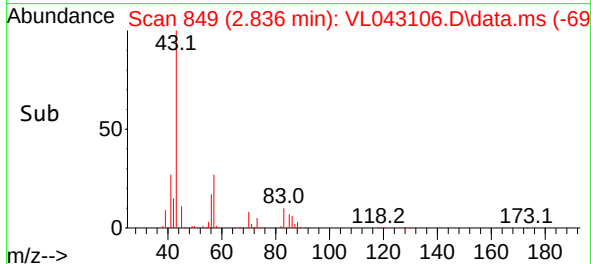
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



Tgt Ion: 43	Resp: 74929
Ion Ratio	Lower Upper
43 100	
45 10.1	7.8 11.8
61 8.9	7.0 10.6
70 9.0	6.9 10.3

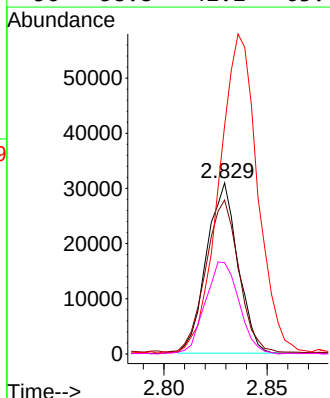
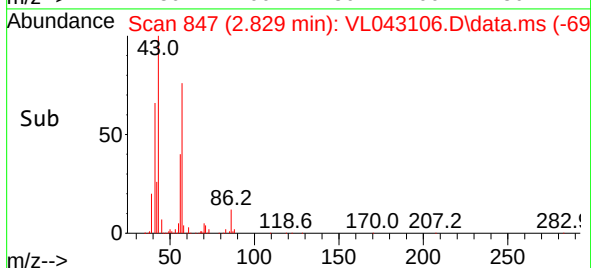
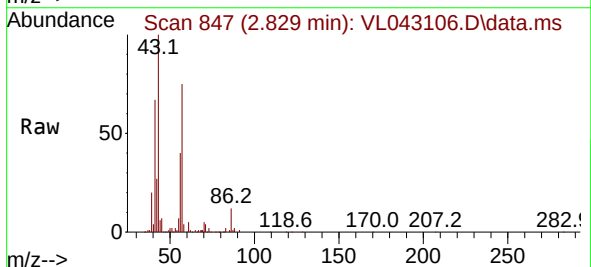
Manual Integrations
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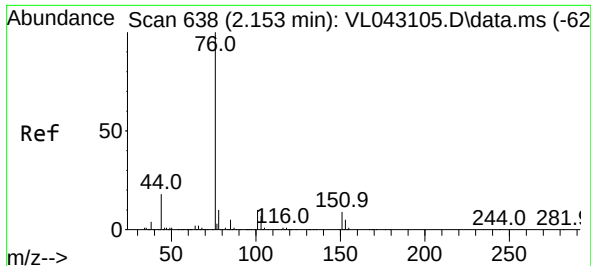
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 2.010 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57	Resp: 32595
Ion Ratio	Lower Upper
57 100	
41 96.4	71.4 107.0
43 233.0	178.5 267.7
56 58.8	42.2 63.4





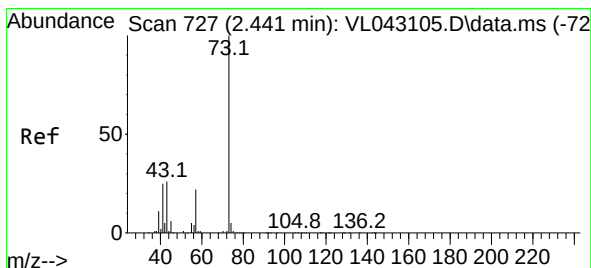
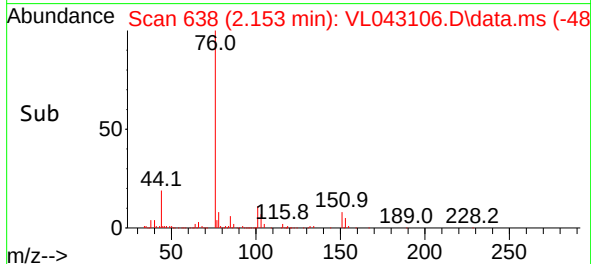
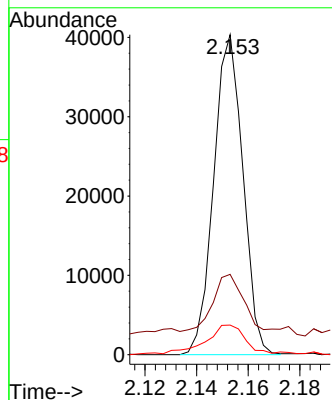
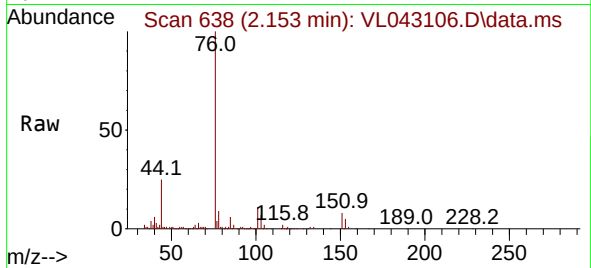
#27
Carbon Disulfide
Concen: 2.134 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 3170
Ion Ratio Lower Upper
76 100
44 23.1 16.7 25.1
78 13.6 9.3 13.9

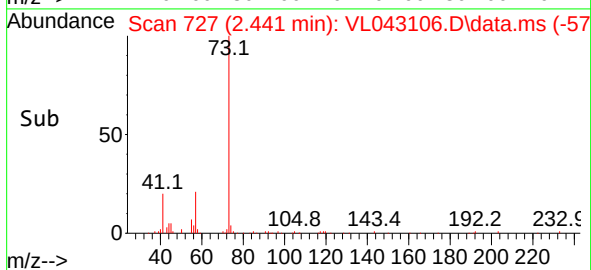
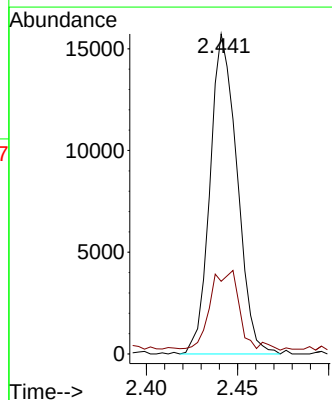
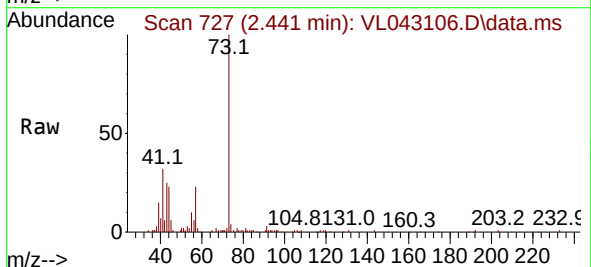
Manual Integrations
APPROVED

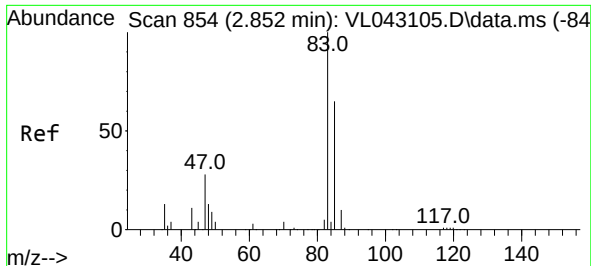
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 2.196 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 73 Resp: 16207
Ion Ratio Lower Upper
73 100
57 26.6 20.5 30.7





#29

Chloroform

Concen: 2.058 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 4836

Ion Ratio Lower Upper

83 100

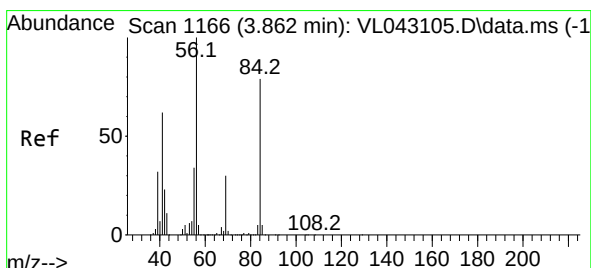
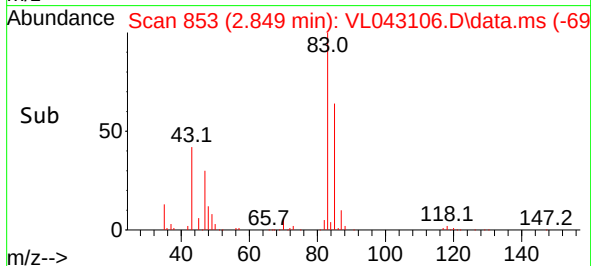
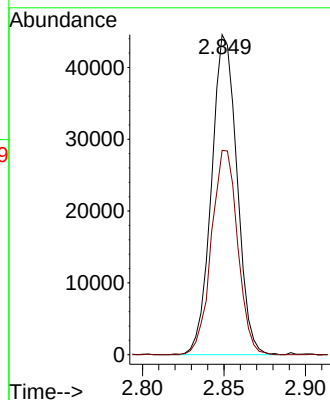
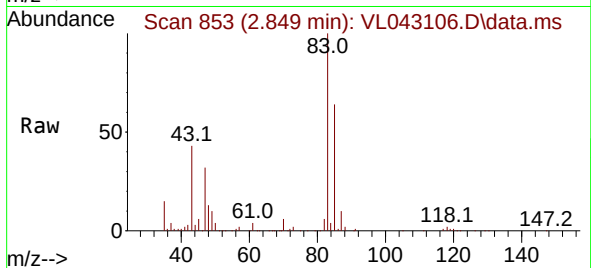
85 63.9 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

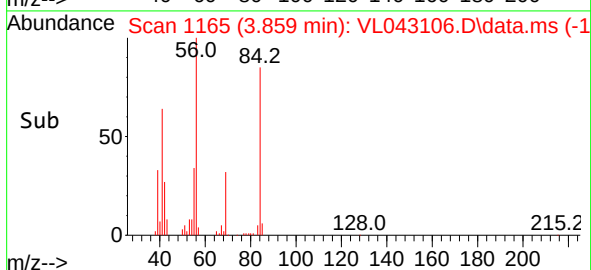
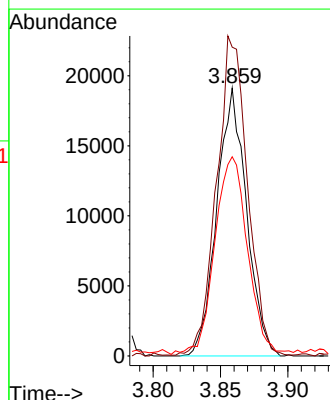
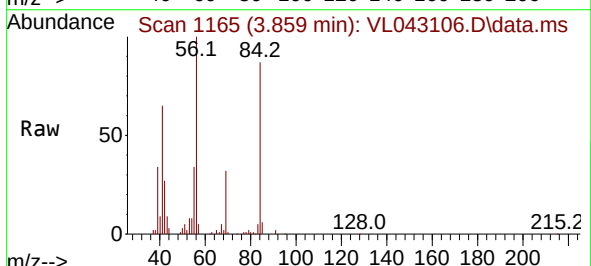
Tgt Ion: 84 Resp: 29270

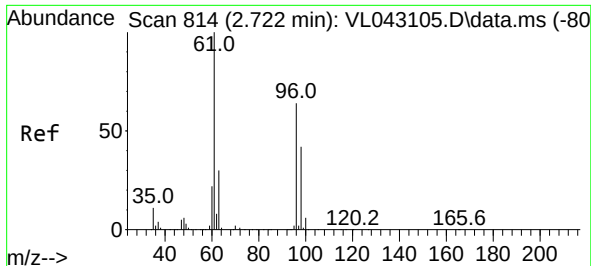
Ion Ratio Lower Upper

84 100

56 125.6 100.9 151.3

41 79.0 63.8 95.6





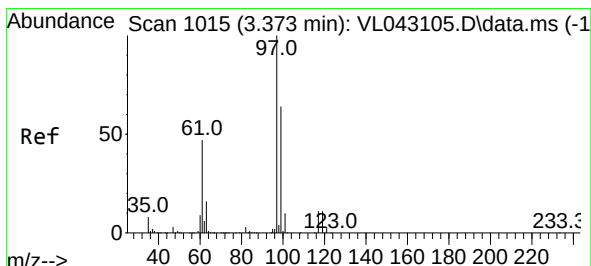
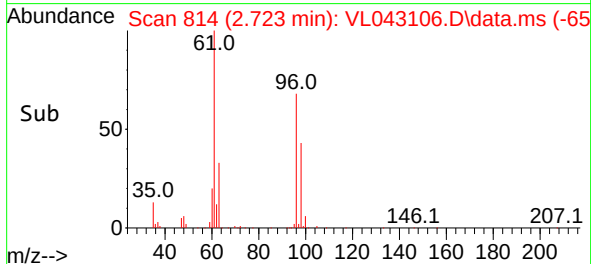
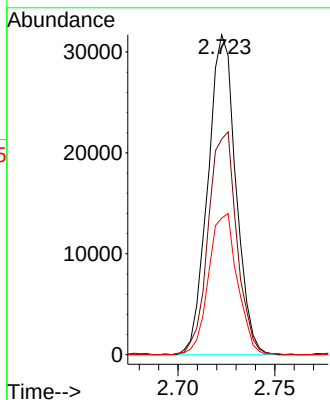
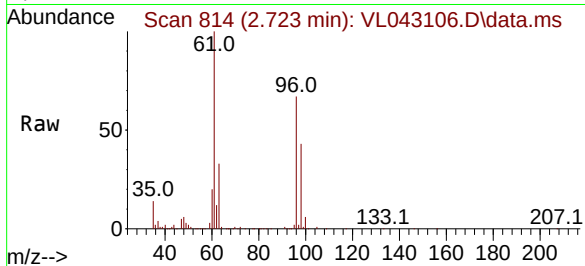
#31
 cis-1,2-Dichloroethene
 Concen: 2.061 ppbv
 RT: 2.723 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion: 61 Resp: 31925
 Ion Ratio Lower Upper
 61 100
 96 67.3 51.0 76.6
 98 42.3 33.5 50.3

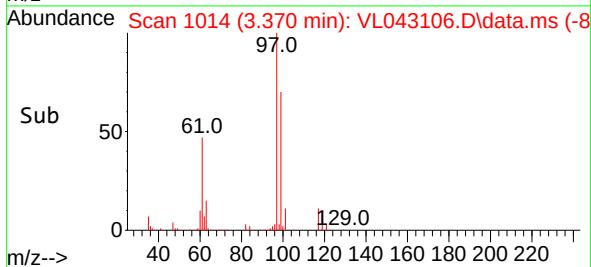
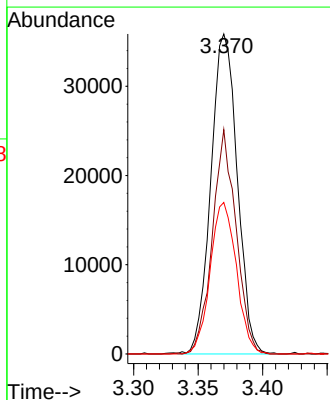
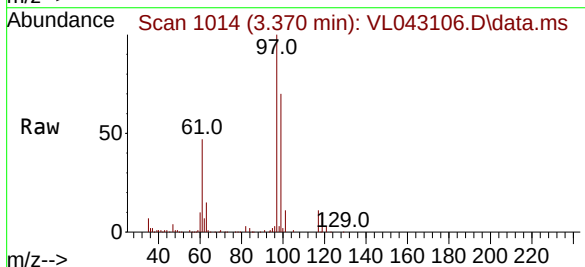
Manual Integrations
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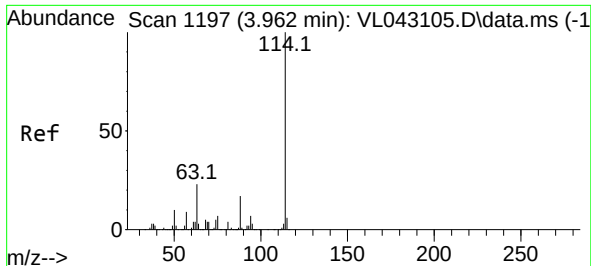
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 2.086 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

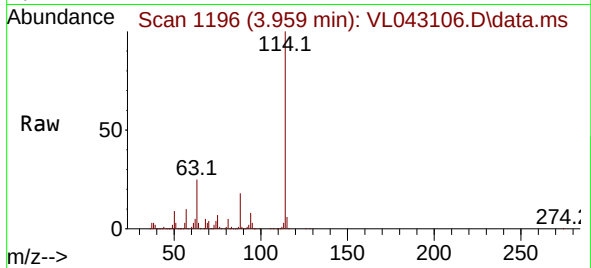
Tgt Ion: 97 Resp: 51049
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.3 76.9
 61 46.9 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

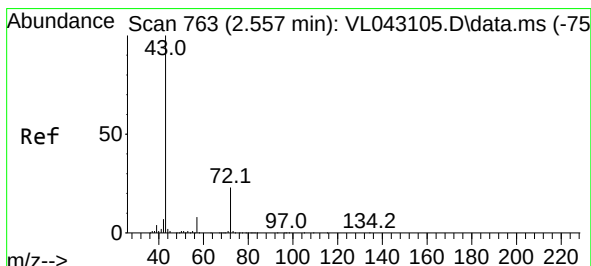
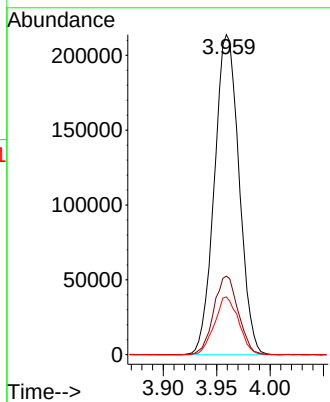
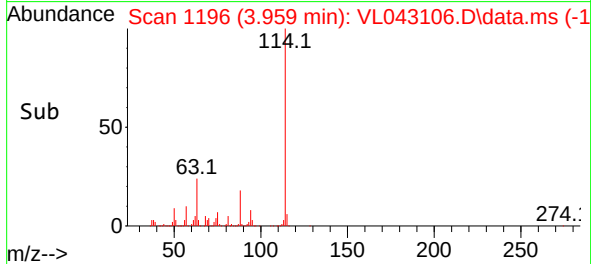
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion:114 Resp: 342939
Ion Ratio Lower Upper
114 100
63 24.5 19.3 28.9
88 17.8 13.9 20.9

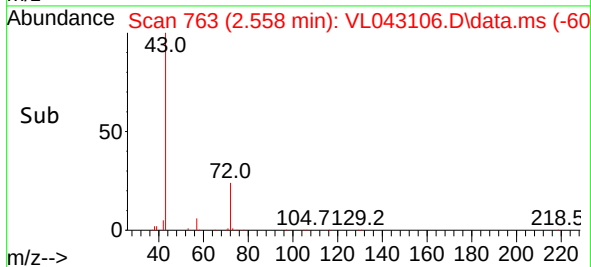
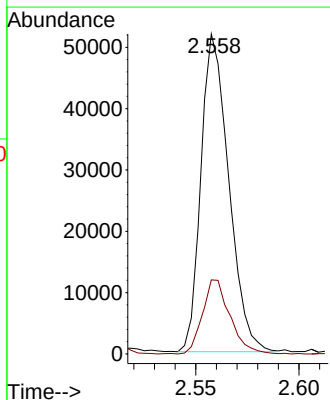
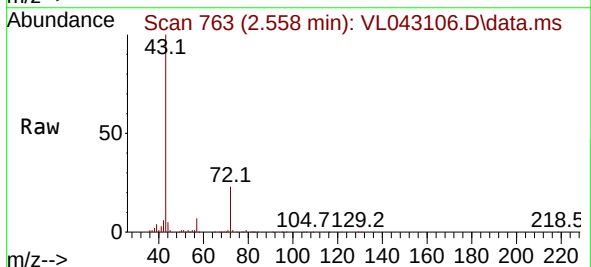
Manual Integrations
APPROVED

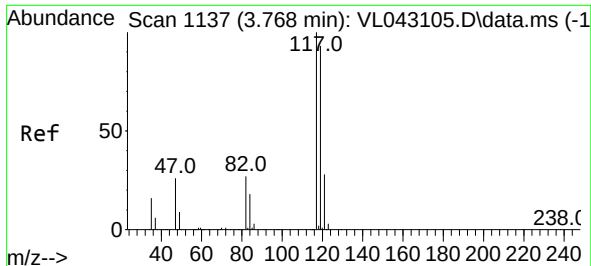
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#34
2-Butanone
Concen: 2.090 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

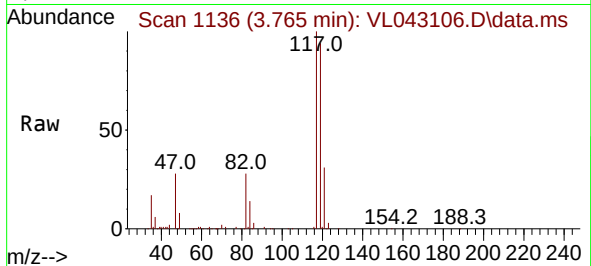
Tgt Ion: 43 Resp: 48458
Ion Ratio Lower Upper
43 100
72 23.3 18.4 27.6





#35
Carbon Tetrachloride
Concen: 2.071 ppbv
RT: 3.765 min Scan# 1137
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

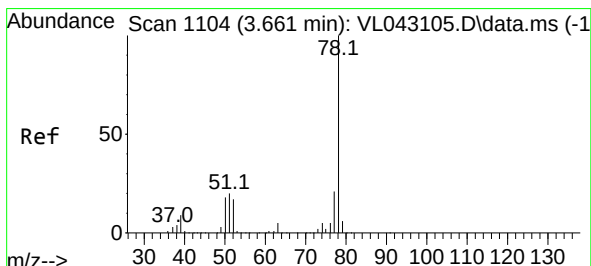
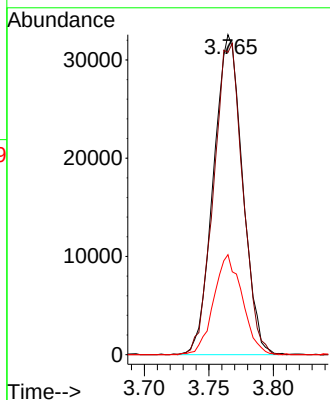
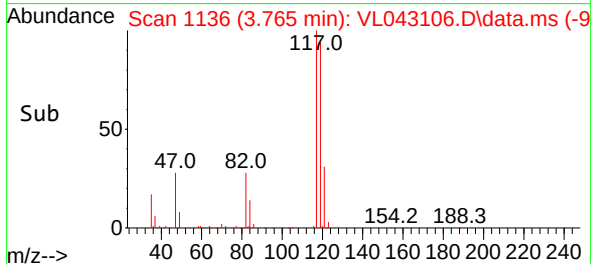
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 117 Resp: 5107
Ion Ratio Lower Upper
117 100
119 94.2 74.1 111.1
121 31.3 22.2 33.2

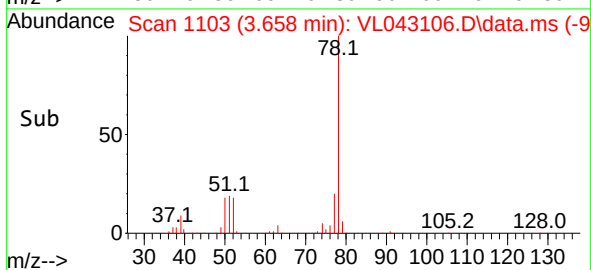
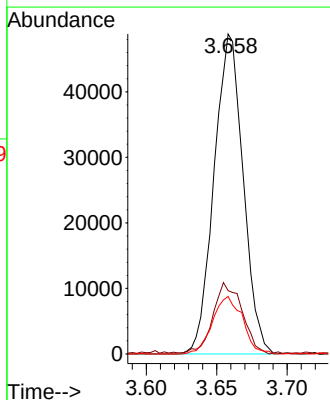
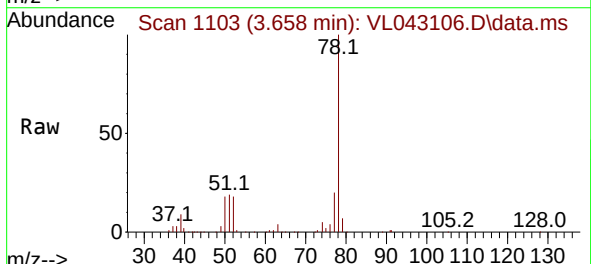
Manual Integrations
APPROVED

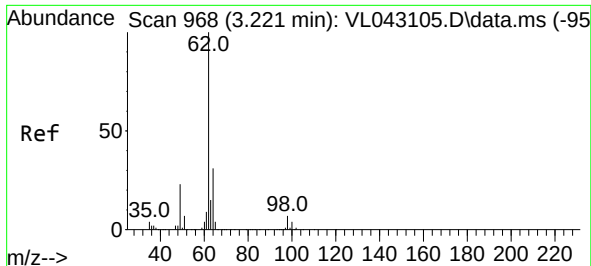
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 2.172 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

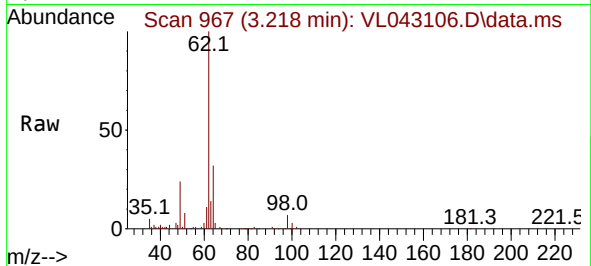
Tgt Ion: 78 Resp: 70156
Ion Ratio Lower Upper
78 100
77 19.5 17.0 25.6
50 18.0 14.6 22.0





#37
1,2-Dichloroethane
Concen: 2.083 ppbv
RT: 3.218 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

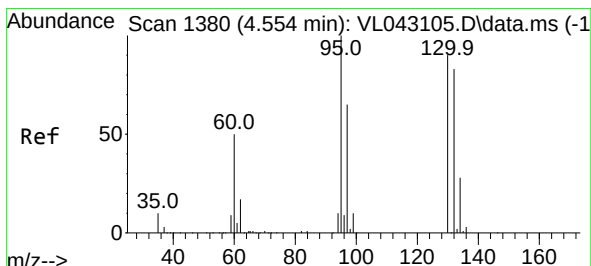
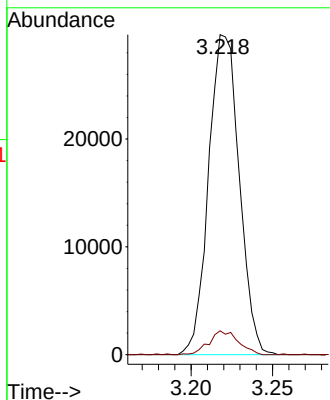
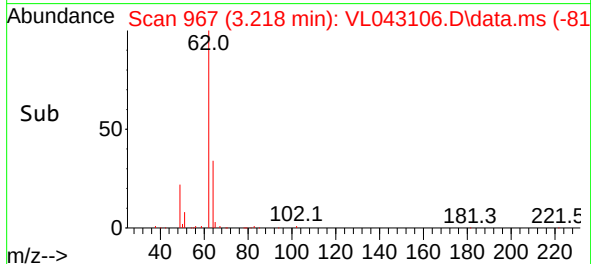
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 62 Resp: 3876
Ion Ratio Lower Upper
62 100
98 7.3 5.8 8.6

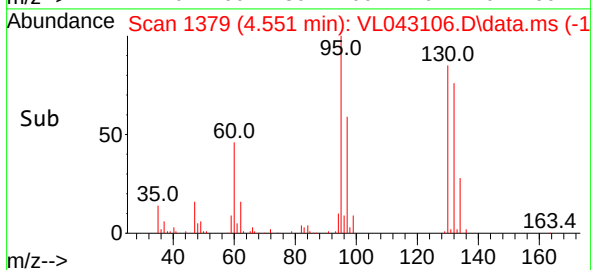
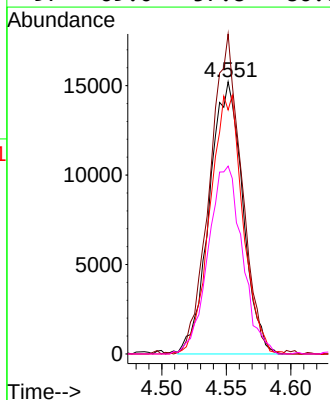
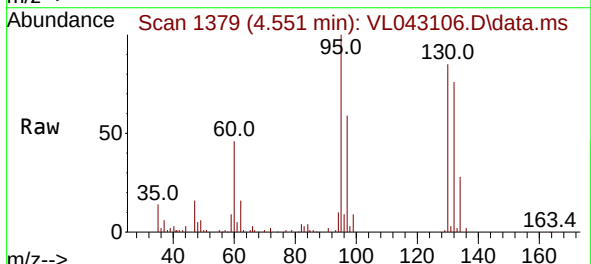
Manual Integrations
APPROVED

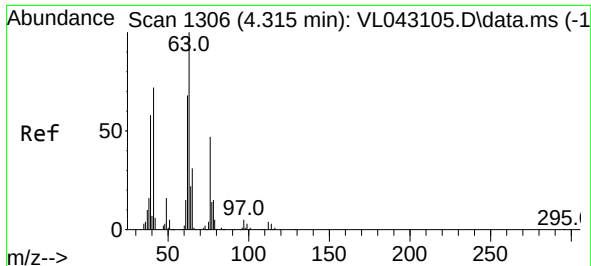
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 2.024 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:130 Resp: 27272
Ion Ratio Lower Upper
130 100
95 117.1 88.6 133.0
132 89.0 73.4 110.0
97 69.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 2.151 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

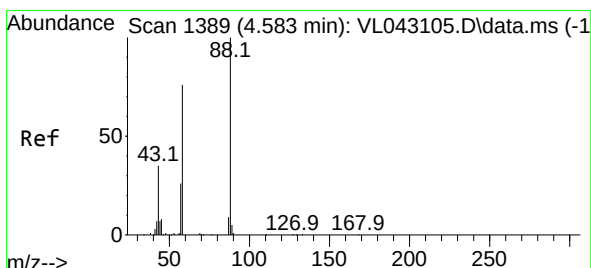
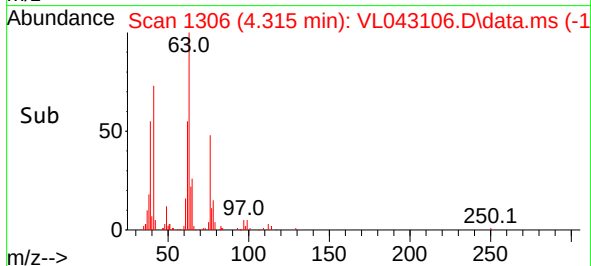
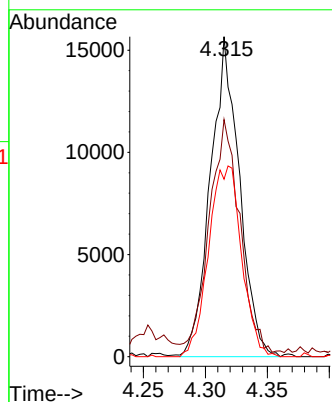
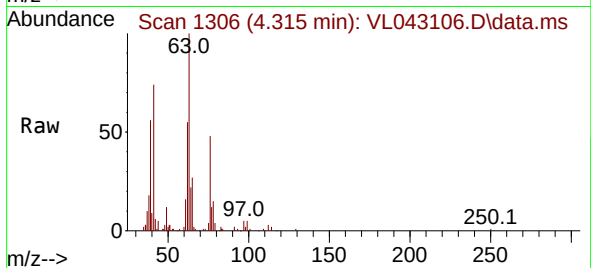
VSTDICC002

Tgt Ion:	63	Resp:	2542
Ion	Ratio	Lower	Upper
63	100		
41	72.3	58.0	87.0
62	55.5	54.7	82.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 2.101 ppbv m

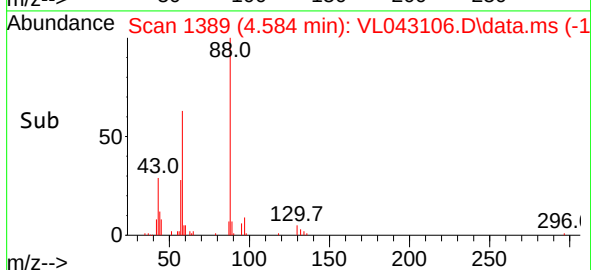
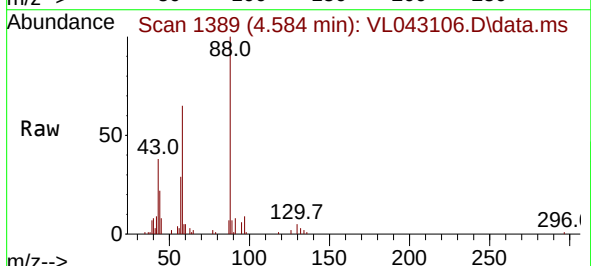
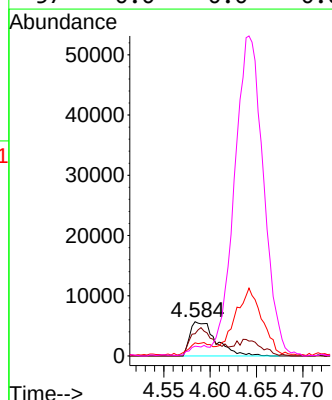
RT: 4.584 min Scan# 1389

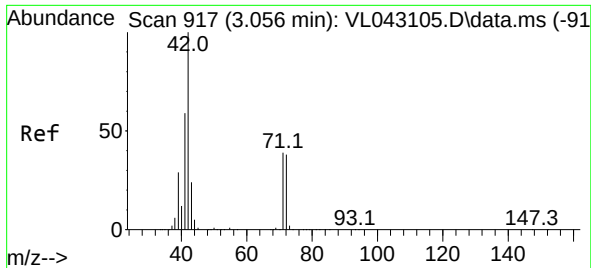
Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

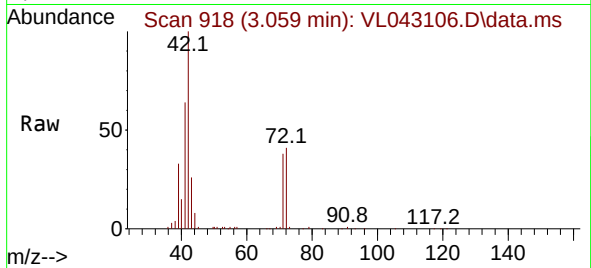
Tgt Ion:	88	Resp:	11102
Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	0.0	24.0	36.0#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 2.037 ppbv
RT: 3.059 min Scan# 917
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

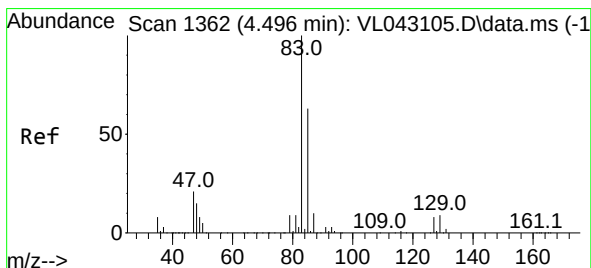
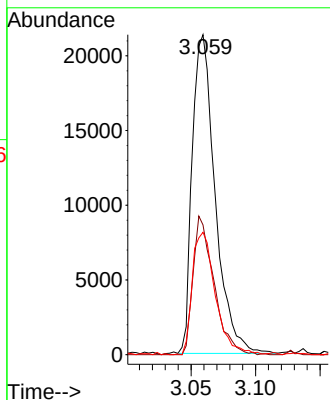
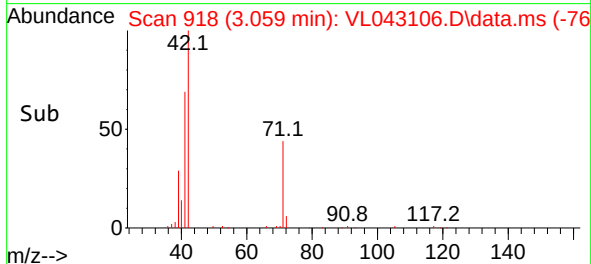
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 42 Resp: 26362
Ion Ratio Lower Upper
42 100
72 39.7 31.3 46.9
71 39.4 30.4 45.6

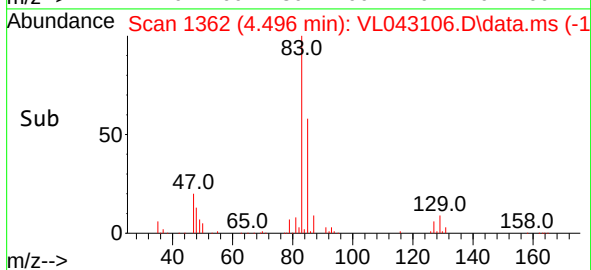
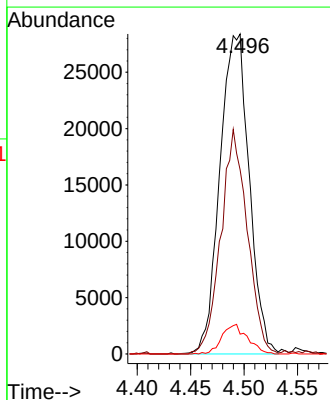
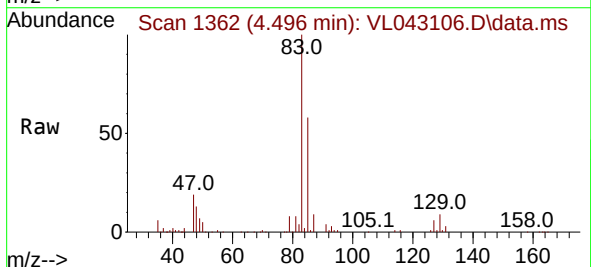
Manual Integrations
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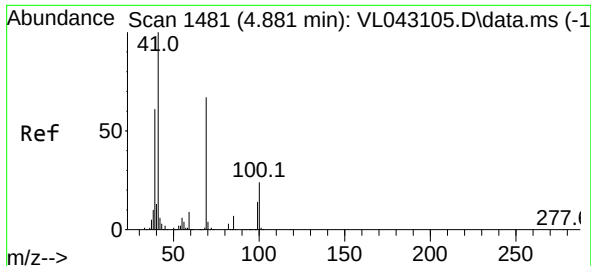
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 2.106 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 54224
Ion Ratio Lower Upper
83 100
85 57.6 50.6 75.8
127 6.2 6.3 9.5





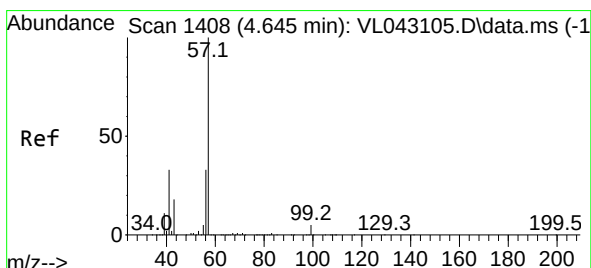
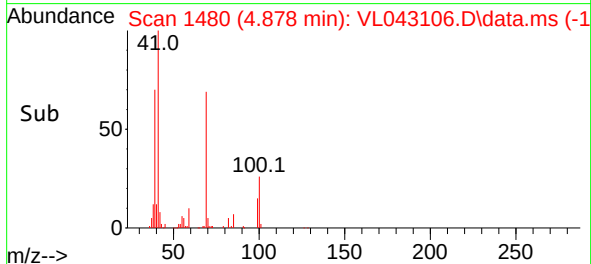
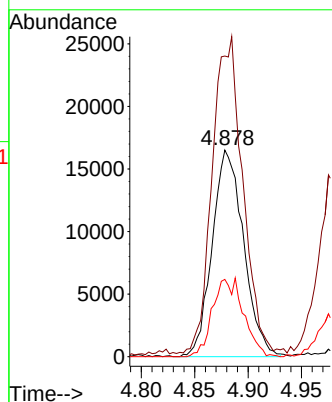
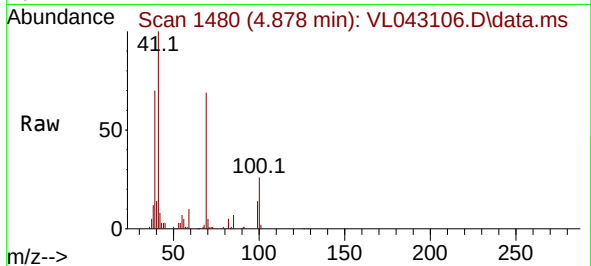
#43
Methyl Methacrylate
Concen: 2.051 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 3380
Ion Ratio Lower Upper
69 100
41 151.4 120.5 180.7
100 37.3 29.0 43.4

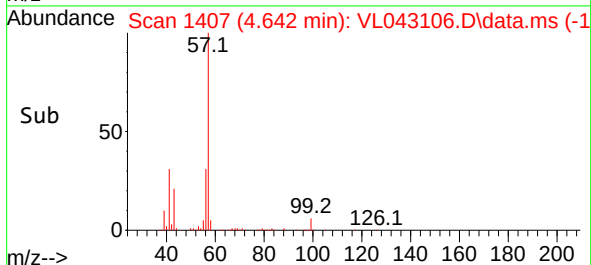
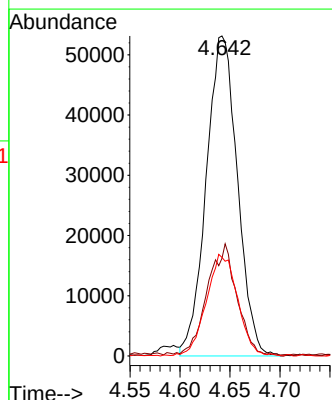
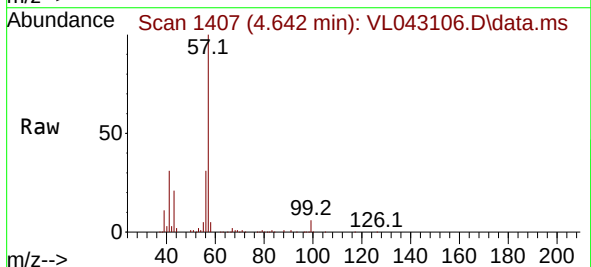
Manual Integrations
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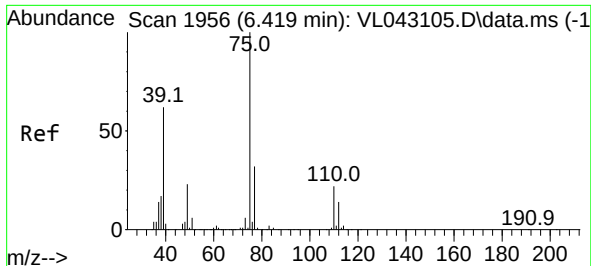
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 2.137 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

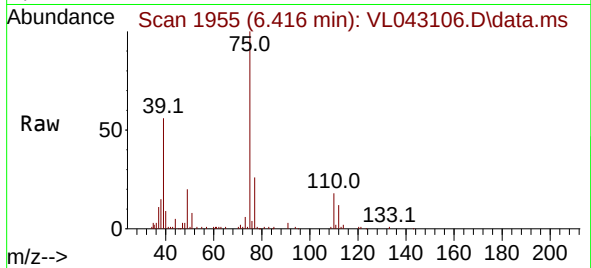
Tgt Ion: 57 Resp: 115417
Ion Ratio Lower Upper
57 100
41 34.0 26.3 39.5
56 31.9 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 2.109 ppbv
 RT: 6.416 min Scan# 1956
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

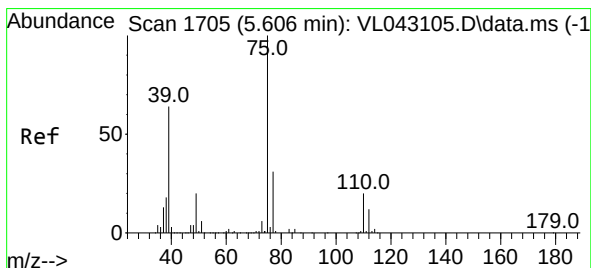
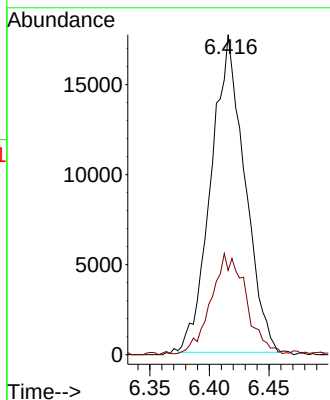
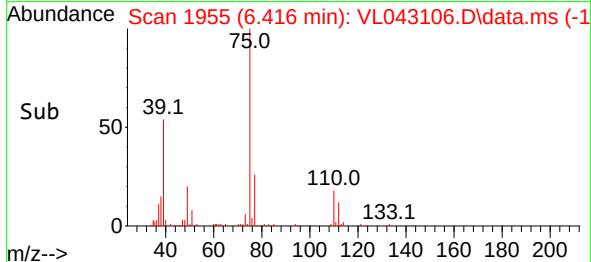
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



Tgt Ion: 75 Resp: 34728
 Ion Ratio Lower Upper
 75 100
 77 26.3 25.4 38.2

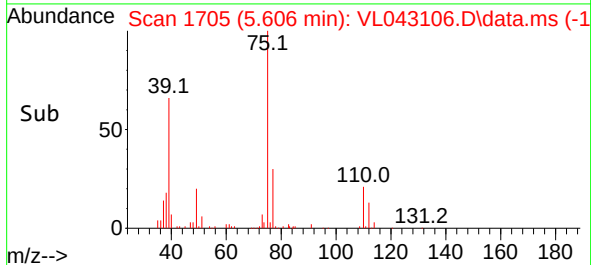
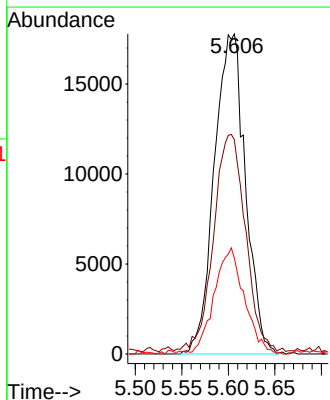
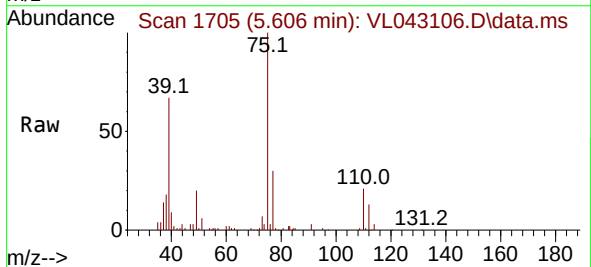
Manual Integrations
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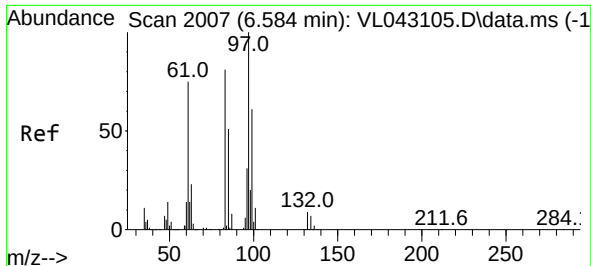
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#46
 cis-1,3-Dichloropropene
 Concen: 2.105 ppbv m
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 75 Resp: 41365
 Ion Ratio Lower Upper
 75 100
 39 66.9 51.0 76.6
 77 30.0 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 2.067 ppbv

RT: 6.584 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 2635

Ion Ratio Lower Upper

97 100

83 86.2 64.6 96.8

85 58.2 40.6 60.8

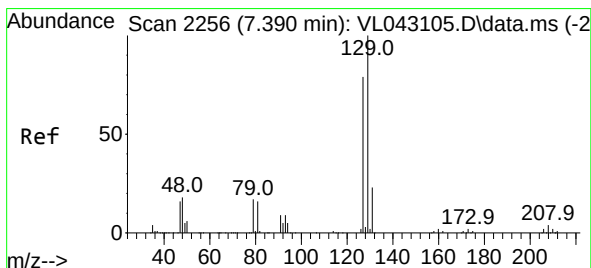
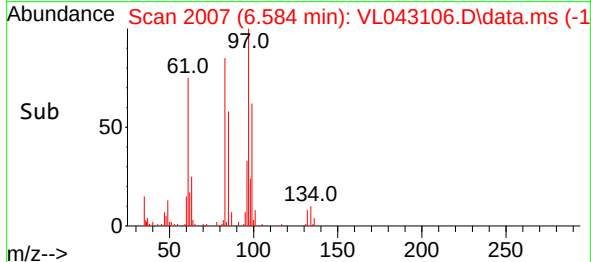
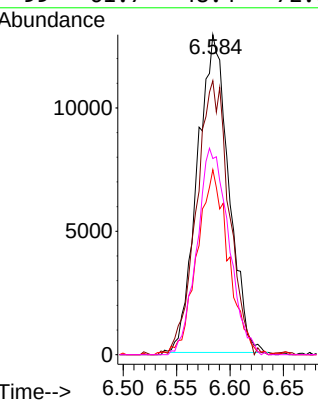
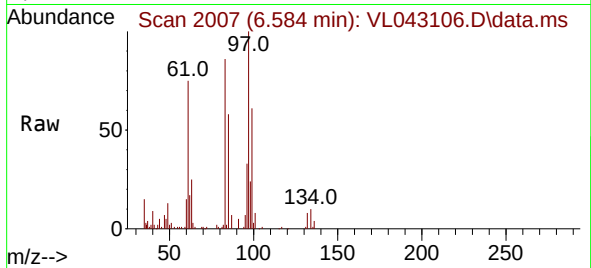
99 61.7 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 2.146 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VL043106.D

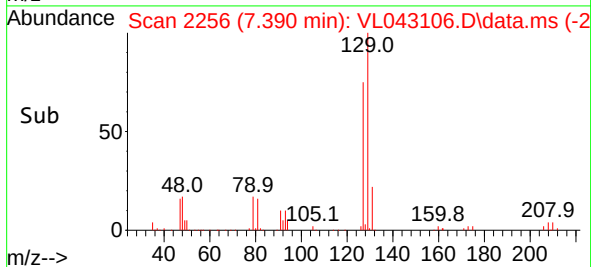
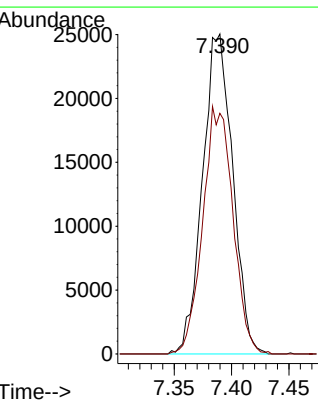
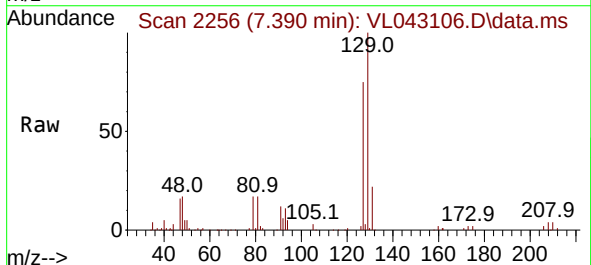
Acq: 14 Oct 2025 11:27

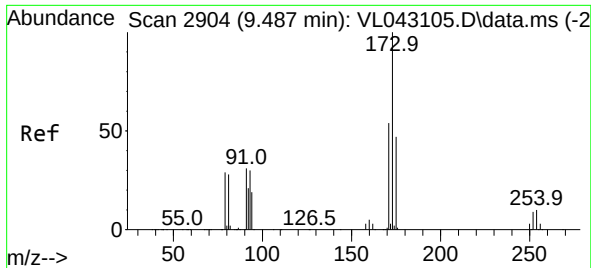
Tgt Ion:129 Resp: 45751

Ion Ratio Lower Upper

129 100

127 77.3 39.3 117.9





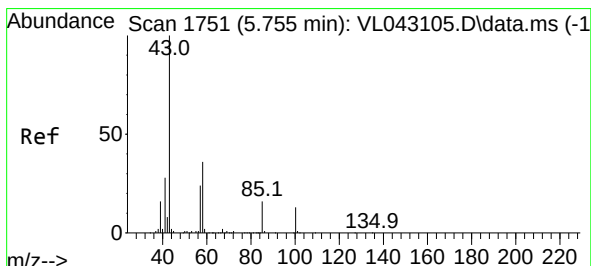
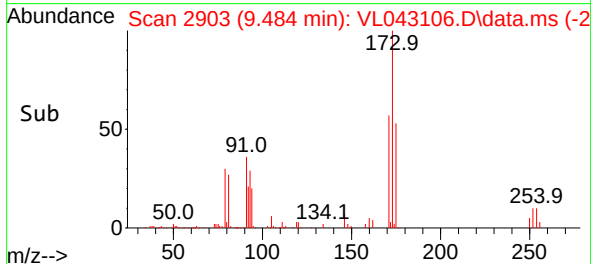
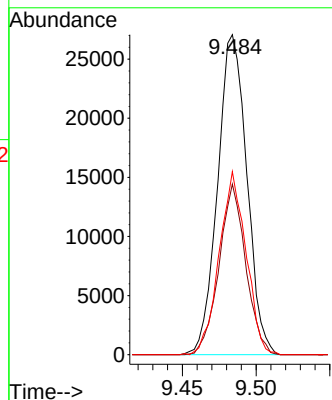
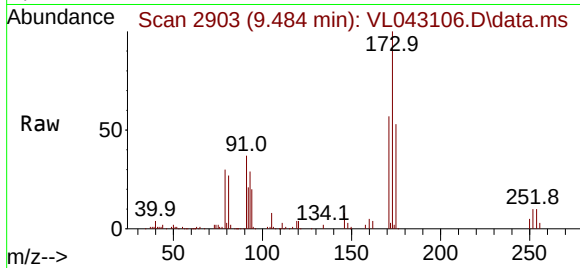
#49
Bromoform
Concen: 2.153 ppbv
RT: 9.484 min Scan# 2904
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion:173 Resp: 37314
Ion Ratio Lower Upper
173 100
175 48.7 38.8 58.2
171 52.7 41.7 62.5

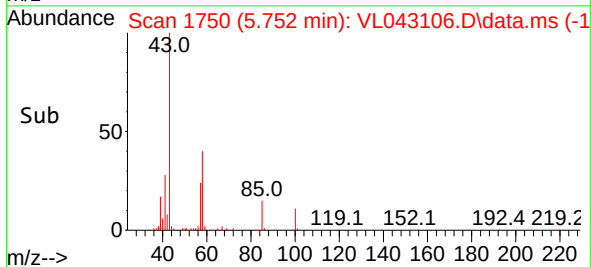
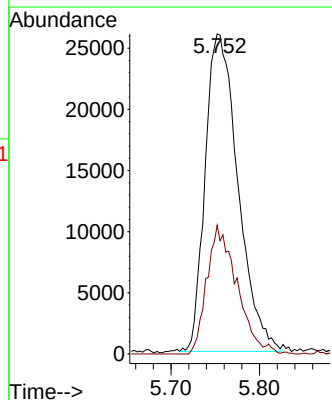
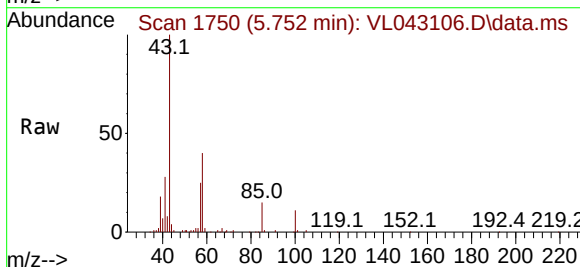
Manual Integrations
APPROVED

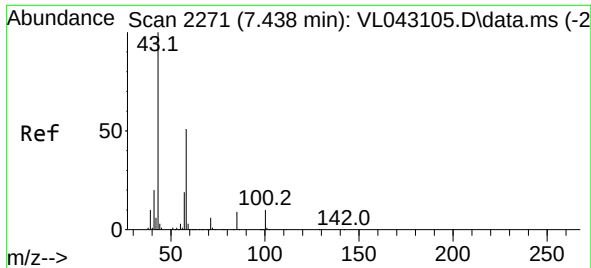
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50
4-Methyl-2-Pentanone
Concen: 2.089 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 66811
Ion Ratio Lower Upper
43 100
58 37.2 29.1 43.7





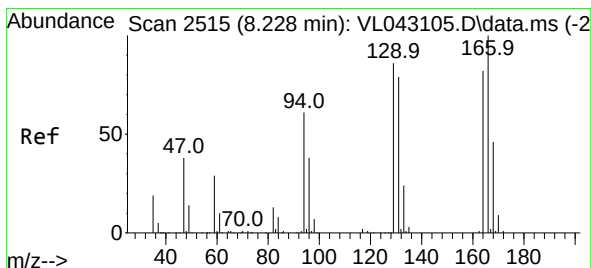
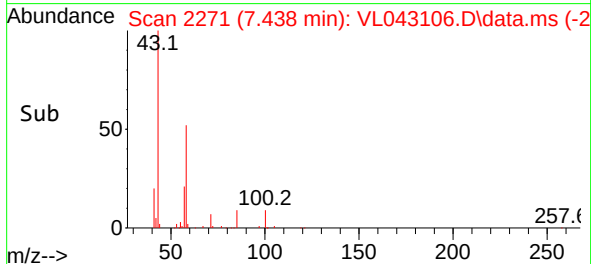
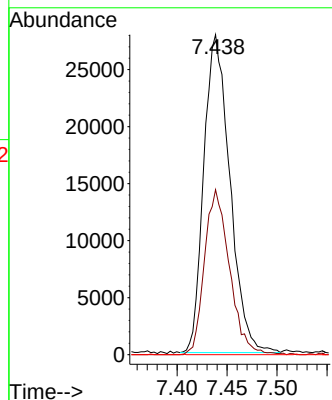
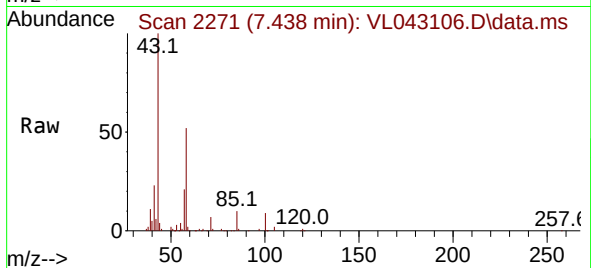
#51
2-Hexanone
Concen: 2.122 ppbv
RT: 7.438 min Scan# 2271
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 5064
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1

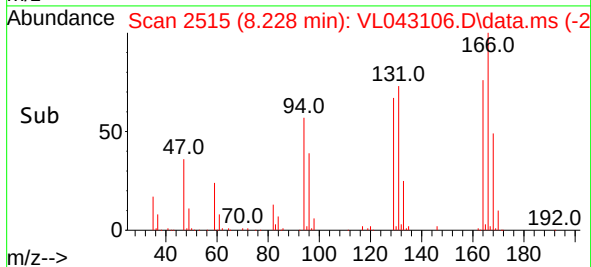
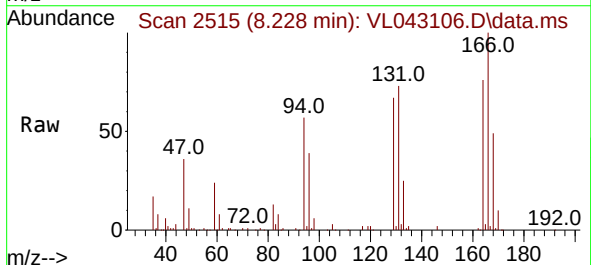
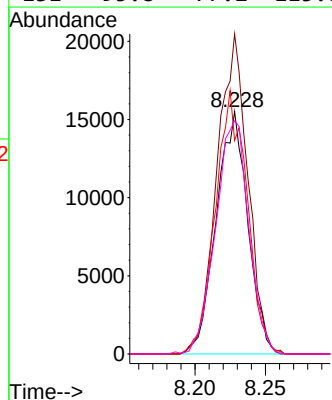
Manual Integrations
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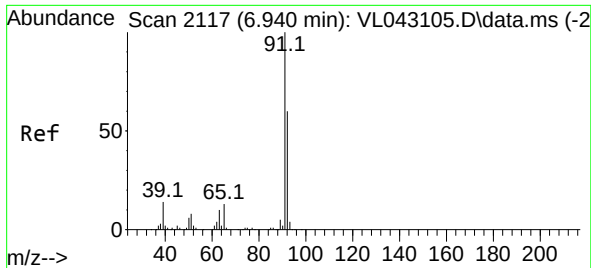
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 2.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

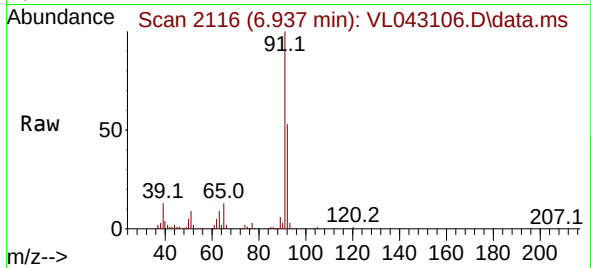
Tgt Ion:164 Resp: 24183
Ion Ratio Lower Upper
164 100
166 132.0 97.6 146.4
129 88.0 84.5 126.7
131 95.8 77.2 115.8





#53
Toluene
Concen: 2.104 ppbv
RT: 6.937 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

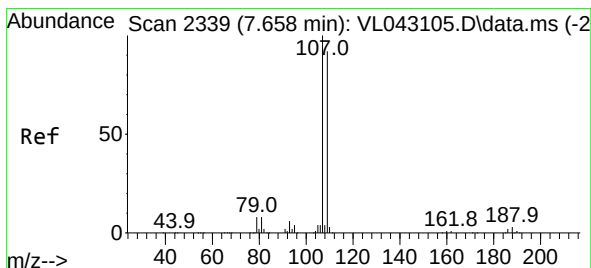
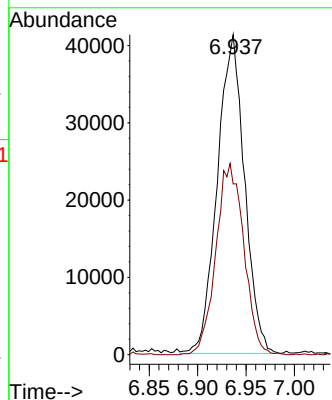
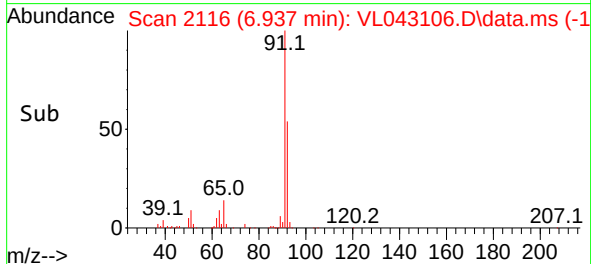
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 91 Resp: 80660
Ion Ratio Lower Upper
91 100
92 61.5 48.8 73.2

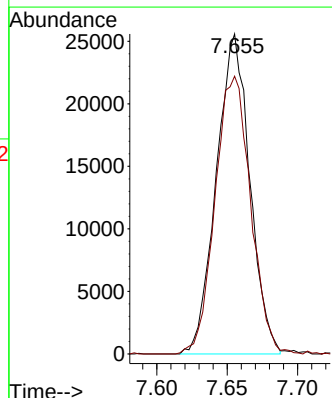
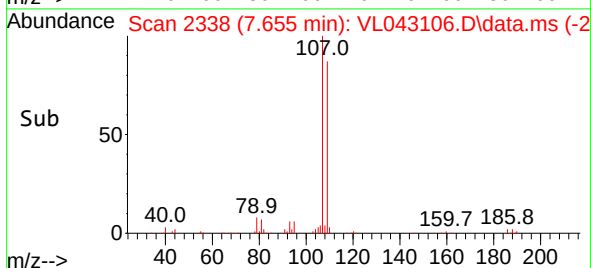
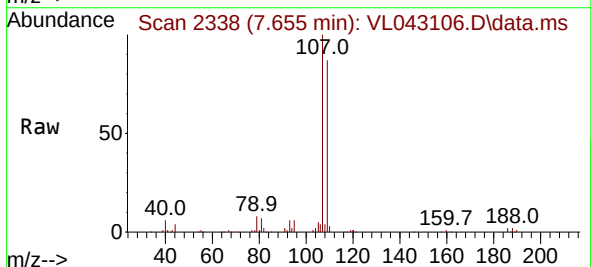
Manual Integrations
APPROVED

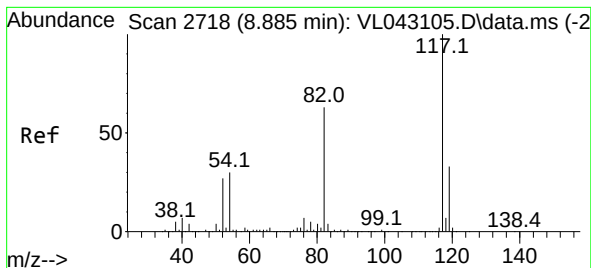
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#54
1,2-Dibromoethane
Concen: 2.103 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:107 Resp: 42320
Ion Ratio Lower Upper
107 100
109 86.5 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2718

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

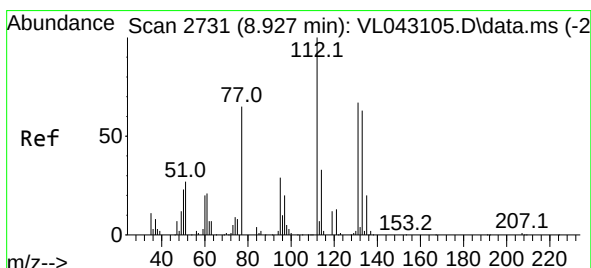
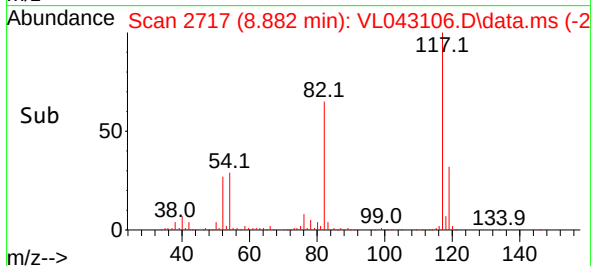
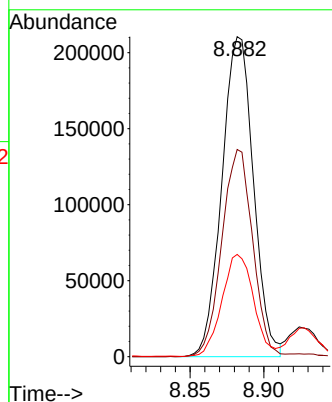
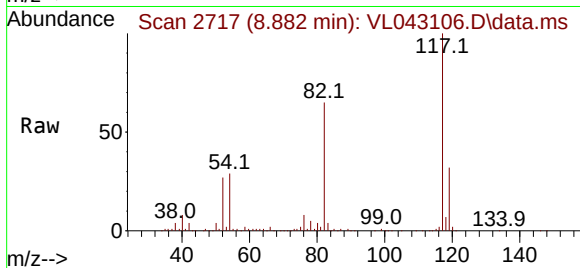
VSTDIC002

Tgt Ion:	117	Resp:	31360
Ion Ratio	Lower	Upper	
117	100		
82	63.9	53.8	80.8
119	32.3	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.110 ppbv

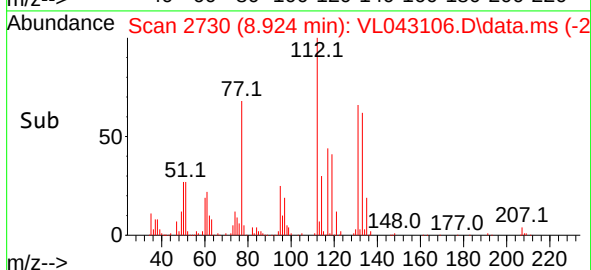
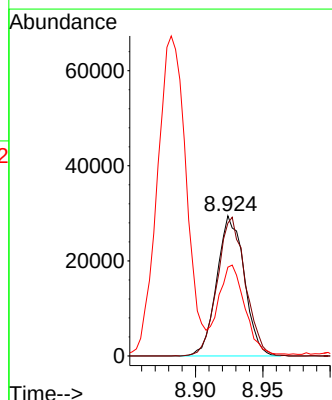
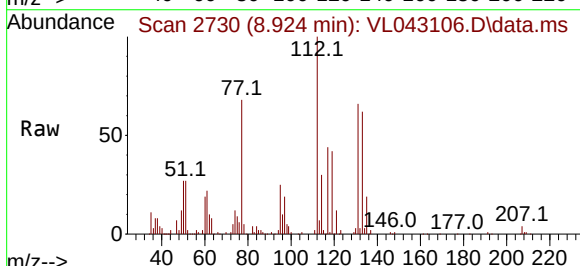
RT: 8.924 min Scan# 2730

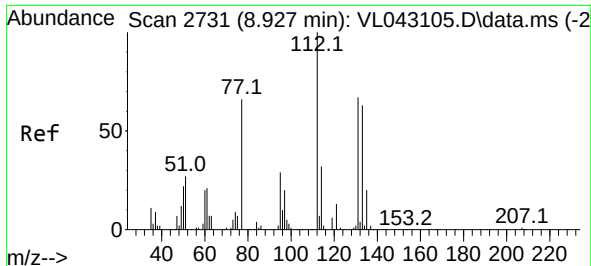
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion:	131	Resp:	41712
Ion Ratio	Lower	Upper	
131	100		
133	101.2	75.7	113.5
119	59.2	50.6	76.0





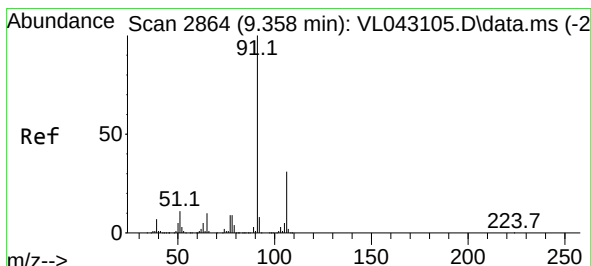
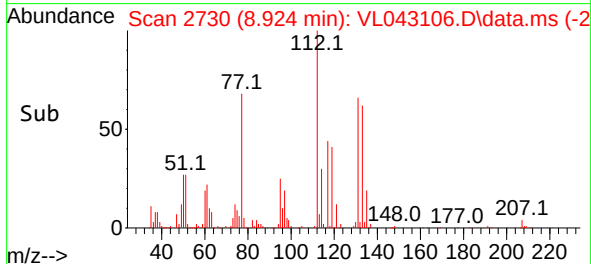
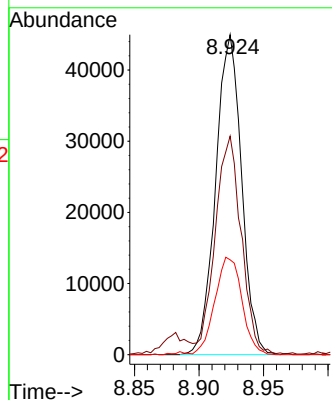
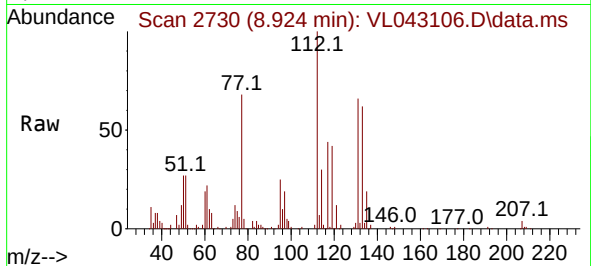
#57
Chlorobenzene
Concen: 2.138 ppbv
RT: 8.924 min Scan# 2731
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:112 Resp: 62714
Ion Ratio Lower Upper
112 100
77 67.8 53.3 79.9
114 29.6 29.3 35.8

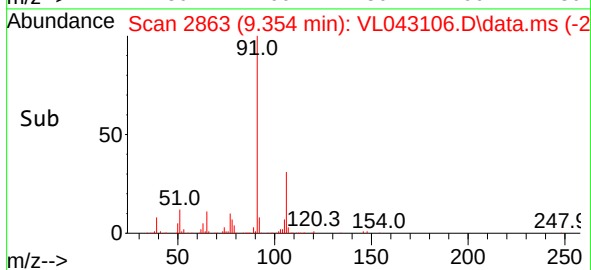
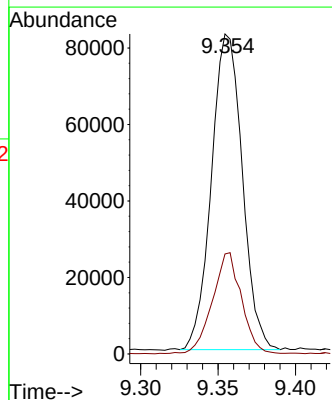
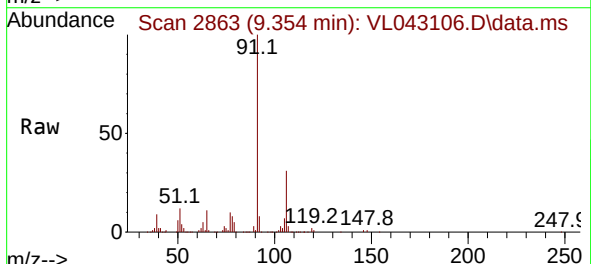
Manual Integrations
APPROVED

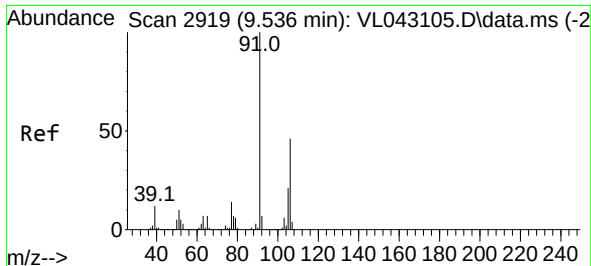
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 2.109 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 114403
Ion Ratio Lower Upper
91 100
106 31.5 24.8 37.2





#59

m/p-Xylene

Concen: 4.311 ppbv m

RT: 9.532 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 185190

Ion Ratio Lower Upper

91 100

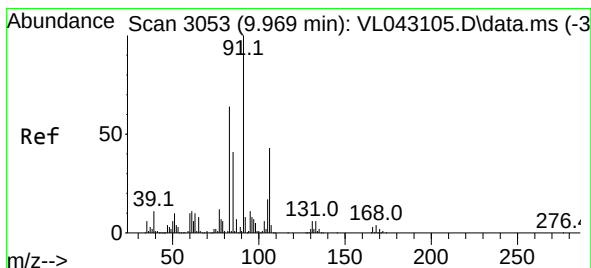
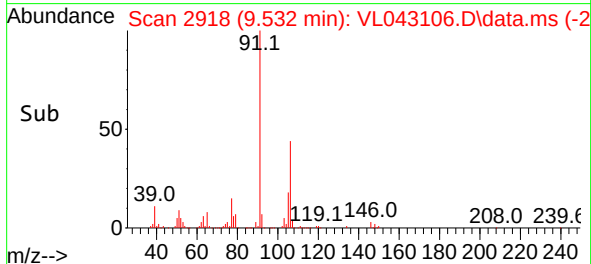
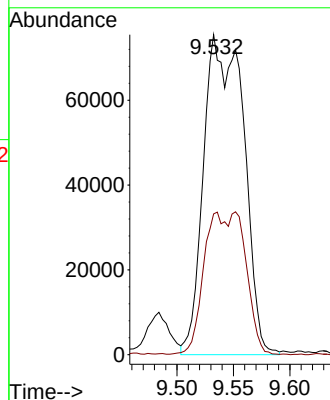
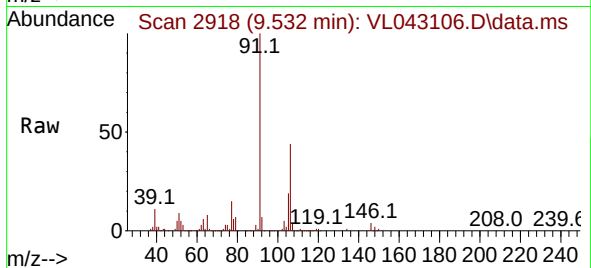
106 0.0 38.0 57.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#60

o-Xylene

Concen: 2.152 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.006 min

Lab File: VL043106.D

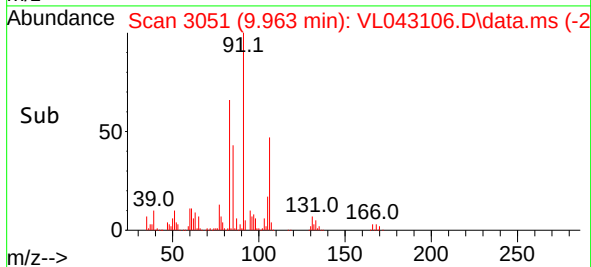
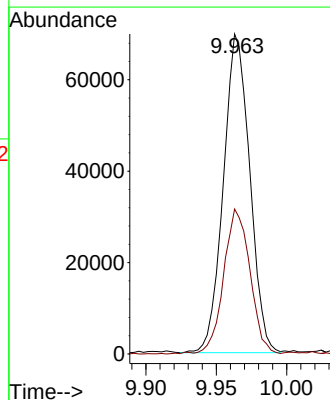
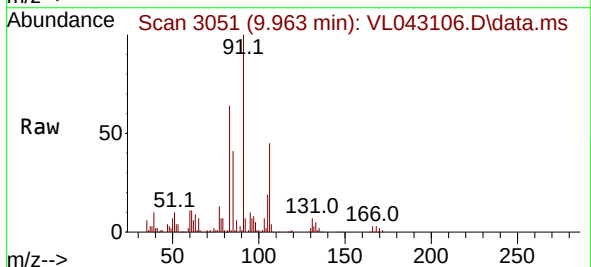
Acq: 14 Oct 2025 11:27

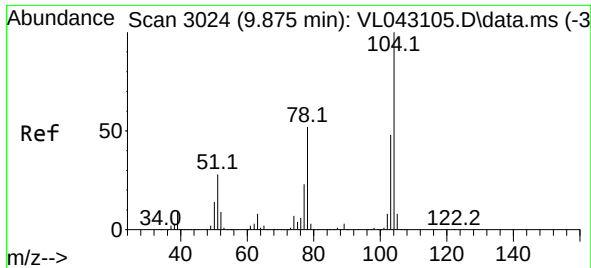
Tgt Ion: 91 Resp: 91223

Ion Ratio Lower Upper

91 100

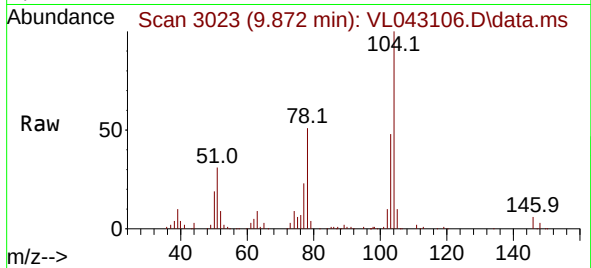
106 45.2 21.9 65.8





#61
Styrene
Concen: 2.175 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

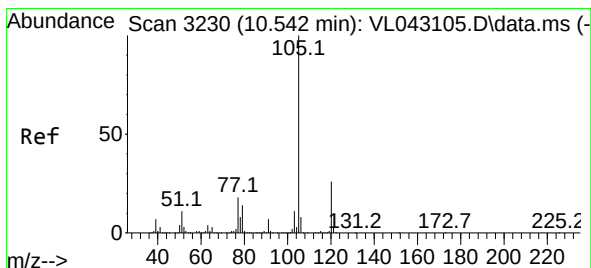
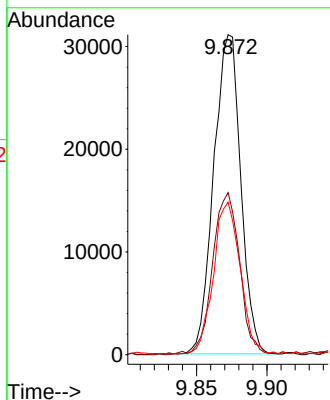
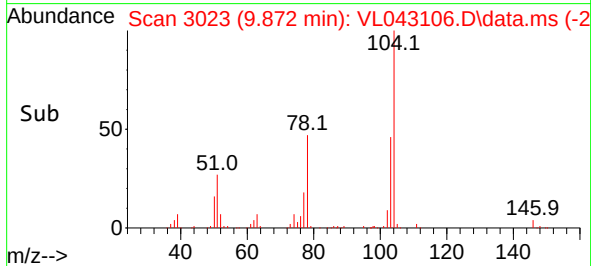
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



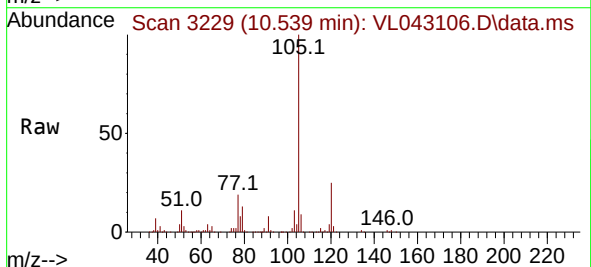
Tgt Ion:104 Resp: 4163
Ion Ratio Lower Upper
104 100
78 51.1 40.2 60.2
103 47.4 36.9 55.3

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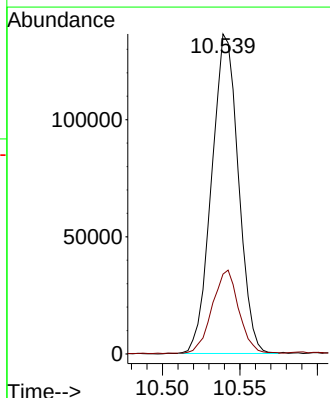
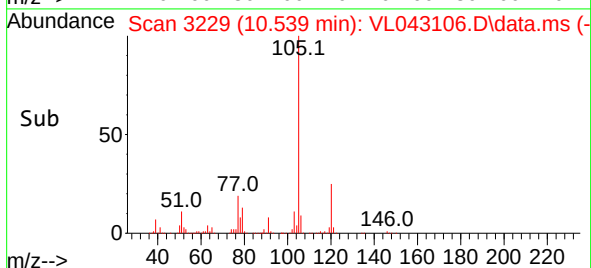
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

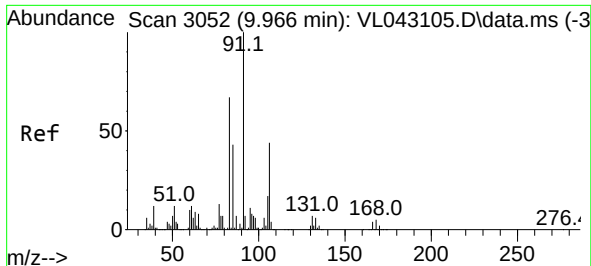


#62
Isopropylbenzene
Concen: 2.142 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion:105 Resp: 164073
Ion Ratio Lower Upper
105 100
120 26.1 20.2 30.4





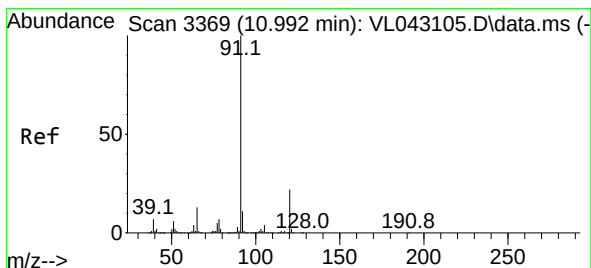
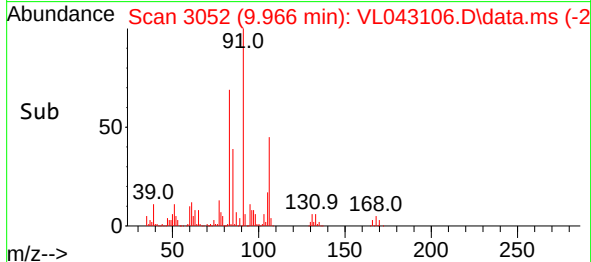
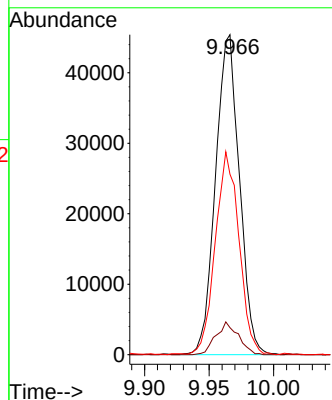
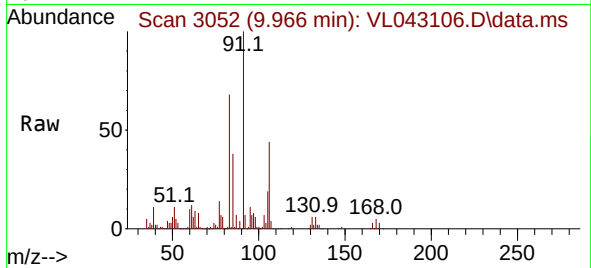
#63
1,1,2,2-Tetrachloroethane
Concen: 2.061 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 58510
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 63.2 32.0 96.0

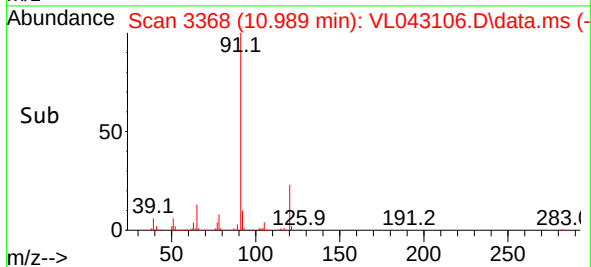
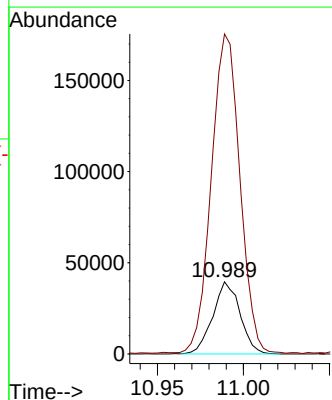
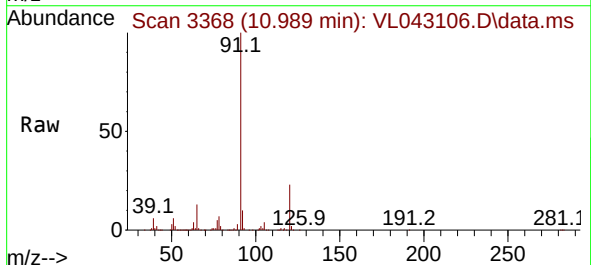
Manual Integrations
APPROVED

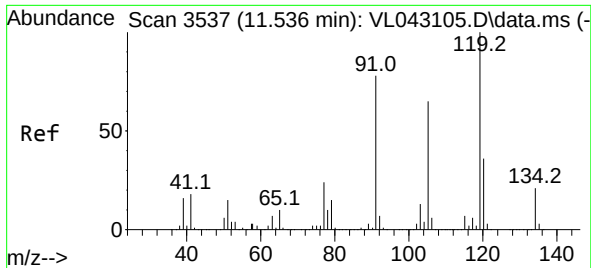
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
n-propylbenzene
Concen: 2.152 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

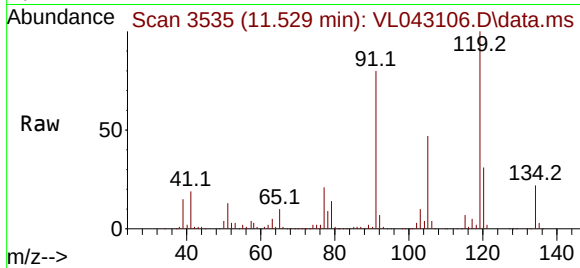
Tgt Ion:120 Resp: 43648
Ion Ratio Lower Upper
120 100
91 462.4 361.6 542.4





#65
tert-Butylbenzene
Concen: 2.192 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

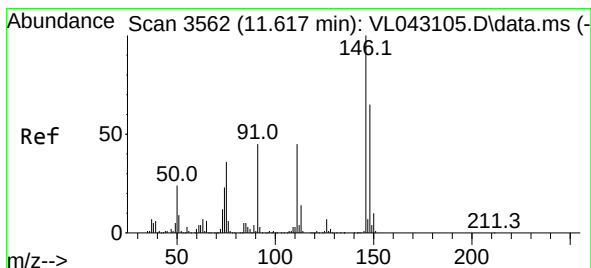
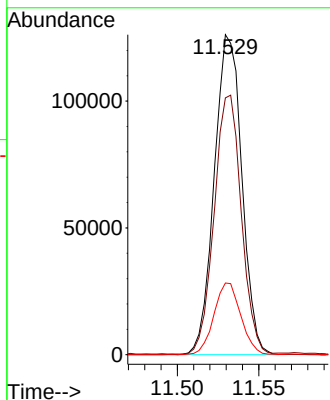
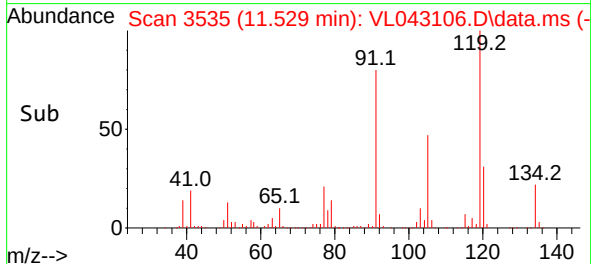
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



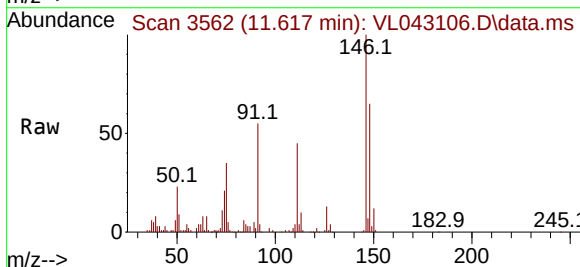
Tgt Ion:119 Resp: 148300
Ion Ratio Lower Upper
119 100
91 80.2 63.4 95.0
134 22.0 17.3 25.9

Manual Integrations
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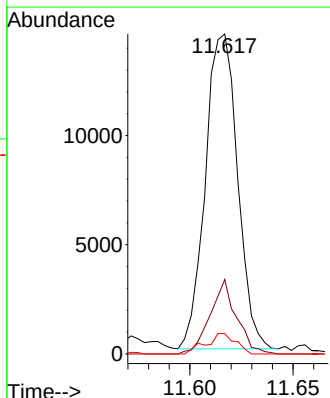
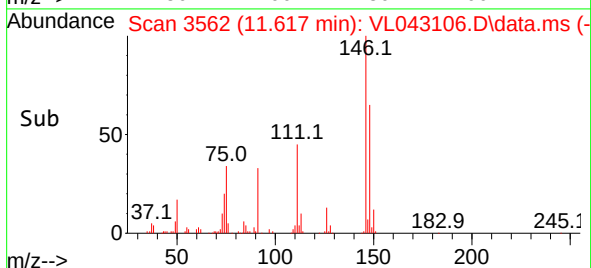
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

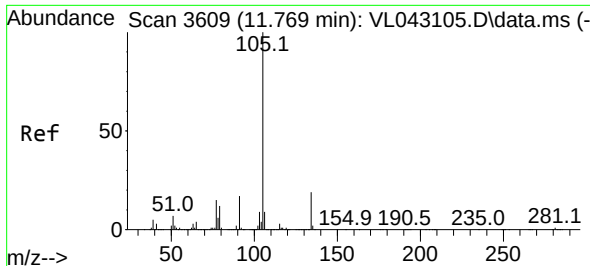


#66
Benzyl Chloride
Concen: 2.072 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion: 91 Resp: 15656
Ion Ratio Lower Upper
91 100
126 19.2 14.6 22.0
128 5.9 4.6 6.8





#67

sec-Butylbenzene

Concen: 2.193 ppbv

RT: 11.769 min Scan# 3105

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 210529

Ion Ratio Lower Upper

105 100

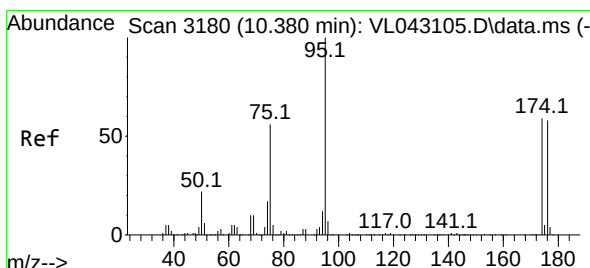
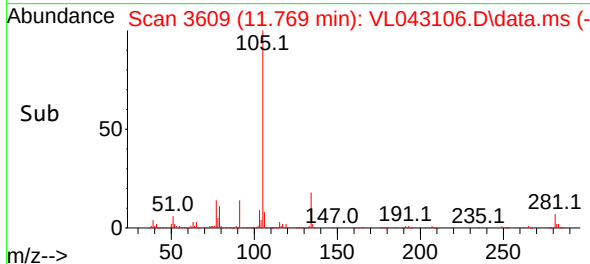
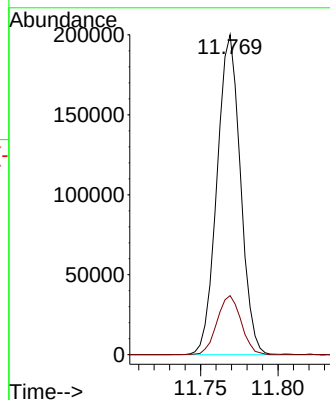
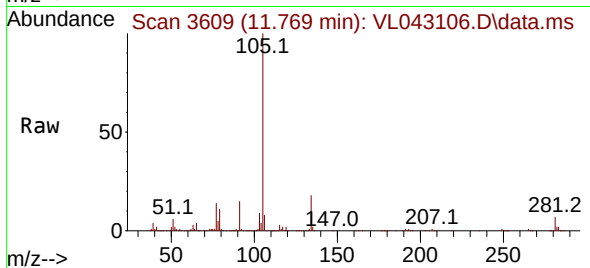
134 18.9 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.024 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

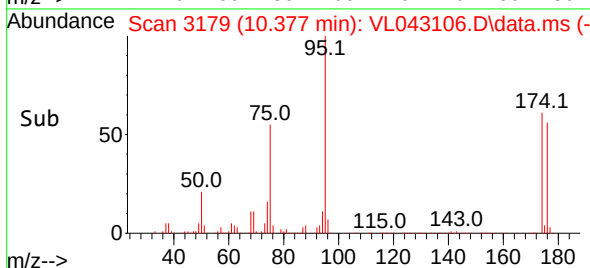
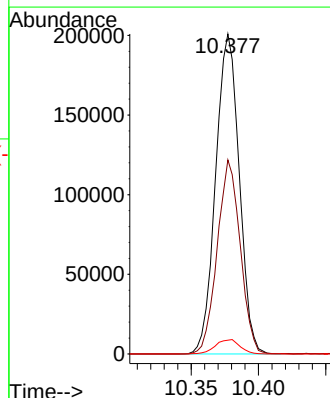
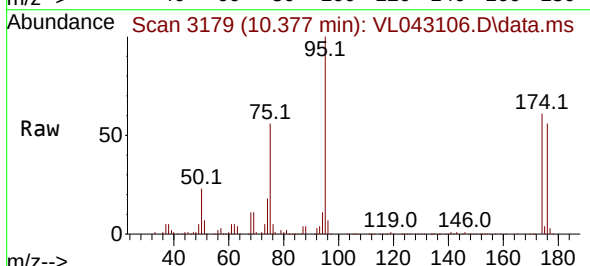
Tgt Ion: 95 Resp: 244329

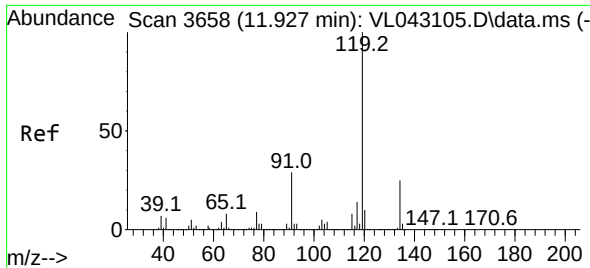
Ion Ratio Lower Upper

95 100

174 59.2 48.3 72.5

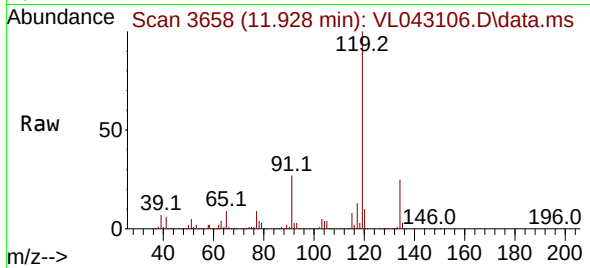
175 4.7 3.8 5.8





#69
p-Isopropyltoluene
Concen: 2.207 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

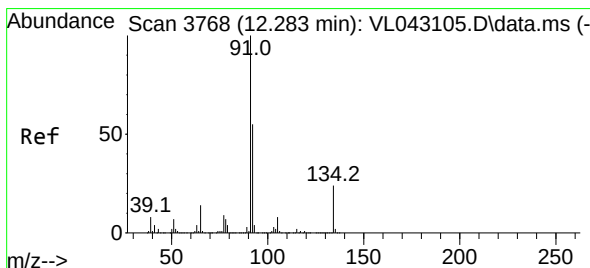
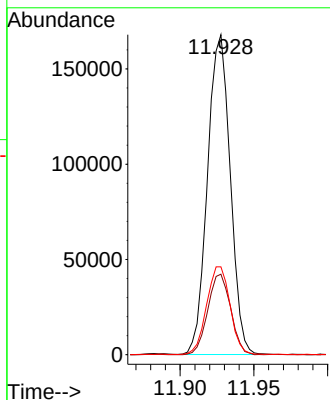
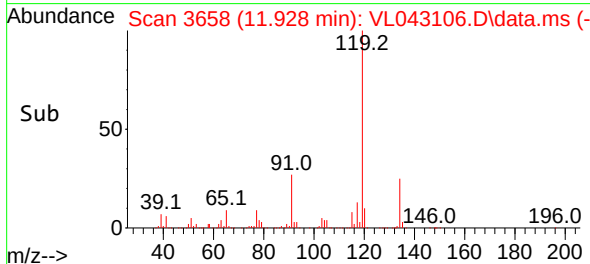
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



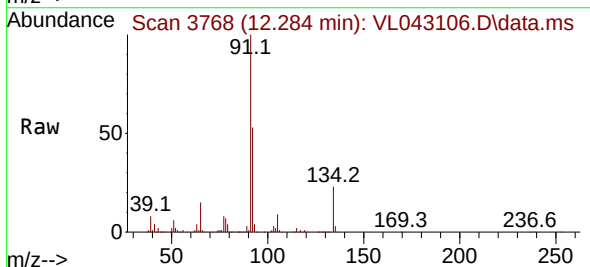
Tgt Ion:119 Resp: 180060
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 29.0 22.6 33.8

Manual Integrations
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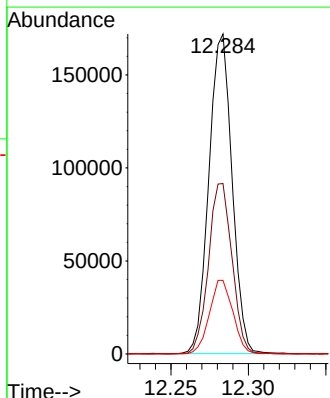
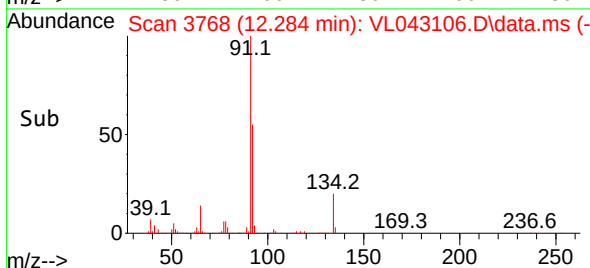
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

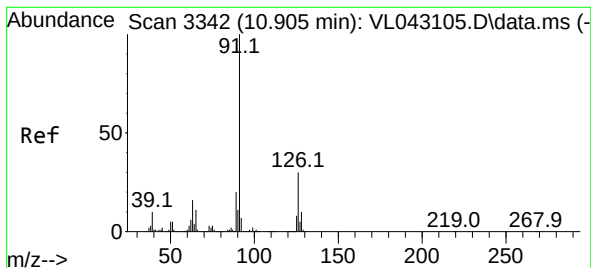


#70
n-Butylbenzene
Concen: 2.222 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion: 91 Resp: 178676
Ion Ratio Lower Upper
91 100
92 54.2 44.5 66.7
134 23.4 19.3 28.9





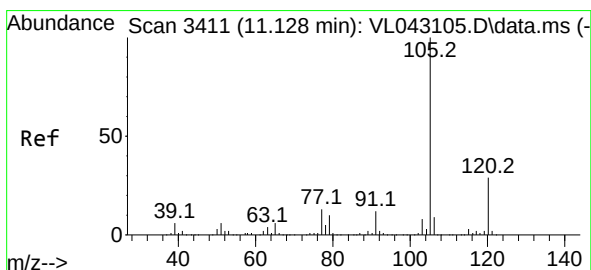
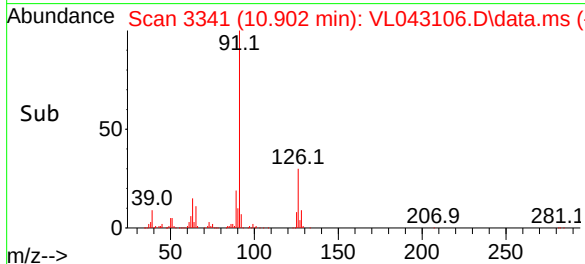
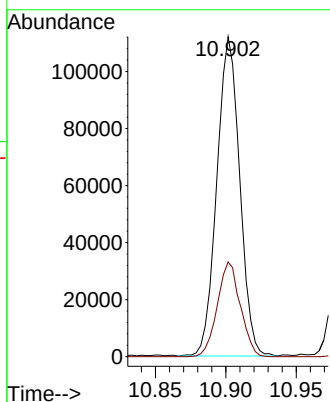
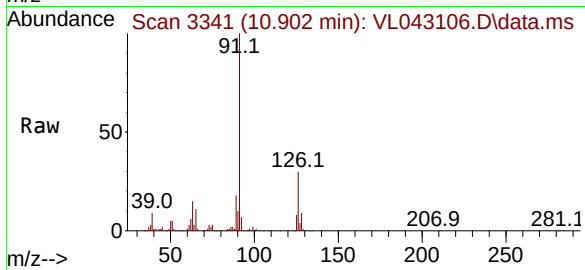
#71
2-Chlorotoluene
Concen: 2.166 ppbv
RT: 10.902 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 12655
Ion Ratio Lower Upper
91 100
126 29.7 12.0 48.0

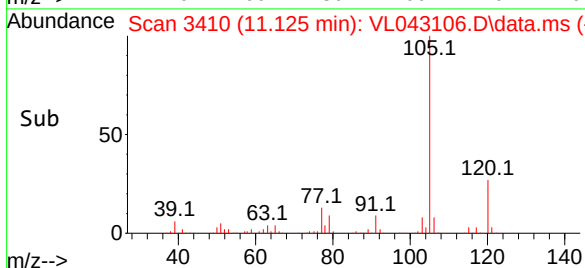
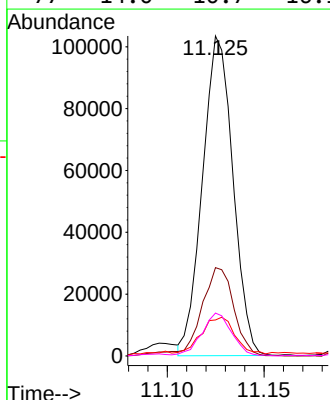
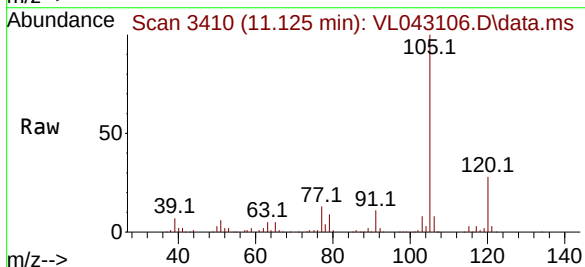
Manual Integrations
APPROVED

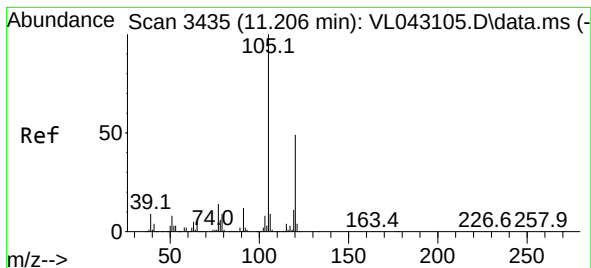
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 2.172 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 113233
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 14.8 10.0 15.0
77 14.0 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 2.155 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 92650

Ion Ratio Lower Upper

105 100

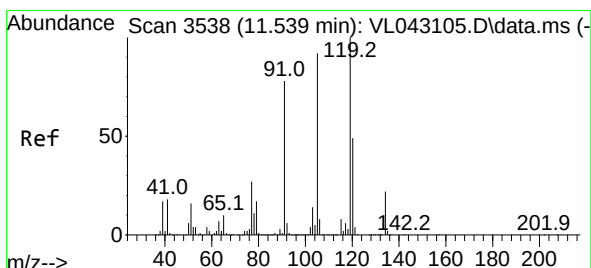
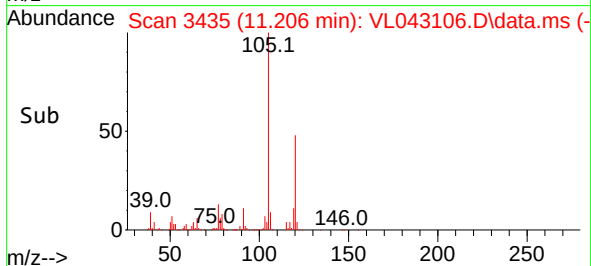
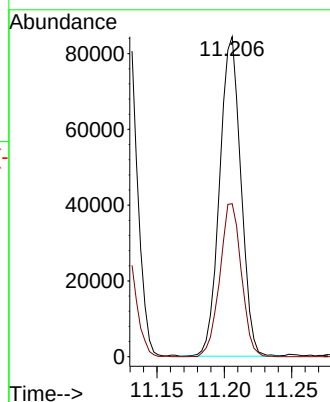
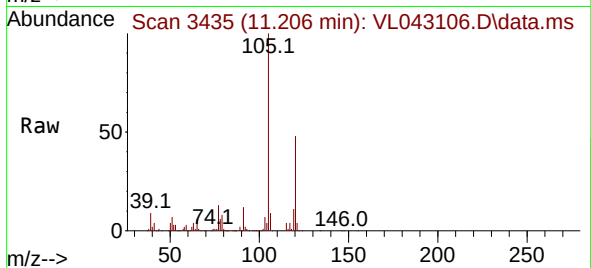
120 47.9 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.169 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352

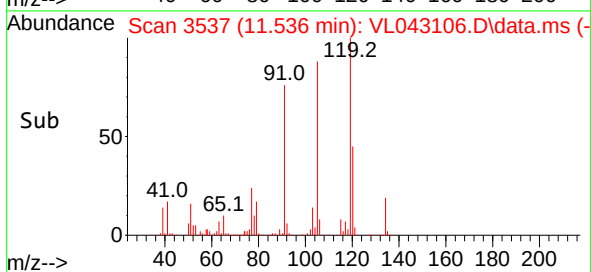
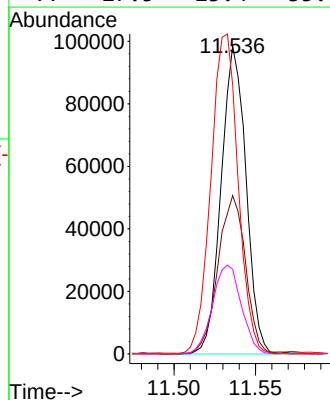
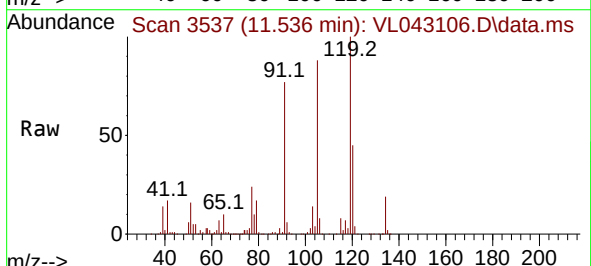
Ion Ratio Lower Upper

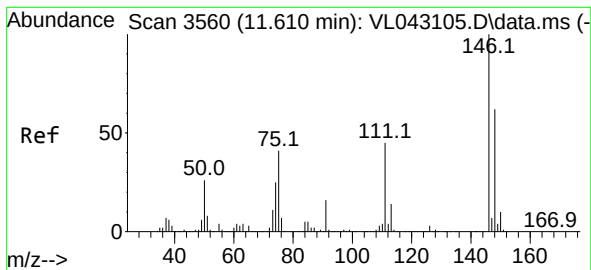
105 100

120 51.4 42.8 64.2

91 87.0 68.3 102.5

77 27.5 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 2.247 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:146 Resp: 62709

Ion Ratio Lower Upper

146 100

111 45.8 23.3 69.9

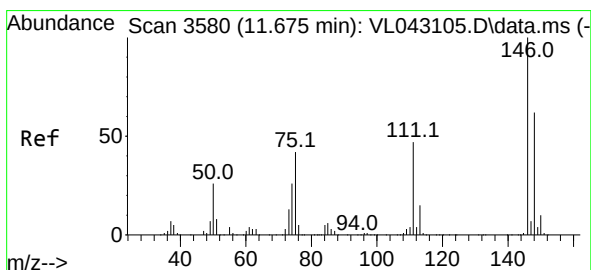
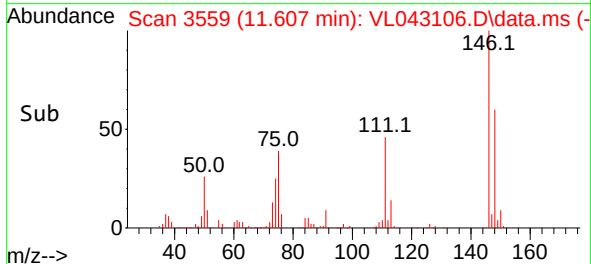
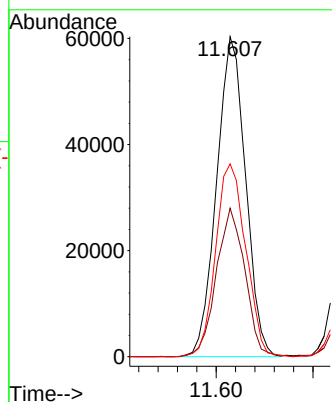
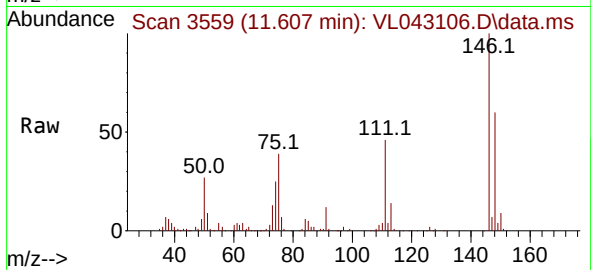
148 62.6 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 2.164 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

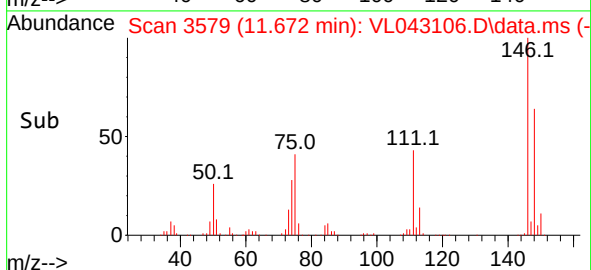
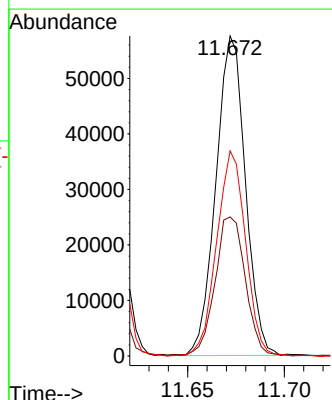
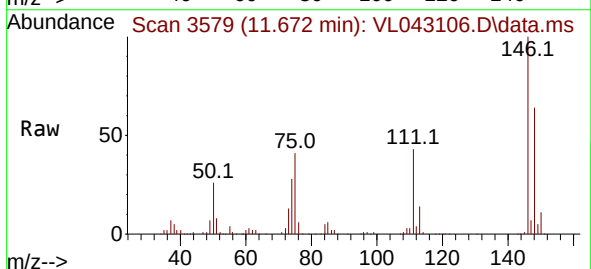
Tgt Ion:146 Resp: 60877

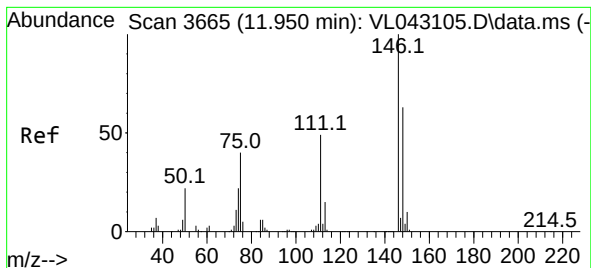
Ion Ratio Lower Upper

146 100

111 44.9 22.4 67.0

148 63.3 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 2.123 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

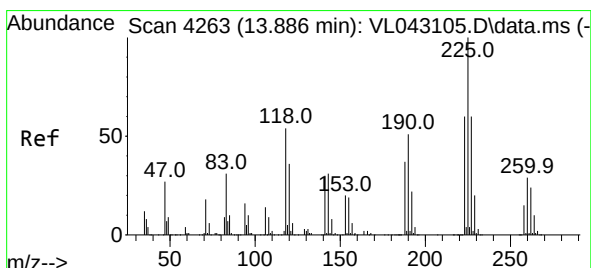
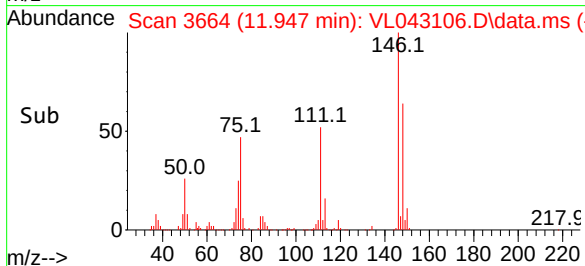
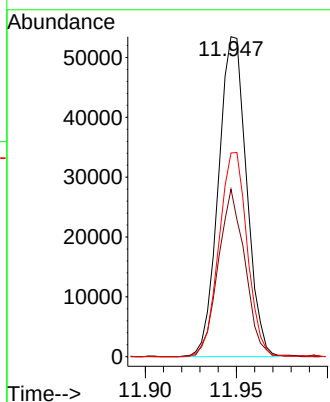
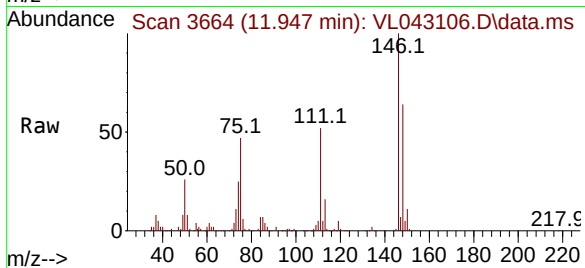
Tgt Ion:146 Resp: 57304

Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.0	72.0
148	64.3	31.1	93.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.239 ppbv

RT: 13.883 min Scan# 4262

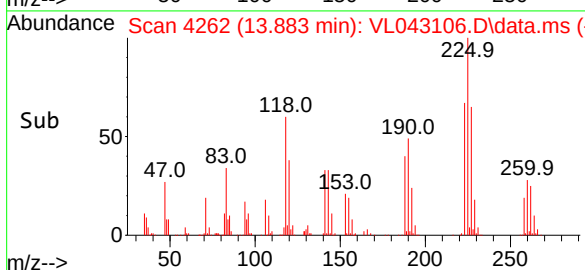
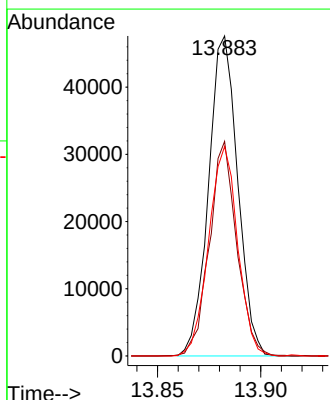
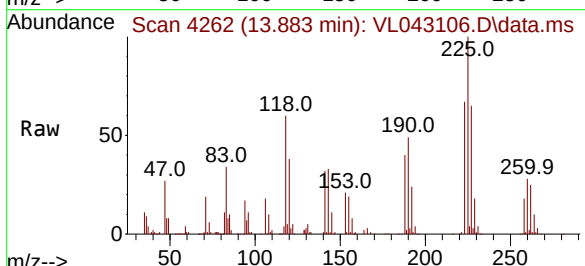
Delta R.T. -0.003 min

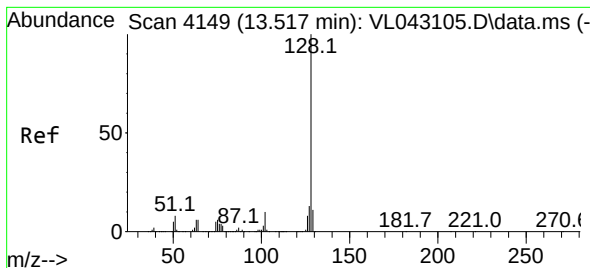
Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion:225 Resp: 46796

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.2	75.4
227	65.2	49.6	74.4





#79

Naphthalene

Concen: 2.488 ppbv

RT: 13.514 min Scan# 4149

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

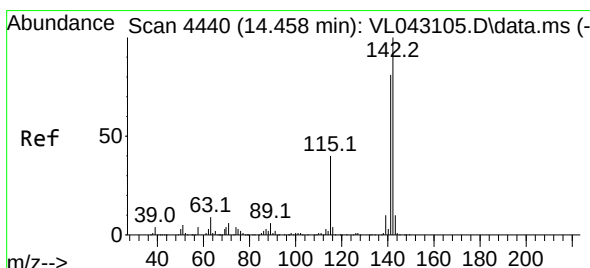
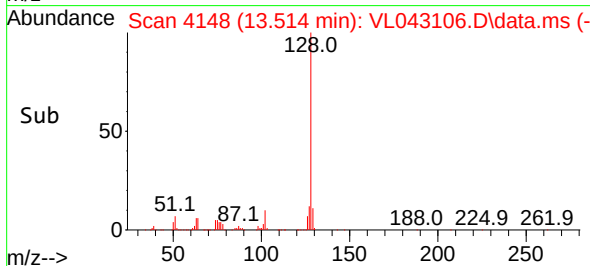
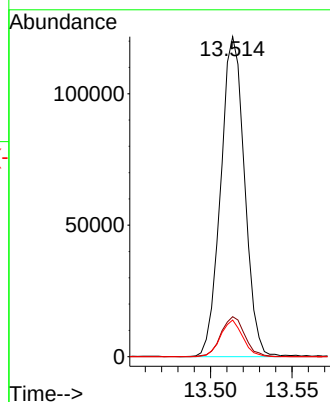
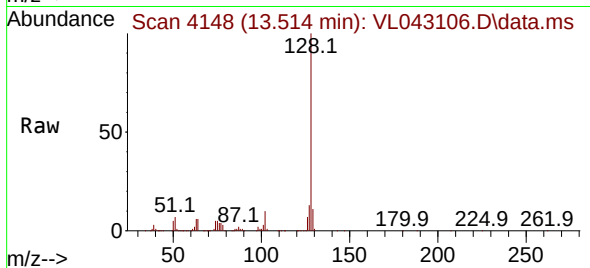
VSTDIC002

Tgt Ion:	128	Resp:	12364
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.5	15.7
129	11.4	9.1	13.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 2.462 ppbv

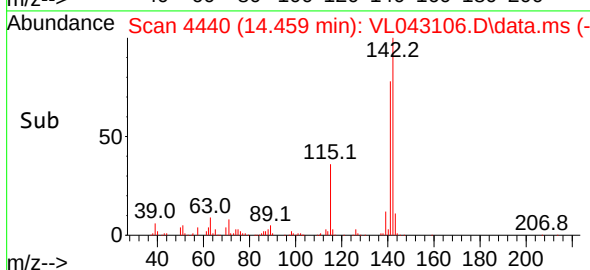
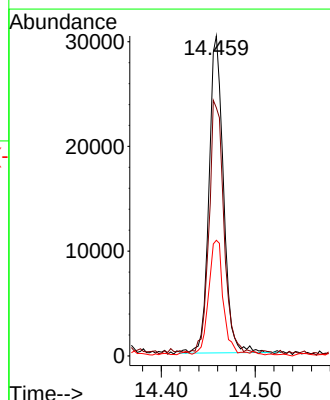
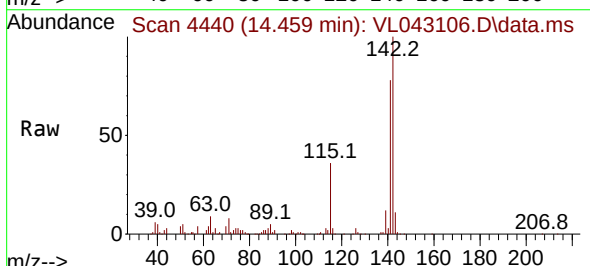
RT: 14.459 min Scan# 4440

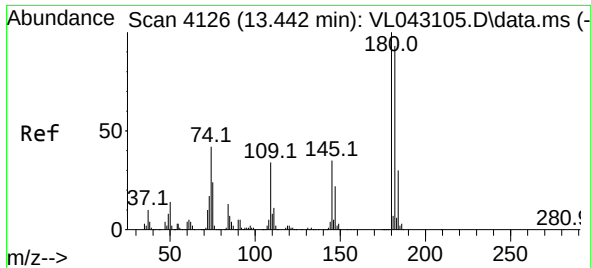
Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

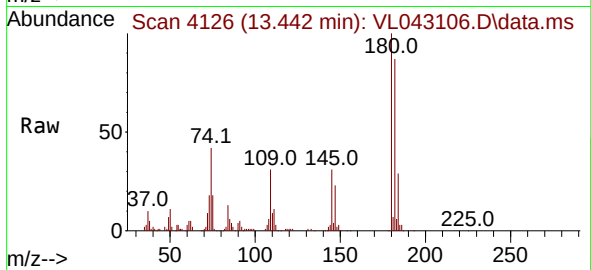
Tgt Ion:	142	Resp:	32308
Ion Ratio	Lower	Upper	
142	100		
141	82.6	64.6	97.0
115	39.7	30.2	45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 2.414 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

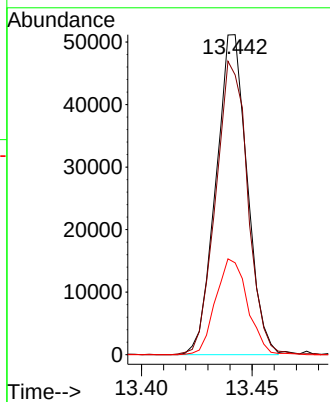
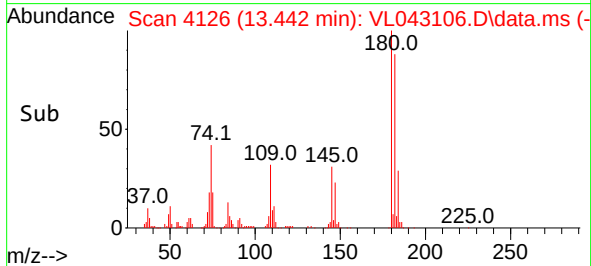
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180	Resp:	50394
Ion Ratio	Lower	Upper
180	100	
182	93.9	75.5 113.3
184	30.6	23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	102307	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	336268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	305409	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 235307 9.912 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	15620	1.074	ppbv	99
3) Chlorodifluoromethane	1.476	51	16692	1.061	ppbv #	91
4) Chloromethane	1.534	50	6353	1.103	ppbv	93
5) Vinyl Chloride	1.580	62	5694	1.008	ppbv	96
6) Bromomethane	1.667	94	3462	1.117	ppbv	98
7) Chloroethane	1.706	64	2615	1.132	ppbv #	82
8) Dichlorotetrafluoroethane	1.554	85	12940	1.101	ppbv	98
9) Propene	1.483	41	7291	1.045	ppbv	100
10) Heptane	4.978	43	22011	1.100	ppbv	99
11) Trichlorofluoromethane	1.877	101	14927	1.049	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.140	101	12484	1.090	ppbv	99
13) Ethanol	1.722	45	3143	1.217	ppbv	83
14) Bromoethene	1.780	108	4440	1.043	ppbv #	90
15) Acetone	1.835	43	15572	1.123	ppbv	90
16) 1,3-Butadiene	1.609	39	7157	1.089	ppbv	97
17) tert-Butyl alcohol	2.043	59	20941	1.106	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	5510	1.103	ppbv	88
19) Isopropyl Alcohol	1.887	45	9796	1.141	ppbv #	85
20) Methylene Chloride	2.062	84	6261	1.149	ppbv	96
21) Allyl Chloride	2.094	41	10737	1.055	ppbv #	82
22) trans-1,2-Dichloroethene	2.340	96	7119	1.193	ppbv	92
23) Vinyl Acetate	2.463	43	19477	0.964	ppbv	99
24) 1,1-Dichloroethane	2.405	63	12656	1.097	ppbv #	94
25) Ethyl Acetate	2.832	43	37093	1.085	ppbv	98
26) Hexane	2.826	57	17152	1.089	ppbv	98
27) Carbon Disulfide	2.149	76	15760	1.092	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	7847	1.095	ppbv #	87
29) Chloroform	2.845	83	24527	1.074	ppbv	90
30) Cyclohexane	3.855	84	14819	1.078	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	16311	1.084	ppbv	93
32) 1,1,1-Trichloroethane	3.366	97	24948	1.049	ppbv	98
34) 2-Butanone	2.557	43	23811	1.047	ppbv	100
35) Carbon Tetrachloride	3.761	117	24969	1.033	ppbv	93
36) Benzene	3.651	78	32940	1.040	ppbv	99
37) 1,2-Dichloroethane	3.217	62	19213	1.053	ppbv	100
38) Trichloroethene	4.544	130	13512	1.023	ppbv	96
39) 1,2-Dichloropropane	4.311	63	12435	1.073	ppbv	92
40) 1,4-Dioxane	4.593	88	5579m	1.077	ppbv	
41) Tetrahydrofuran	3.056	42	13251	1.044	ppbv	99
42) Bromodichloromethane	4.486	83	26069	1.032	ppbv #	94
43) Methyl Methacrylate	4.878	69	17195	1.064	ppbv	97
44) 2,2,4-Trimethylpentane	4.638	57	57382	1.084	ppbv	96
45) t-1,3-Dichloropropene	6.415	75	16874m	1.045	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

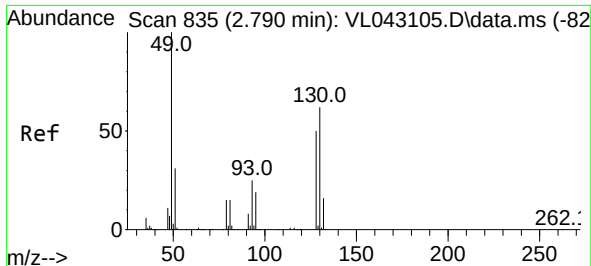
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	19830	1.029	ppbv	94
47) 1,1,2-Trichloroethane	6.577	97	12876	1.030	ppbv	98
48) Dibromochloromethane	7.383	129	21874	1.046	ppbv	97
49) Bromoform	9.480	173	17320	1.019	ppbv	96
50) 4-Methyl-2-Pentanone	5.752	43	33269m	1.061	ppbv	
51) 2-Hexanone	7.441	43	23817	1.018	ppbv #	95
52) Tetrachloroethene	8.224	164	12319	1.079	ppbv	91
53) Toluene	6.930	91	39079	1.040	ppbv	98
54) 1,2-Dibromoethane	7.652	107	19711	0.999	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.920	131	20279	1.053	ppbv	96
57) Chlorobenzene	8.920	112	30824	1.079	ppbv	97
58) Ethyl Benzene	9.351	91	55420	1.049	ppbv	96
59) m/p-Xylene	9.552	91	88998m	2.127	ppbv	
60) o-Xylene	9.963	91	44925	1.088	ppbv	100
61) Styrene	9.869	104	19809	1.063	ppbv	98
62) Isopropylbenzene	10.535	105	81579	1.093	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	28230	1.021	ppbv	100
64) n-propylbenzene	10.985	120	21685	1.098	ppbv	98
65) tert-Butylbenzene	11.529	119	72781	1.105	ppbv	99
66) Benzyl Chloride	11.613	91	7918	1.076	ppbv	97
67) sec-Butylbenzene	11.765	105	103152	1.103	ppbv	100
69) p-Isopropyltoluene	11.924	119	88443	1.113	ppbv	99
70) n-Butylbenzene	12.280	91	86120	1.100	ppbv	98
71) 2-Chlorotoluene	10.898	91	60994	1.072	ppbv	99
72) 4-Ethyltoluene	11.121	105	53788	1.059	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	44786	1.070	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	52118	1.112	ppbv	95
75) 1,3-Dichlorobenzene	11.604	146	29186	1.074	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	29225	1.066	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	29146	1.109	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	23330	1.146	ppbv	99
79) Naphthalene	13.510	128	53930	1.114	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	10851	0.849	ppbv	94
81) 1,2,4-Trichlorobenzene	13.439	180	22161	1.090	ppbv	98

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



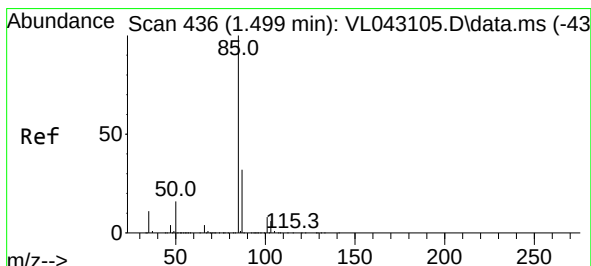
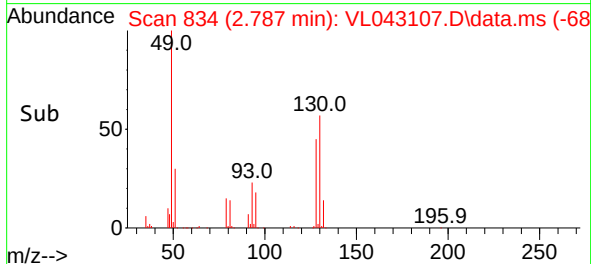
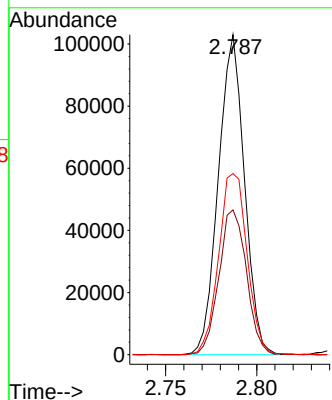
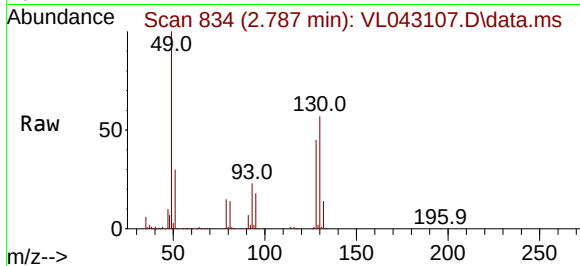
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 10230
Ion Ratio Lower Upper
49 100
128 48.0 24.4 73.4
130 62.0 31.0 93.0

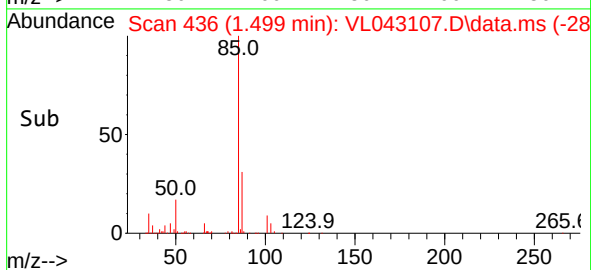
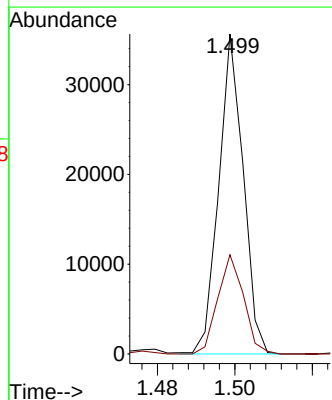
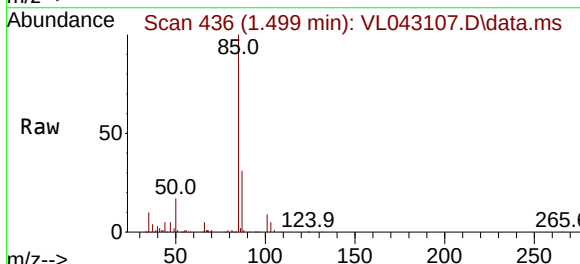
Manual Integrations
APPROVED

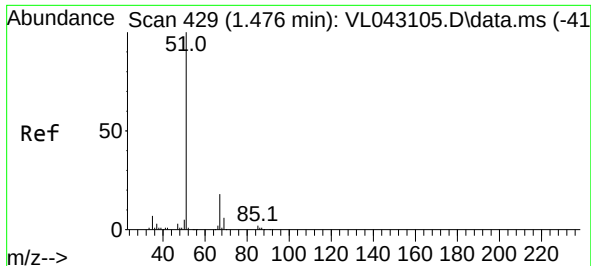
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 1.074 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620
Ion Ratio Lower Upper
85 100
87 31.0 25.3 37.9





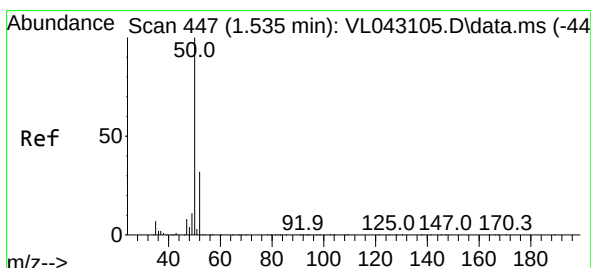
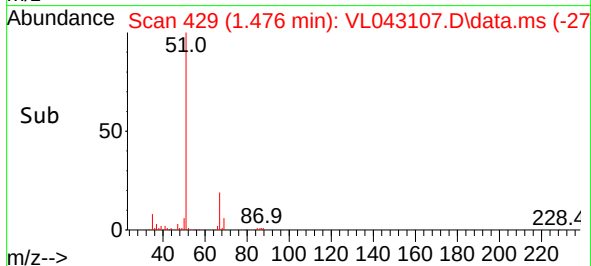
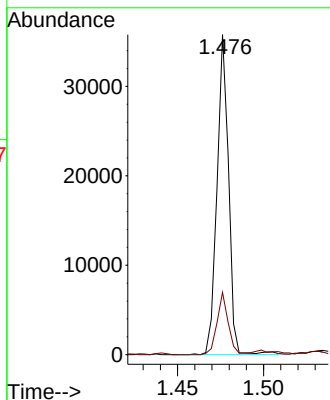
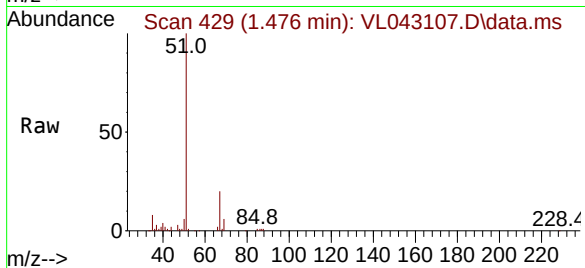
#3
Chlorodifluoromethane
Concen: 1.061 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 51 Resp: 16692
Ion Ratio Lower Upper
51 100
67 22.8 15.1 22.75

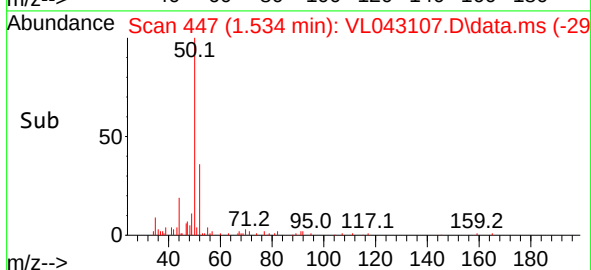
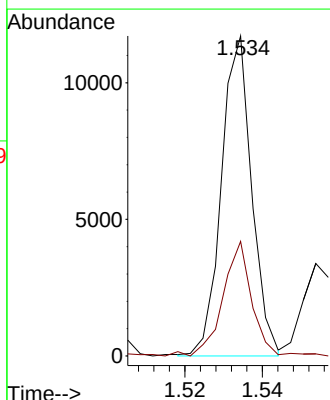
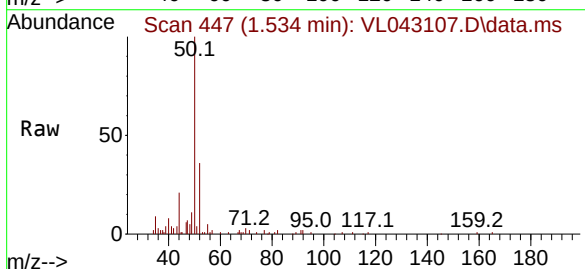
Manual Integrations
APPROVED

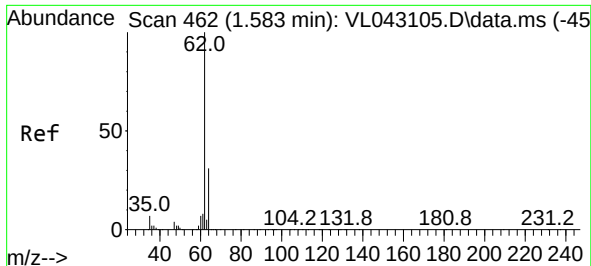
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 1.103 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

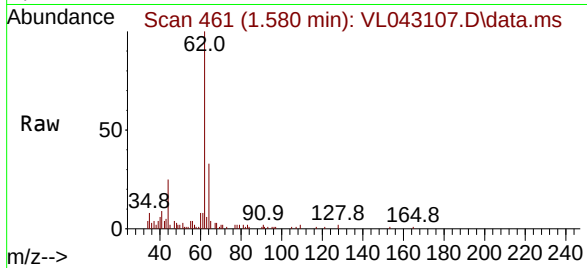
Tgt Ion: 50 Resp: 6353
Ion Ratio Lower Upper
50 100
52 35.6 25.2 37.8





#5
 Vinyl Chloride
 Concen: 1.008 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

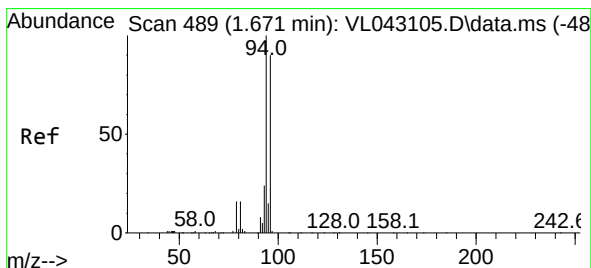
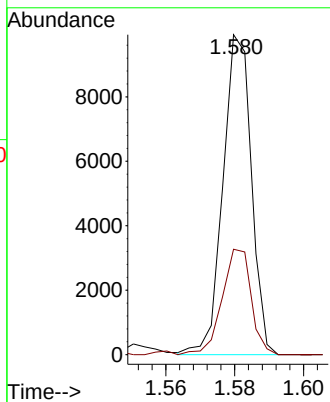
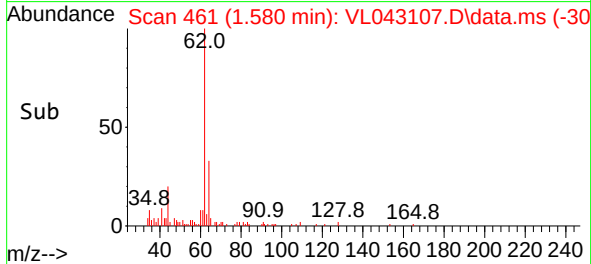
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



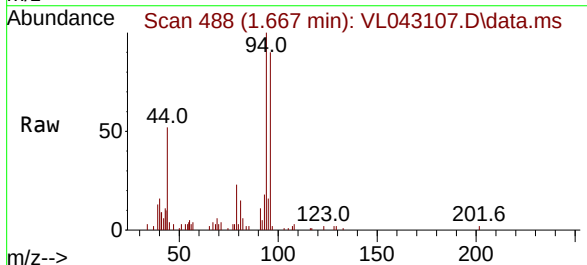
Tgt Ion: 62 Resp: 5694
 Ion Ratio Lower Upper
 62 100
 64 32.9 24.6 36.8

Manual Integrations
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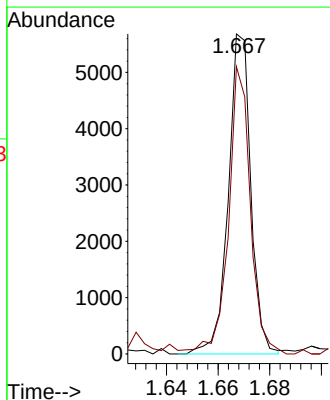
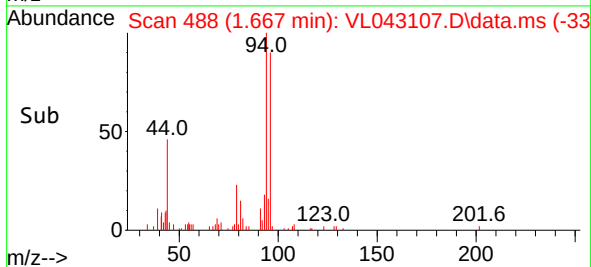
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

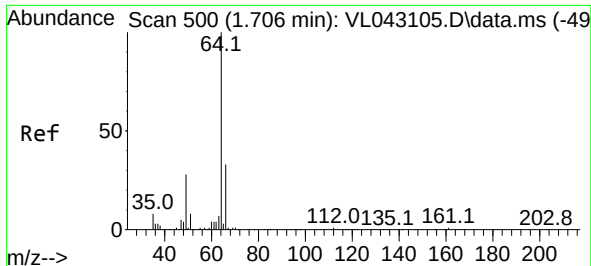


#6
 Bromomethane
 Concen: 1.117 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01



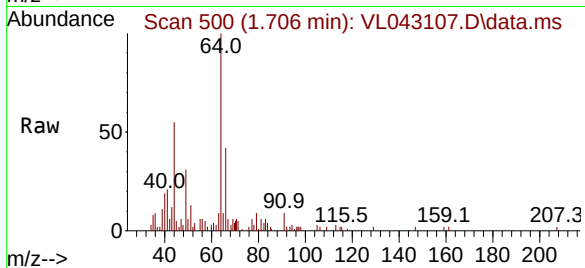
Tgt Ion: 94 Resp: 3462
 Ion Ratio Lower Upper
 94 100
 96 88.6 72.2 108.4





#7
Chloroethane
Concen: 1.132 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

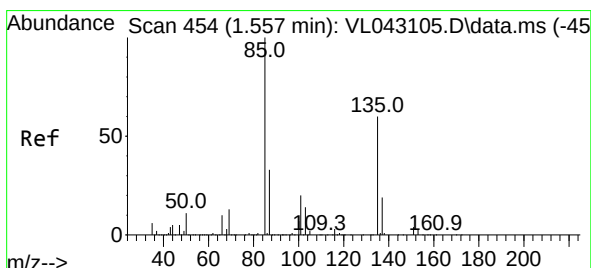
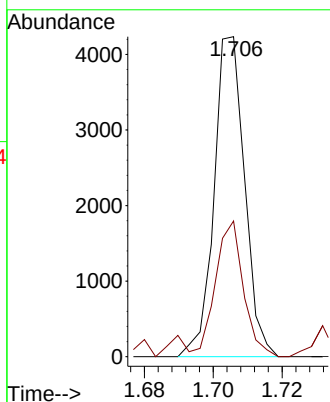
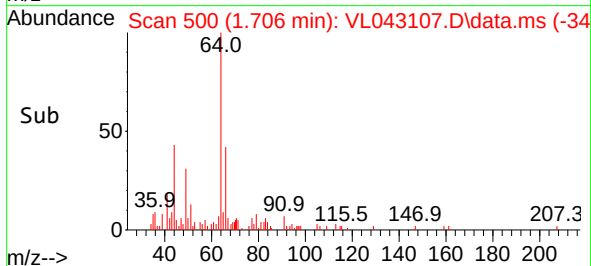
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 64 Resp: 261
Ion Ratio Lower Upper
64 100
66 42.4 26.0 39.0

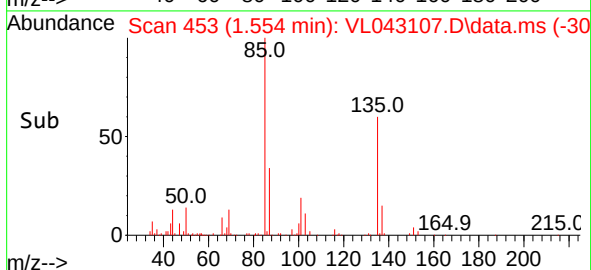
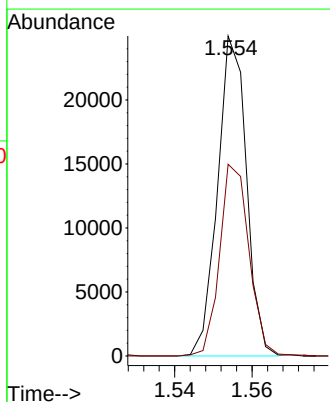
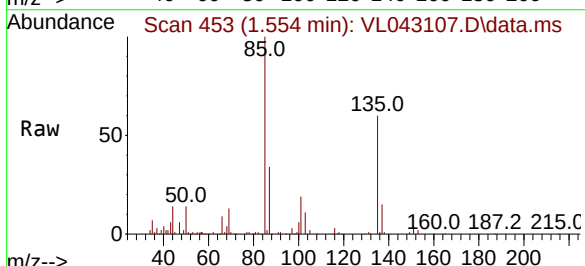
Manual Integrations
APPROVED

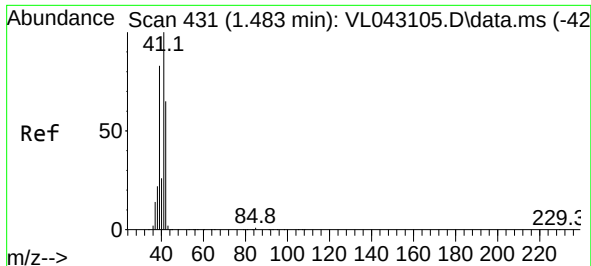
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 1.101 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

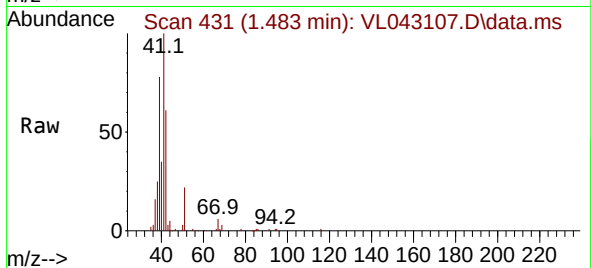
Tgt Ion: 85 Resp: 12940
Ion Ratio Lower Upper
85 100
135 61.5 48.2 72.4





#9
 Propene
 Concen: 1.045 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

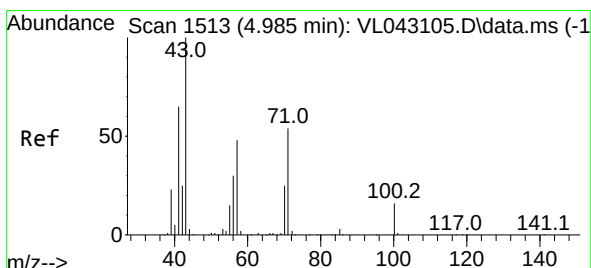
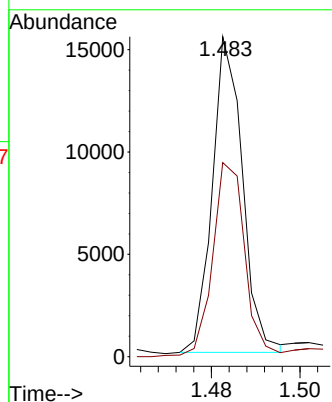
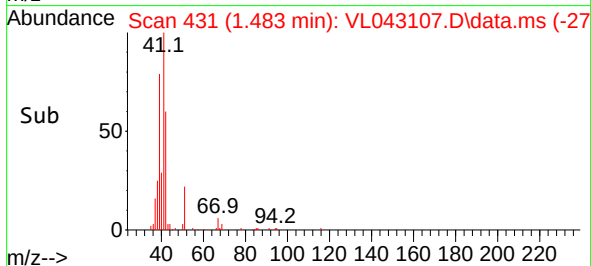
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 41 Resp: 729
 Ion Ratio Lower Upper
 41 100
 42 68.5 55.1 82.7

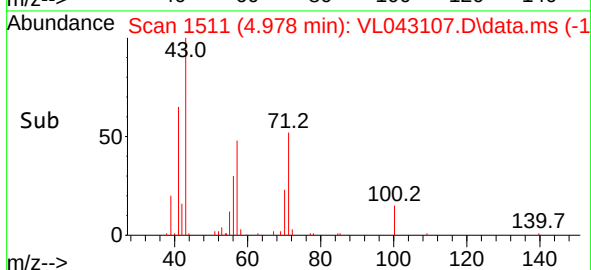
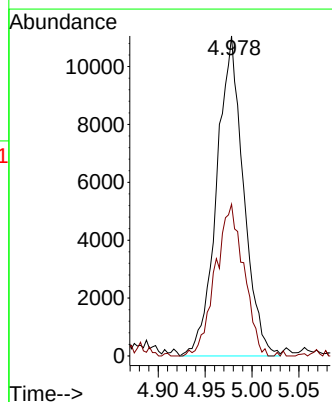
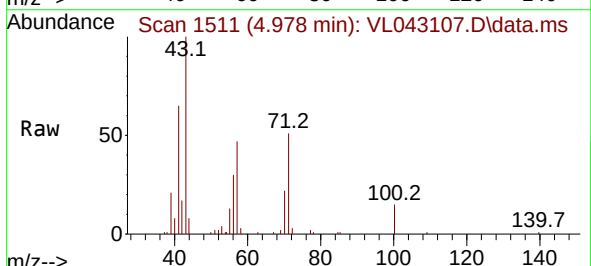
Manual Integrations
 APPROVED

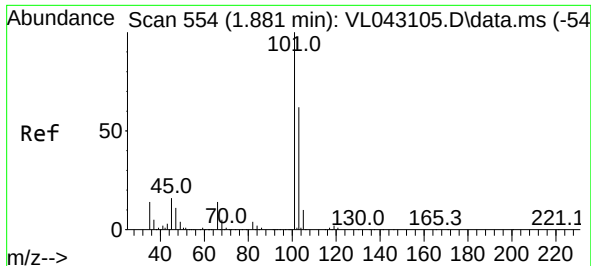
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#10
 Heptane
 Concen: 1.100 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

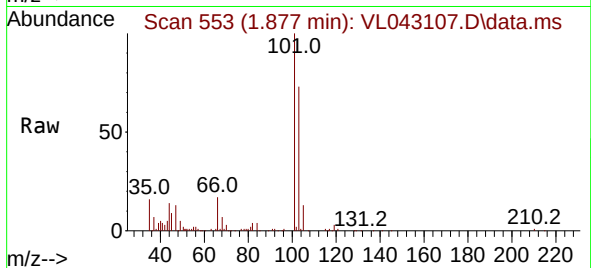
Tgt Ion: 43 Resp: 22011
 Ion Ratio Lower Upper
 43 100
 57 50.4 40.8 61.2





#11
 Trichlorofluoromethane
 Concen: 1.049 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

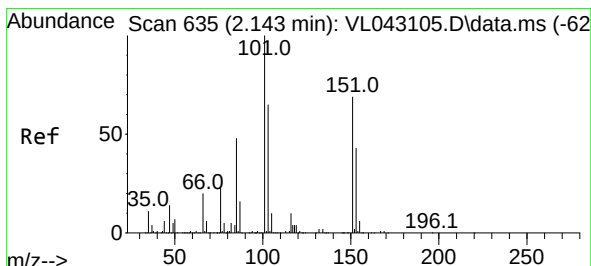
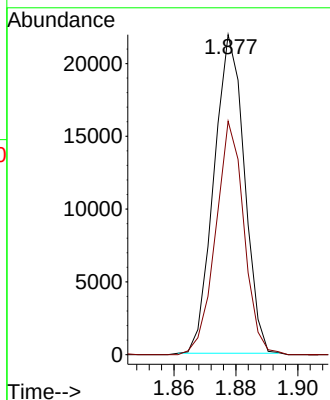
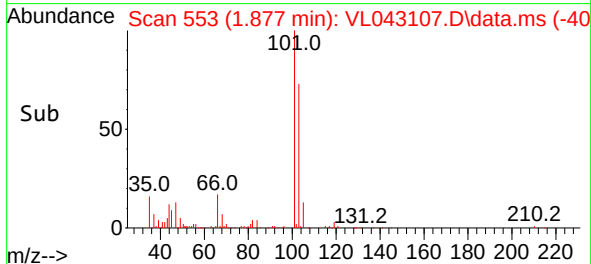
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



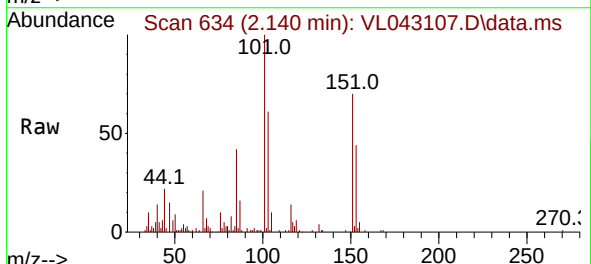
Tgt Ion:101 Resp: 1492
 Ion Ratio Lower Upper
 101 100
 103 73.3 49.3 73.9

Manual Integrations
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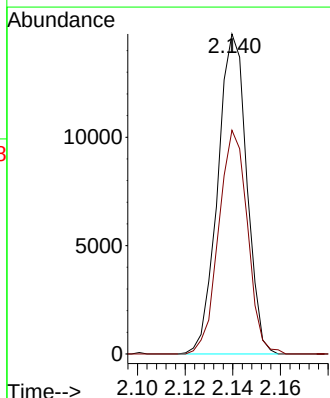
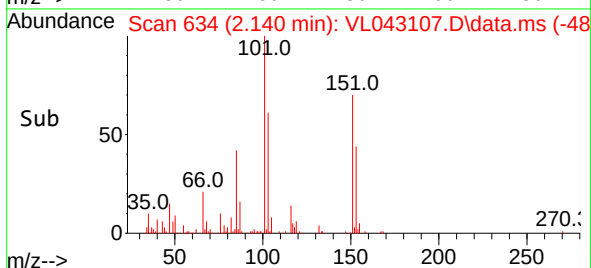
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

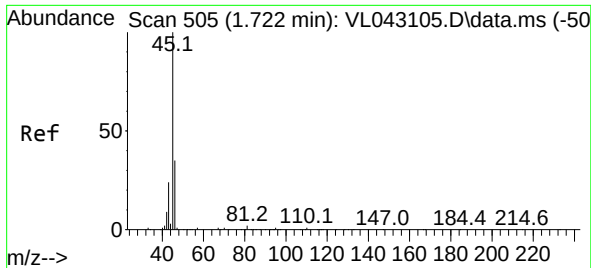


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.090 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01



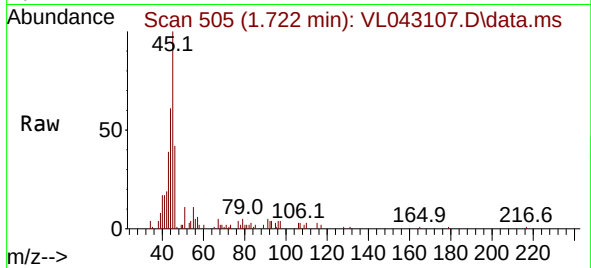
Tgt Ion:101 Resp: 12484
 Ion Ratio Lower Upper
 101 100
 151 69.5 54.7 82.1





#13
Ethanol
Concen: 1.217 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

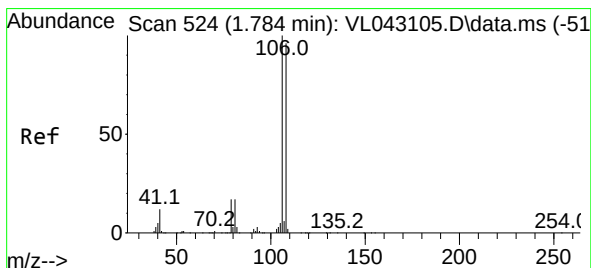
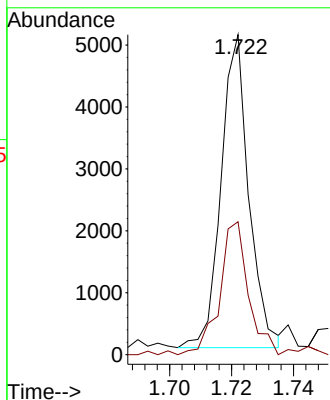
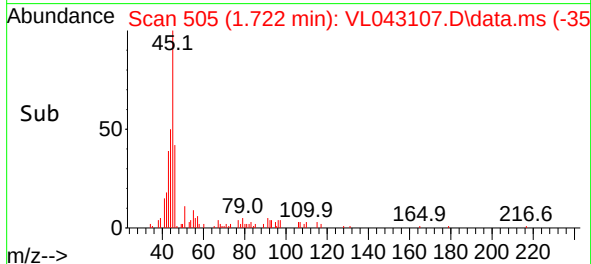
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ClientSampleId :
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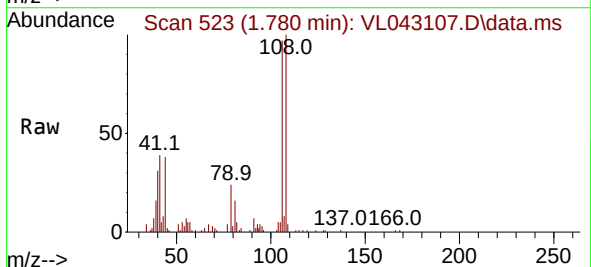
Tgt Ion: 45 Resp: 314
Ion Ratio Lower Upper
45 100
46 46.7 14.7 58.9

Manual Integrations
APPROVED

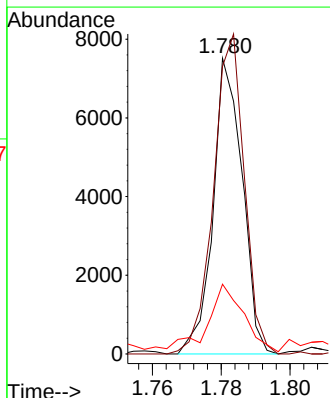
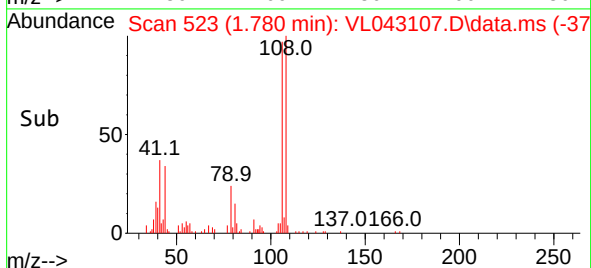
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

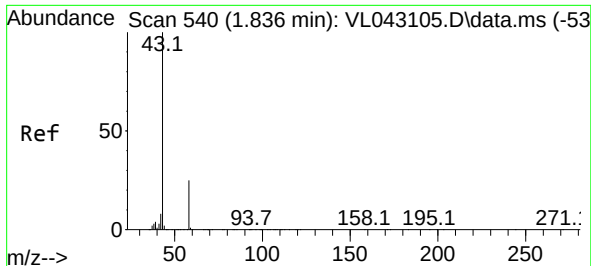


#14
Bromoethene
Concen: 1.043 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



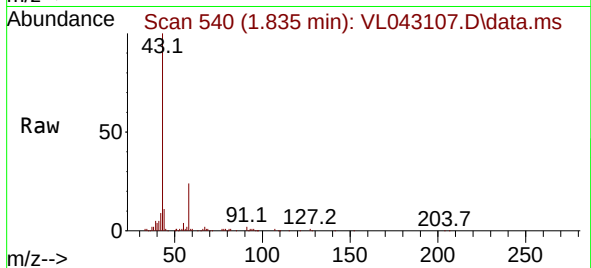
Tgt Ion:108 Resp: 4440
Ion Ratio Lower Upper
108 100
106 113.7 84.4 126.6
79 28.9 15.3 22.9





#15
Acetone
Concen: 1.123 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

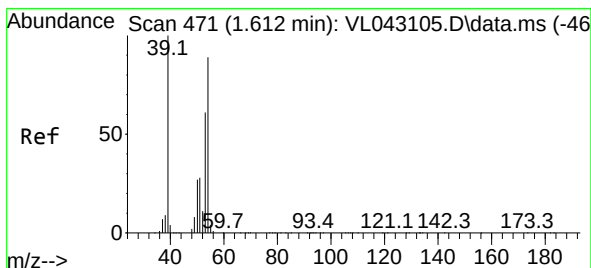
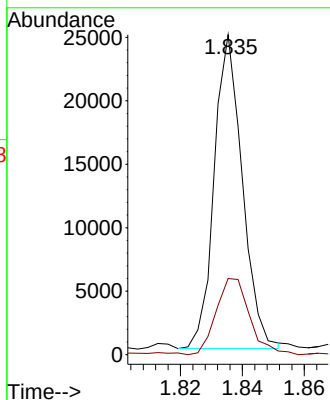
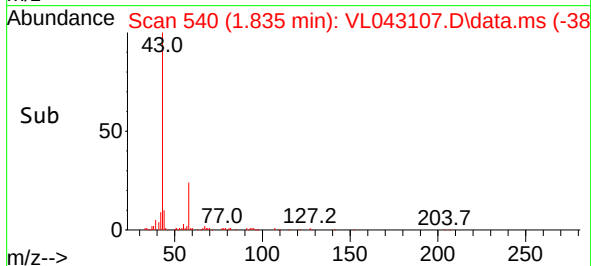
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MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 15572
Ion Ratio Lower Upper
43 100
58 31.0 20.8 31.2

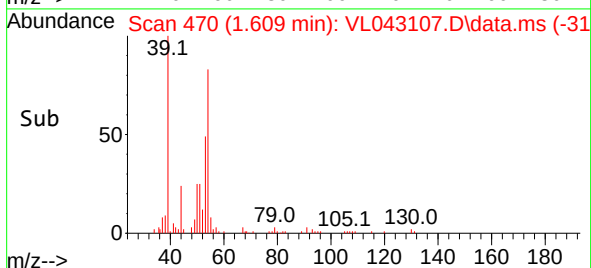
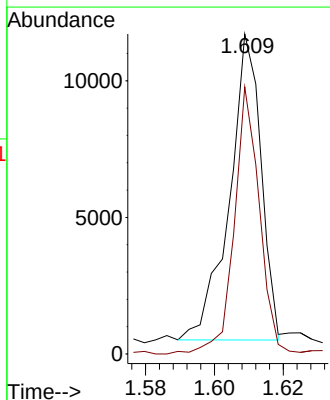
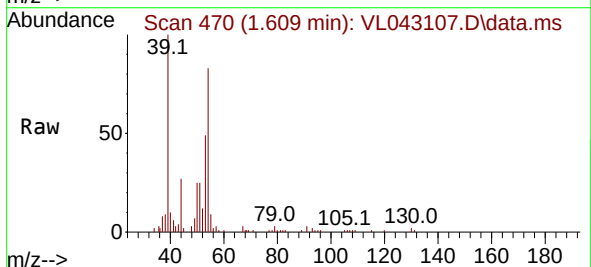
Manual Integrations
APPROVED

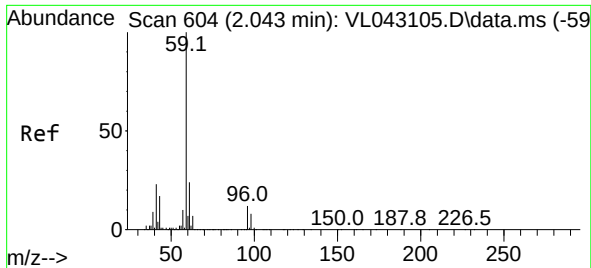
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 1.089 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 39 Resp: 7157
Ion Ratio Lower Upper
39 100
54 70.8 59.0 88.4





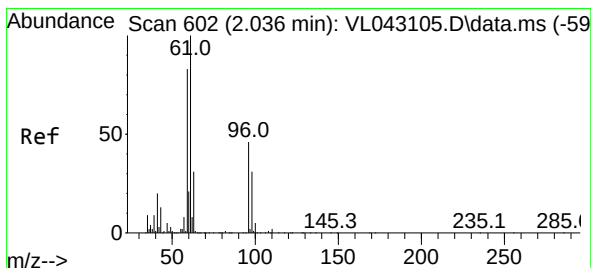
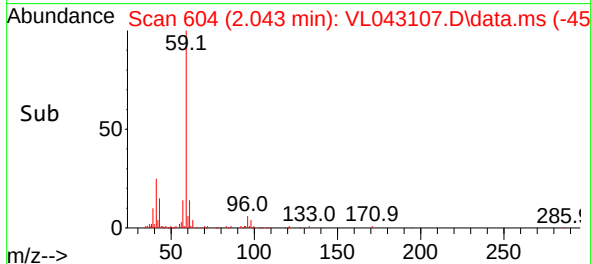
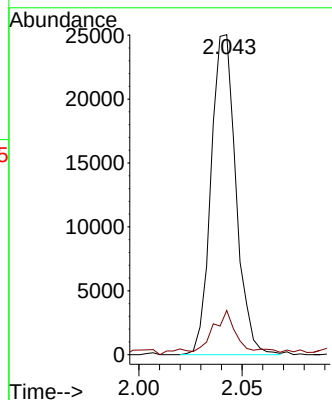
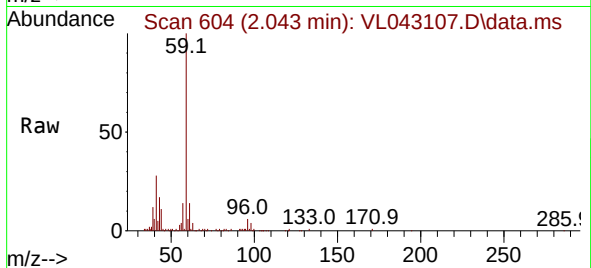
#17
tert-Butyl alcohol
Concen: 1.106 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 2094
Ion Ratio Lower Upper
59 100
57 14.0 8.2 12.4

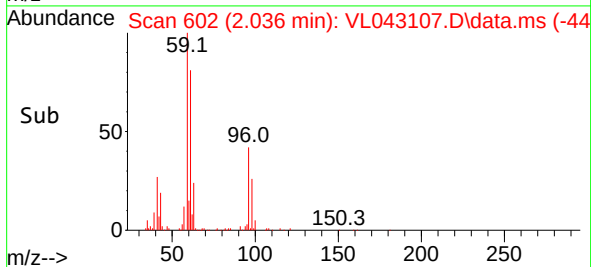
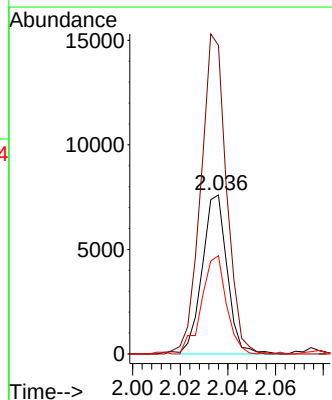
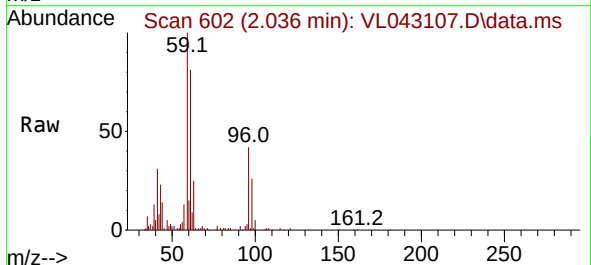
Manual Integrations
APPROVED

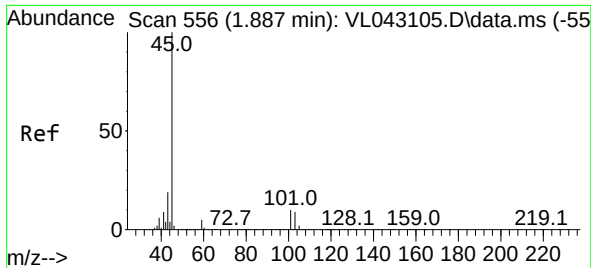
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#18
1,1-Dichloroethene
Concen: 1.103 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

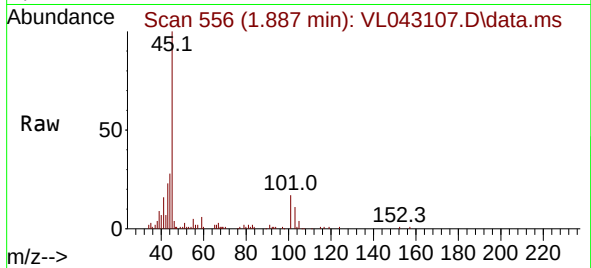
Tgt Ion: 96 Resp: 5510
Ion Ratio Lower Upper
96 100
61 194.0 173.4 260.0
98 61.7 53.2 79.8





#19
Isopropyl Alcohol
Concen: 1.141 ppbv
RT: 1.887 min Scan# 510
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

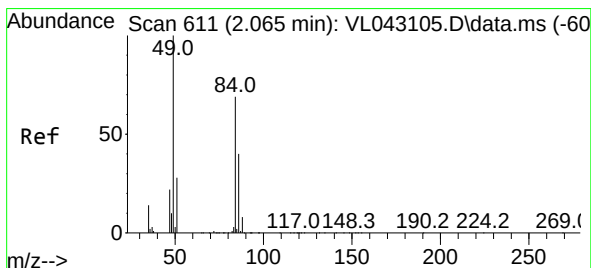
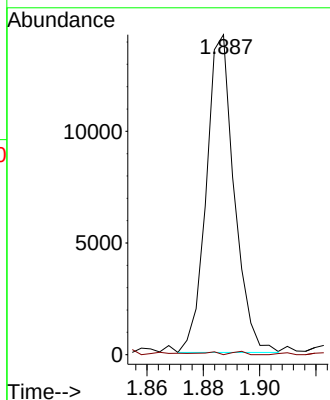
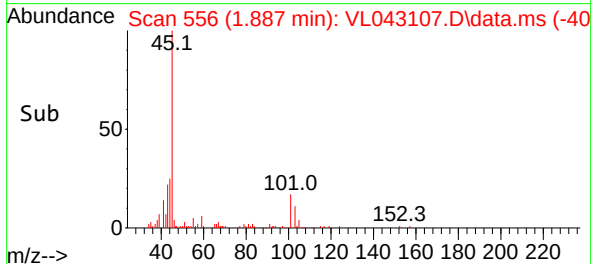
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



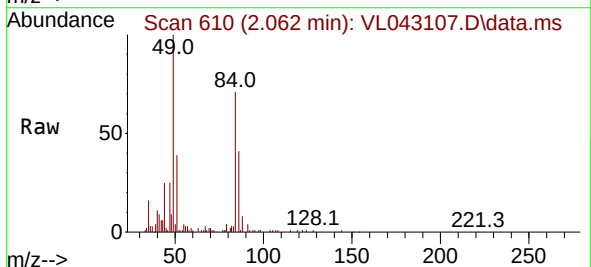
Tgt Ion: 45 Resp: 9790
Ion Ratio Lower Upper
45 100
58 48.1 31.3 46.9

Manual Integrations
APPROVED

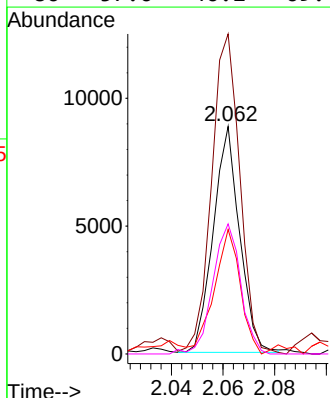
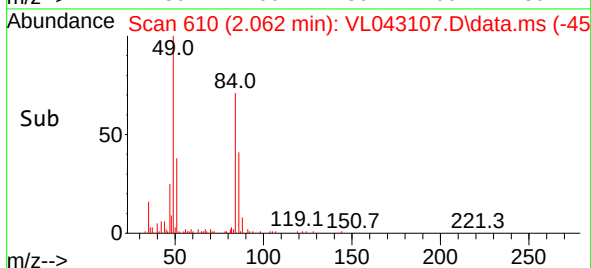
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

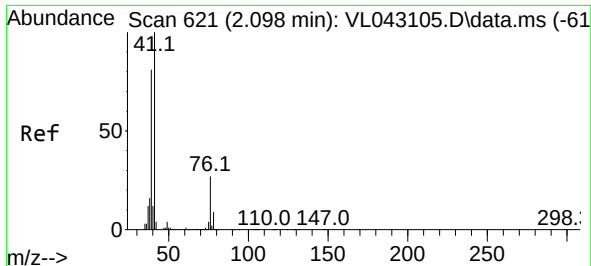


#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



Tgt Ion: 84 Resp: 6261
Ion Ratio Lower Upper
84 100
49 140.9 116.6 175.0
51 51.2 34.8 52.2
86 57.6 46.2 69.4





#21
 Allyl Chloride
 Concen: 1.055 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

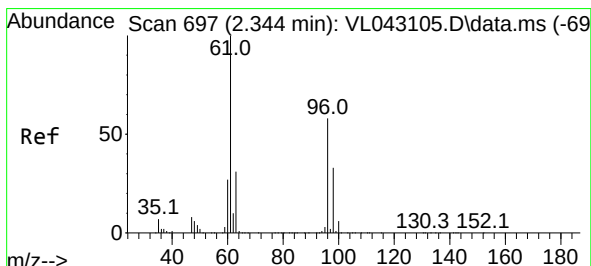
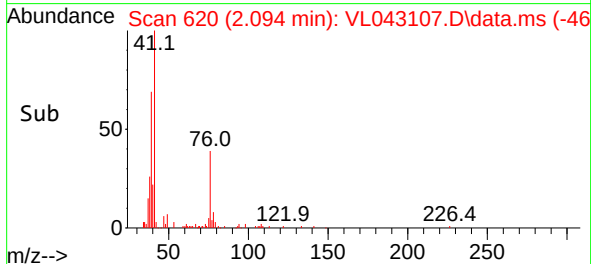
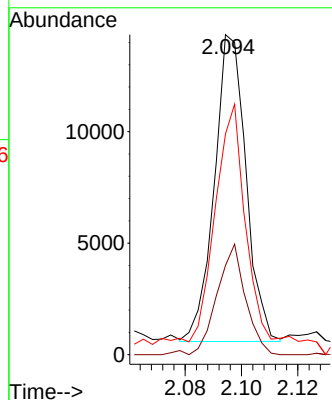
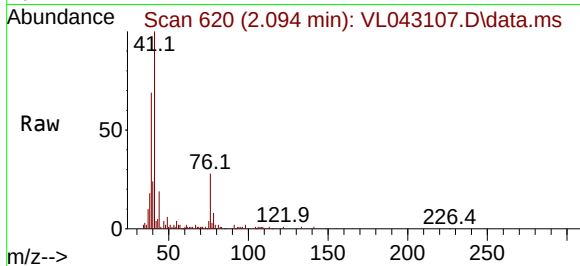
ClientSampleId :

VSTDICC001

Tgt Ion: 41 Resp: 1073
 Ion Ratio Lower Upper
 41 100
 76 32.6 21.5 32.3
 39 94.1 60.8 91.2

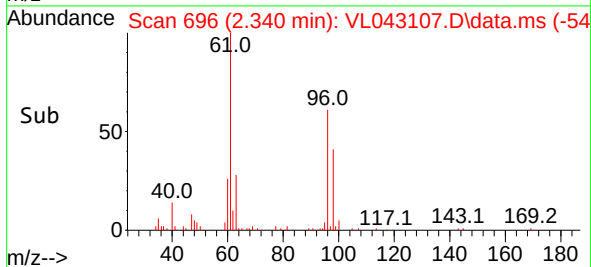
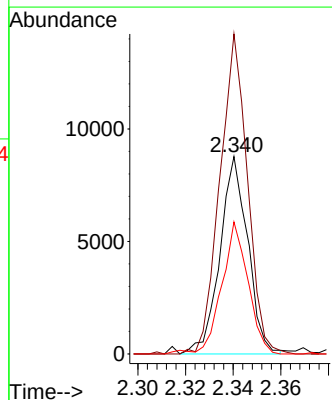
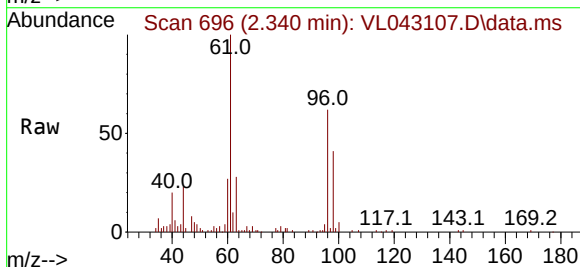
Manual Integrations
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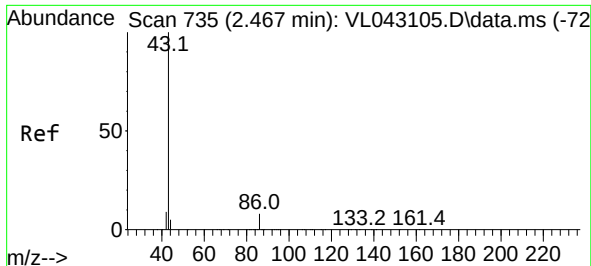
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.193 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

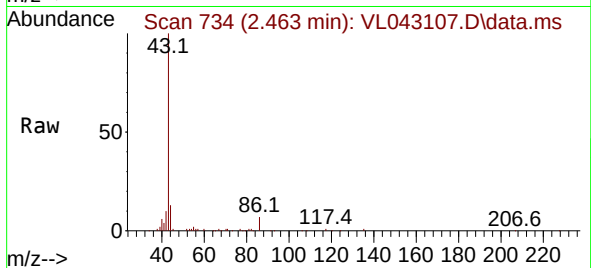
Tgt Ion: 96 Resp: 7119
 Ion Ratio Lower Upper
 96 100
 61 162.1 137.0 205.6
 98 66.9 45.5 68.3





#23
 Vinyl Acetate
 Concen: 0.964 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

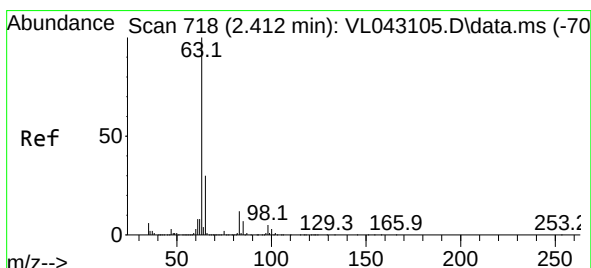
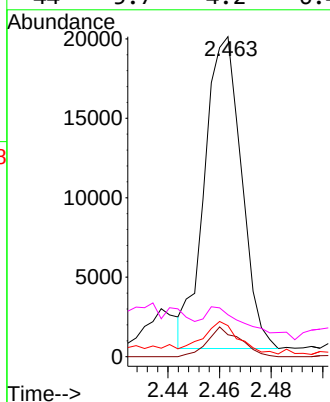
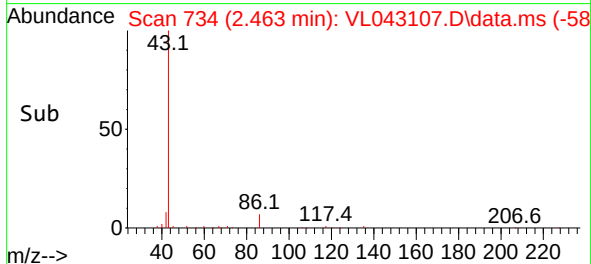
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.2	9.2
42	9.1	7.6	11.4
44	5.7	4.2	6.4

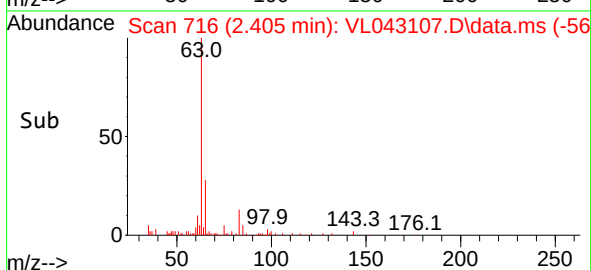
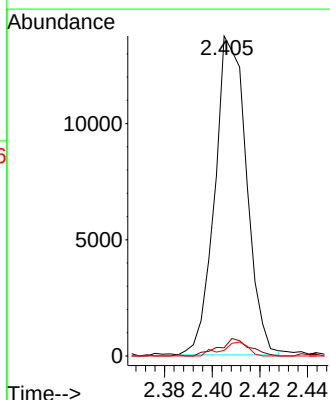
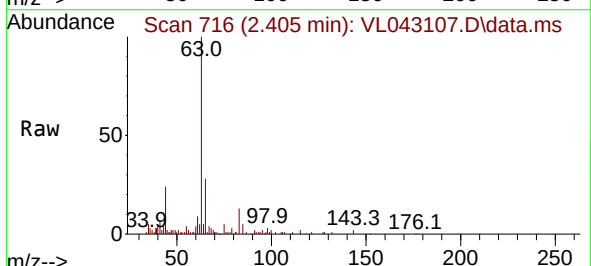
Manual Integrations
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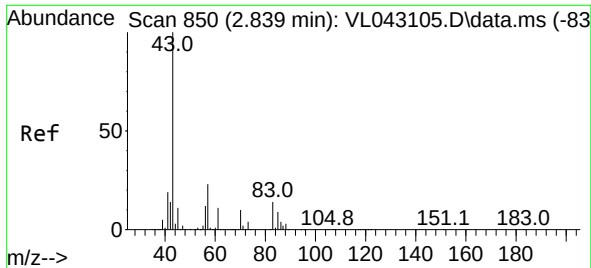
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#24
 1,1-Dichloroethane
 Concen: 1.097 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

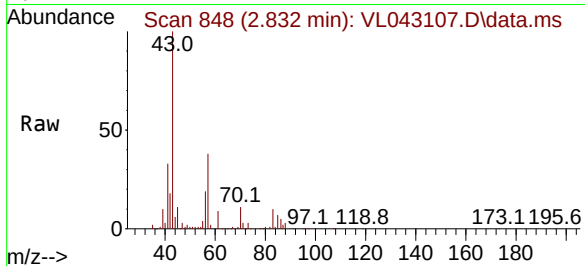
Tgt Ion	Ratio	Lower	Upper
63	100		
98	2.6	2.6	7.8#
100	1.7	1.5	4.4





#25
Ethyl Acetate
Concen: 1.085 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

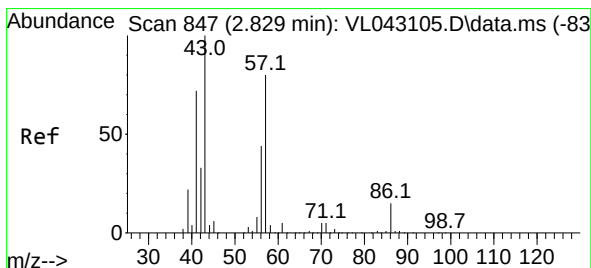
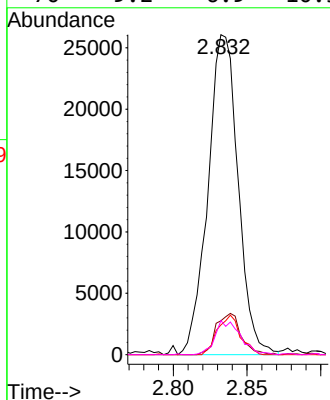
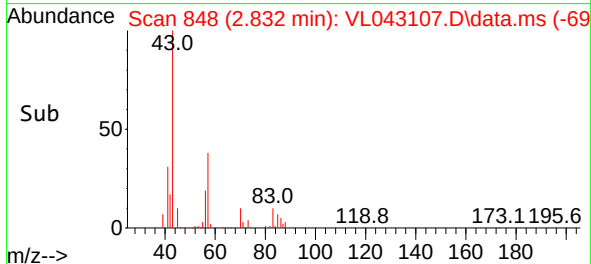
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



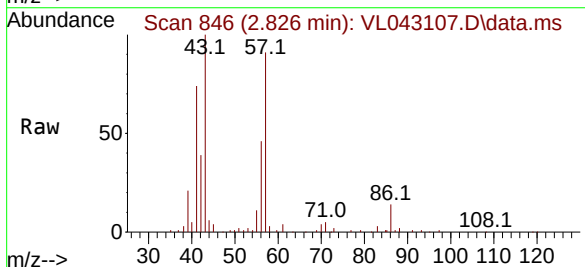
Tgt Ion: 43 Resp: 3709
Ion Ratio Lower Upper
43 100
45 10.8 7.8 11.8
61 9.4 7.0 10.6
70 9.2 6.9 10.3

Manual Integrations
APPROVED

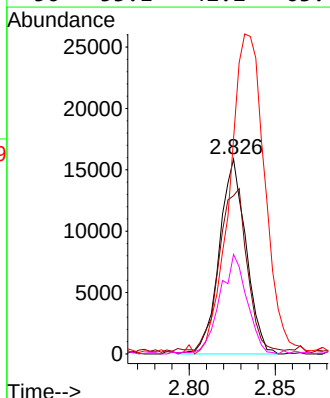
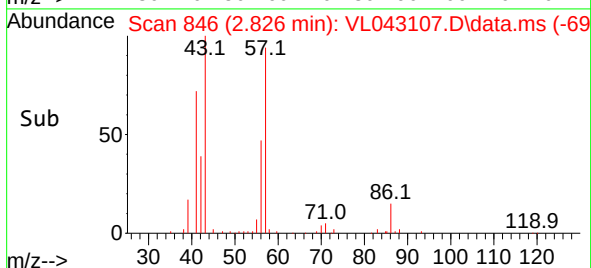
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

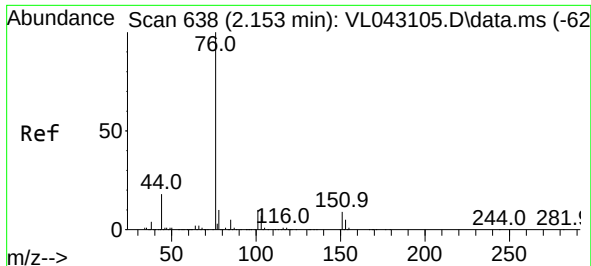


#26
Hexane
Concen: 1.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



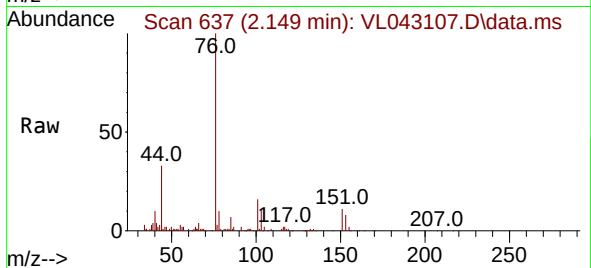
Tgt Ion: 57 Resp: 17152
Ion Ratio Lower Upper
57 100
41 91.8 71.4 107.0
43 219.3 178.5 267.7
56 53.1 42.2 63.4





#27
Carbon Disulfide
Concen: 1.092 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

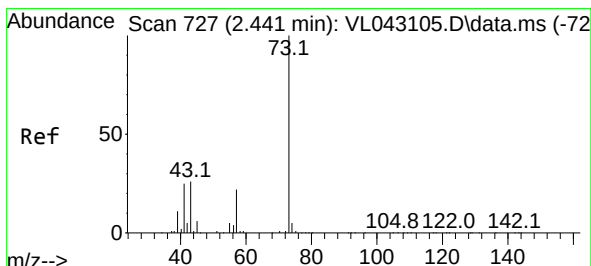
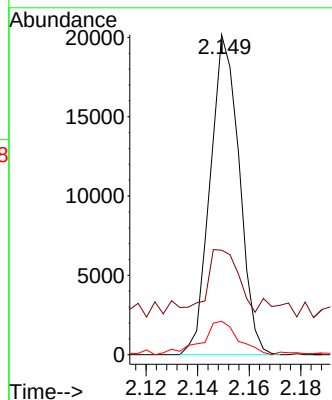
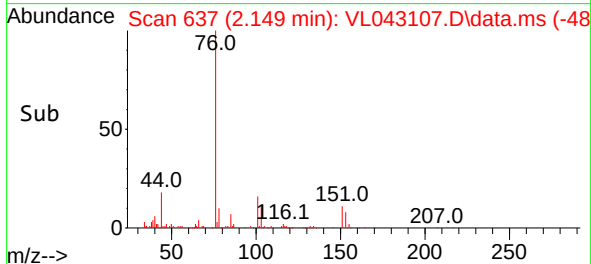
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 76 Resp: 15760
Ion Ratio Lower Upper
76 100
44 47.9 16.7 25.1
78 14.2 9.3 13.9

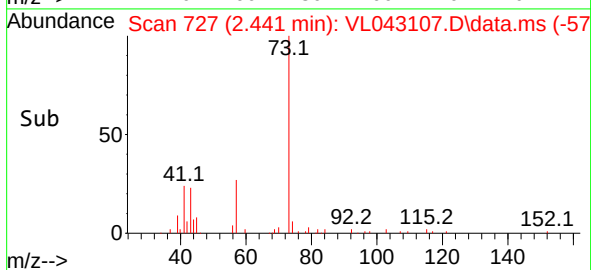
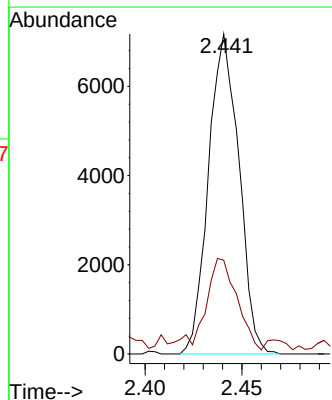
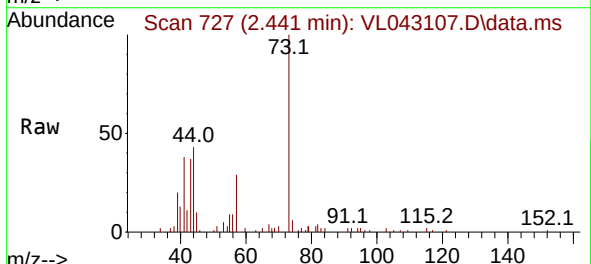
Manual Integrations
APPROVED

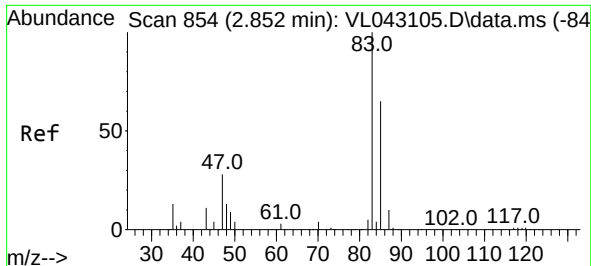
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 1.095 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 73 Resp: 7847
Ion Ratio Lower Upper
73 100
57 32.3 20.5 30.7





#29

Chloroform

Concen: 1.074 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 2452

Ion Ratio Lower Upper

83 100

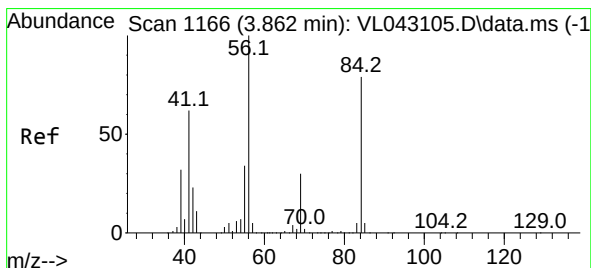
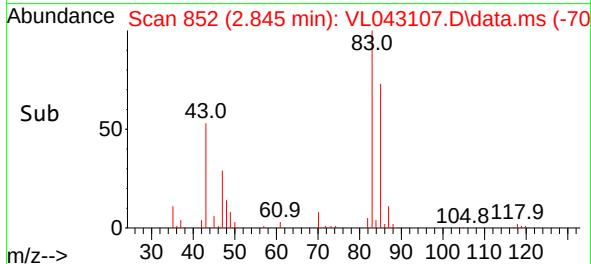
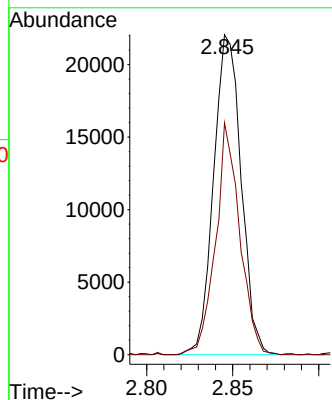
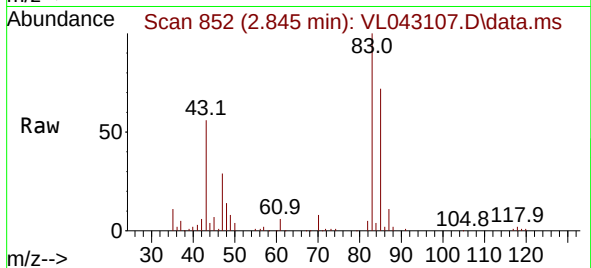
85 72.4 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 1.078 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

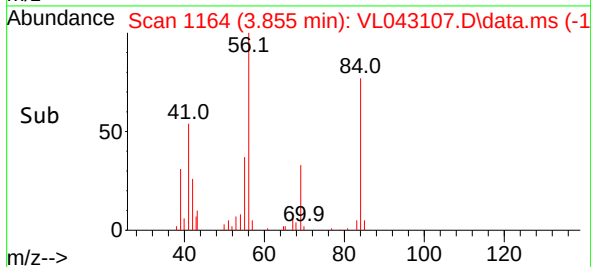
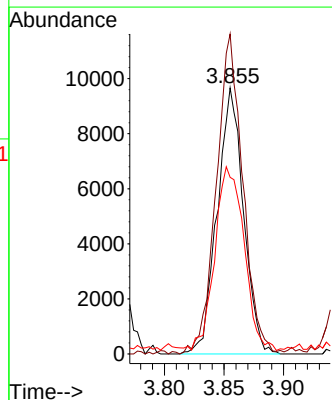
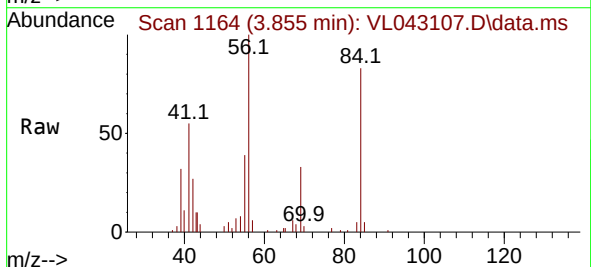
Tgt Ion: 84 Resp: 14819

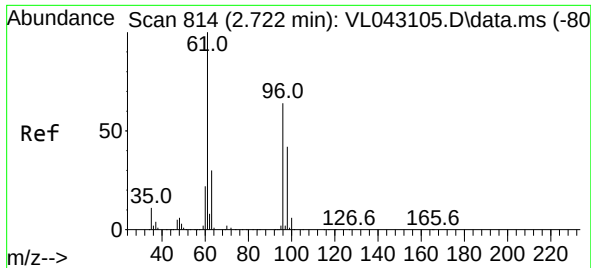
Ion Ratio Lower Upper

84 100

56 122.3 100.9 151.3

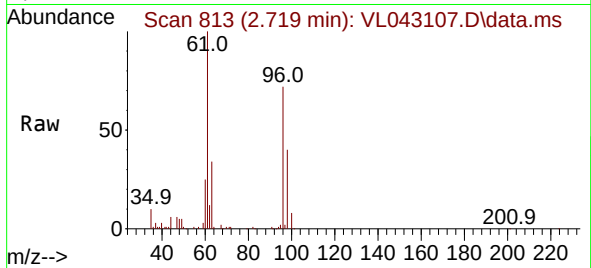
41 78.1 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 1.084 ppbv
 RT: 2.719 min Scan# 814
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

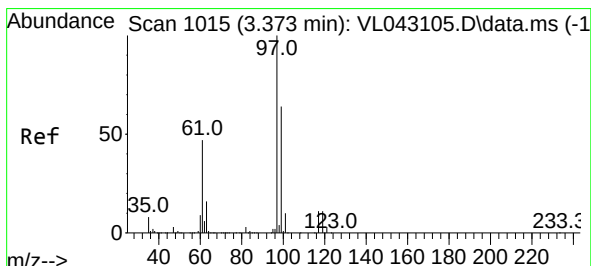
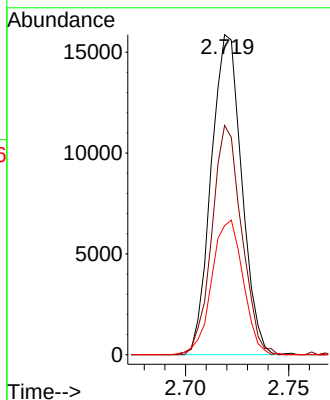
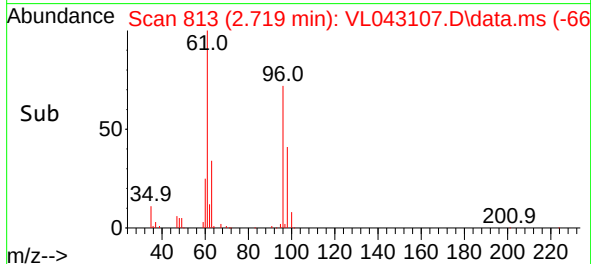
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion: 61 Resp: 1631
 Ion Ratio Lower Upper
 61 100
 96 71.6 51.0 76.6
 98 39.9 33.5 50.3

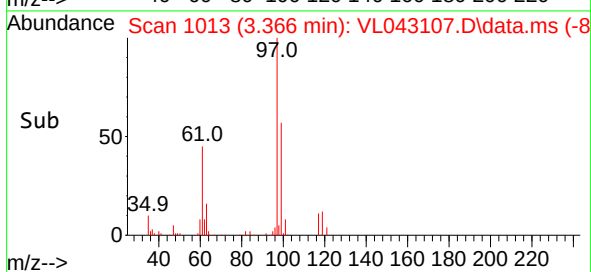
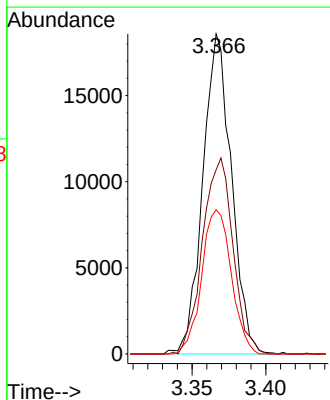
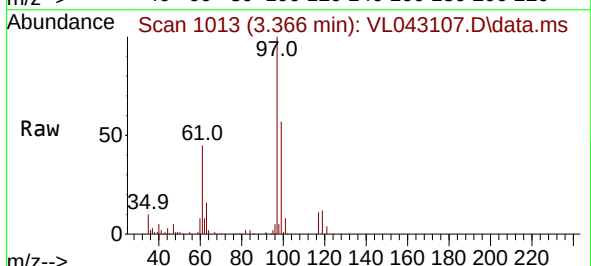
Manual Integrations
 APPROVED

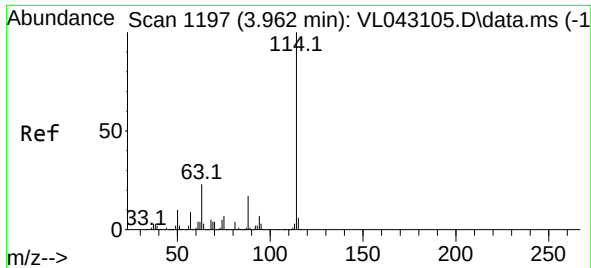
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 1.049 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.3 76.9
 61 46.8 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

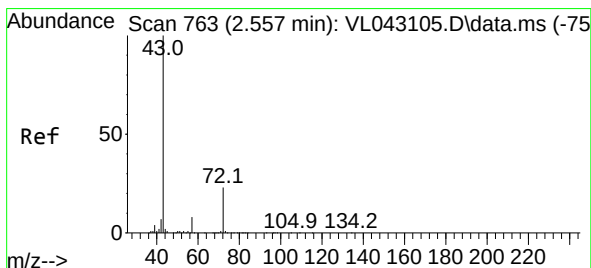
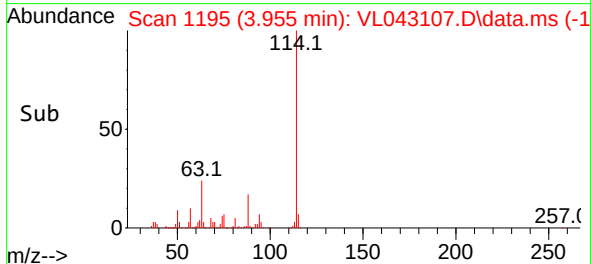
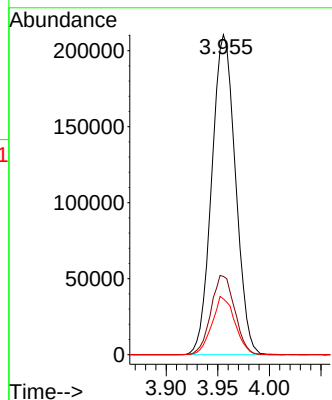
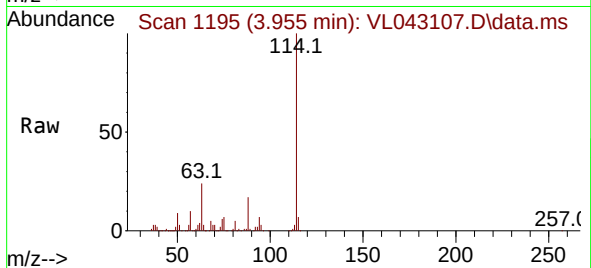
VSTDIC001

Tgt Ion:	114	Resp:	336268
Ion Ratio	Lower	Upper	
114	100		
63	24.8	19.3	28.9
88	17.6	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#34

2-Butanone

Concen: 1.047 ppbv

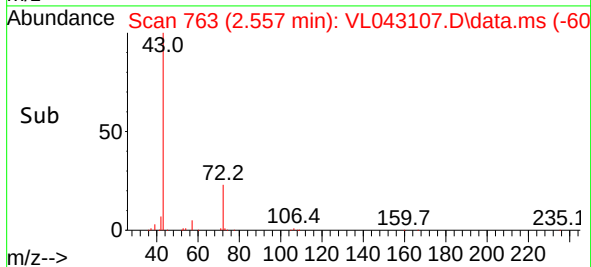
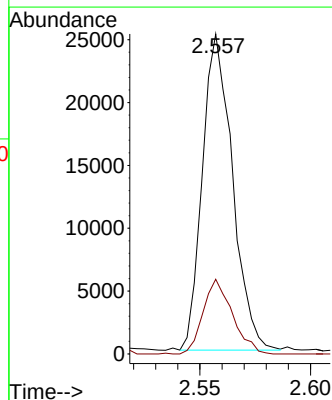
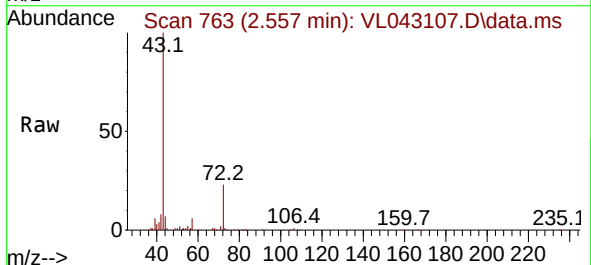
RT: 2.557 min Scan# 763

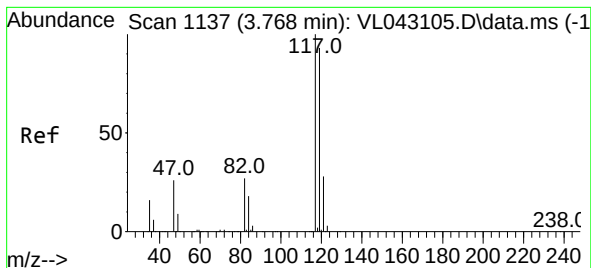
Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion:	43	Resp:	23811
Ion Ratio	Lower	Upper	
43	100		
72	23.0	18.4	27.6





#35

Carbon Tetrachloride

Concen: 1.033 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

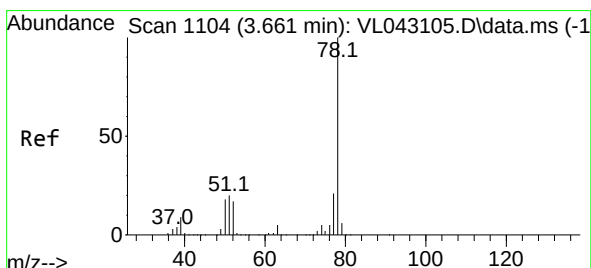
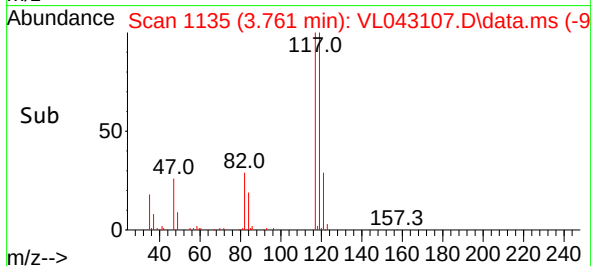
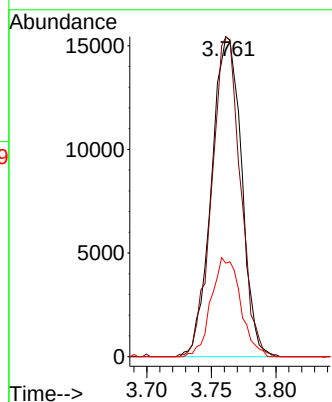
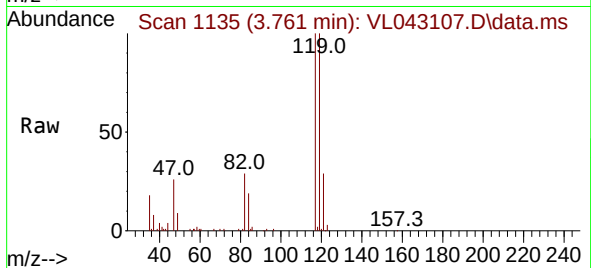
VSTDIC001

Tgt Ion: 117	Resp: 2496
Ion Ratio	Lower Upper
117 100	
119 99.8	74.1 111.1
121 29.3	22.2 33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36

Benzene

Concen: 1.040 ppbv

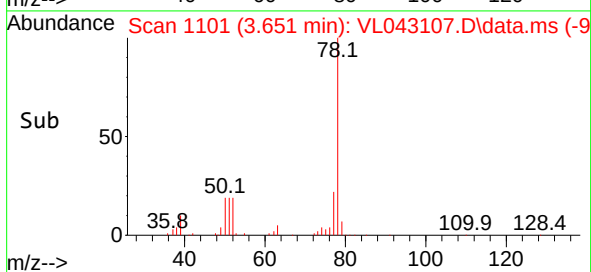
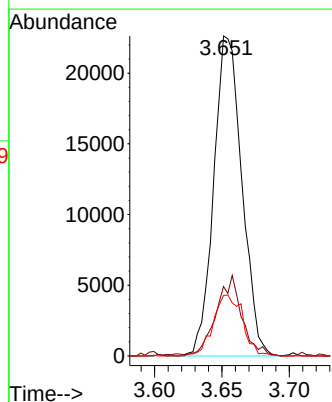
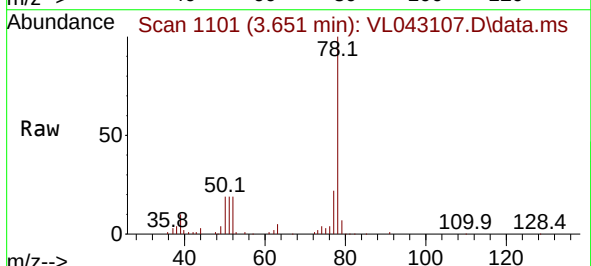
RT: 3.651 min Scan# 1101

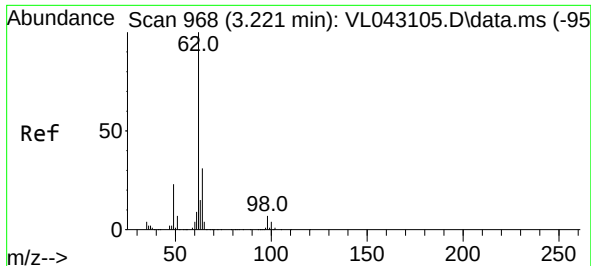
Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

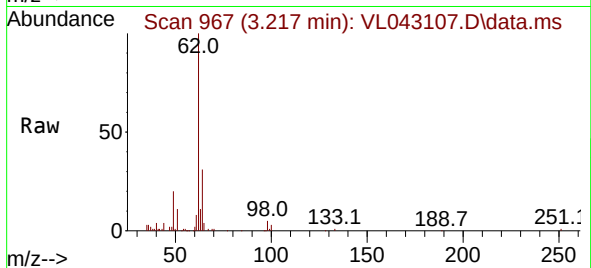
Tgt Ion: 78	Resp: 32940
Ion Ratio	Lower Upper
78 100	
77 21.7	17.0 25.6
50 18.9	14.6 22.0





#37
1,2-Dichloroethane
Concen: 1.053 ppbv
RT: 3.217 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

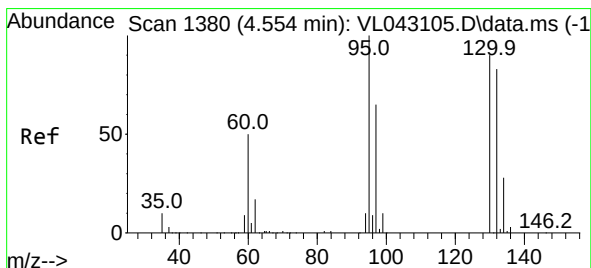
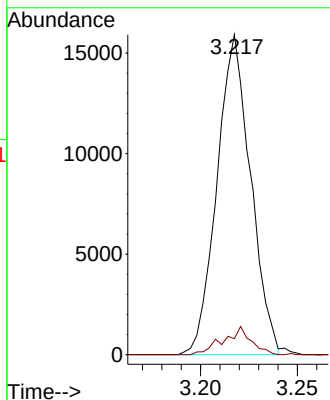
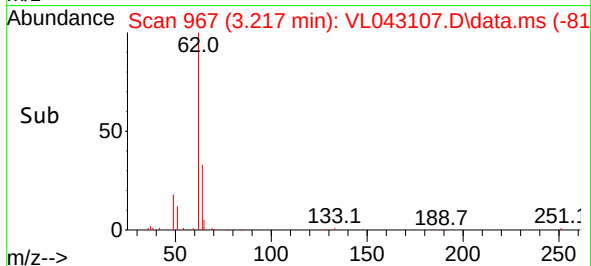
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



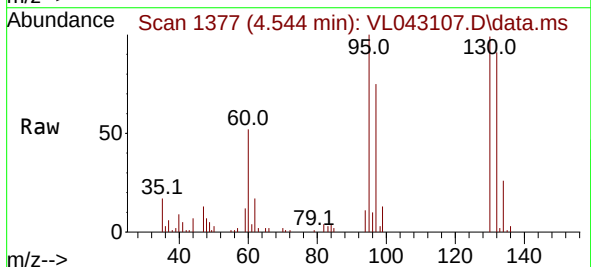
Tgt Ion: 62 Resp: 1921
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6

Manual Integrations
APPROVED

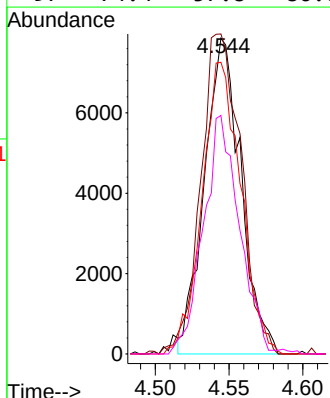
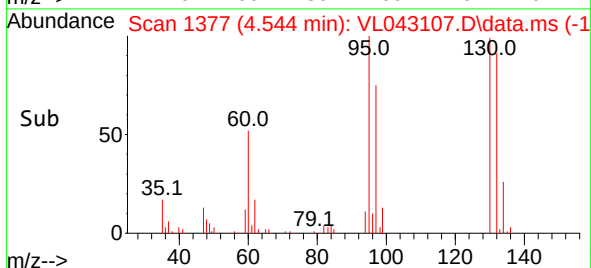
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

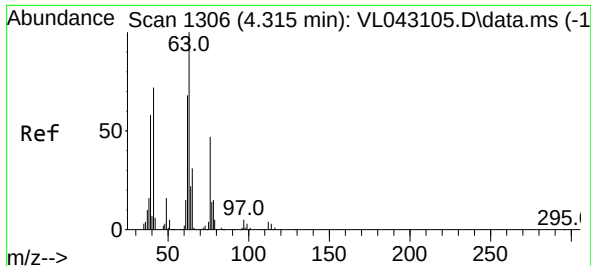


#38
Trichloroethene
Concen: 1.023 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



Tgt Ion:130 Resp: 13512
Ion Ratio Lower Upper
130 100
95 101.4 88.6 133.0
132 91.5 73.4 110.0
97 74.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 1.073 ppbv

RT: 4.311 min Scan# 1306

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

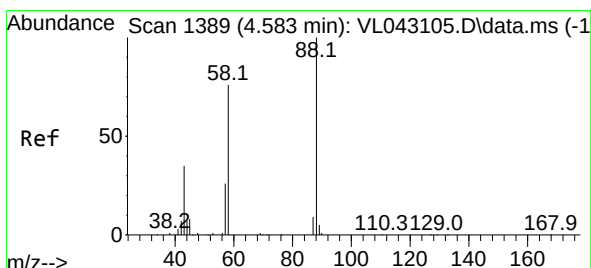
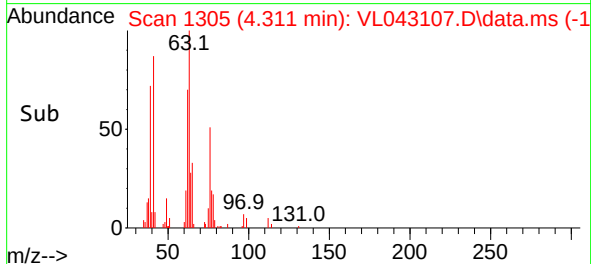
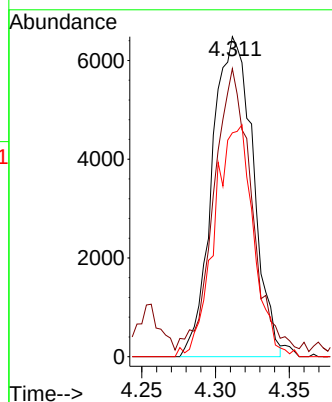
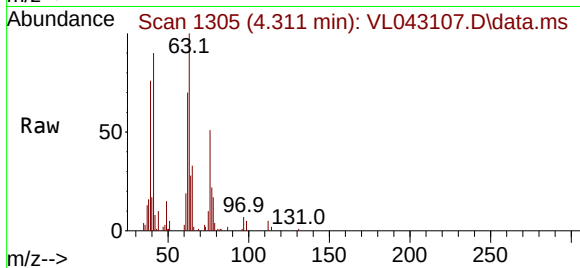
VSTDICC001

Tgt Ion: 63	Resp: 1243
Ion Ratio	Lower Upper
63 100	
41 84.3	58.0 87.0
62 67.2	54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 1.077 ppbv m

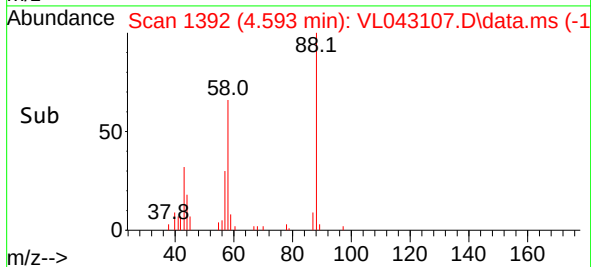
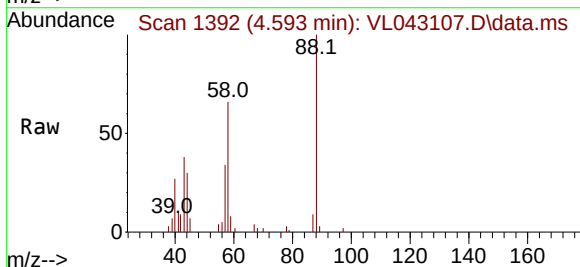
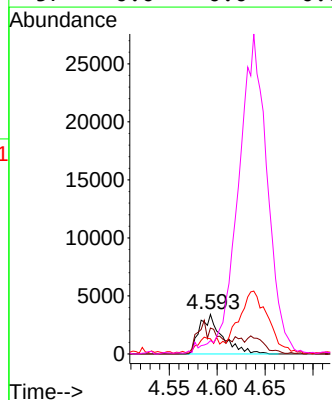
RT: 4.593 min Scan# 1392

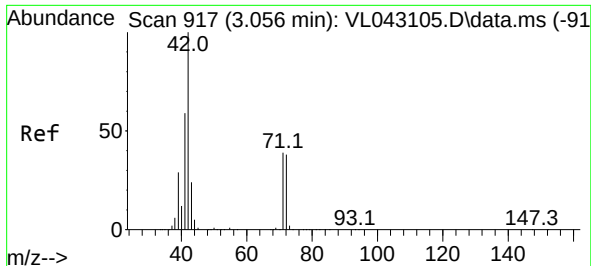
Delta R.T. 0.009 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

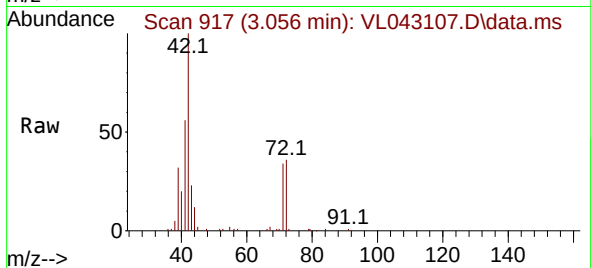
Tgt Ion: 88	Resp: 5579
Ion Ratio	Lower Upper
88 100	
58 0.0	61.1 91.7#
43 0.0	24.0 36.0#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 1.044 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

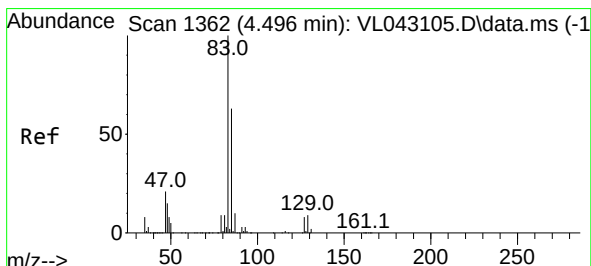
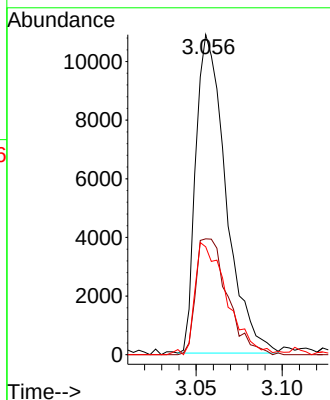
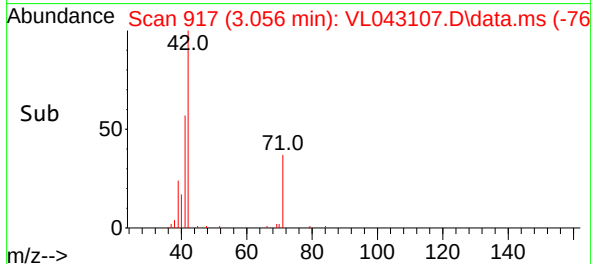
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 42 Resp: 1325
Ion Ratio Lower Upper
42 100
72 38.1 31.3 46.9
71 38.6 30.4 45.6

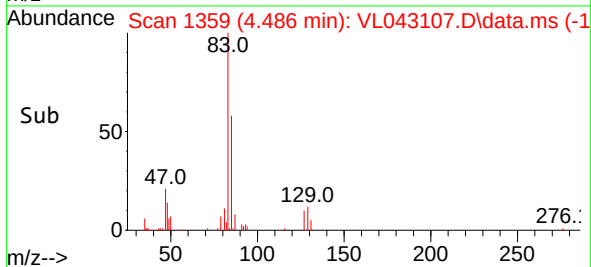
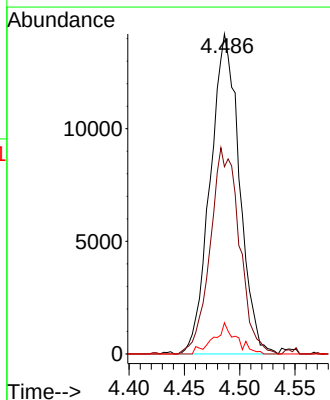
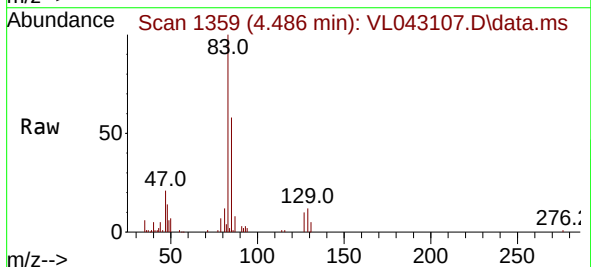
Manual Integrations
APPROVED

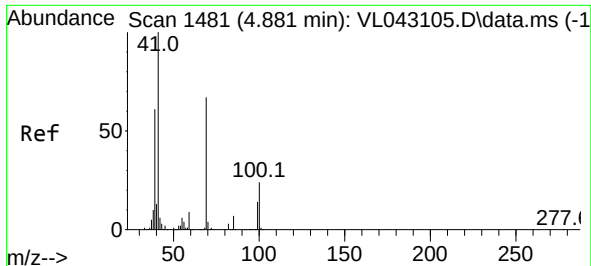
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 1.032 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 83 Resp: 26069
Ion Ratio Lower Upper
83 100
85 58.5 50.6 75.8
127 9.8 6.3 9.5#





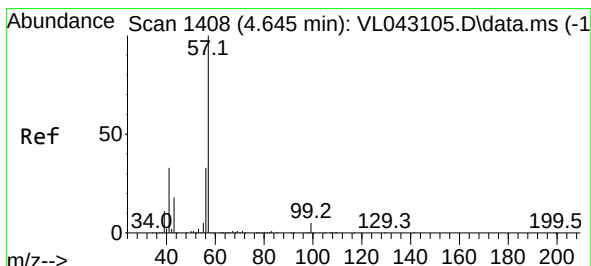
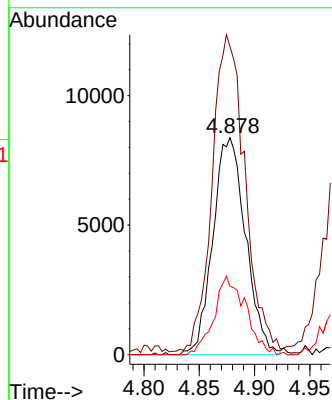
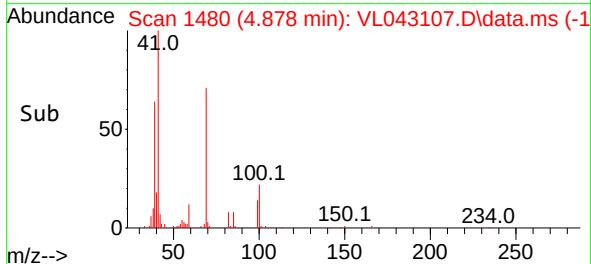
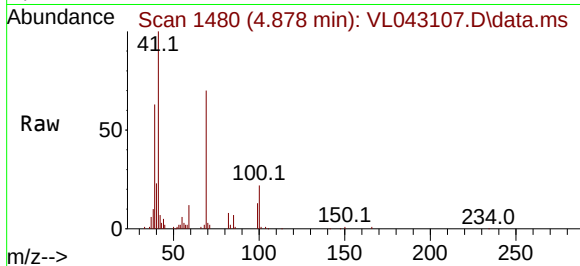
#43
Methyl Methacrylate
Concen: 1.064 ppbv
RT: 4.878 min Scan# 1481
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 1719
Ion Ratio Lower Upper
69 100
41 145.9 120.5 180.7
100 35.0 29.0 43.4

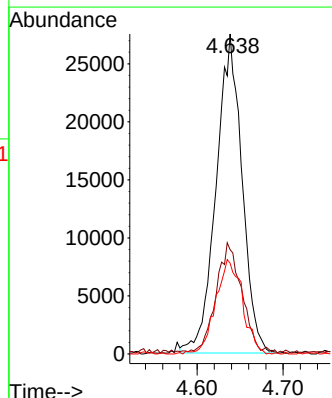
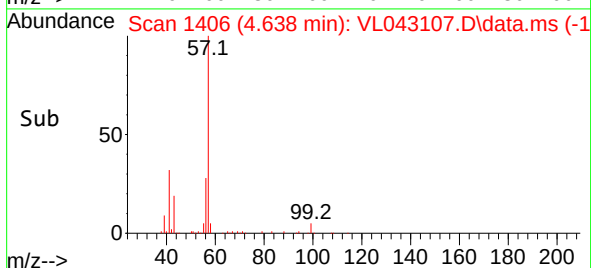
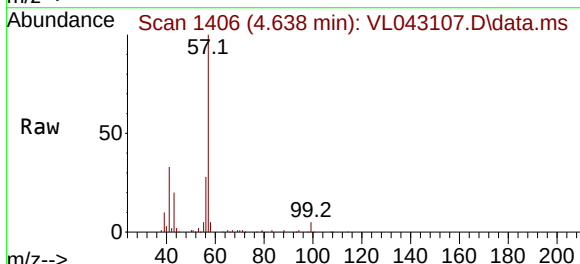
Manual Integrations
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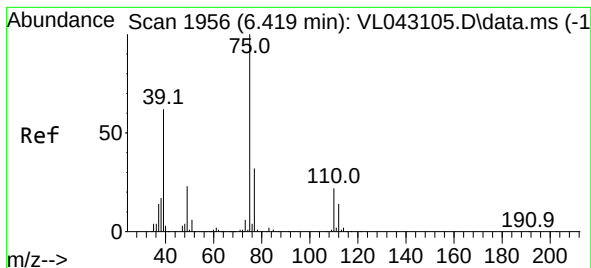
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 1.084 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382
Ion Ratio Lower Upper
57 100
41 35.4 26.3 39.5
56 30.7 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 1.045 ppbv

RT: 6.415 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 16874

Ion Ratio Lower Upper

75 100

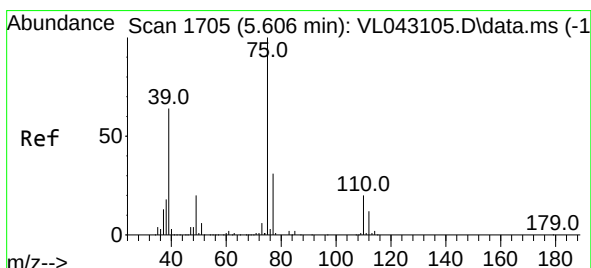
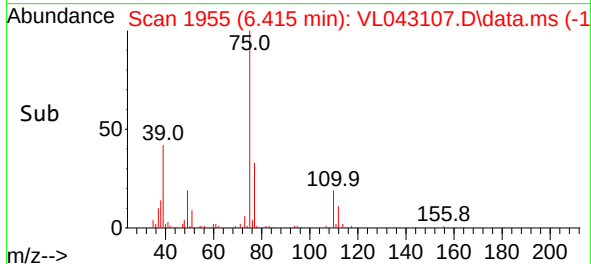
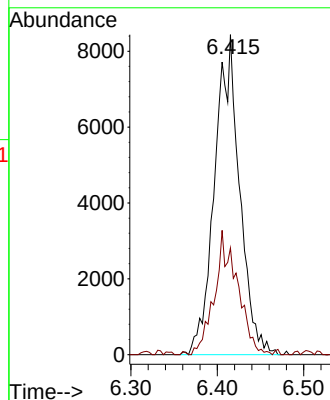
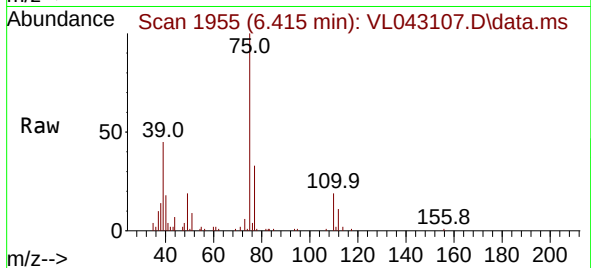
77 33.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

cis-1,3-Dichloropropene

Concen: 1.029 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

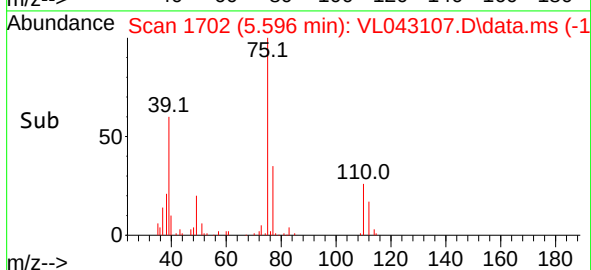
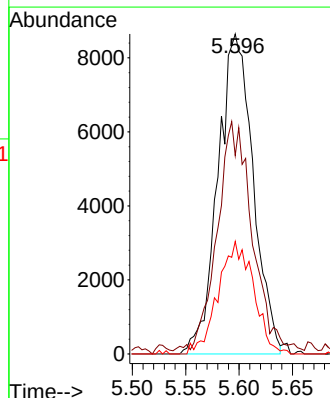
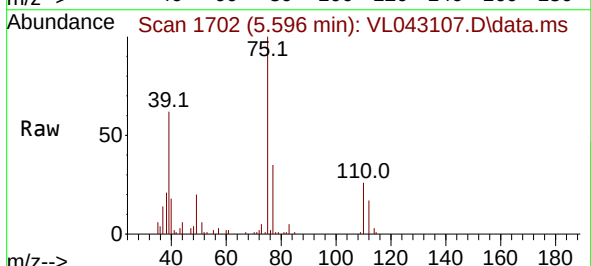
Tgt Ion: 75 Resp: 19830

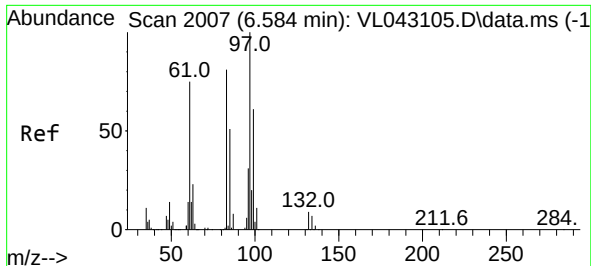
Ion Ratio Lower Upper

75 100

39 59.6 51.0 76.6

77 35.1 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 1.030 ppbv

RT: 6.577 min Scan# 2007

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 12870

Ion Ratio Lower Upper

97 100

83 80.9 64.6 96.8

85 48.8 40.6 60.8

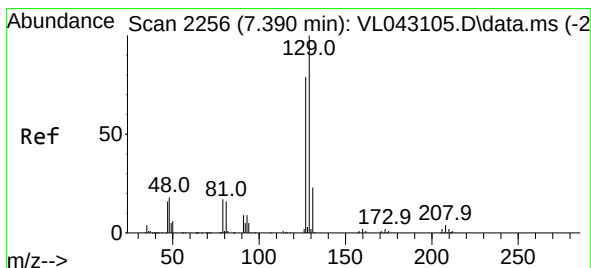
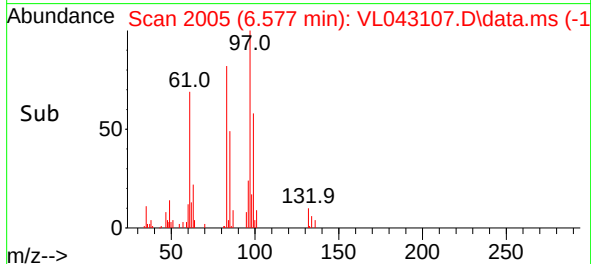
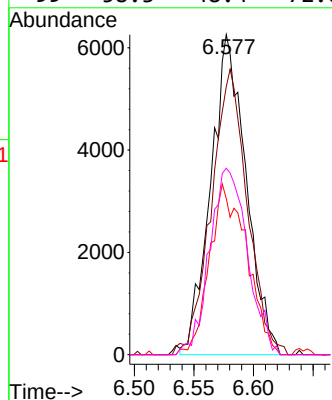
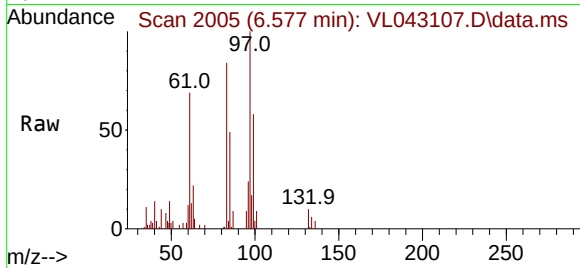
99 58.3 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 1.046 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. -0.007 min

Lab File: VL043107.D

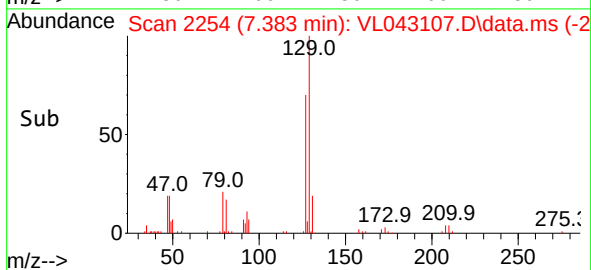
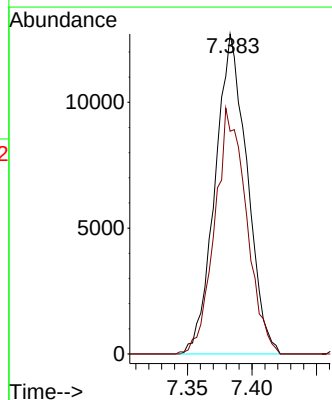
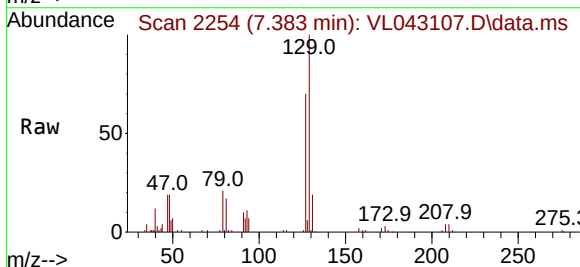
Acq: 14 Oct 2025 12:01

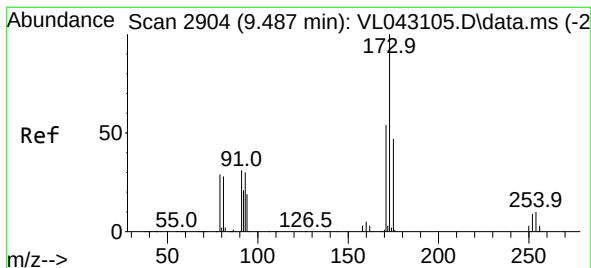
Tgt Ion:129 Resp: 21874

Ion Ratio Lower Upper

129 100

127 76.1 39.3 117.9





#49

Bromoform

Concen: 1.019 ppbv

RT: 9.480 min Scan# 2904

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

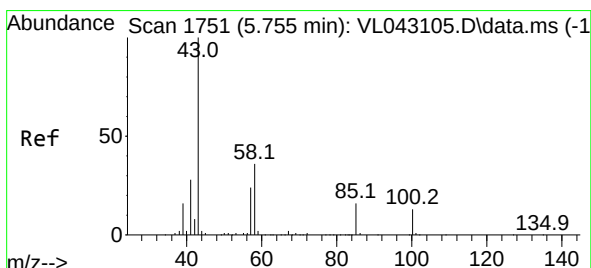
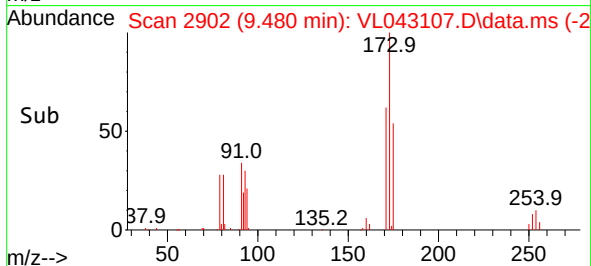
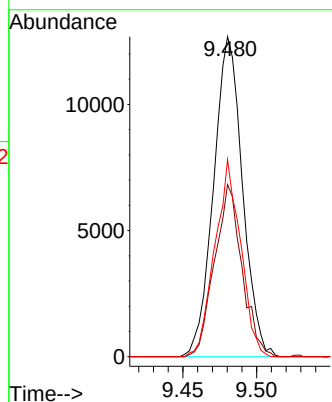
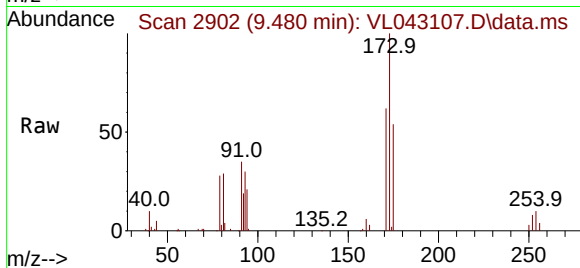
VSTDICC001

Tgt Ion:	173	Resp:	17320
Ion Ratio	Lower	Upper	
173	100		
175	50.9	38.8	58.2
171	55.0	41.7	62.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50

4-Methyl-2-Pentanone

Concen: 1.061 ppbv m

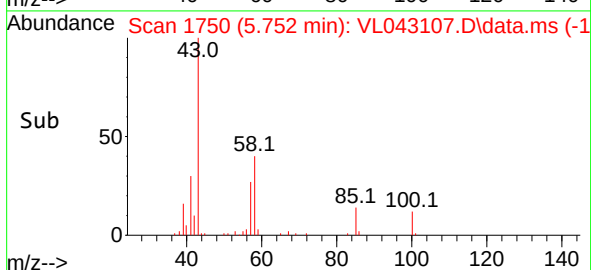
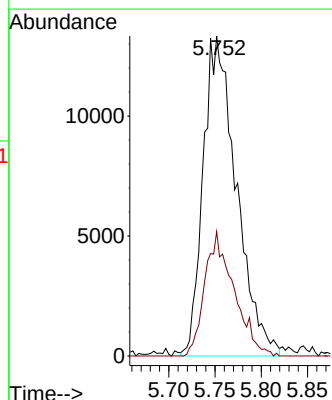
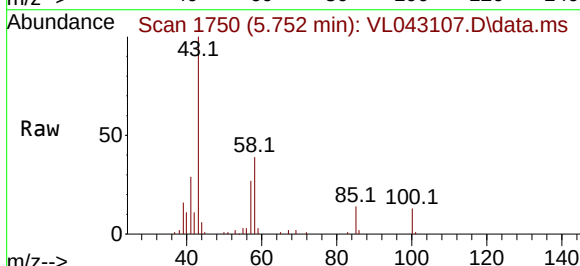
RT: 5.752 min Scan# 1750

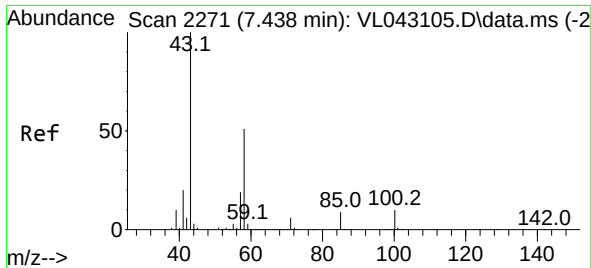
Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion:	43	Resp:	33269
Ion Ratio	Lower	Upper	
43	100		
58	0.0	29.1	43.7#





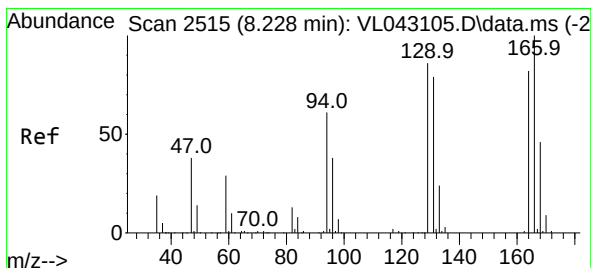
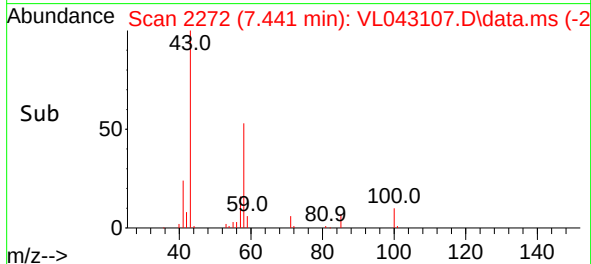
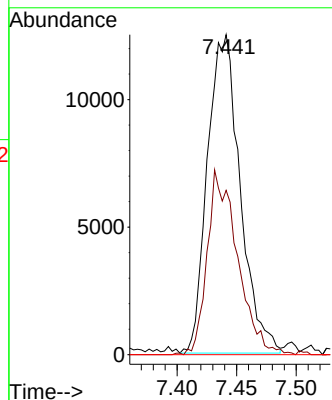
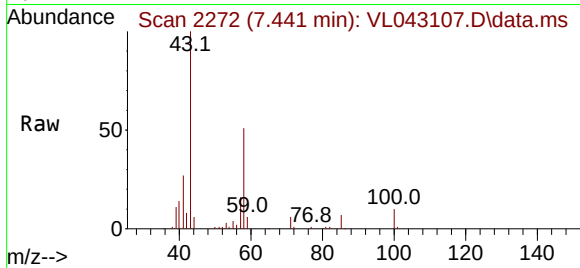
#51
2-Hexanone
Concen: 1.018 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 2381
Ion Ratio Lower Upper
43 100
58 53.7 40.4 60.6
98 0.0 0.1 0.1

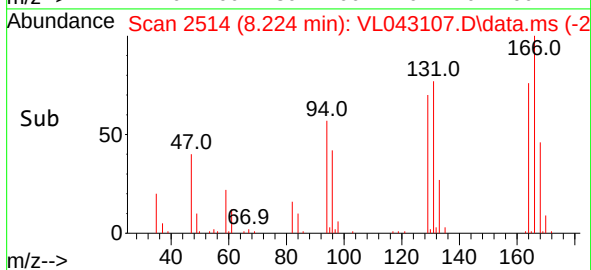
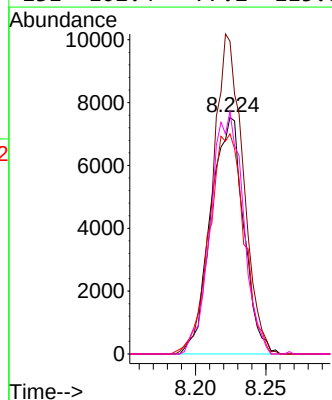
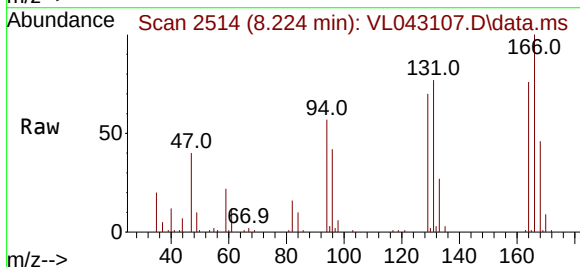
Manual Integrations
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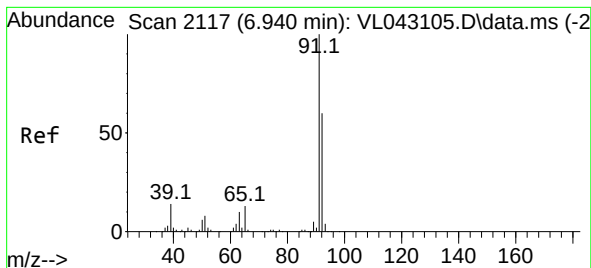
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 1.079 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:164 Resp: 12319
Ion Ratio Lower Upper
164 100
166 132.1 97.6 146.4
129 93.0 84.5 126.7
131 102.4 77.2 115.8





#53

Toluene

Concen: 1.040 ppbv

RT: 6.930 min Scan# 2117

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 39079

Ion Ratio Lower Upper

91 100

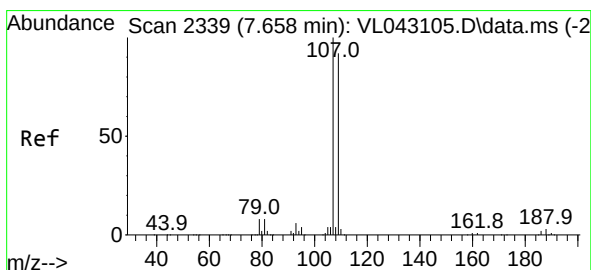
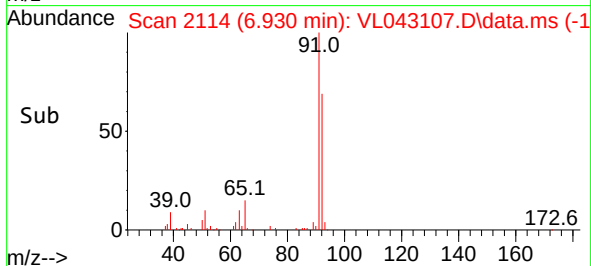
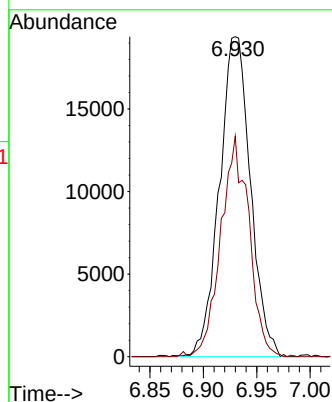
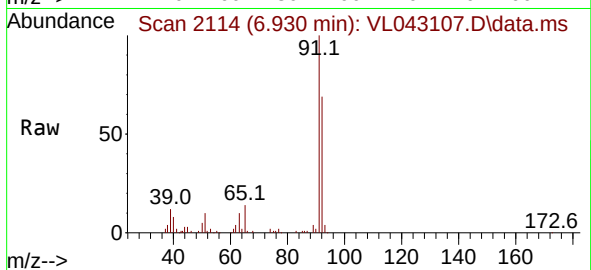
92 62.8 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#54

1,2-Dibromoethane

Concen: 0.999 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. -0.007 min

Lab File: VL043107.D

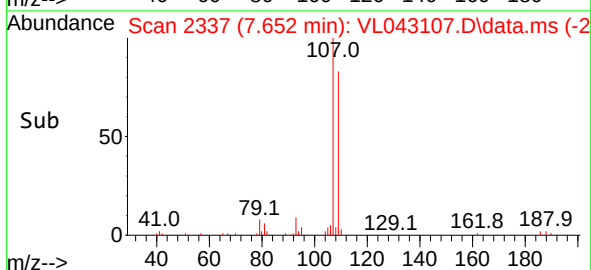
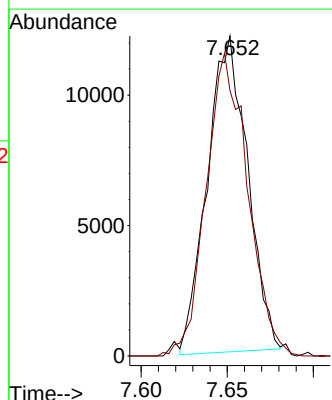
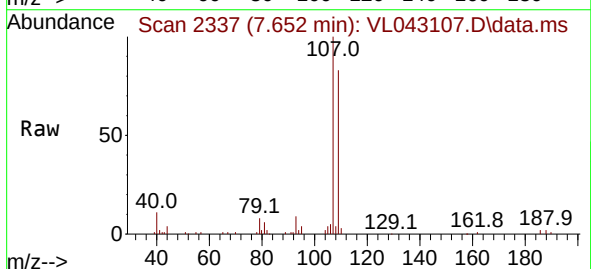
Acq: 14 Oct 2025 12:01

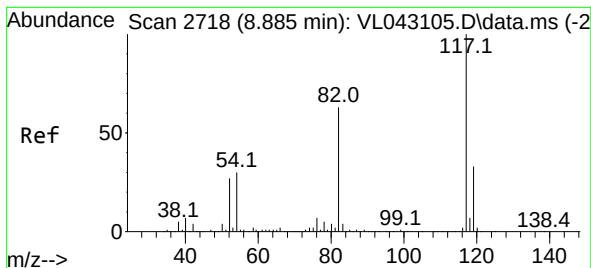
Tgt Ion:107 Resp: 19711

Ion Ratio Lower Upper

107 100

109 80.7 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

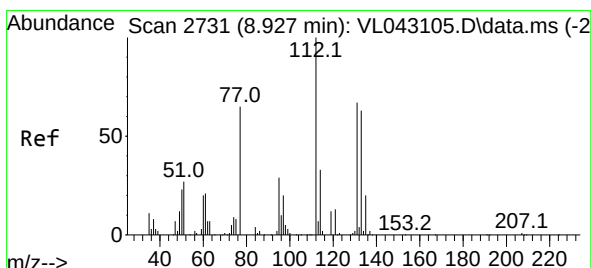
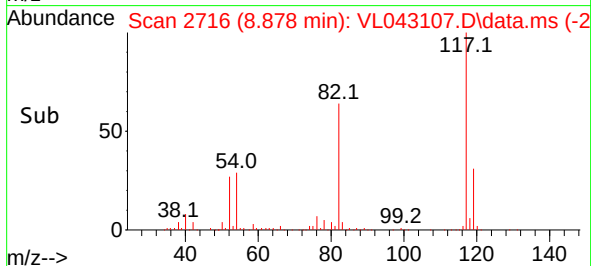
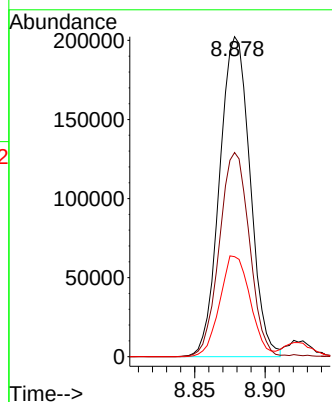
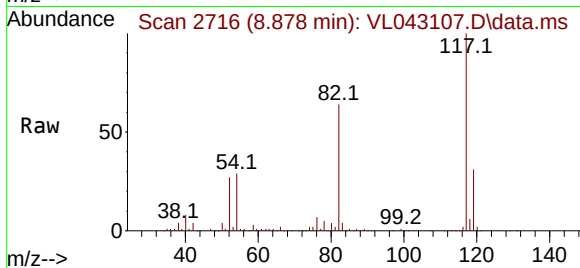
VSTDIC001

Tgt Ion:	117	Resp:	305409
Ion Ratio	Lower	Upper	
117	100		
82	63.4	53.8	80.8
119	32.3	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.053 ppbv

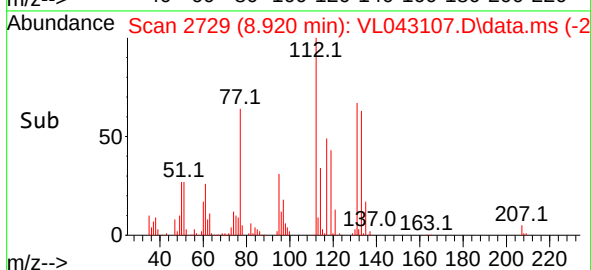
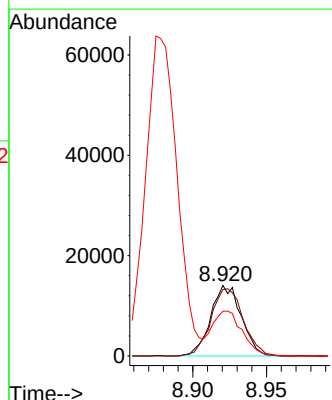
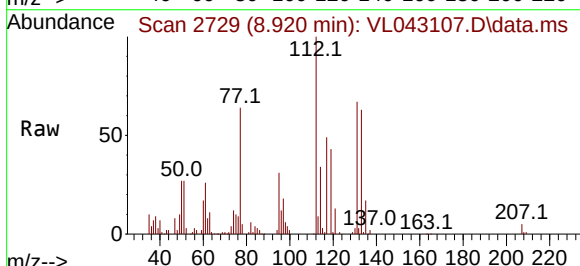
RT: 8.920 min Scan# 2729

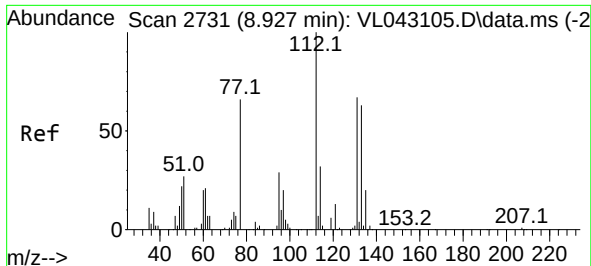
Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion:	131	Resp:	20279
Ion Ratio	Lower	Upper	
131	100		
133	100.9	75.7	113.5
119	62.1	50.6	76.0





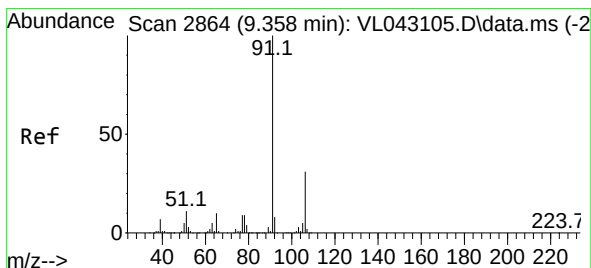
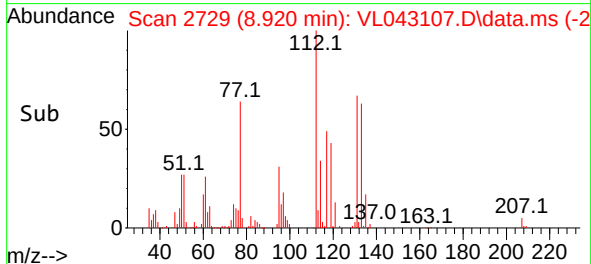
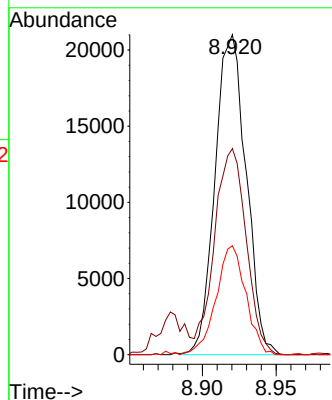
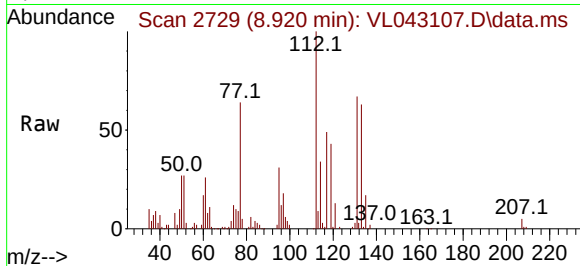
#57
Chlorobenzene
Concen: 1.079 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:112 Resp: 30824
Ion Ratio Lower Upper
112 100
77 64.2 53.3 79.9
114 34.1 29.3 35.8

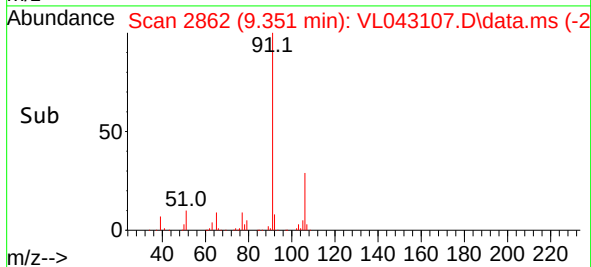
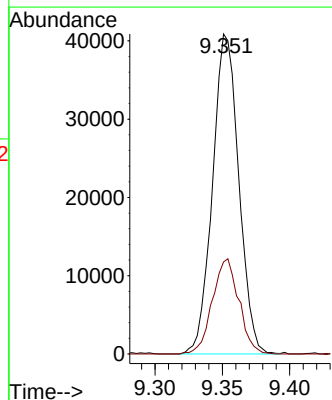
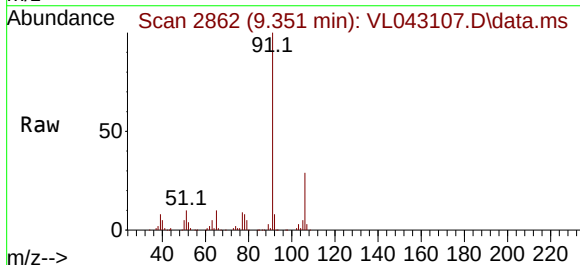
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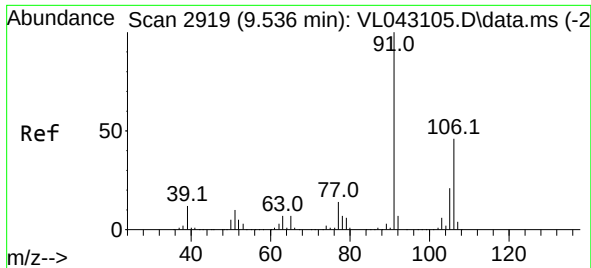
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 1.049 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 55420
Ion Ratio Lower Upper
91 100
106 28.7 24.8 37.2





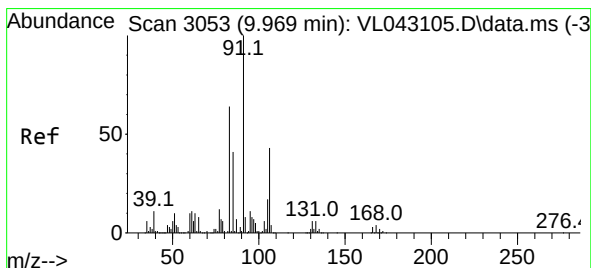
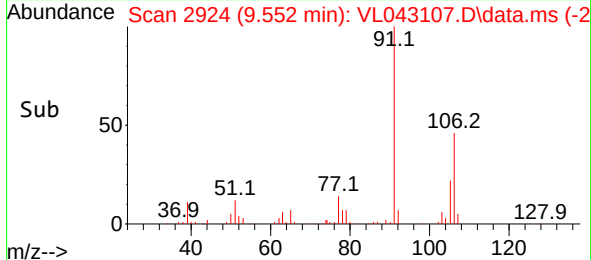
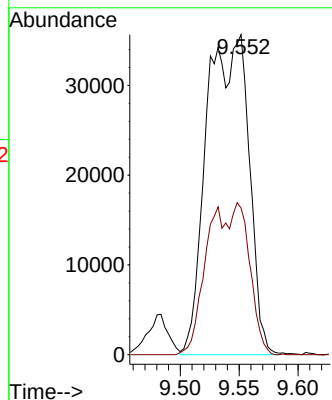
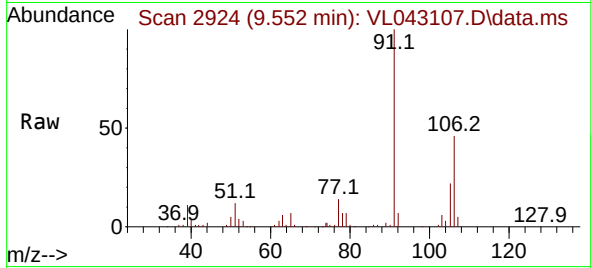
#59
m/p-Xylene
Concen: 2.127 ppbv m
RT: 9.552 min Scan# 2919
Delta R.T. 0.016 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 88998
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

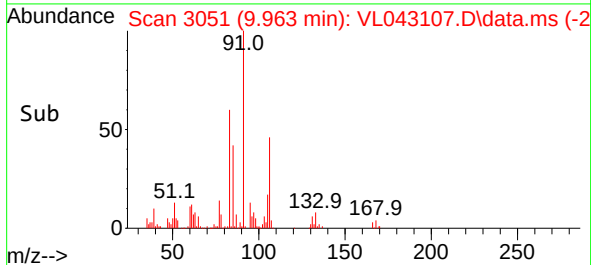
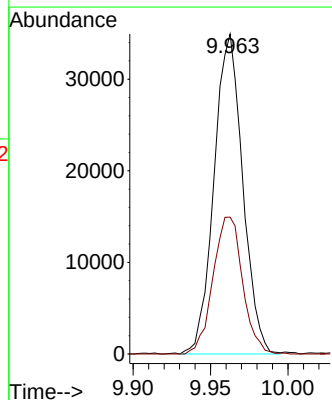
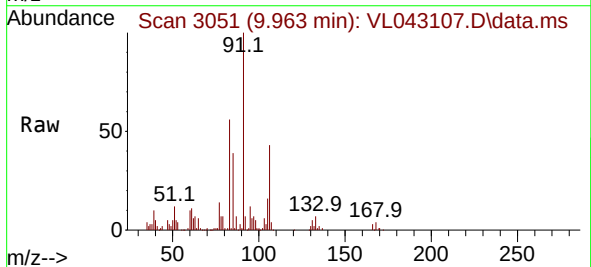
Manual Integrations
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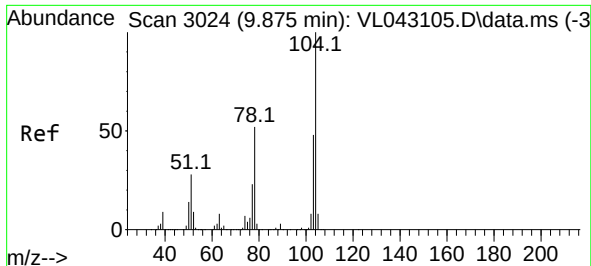
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#60
o-Xylene
Concen: 1.088 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 44925
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8





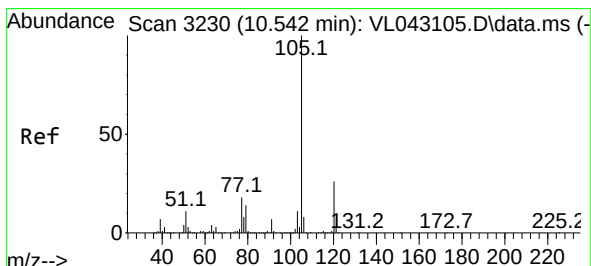
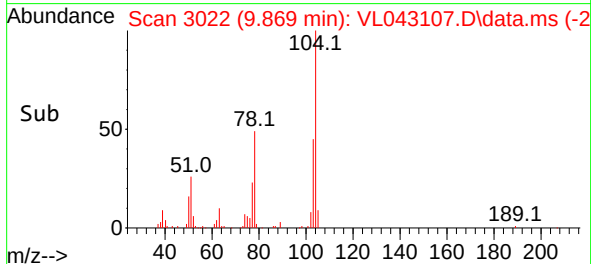
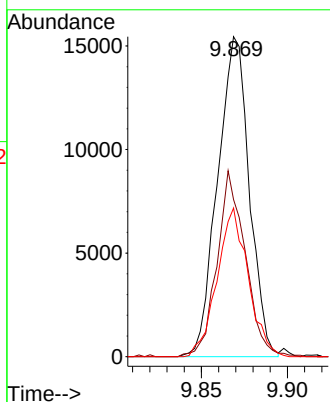
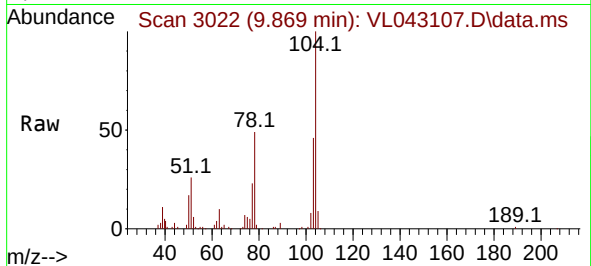
#61
Styrene
Concen: 1.063 ppbv
RT: 9.869 min Scan# 3024
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion:104 Resp: 19809
Ion Ratio Lower Upper
104 100
78 51.8 40.2 60.2
103 45.5 36.9 55.3

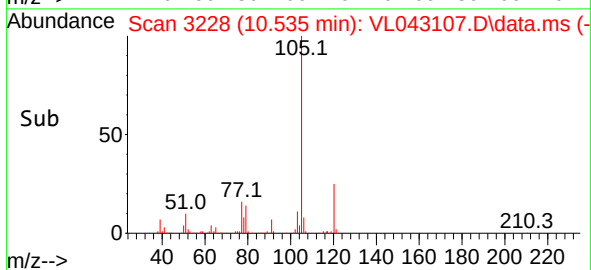
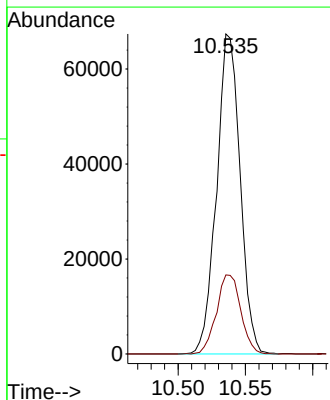
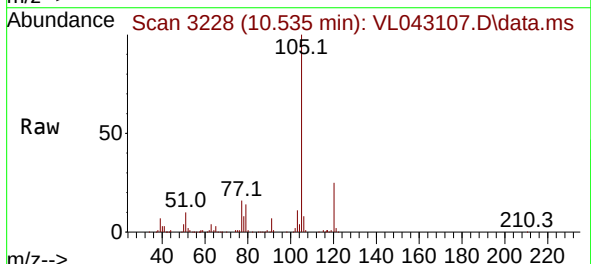
Manual Integrations
APPROVED

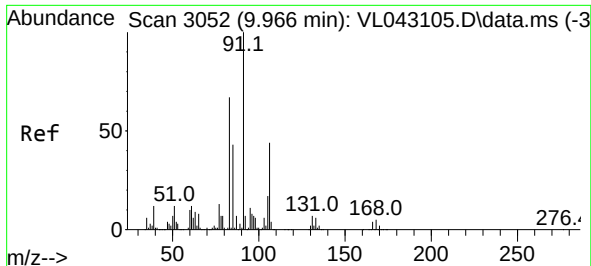
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#62
Isopropylbenzene
Concen: 1.093 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

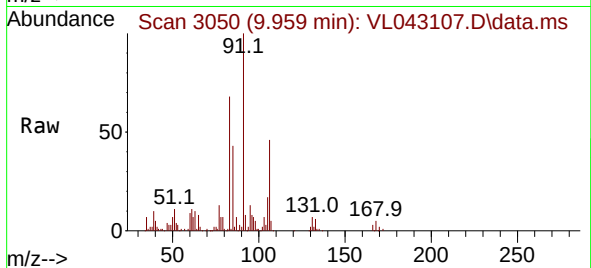
Tgt Ion:105 Resp: 81579
Ion Ratio Lower Upper
105 100
120 25.6 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 1.021 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

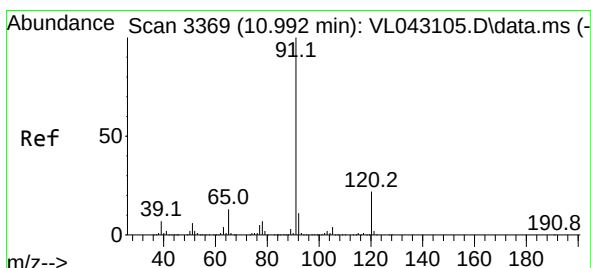
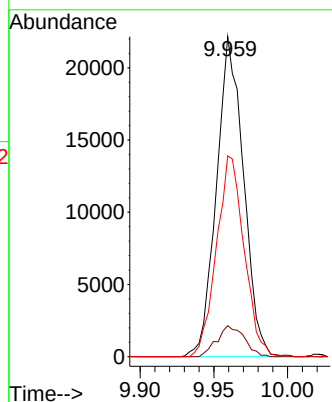
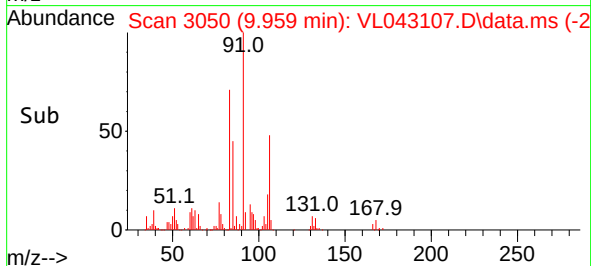
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



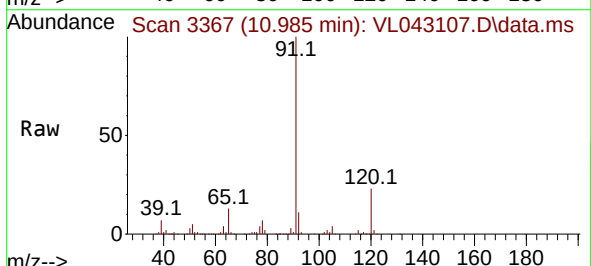
Tgt Ion: 83 Resp: 28230
Ion Ratio Lower Upper
83 100
131 9.8 4.8 14.3
85 64.3 32.0 96.0

Manual Integrations
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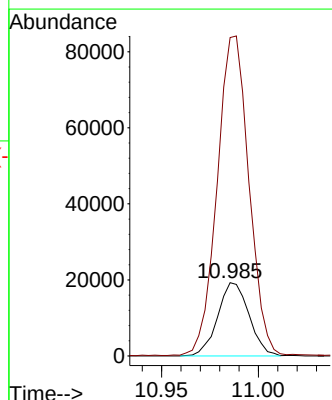
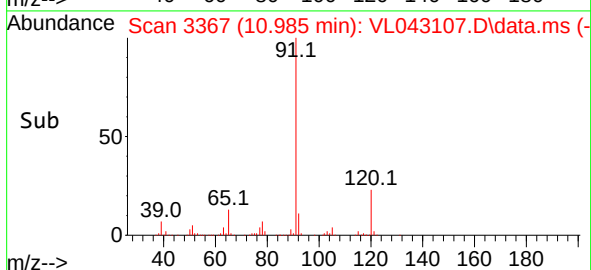
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

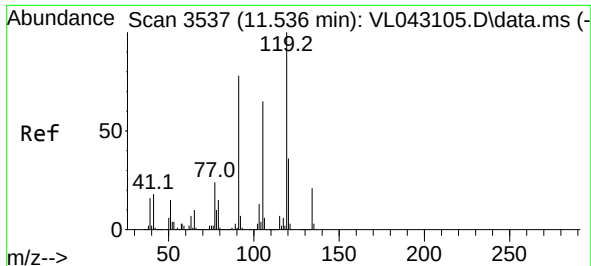


#64
n-propylbenzene
Concen: 1.098 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



Tgt Ion:120 Resp: 21685
Ion Ratio Lower Upper
120 100
91 446.5 361.6 542.4





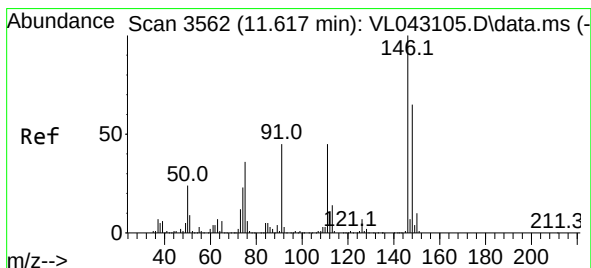
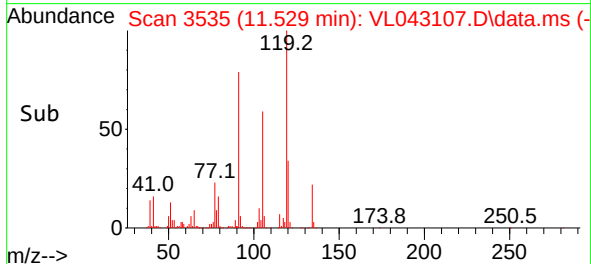
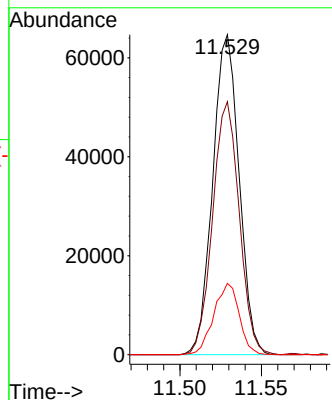
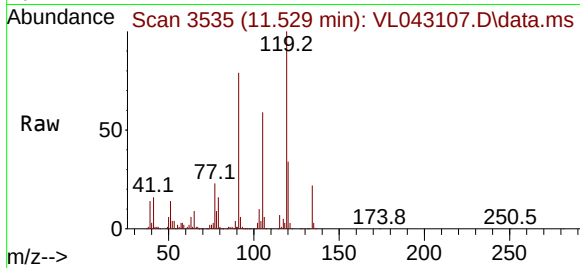
#65
tert-Butylbenzene
Concen: 1.105 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument : MSVOA_L
ClientSampleId : VSTDICC001

Tgt Ion:119 Resp: 7278
Ion Ratio Lower Upper
119 100
91 79.8 63.4 95.0
134 21.5 17.3 25.9

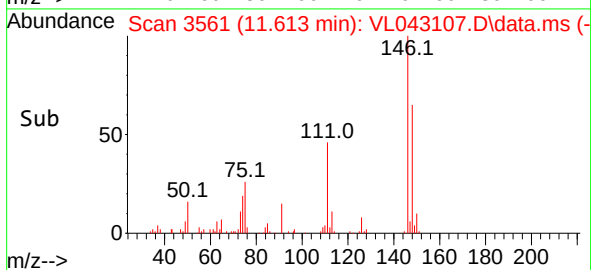
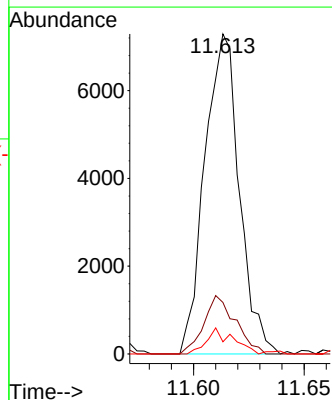
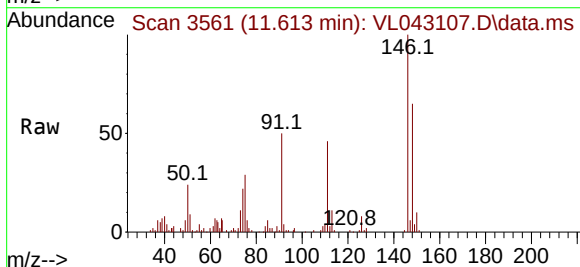
Manual Integrations
APPROVED

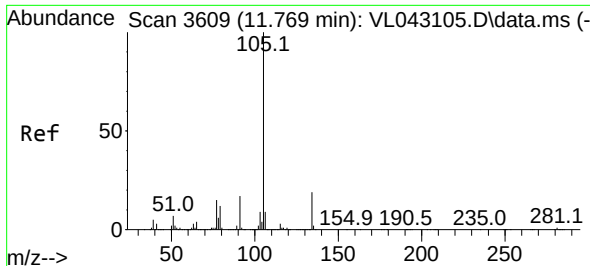
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
Benzyl Chloride
Concen: 1.076 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

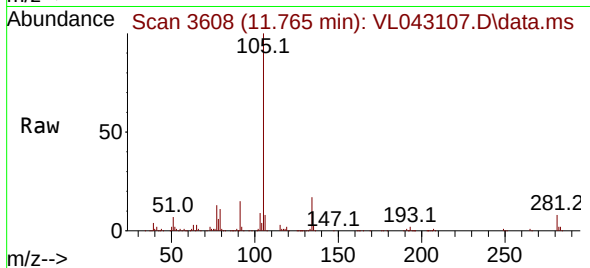
Tgt Ion: 91 Resp: 7918
Ion Ratio Lower Upper
91 100
126 16.6 14.6 22.0
128 6.6 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 1.103 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

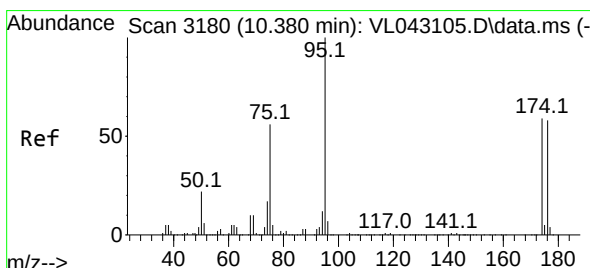
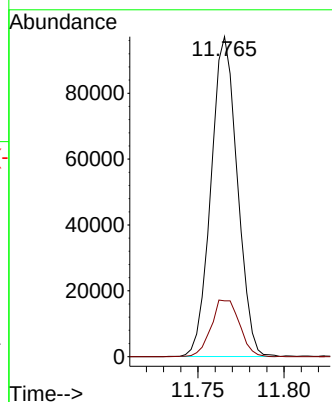
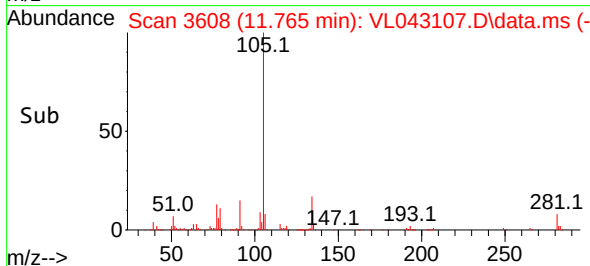
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:105 Resp: 103152
 Ion Ratio Lower Upper
 105 100
 134 19.2 15.5 23.3

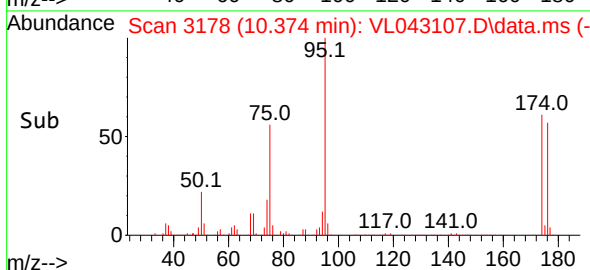
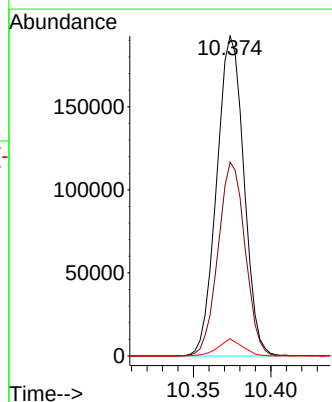
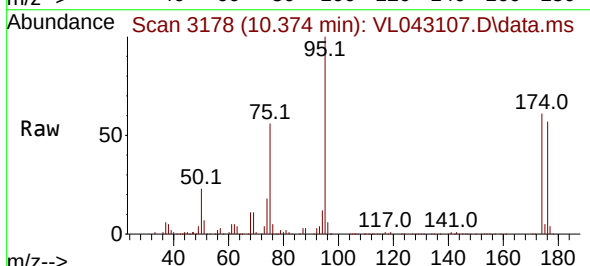
Manual Integrations
 APPROVED

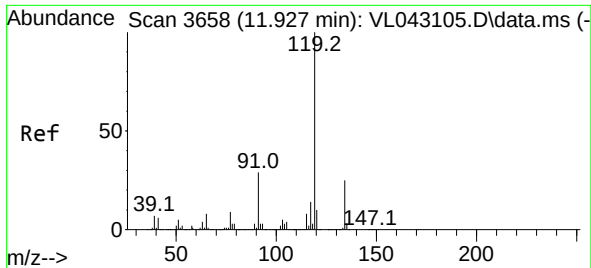
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.912 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 95 Resp: 235307
 Ion Ratio Lower Upper
 95 100
 174 60.3 48.3 72.5
 175 4.8 3.8 5.8





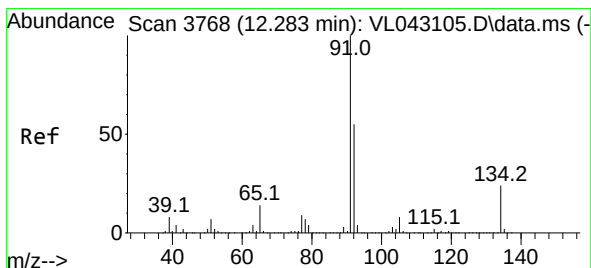
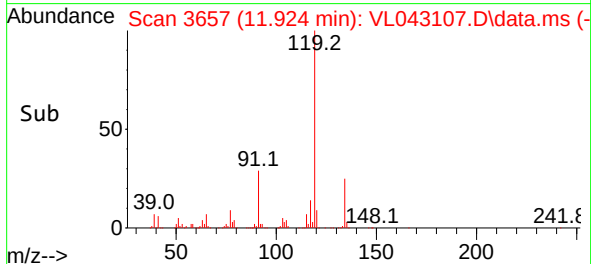
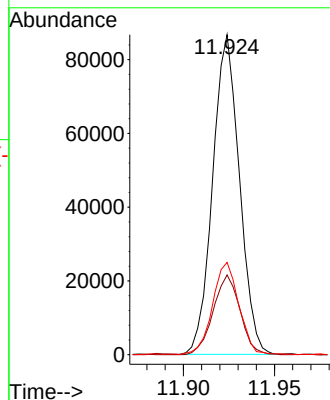
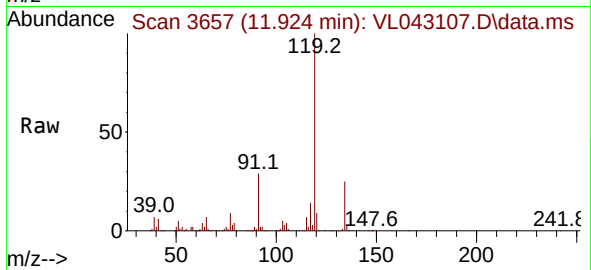
#69
p-Isopropyltoluene
Concen: 1.113 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:119 Resp: 8844
Ion Ratio Lower Upper
119 100
134 25.1 20.3 30.5
91 28.9 22.6 33.8

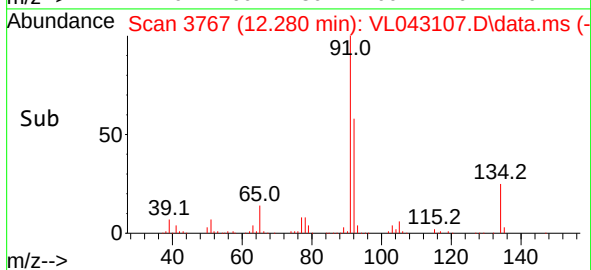
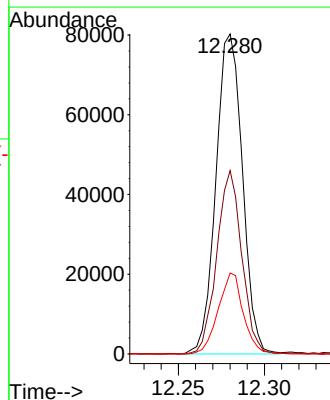
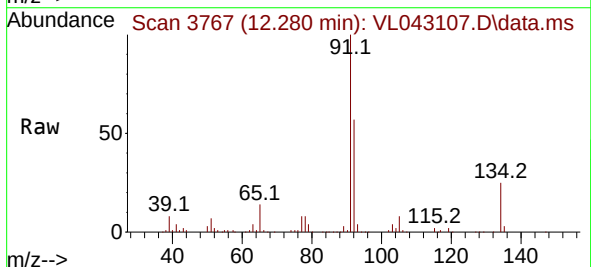
Manual Integrations
APPROVED

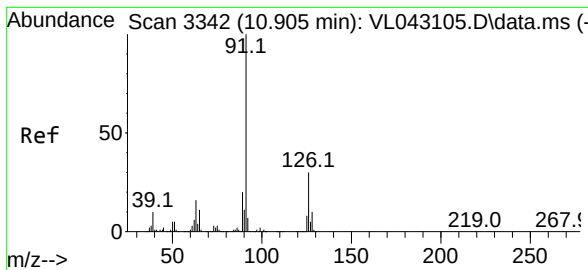
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
n-Butylbenzene
Concen: 1.100 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 86120
Ion Ratio Lower Upper
91 100
92 54.1 44.5 66.7
134 23.9 19.3 28.9





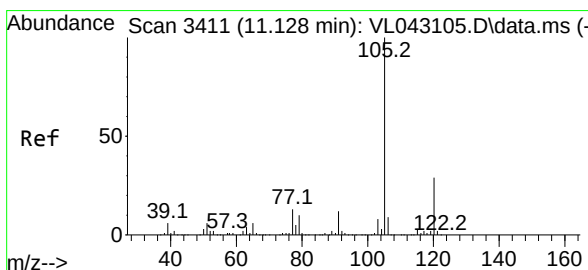
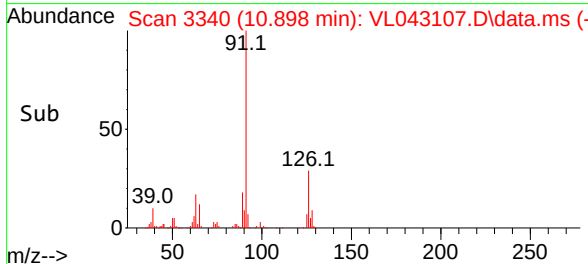
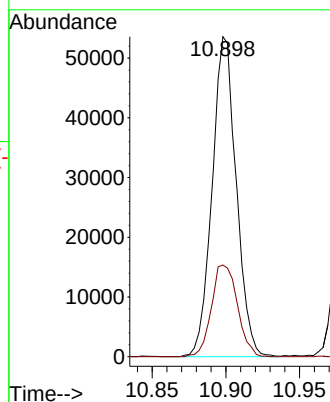
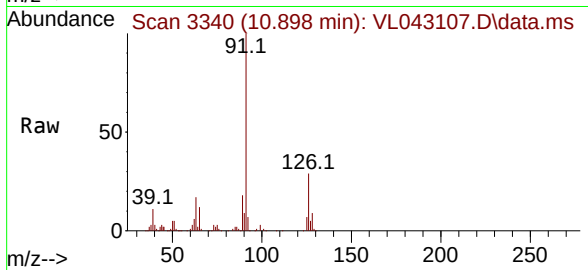
#71
2-Chlorotoluene
Concen: 1.072 ppbv
RT: 10.898 min Scan# 3109
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 60994
Ion Ratio Lower Upper
91 100
126 30.8 12.0 48.0

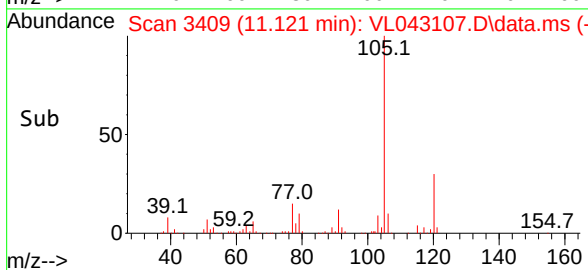
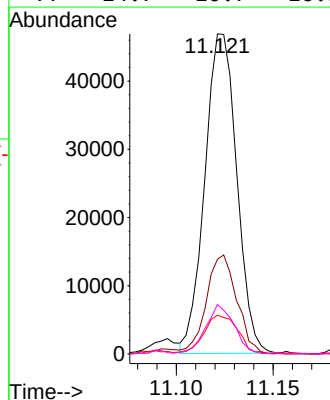
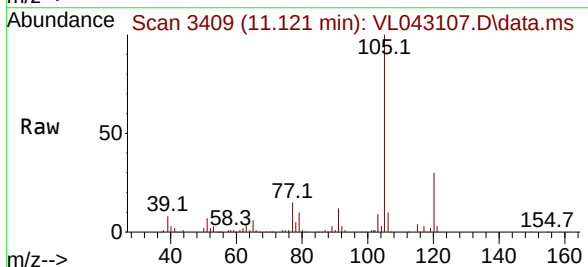
Manual Integrations
APPROVED

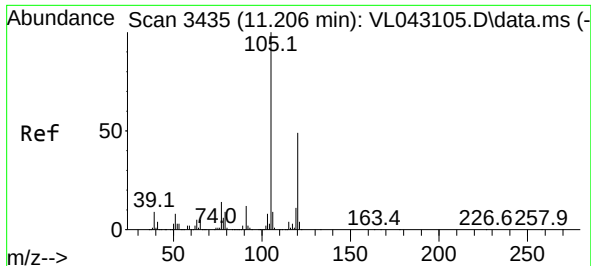
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 1.059 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 53788
Ion Ratio Lower Upper
105 100
120 31.0 24.2 36.4
91 14.0 10.0 15.0
77 14.7 10.7 16.1





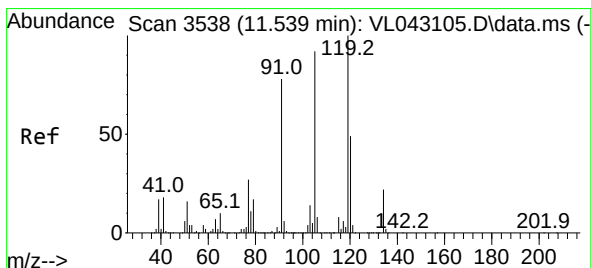
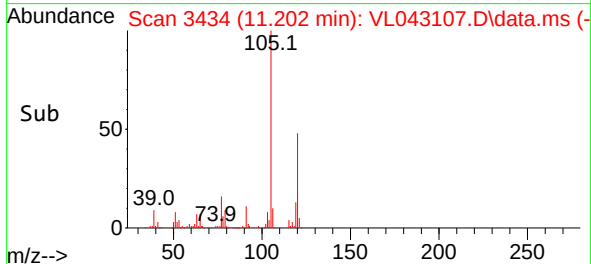
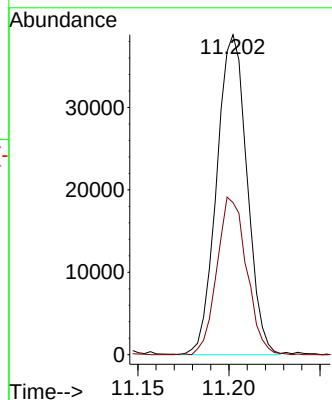
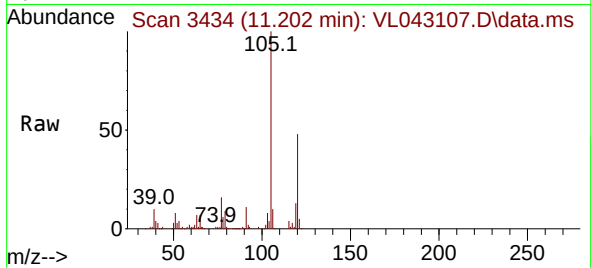
#73
1,3,5-Trimethylbenzene
Concen: 1.070 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:105 Resp: 44780
Ion Ratio Lower Upper
105 100
120 47.3 39.0 58.6

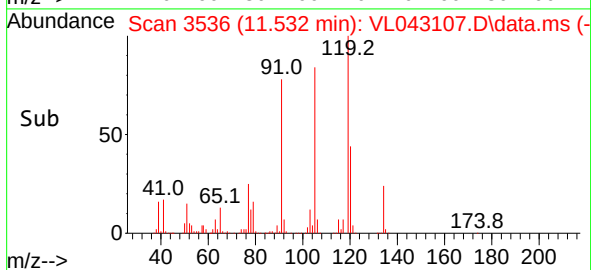
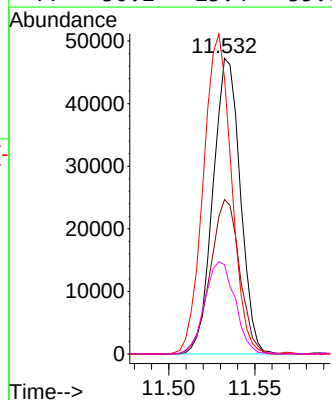
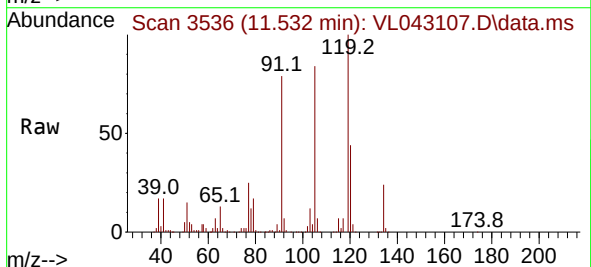
Manual Integrations
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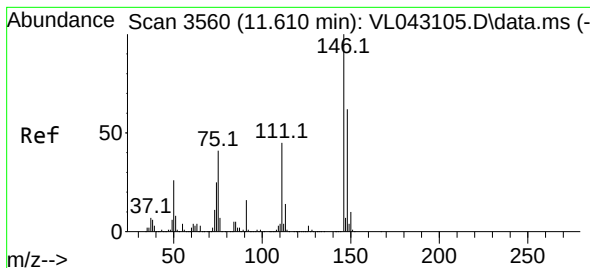
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#74
1,2,4-Trimethylbenzene
Concen: 1.112 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118
Ion Ratio Lower Upper
105 100
120 52.2 42.8 64.2
91 93.1 68.3 102.5
77 30.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 1.074 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

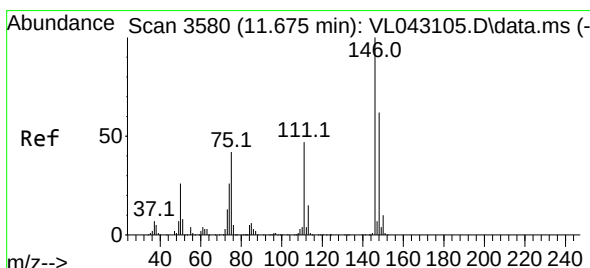
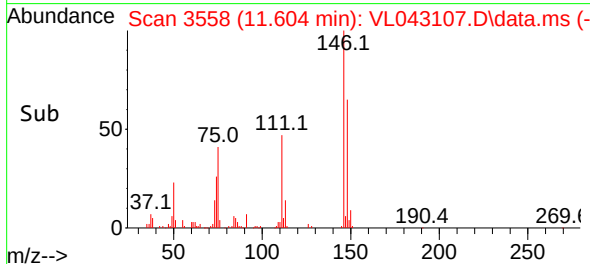
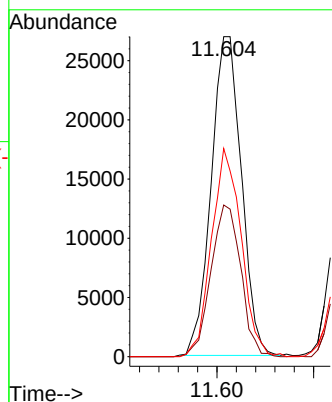
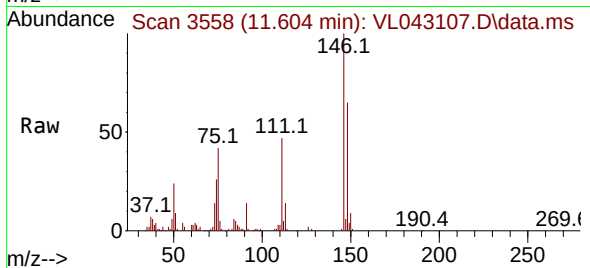
VSTDICC001

Tgt Ion:	146	Resp:	29180
Ion Ratio	Lower	Upper	
146	100		
111	47.0	23.3	69.9
148	64.0	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 1.066 ppbv

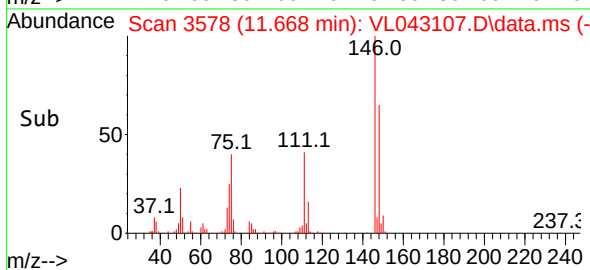
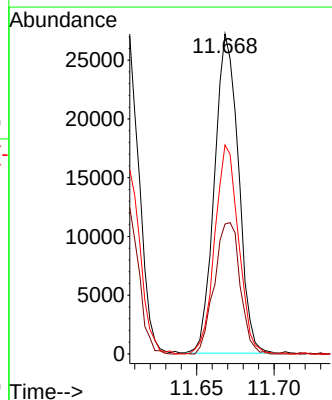
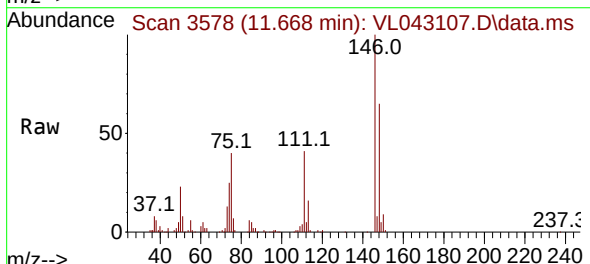
RT: 11.668 min Scan# 3578

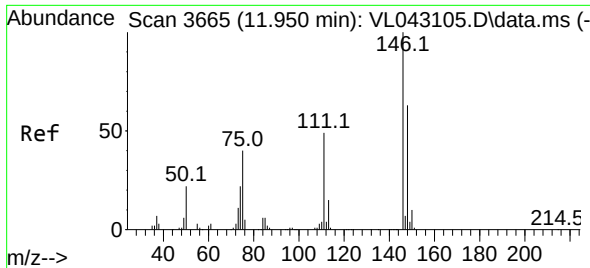
Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

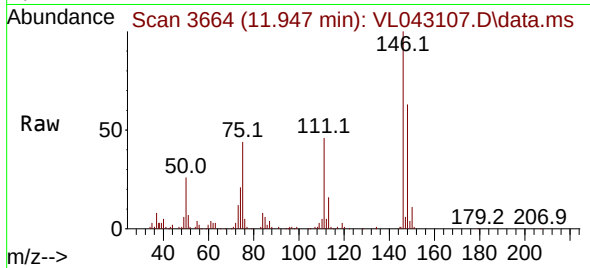
Tgt Ion:	146	Resp:	29225
Ion Ratio	Lower	Upper	
146	100		
111	44.2	22.4	67.0
148	65.0	31.6	94.7





#77
1,2-Dichlorobenzene
Concen: 1.109 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

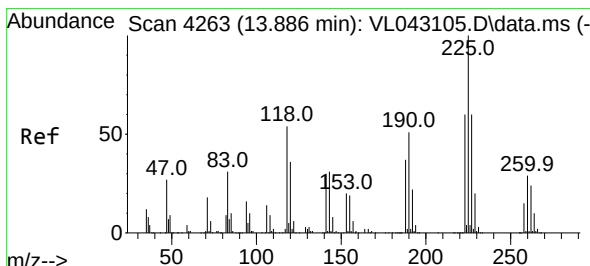
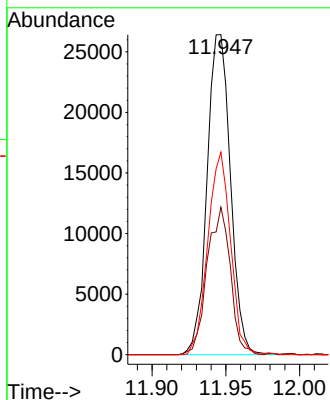
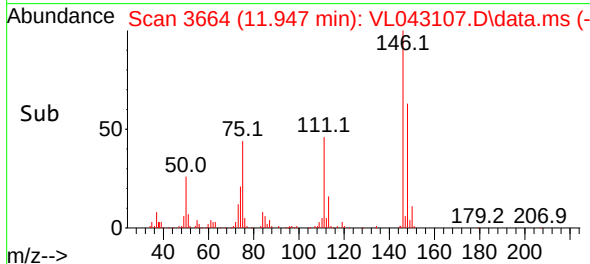
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:146 Resp: 29140
Ion Ratio Lower Upper
146 100
111 45.8 24.0 72.0
148 61.5 31.1 93.3

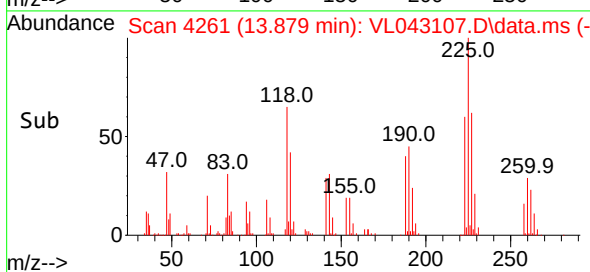
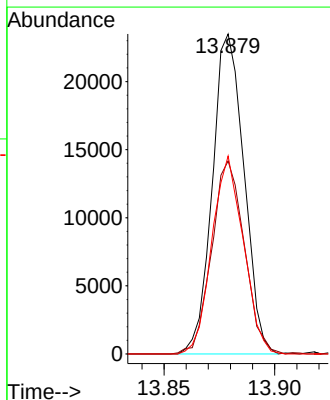
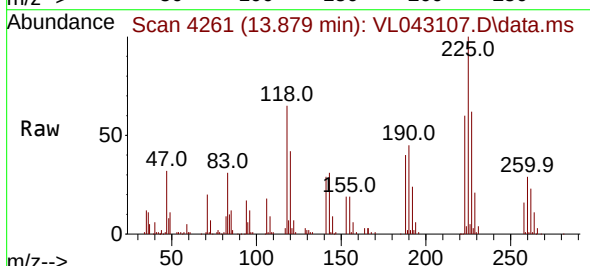
Manual Integrations
APPROVED

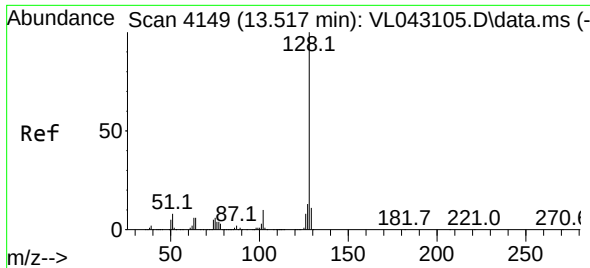
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#78
Hexachloro-1,3-Butadiene
Concen: 1.146 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

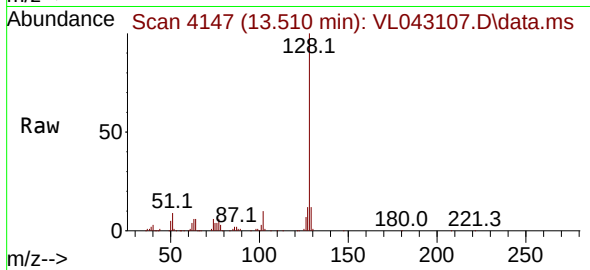
Tgt Ion:225 Resp: 23330
Ion Ratio Lower Upper
225 100
223 62.4 50.2 75.4
227 61.6 49.6 74.4





#79
Naphthalene
Concen: 1.114 ppbv
RT: 13.510 min Scan# 4149
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

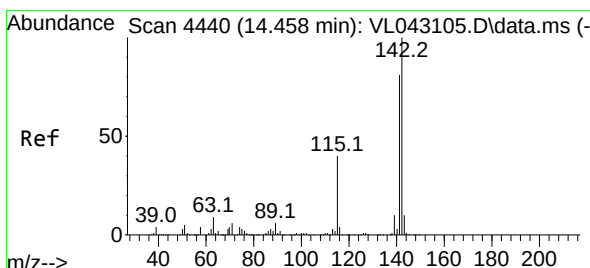
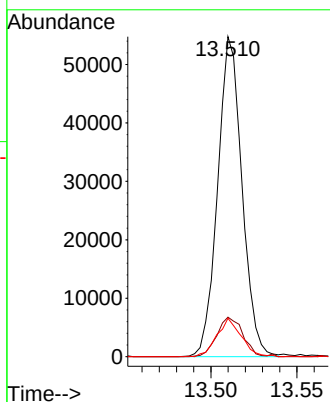
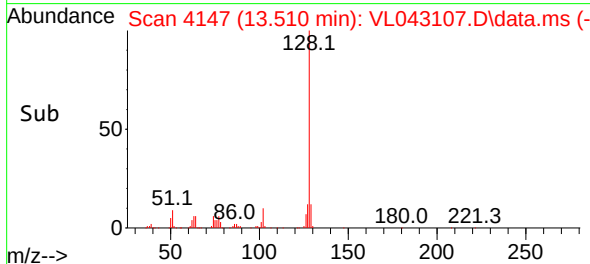
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 53930
Ion Ratio Lower Upper
128 100
127 12.4 10.5 15.7
129 12.0 9.1 13.7

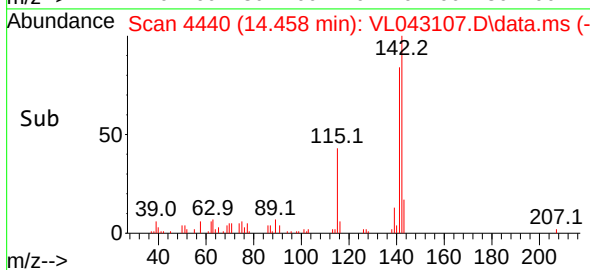
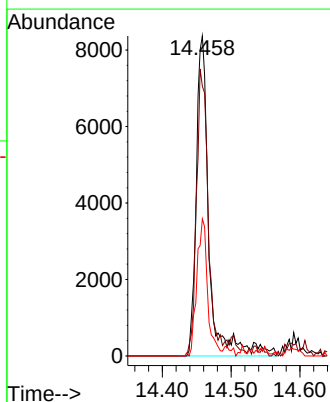
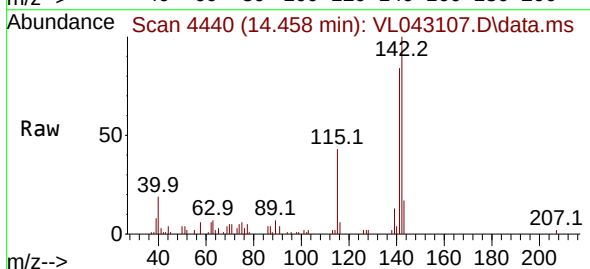
Manual Integrations
APPROVED

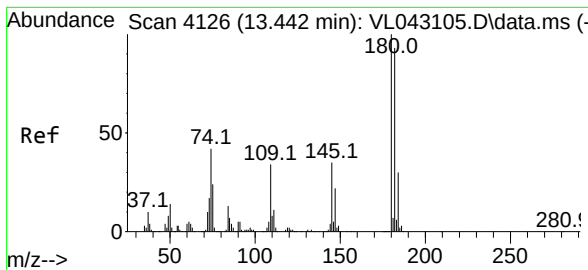
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80
Naphthalene,2-methyl-
Concen: 0.849 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

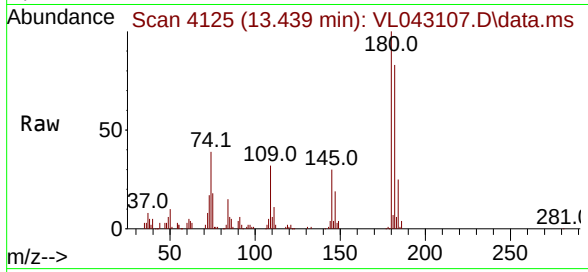
Tgt Ion:142 Resp: 10851
Ion Ratio Lower Upper
142 100
141 88.9 64.6 97.0
115 38.1 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 1.090 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

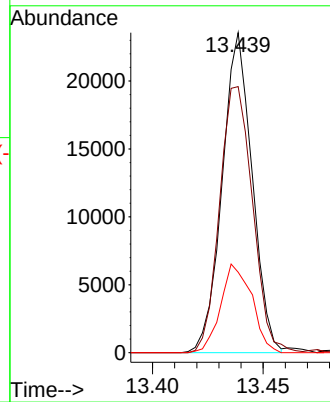
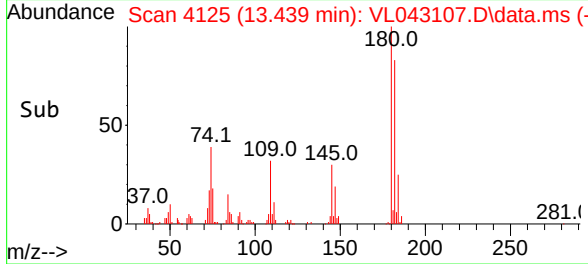
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:180	Resp:	2216
Ion Ratio	Lower	Upper
180	100	
182	92.5	75.5 113.3
184	28.8	23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	101636	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	336188	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	303445	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	232904	9.875	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	7851	0.543	ppbv	98
3) Chlorodifluoromethane	1.479	51	8497	0.543	ppbv #	89
4) Chloromethane	1.534	50	3254	0.568	ppbv #	88
5) Vinyl Chloride	1.583	62	2857	0.509	ppbv	96
6) Bromomethane	1.670	94	1709	0.555	ppbv	100
7) Chloroethane	1.706	64	1326	0.578	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	5970	0.511	ppbv	92
9) Propene	1.486	41	3750	0.541	ppbv	92
10) Heptane	4.981	43	11097m	0.558	ppbv	
11) Trichlorofluoromethane	1.881	101	7672	0.543	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	6173	0.543	ppbv	100
13) Ethanol	1.725	45	1468	0.572	ppbv	86
14) Bromoethene	1.787	108	2444	0.578	ppbv #	90
15) Acetone	1.839	43	7931	0.576	ppbv #	88
16) 1,3-Butadiene	1.612	39	3962	0.607	ppbv	91
17) tert-Butyl alcohol	2.046	59	10213	0.543	ppbv #	88
18) 1,1-Dichloroethene	2.039	96	2636	0.531	ppbv	91
19) Isopropyl Alcohol	1.887	45	4932	0.578	ppbv #	43
20) Methylene Chloride	2.065	84	3750	0.693	ppbv #	75
21) Allyl Chloride	2.098	41	5575	0.551	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	3093	0.522	ppbv	98
23) Vinyl Acetate	2.467	43	10914	0.544	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	5942	0.519	ppbv	99
25) Ethyl Acetate	2.845	43	17918	0.527	ppbv #	96
26) Hexane	2.829	57	8908	0.569	ppbv	95
27) Carbon Disulfide	2.153	76	7230	0.504	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	3770	0.529	ppbv #	47
29) Chloroform	2.852	83	12384	0.546	ppbv	100
30) Cyclohexane	3.862	84	7586m	0.556	ppbv	
31) cis-1,2-Dichloroethene	2.725	61	7576	0.507	ppbv #	88
32) 1,1,1-Trichloroethane	3.373	97	12234	0.518	ppbv	97
34) 2-Butanone	2.564	43	12659	0.557	ppbv	99
35) Carbon Tetrachloride	3.768	117	11931	0.494	ppbv	87
36) Benzene	3.661	78	16376	0.517	ppbv	94
37) 1,2-Dichloroethane	3.224	62	9907	0.543	ppbv	99
38) Trichloroethene	4.554	130	6745	0.511	ppbv	95
39) 1,2-Dichloropropane	4.318	63	6032	0.521	ppbv #	80
40) 1,4-Dioxane	4.609	88	2794m	0.539	ppbv	
41) Tetrahydrofuran	3.065	42	7174m	0.565	ppbv	
42) Bromodichloromethane	4.496	83	13094	0.519	ppbv	96
43) Methyl Methacrylate	4.888	69	8412m	0.521	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	28494m	0.538	ppbv	
45) t-1,3-Dichloropropene	6.425	75	8030	0.498	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

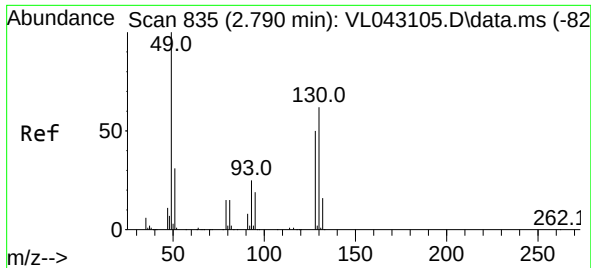
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

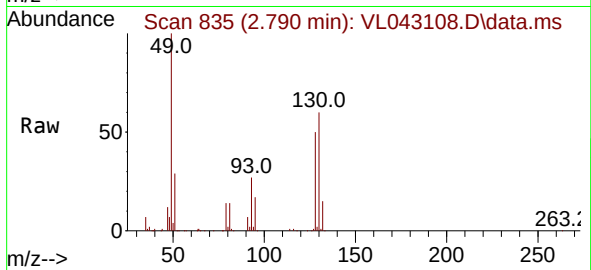
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	9973m	0.518	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	6996	0.560	ppbv	92
48) Dibromochloromethane	7.393	129	10413	0.498	ppbv	96
49) Bromoform	9.487	173	8455	0.498	ppbv	96
50) 4-Methyl-2-Pentanone	5.771	43	16289m	0.520	ppbv	
51) 2-Hexanone	7.451	43	11485	0.491	ppbv #	94
52) Tetrachloroethene	8.231	164	5863	0.513	ppbv #	90
53) Toluene	6.936	91	20380	0.542	ppbv	99
54) 1,2-Dibromoethane	7.661	107	9586	0.486	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.930	131	10044	0.525	ppbv #	1
57) Chlorobenzene	8.927	112	15318	0.540	ppbv	95
58) Ethyl Benzene	9.357	91	27330	0.521	ppbv	91
59) m/p-Xylene	9.539	91	44407m	1.068	ppbv	
60) o-Xylene	9.969	91	21745	0.530	ppbv	96
61) Styrene	9.878	104	9052	0.489	ppbv	96
62) Isopropylbenzene	10.542	105	38899	0.525	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	13653	0.497	ppbv	97
64) n-propylbenzene	10.992	120	10435	0.532	ppbv	99
65) tert-Butylbenzene	11.532	119	35537	0.543	ppbv	99
66) Benzyl Chloride	11.620	91	3477	0.476	ppbv #	97
67) sec-Butylbenzene	11.769	105	50259	0.541	ppbv	100
69) p-Isopropyltoluene	11.927	119	41366	0.524	ppbv	99
70) n-Butylbenzene	12.283	91	39620	0.509	ppbv	98
71) 2-Chlorotoluene	10.901	91	29722	0.526	ppbv	98
72) 4-Ethyltoluene	11.128	105	26408	0.524	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	21754	0.523	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	25663	0.551	ppbv	93
75) 1,3-Dichlorobenzene	11.610	146	13697	0.507	ppbv	95
76) 1,4-Dichlorobenzene	11.675	146	14514	0.533	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	14324	0.548	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	11400	0.564	ppbv	98
79) Naphthalene	13.516	128	23247	0.483	ppbv #	94
80) Naphthalene,2-methyl-	14.462	142	3874	0.305	ppbv #	84
81) 1,2,4-Trichlorobenzene	13.442	180	8395	0.416	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

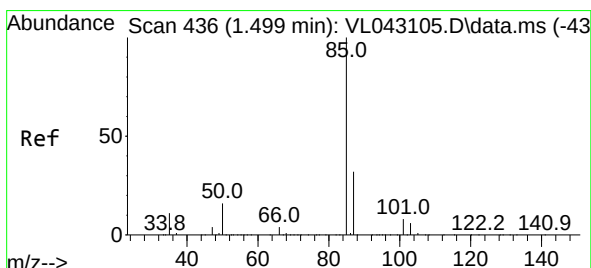
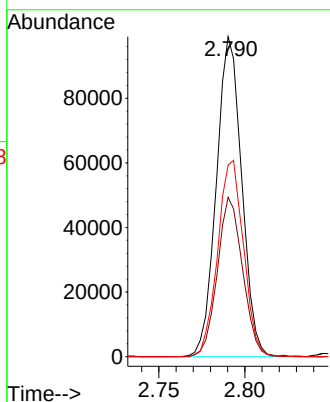
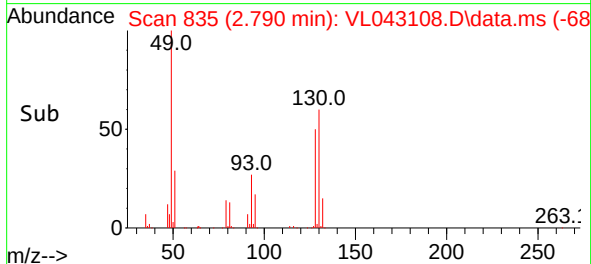
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



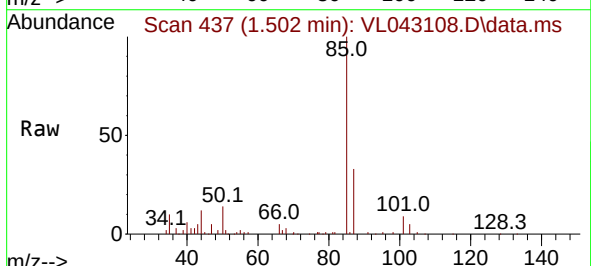
Tgt Ion: 49 Resp: 101630
Ion Ratio Lower Upper
49 100
128 49.5 24.4 73.4
130 62.5 31.0 93.0

Manual Integrations
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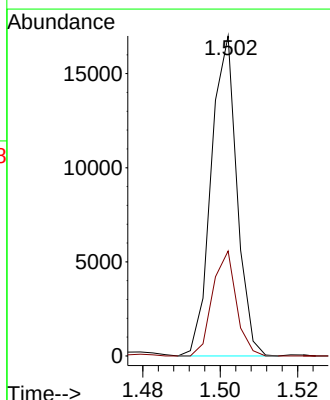
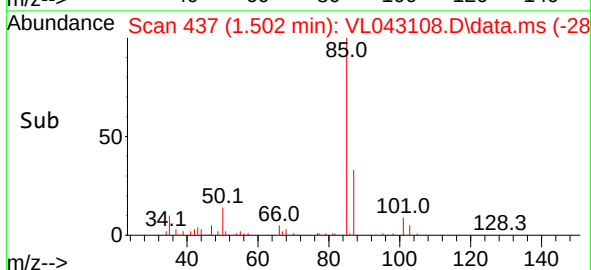
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

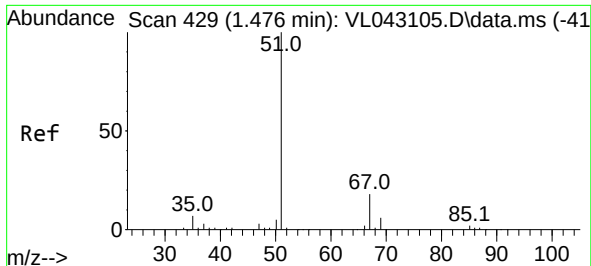


#2
Dichlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 85 Resp: 7851
Ion Ratio Lower Upper
85 100
87 32.8 25.3 37.9





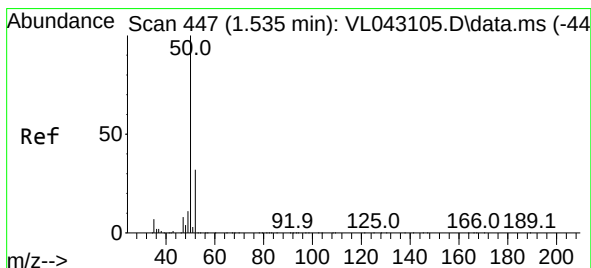
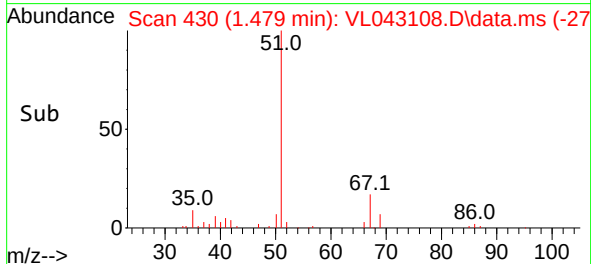
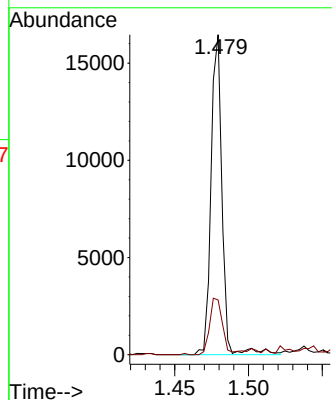
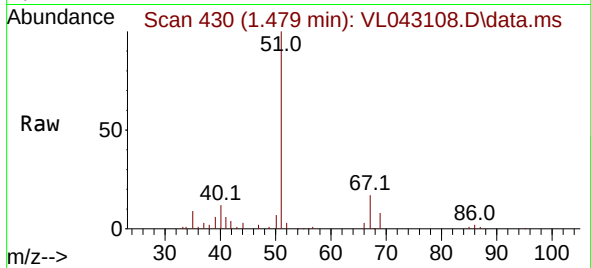
#3
Chlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 51 Resp: 849
Ion Ratio Lower Upper
51 100
67 23.8 15.1 22.7

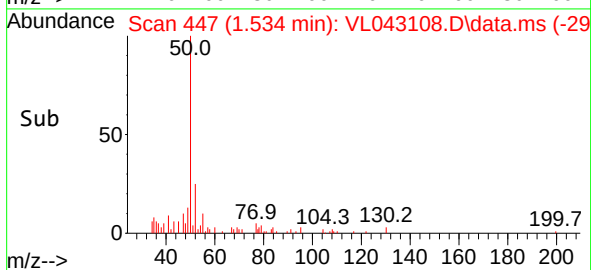
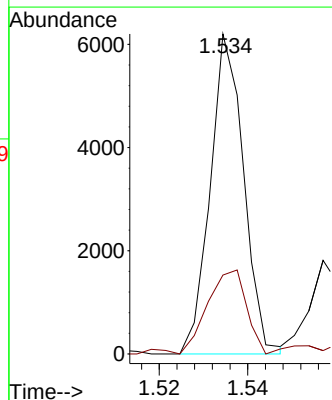
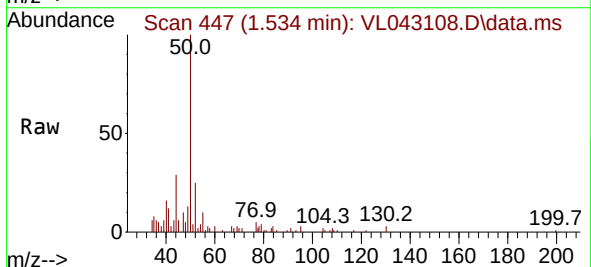
Manual Integrations
APPROVED

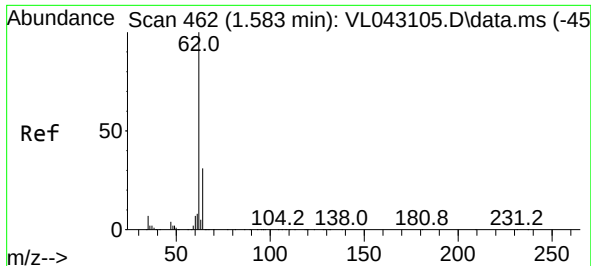
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 0.568 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

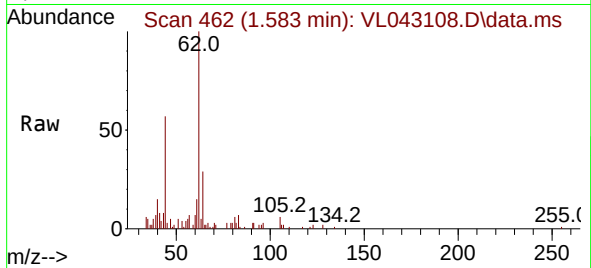
Tgt Ion: 50 Resp: 3254
Ion Ratio Lower Upper
50 100
52 24.7 25.2 37.8





#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

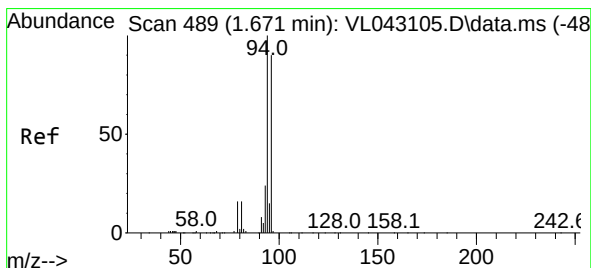
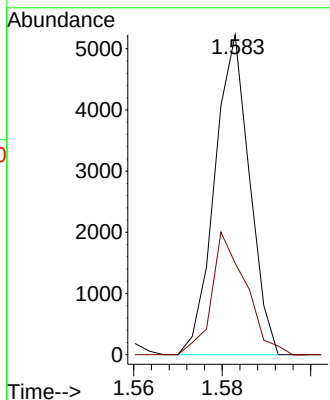
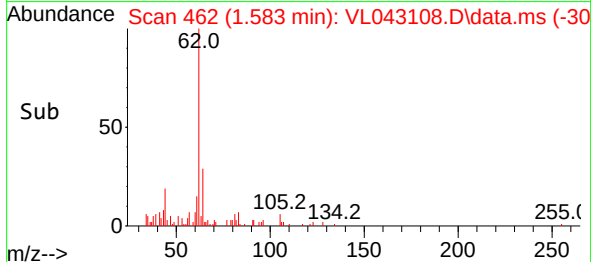
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



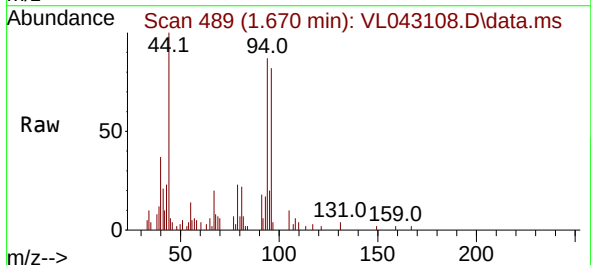
Tgt Ion: 62 Resp: 285
 Ion Ratio Lower Upper
 62 100
 64 28.6 24.6 36.8

Manual Integrations
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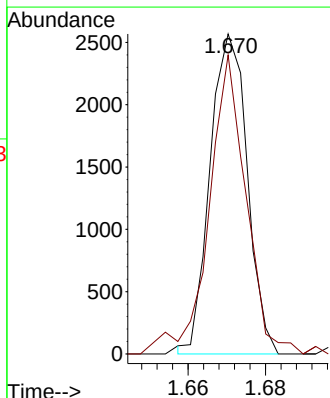
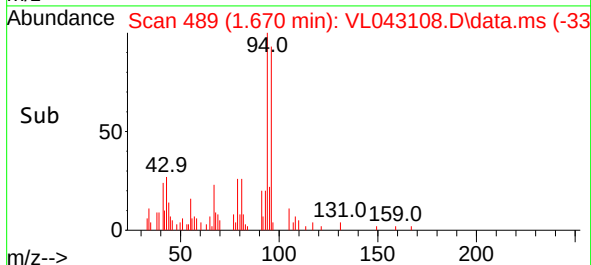
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

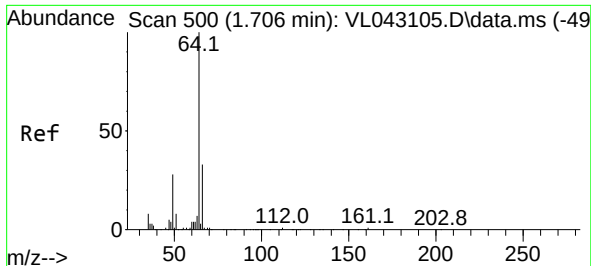


#6
 Bromomethane
 Concen: 0.555 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34



Tgt Ion: 94 Resp: 1709
 Ion Ratio Lower Upper
 94 100
 96 89.9 72.2 108.4





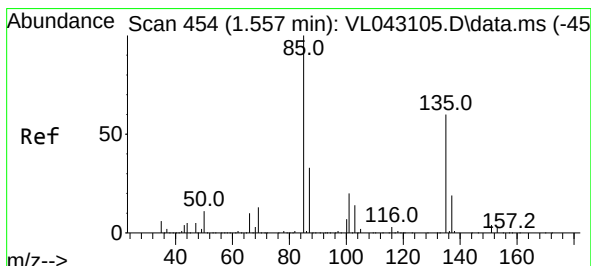
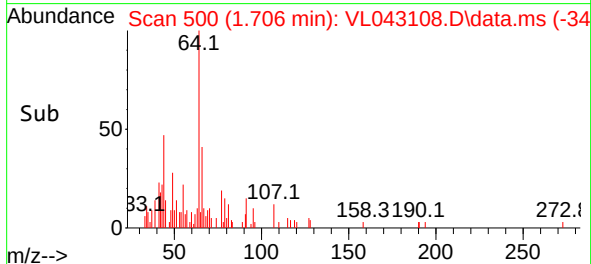
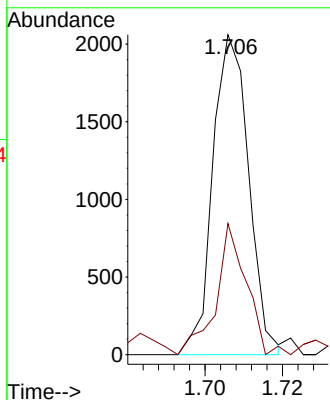
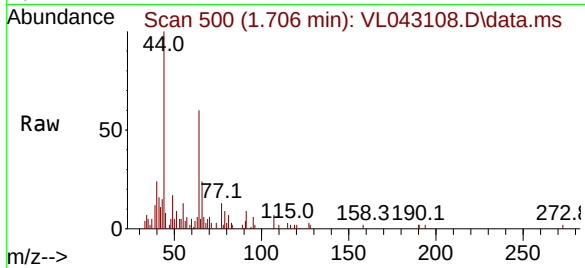
#7
Chloroethane
Concen: 0.578 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 64 Resp: 1320
Ion Ratio Lower Upper
64 100
66 41.0 26.0 39.0

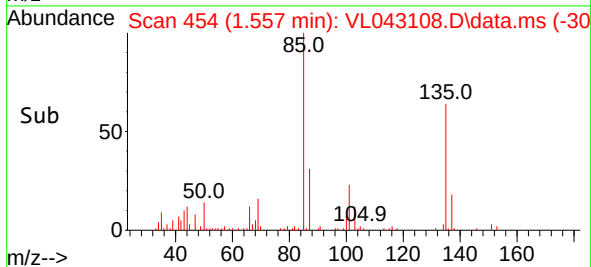
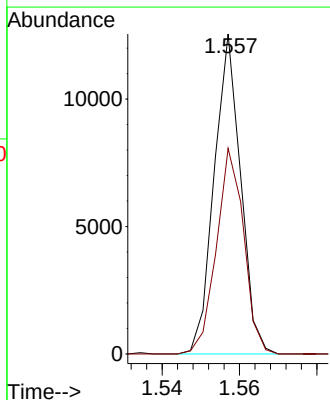
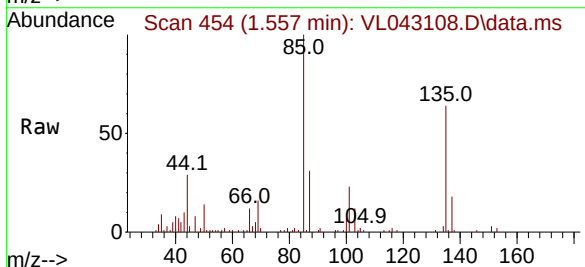
Manual Integrations
APPROVED

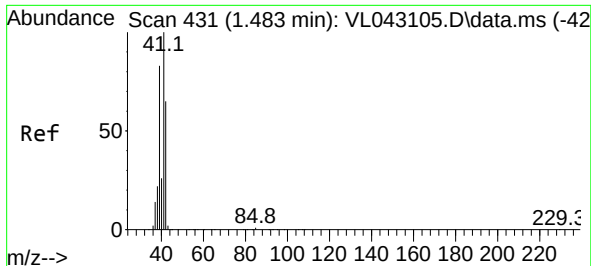
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 0.511 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970
Ion Ratio Lower Upper
85 100
135 66.3 48.2 72.4





#9

Propene

Concen: 0.541 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 41 Resp: 3750

Ion Ratio Lower Upper

41 100

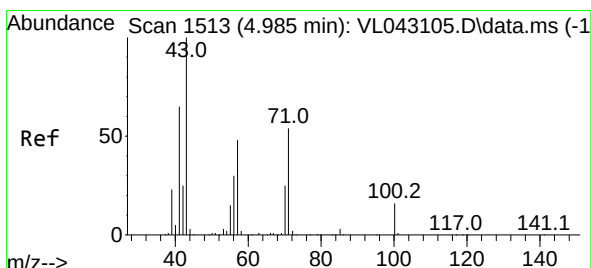
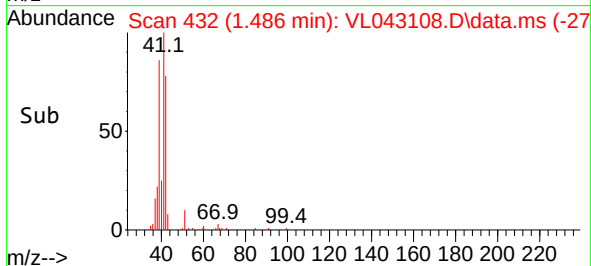
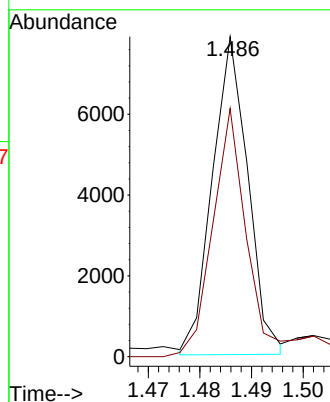
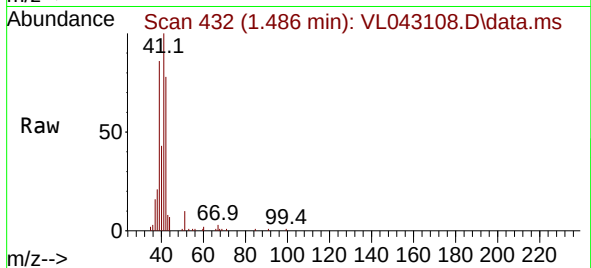
42 75.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 0.558 ppbv m

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043108.D

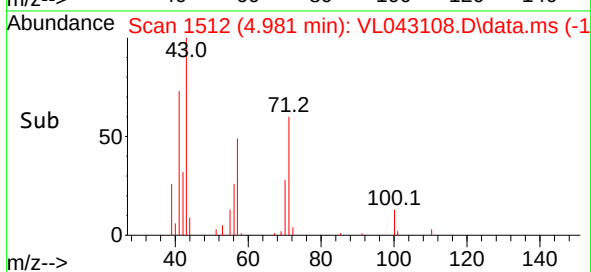
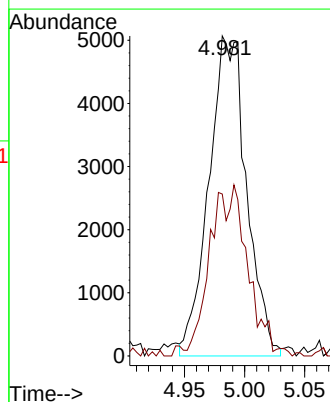
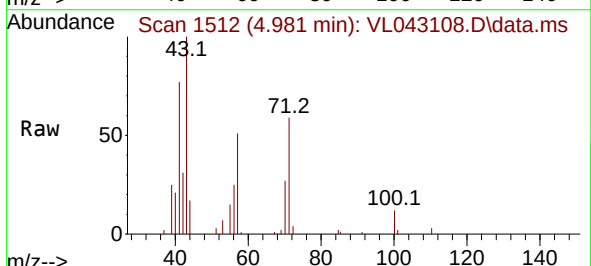
Acq: 14 Oct 2025 12:34

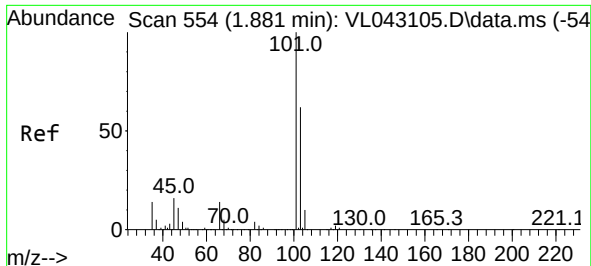
Tgt Ion: 43 Resp: 11097

Ion Ratio Lower Upper

43 100

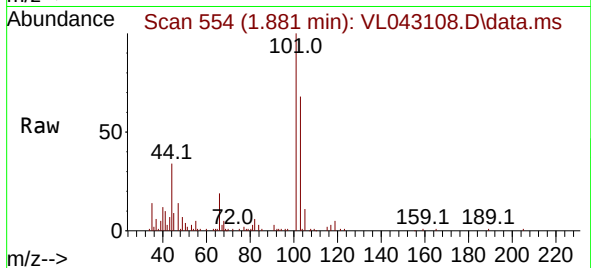
57 0.0 40.8 61.2#





#11
Trichlorofluoromethane
Concen: 0.543 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

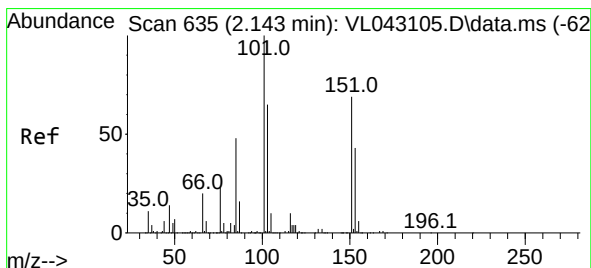
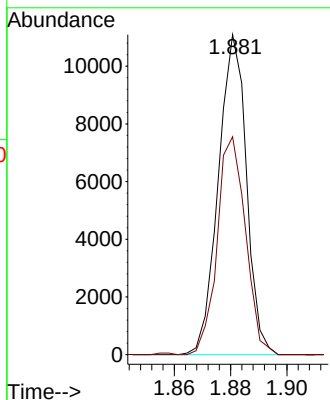
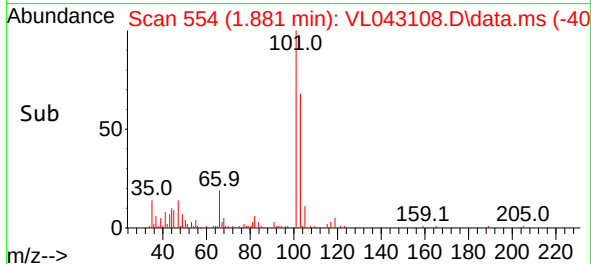
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



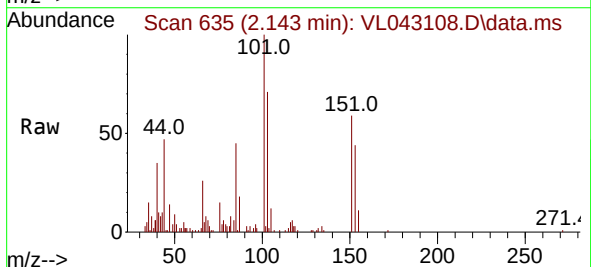
Tgt Ion:101 Resp: 7672
Ion Ratio Lower Upper
101 100
103 68.1 49.3 73.9

Manual Integrations
APPROVED

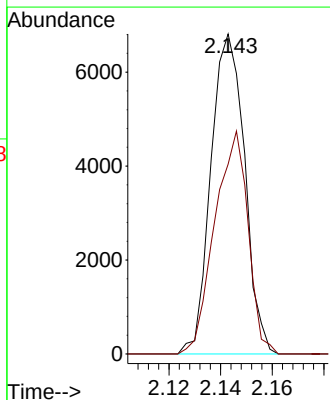
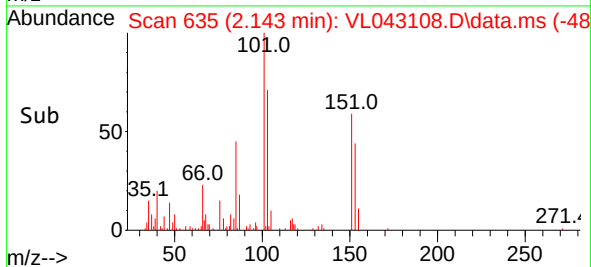
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

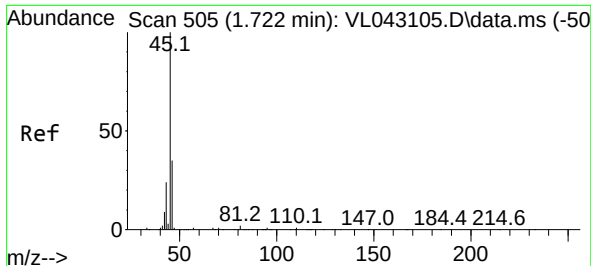


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.543 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion:101 Resp: 6173
Ion Ratio Lower Upper
101 100
151 68.8 54.7 82.1





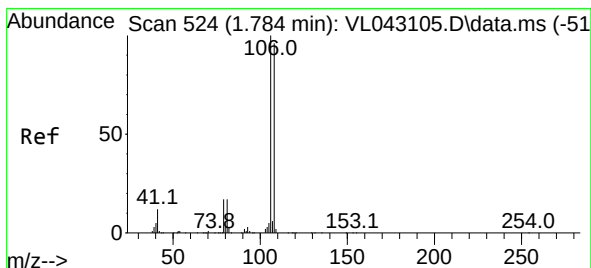
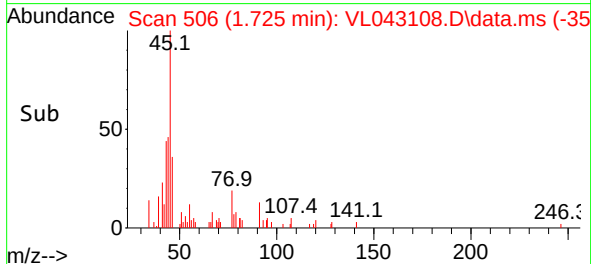
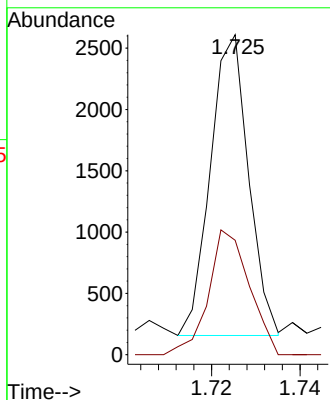
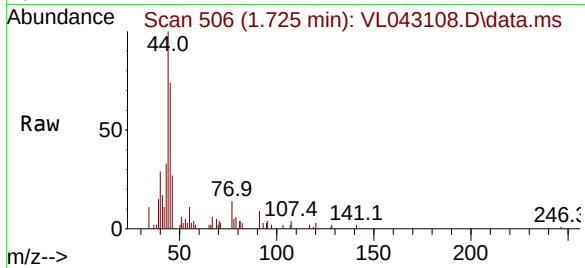
#13
Ethanol
Concen: 0.572 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 1468
Ion Ratio Lower Upper
45 100
46 45.1 14.7 58.9

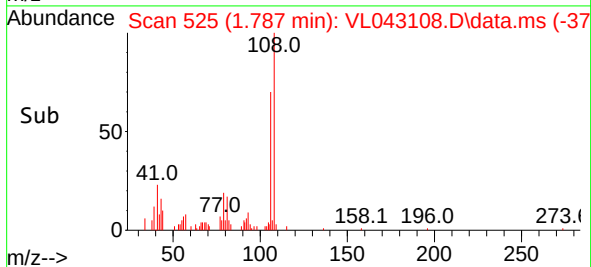
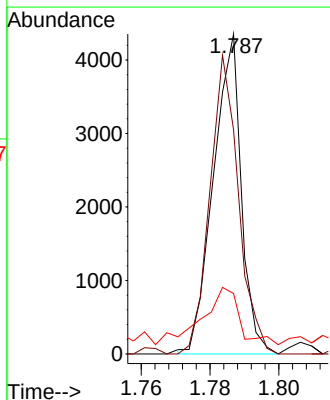
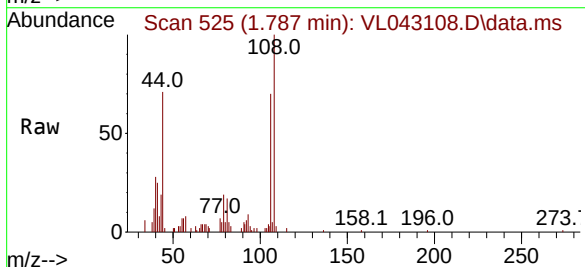
Manual Integrations
APPROVED

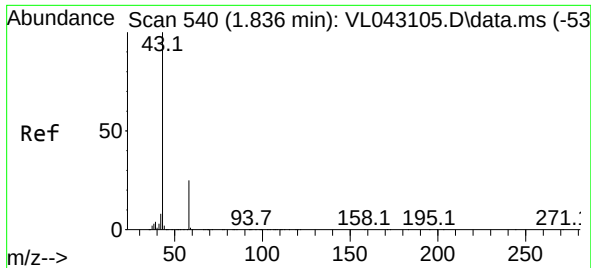
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#14
Bromoethene
Concen: 0.578 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

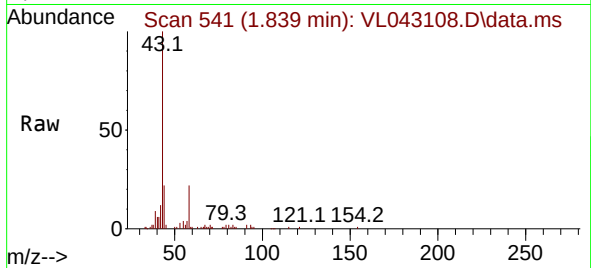
Tgt Ion:108 Resp: 2444
Ion Ratio Lower Upper
108 100
106 98.2 84.4 126.6
79 31.2 15.3 22.9#





#15
Acetone
Concen: 0.576 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

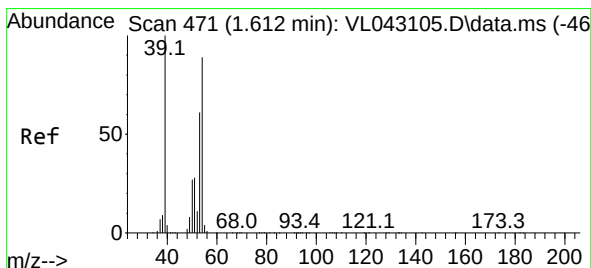
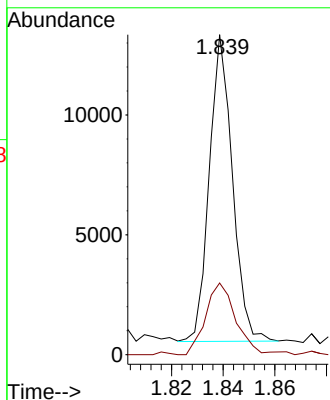
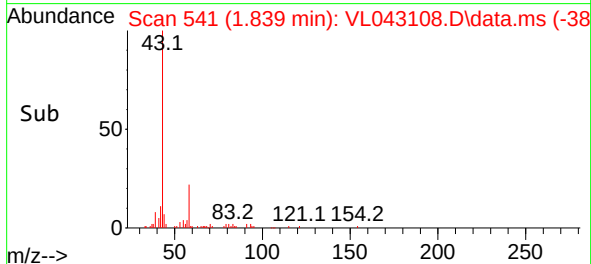
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



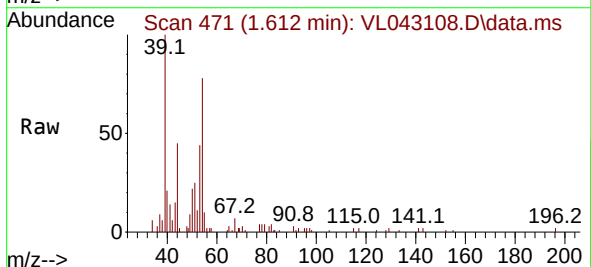
Tgt Ion: 43 Resp: 793
Ion Ratio Lower Upper
43 100
58 32.0 20.8 31.2

Manual Integrations
APPROVED

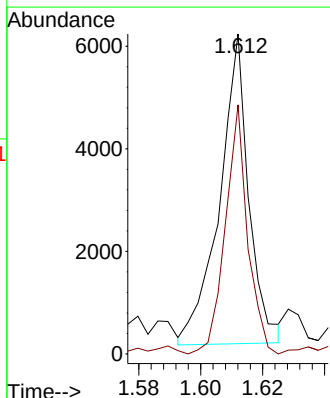
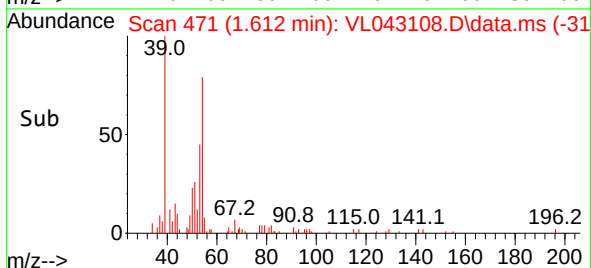
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

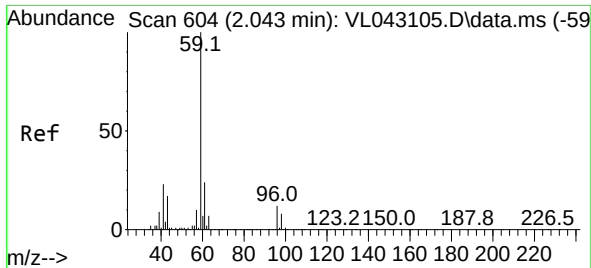


#16
1,3-Butadiene
Concen: 0.607 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 39 Resp: 3962
Ion Ratio Lower Upper
39 100
54 66.1 59.0 88.4





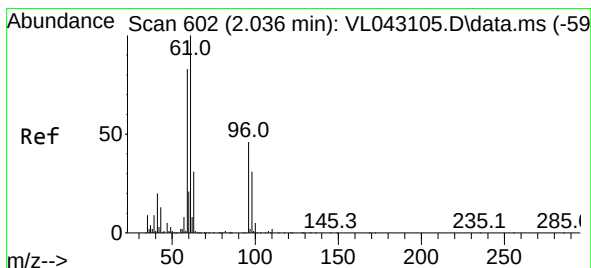
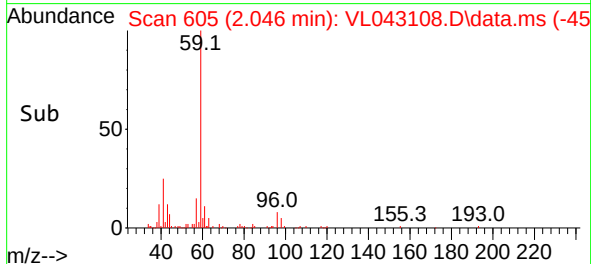
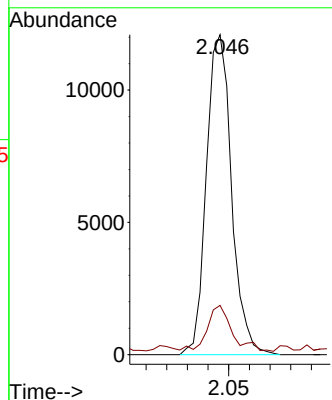
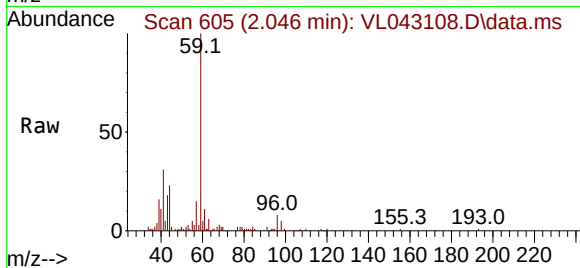
#17
tert-Butyl alcohol
Concen: 0.543 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 1021
Ion Ratio Lower Upper
59 100
57 14.8 8.2 12.4

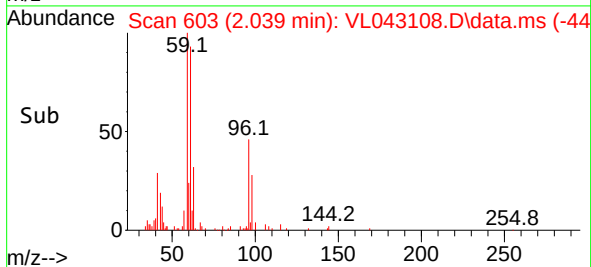
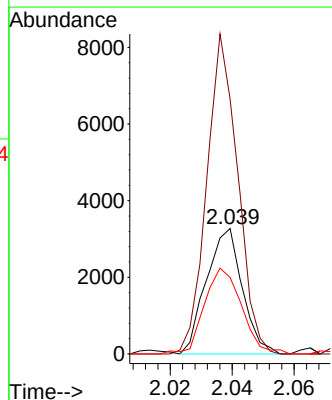
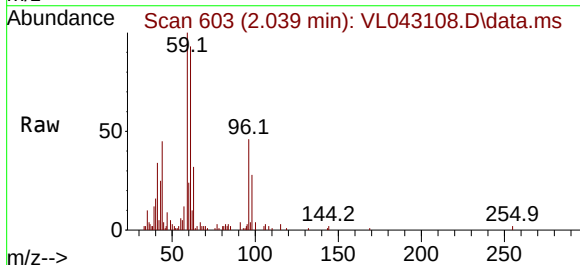
Manual Integrations
APPROVED

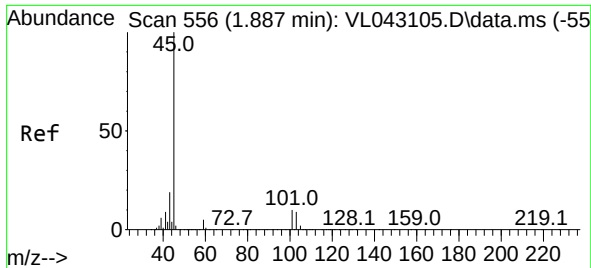
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#18
1,1-Dichloroethene
Concen: 0.531 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

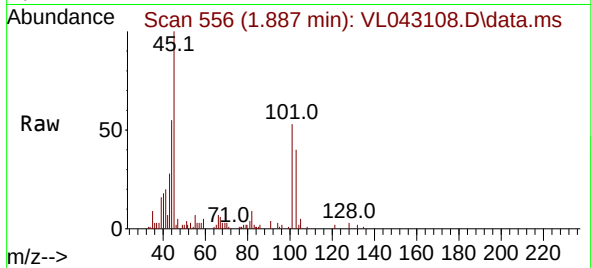
Tgt Ion: 96 Resp: 2636
Ion Ratio Lower Upper
96 100
61 203.1 173.4 260.0
98 59.2 53.2 79.8





#19
Isopropyl Alcohol
Concen: 0.578 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

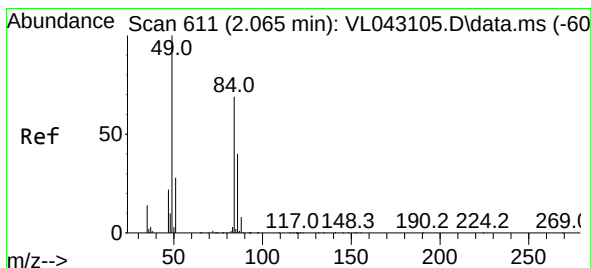
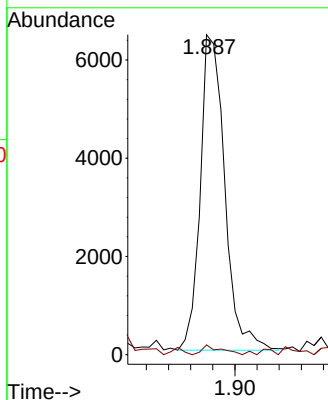
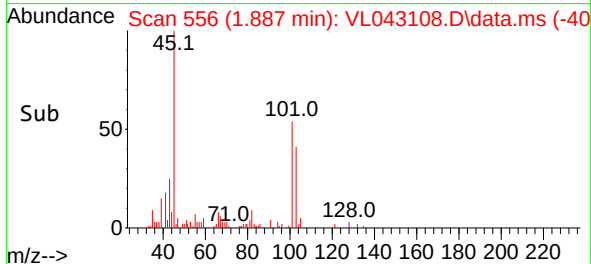
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



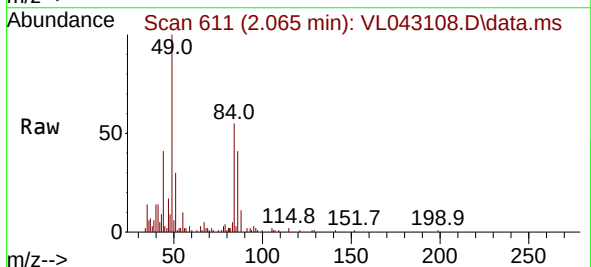
Tgt Ion: 45 Resp: 4932
Ion Ratio Lower Upper
45 100
58 4.1 31.3 46.9

Manual Integrations
APPROVED

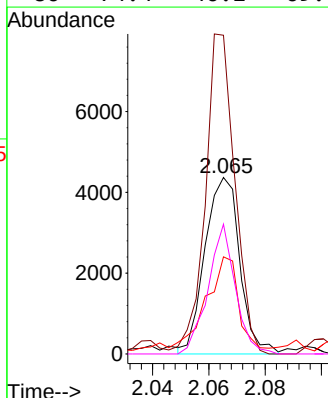
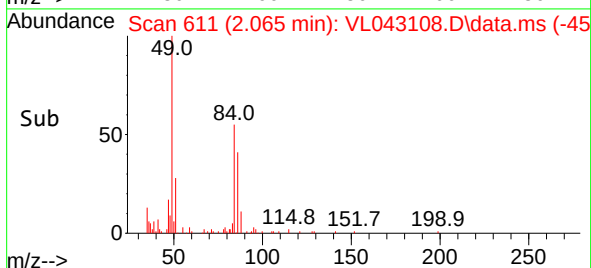
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

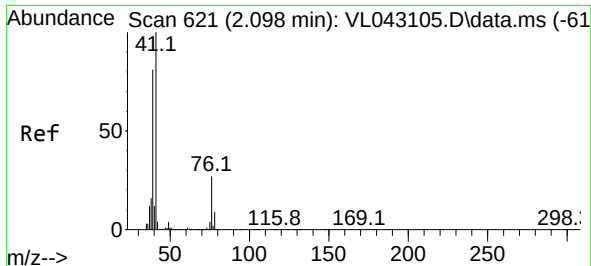


#20
Methylene Chloride
Concen: 0.693 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 84 Resp: 3750
Ion Ratio Lower Upper
84 100
49 182.8 116.6 175.0#
51 51.9 34.8 52.2
86 74.4 46.2 69.4#





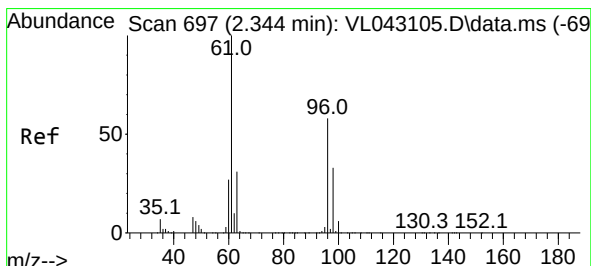
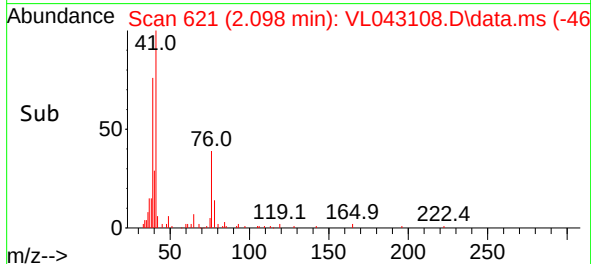
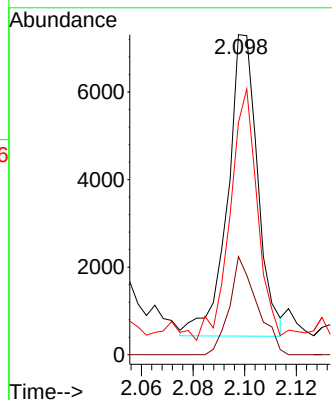
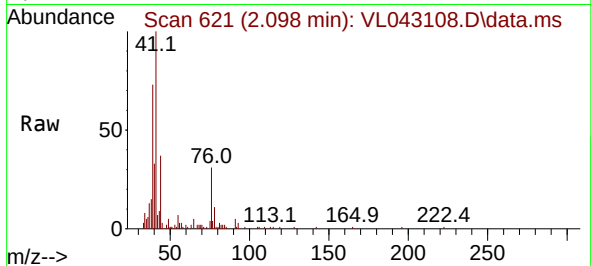
#21
 Allyl Chloride
 Concen: 0.551 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 41 Resp: 557
 Ion Ratio Lower Upper
 41 100
 76 30.0 21.5 32.3
 39 75.1 60.8 91.2

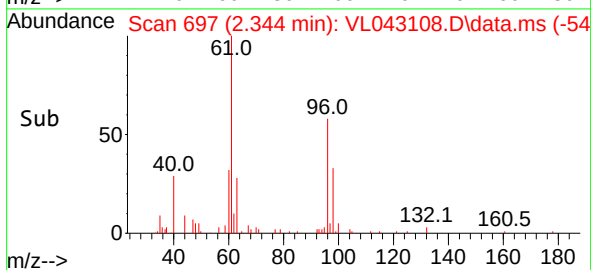
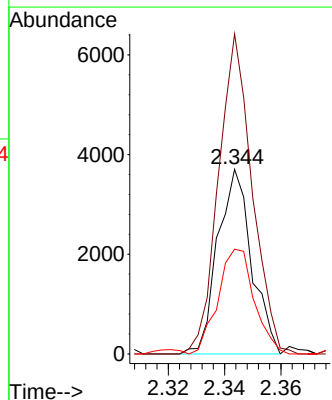
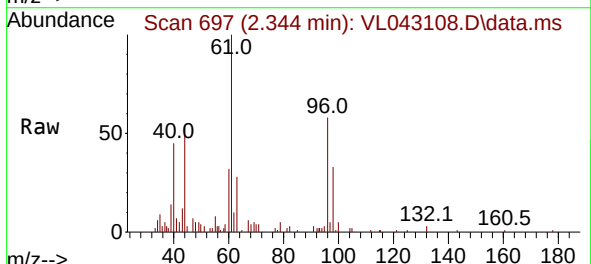
Manual Integrations
 APPROVED

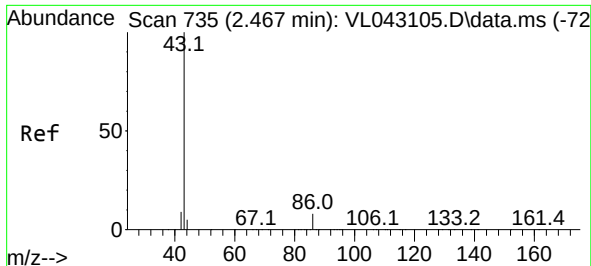
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 0.522 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

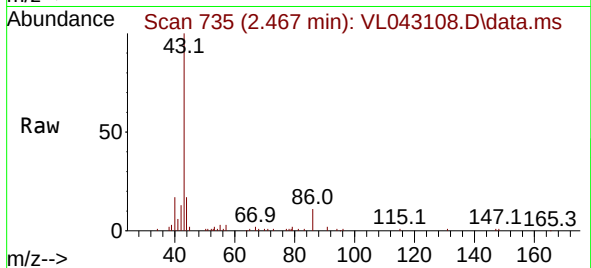
Tgt Ion: 96 Resp: 3093
 Ion Ratio Lower Upper
 96 100
 61 173.3 137.0 205.6
 98 55.0 45.5 68.3





#23
 Vinyl Acetate
 Concen: 0.544 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

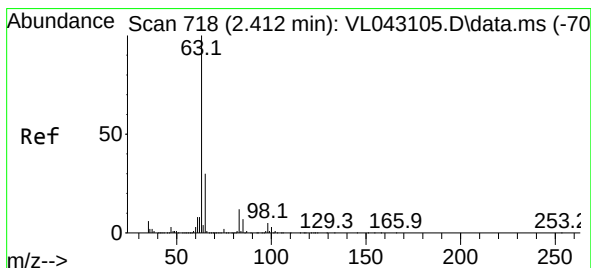
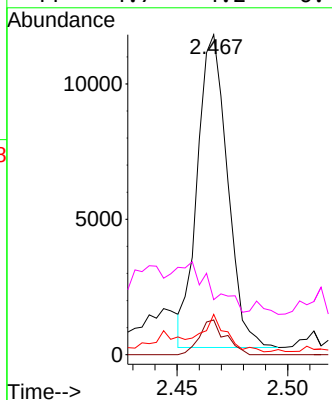
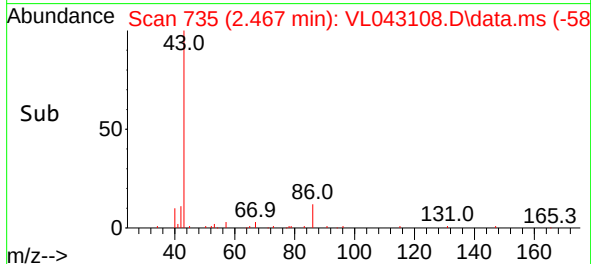
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



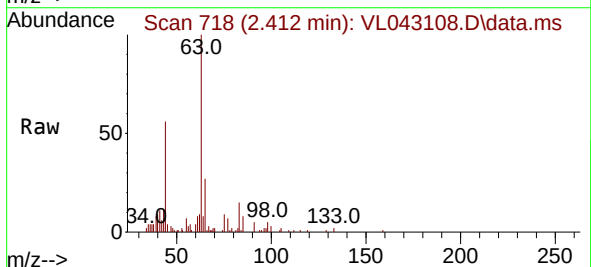
Tgt Ion: 43	Resp: 10914
Ion Ratio	Lower Upper
43 100	
86 11.1	6.2 9.2
42 9.0	7.6 11.4
44 4.7	4.2 6.4

Manual Integrations
 APPROVED

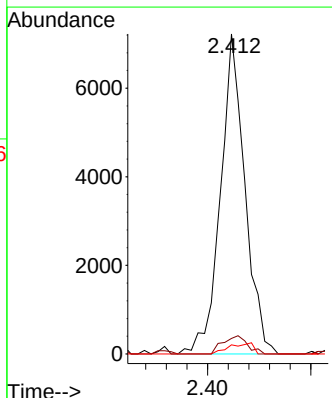
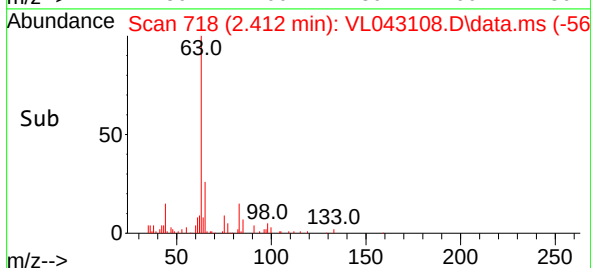
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

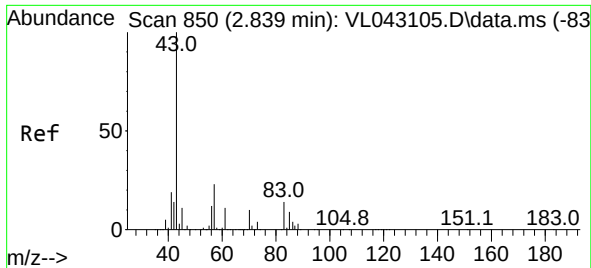


#24
 1,1-Dichloroethane
 Concen: 0.519 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34



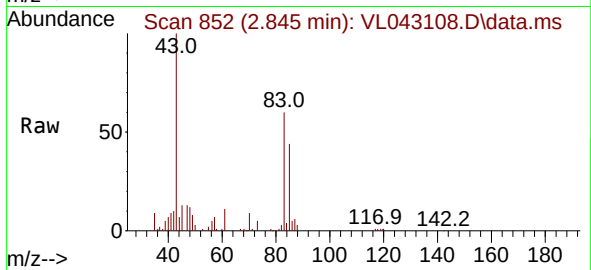
Tgt Ion: 63	Resp: 5942
Ion Ratio	Lower Upper
63 100	
98 4.8	2.6 7.8
100 2.8	1.5 4.4





#25
Ethyl Acetate
Concen: 0.527 ppbv
RT: 2.845 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

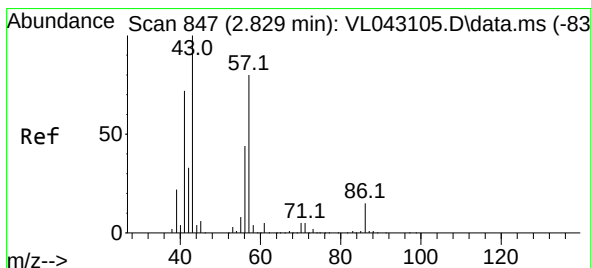
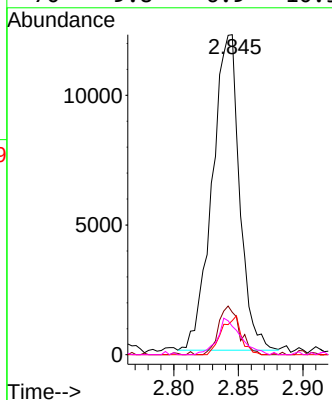
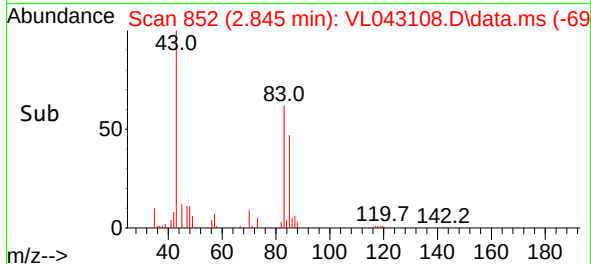
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 43 Resp: 17918
Ion Ratio Lower Upper
43 100
45 12.3 7.8 11.8
61 8.8 7.0 10.6
70 9.8 6.9 10.3

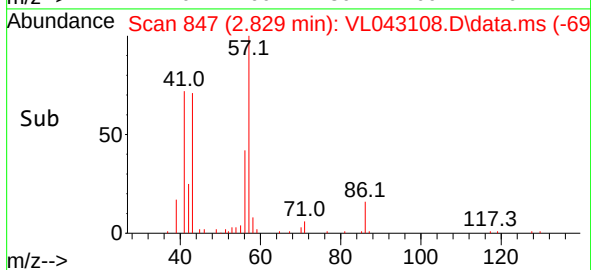
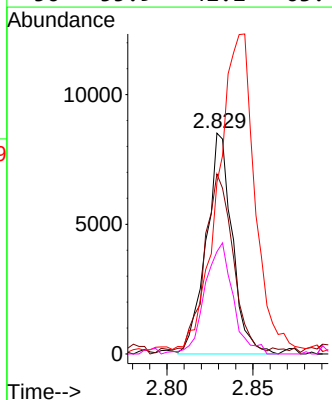
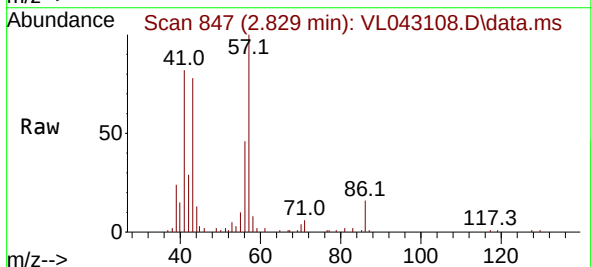
Manual Integrations
APPROVED

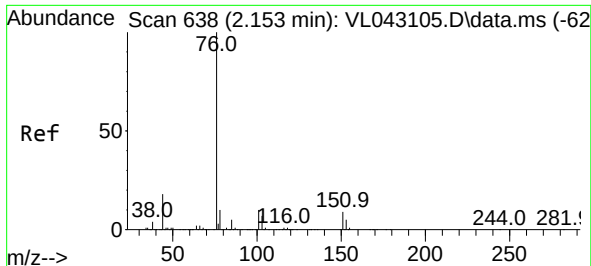
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 0.569 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

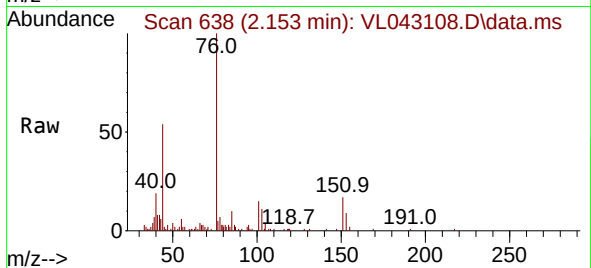
Tgt Ion: 57 Resp: 8908
Ion Ratio Lower Upper
57 100
41 90.3 71.4 107.0
43 211.8 178.5 267.7
56 55.9 42.2 63.4





#27
Carbon Disulfide
Concen: 0.504 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

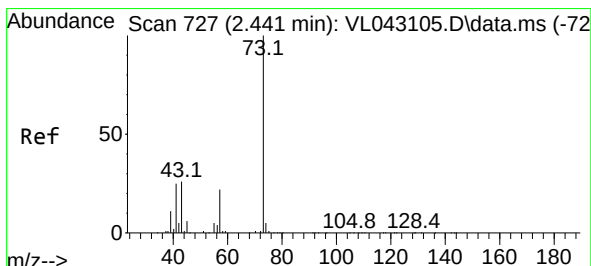
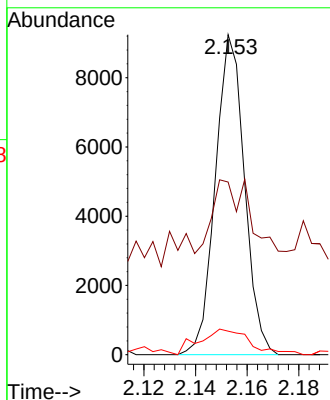
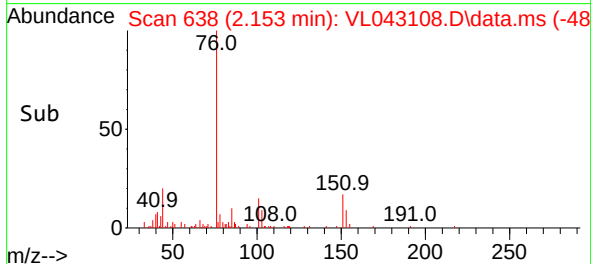
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 76 Resp: 7230
Ion Ratio Lower Upper
76 100
44 120.9 16.7 25.1
78 13.9 9.3 13.9

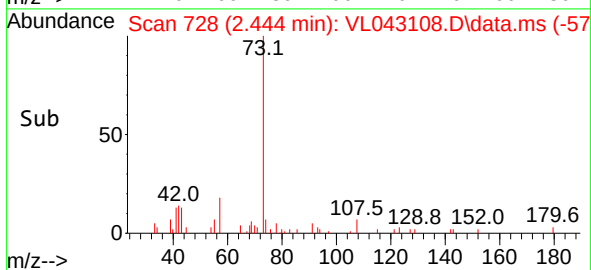
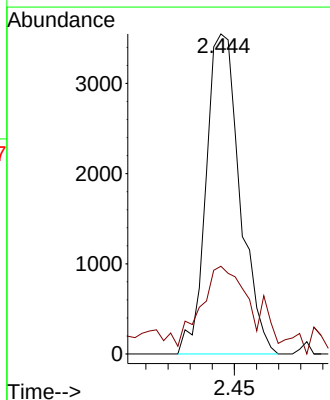
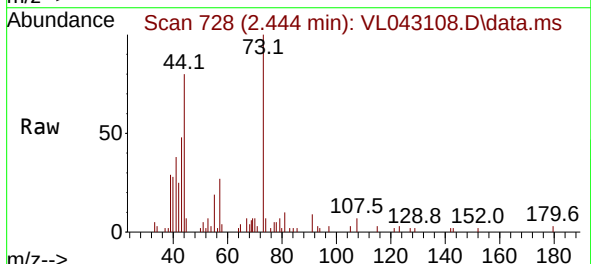
Manual Integrations
APPROVED

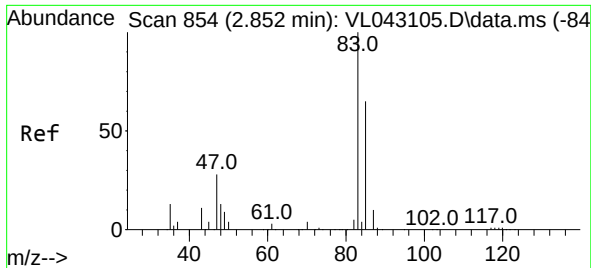
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 0.529 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 73 Resp: 3770
Ion Ratio Lower Upper
73 100
57 52.7 20.5 30.7





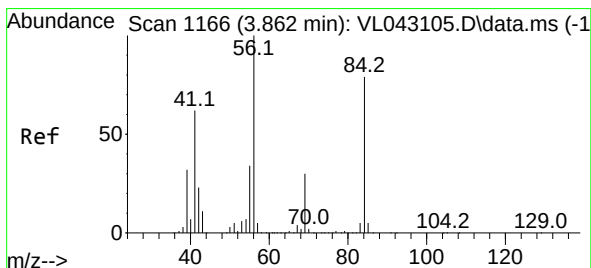
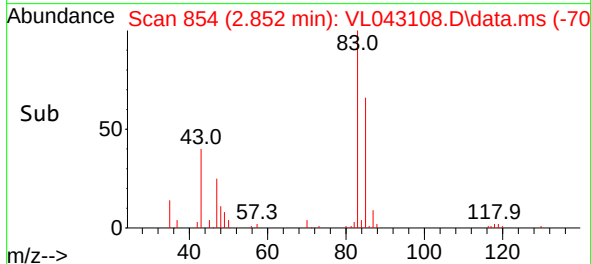
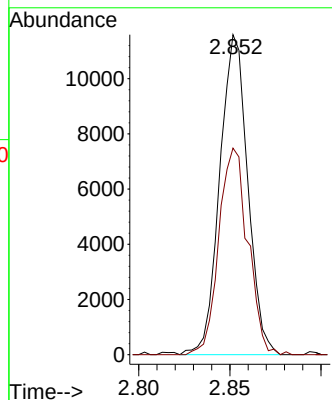
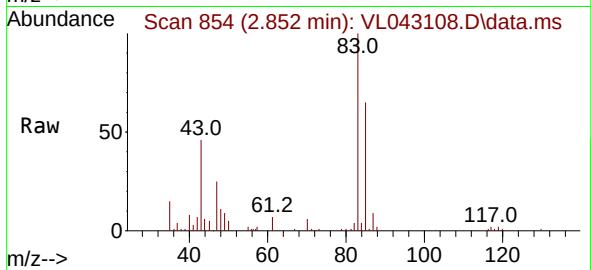
#29
Chloroform
Concen: 0.546 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 12384
Ion Ratio Lower Upper
83 100
85 64.5 51.8 77.6

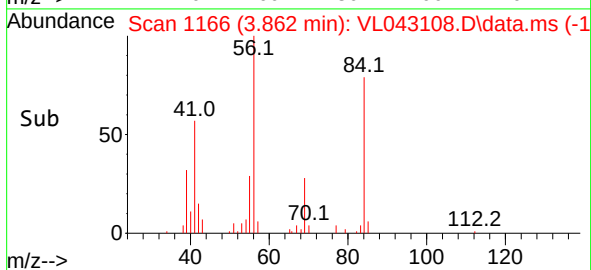
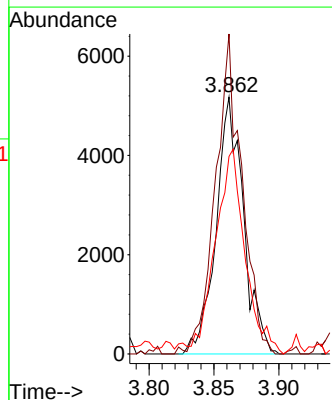
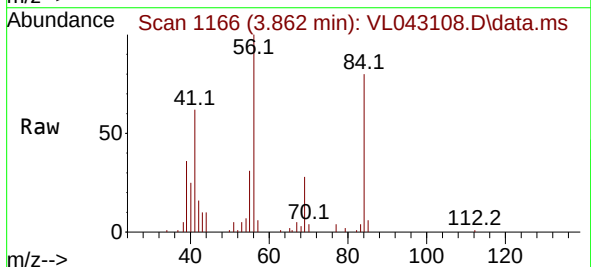
Manual Integrations
APPROVED

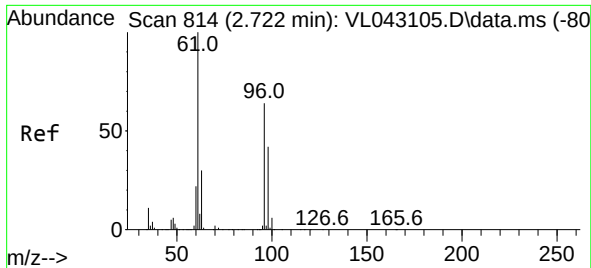
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#30
Cyclohexane
Concen: 0.556 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

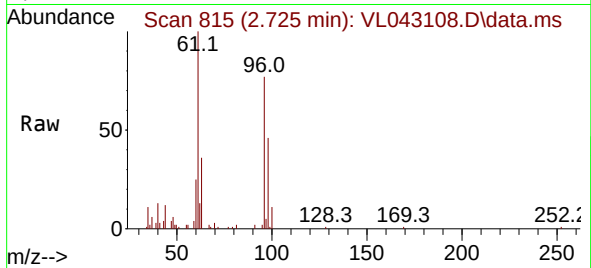
Tgt Ion: 84 Resp: 7586
Ion Ratio Lower Upper
84 100
56 121.2 100.9 151.3
41 91.7 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 0.507 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

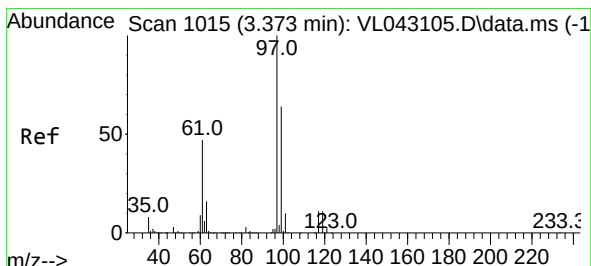
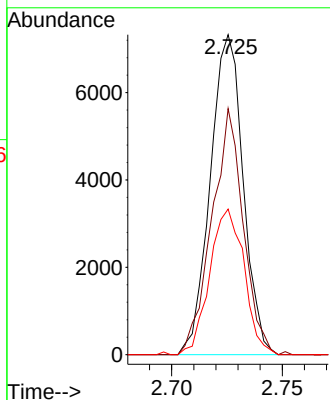
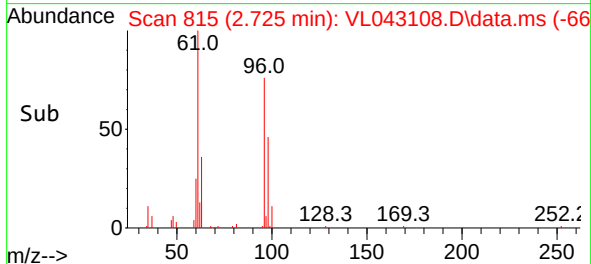
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



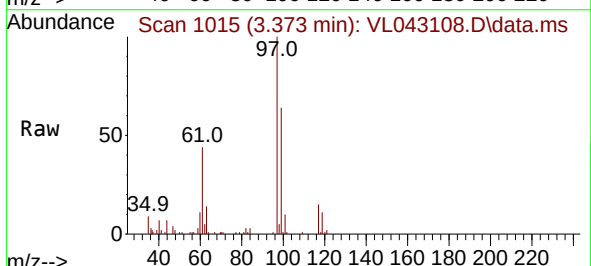
Tgt Ion: 61 Resp: 7570
 Ion Ratio Lower Upper
 61 100
 96 76.9 51.0 76.6
 98 45.5 33.5 50.3

Manual Integrations
 APPROVED

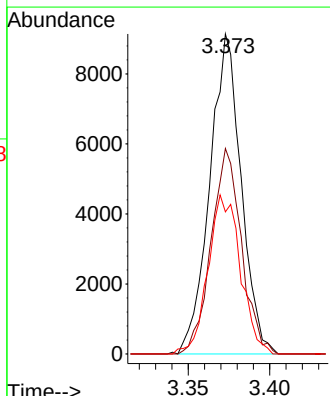
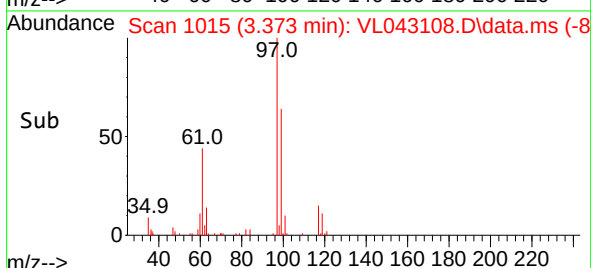
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

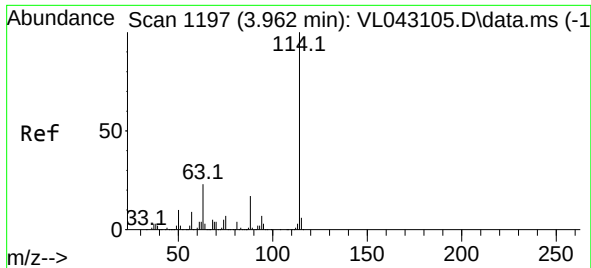


#32
 1,1,1-Trichloroethane
 Concen: 0.518 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34



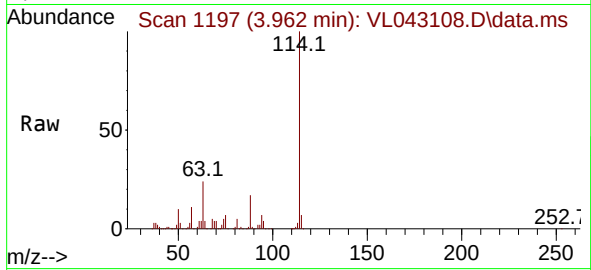
Tgt Ion: 97 Resp: 12234
 Ion Ratio Lower Upper
 97 100
 99 62.0 51.3 76.9
 61 51.2 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

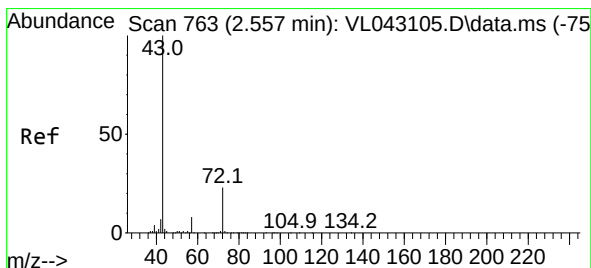
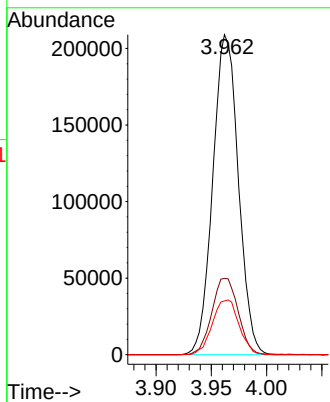
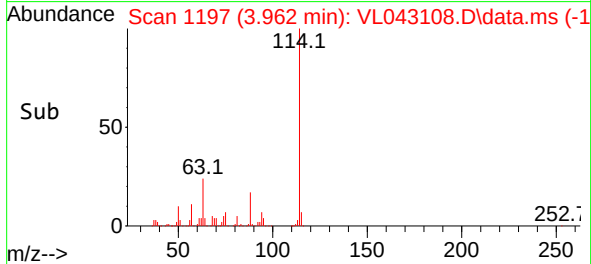
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



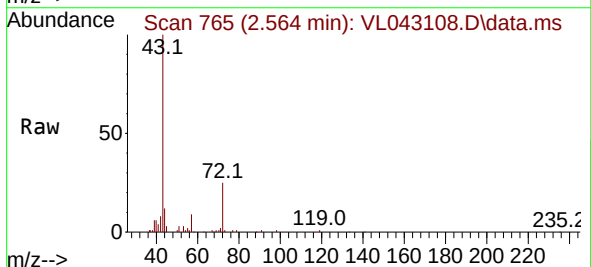
Tgt Ion:114 Resp: 336188
Ion Ratio Lower Upper
114 100
63 24.6 19.3 28.9
88 17.9 13.9 20.9

Manual Integrations
APPROVED

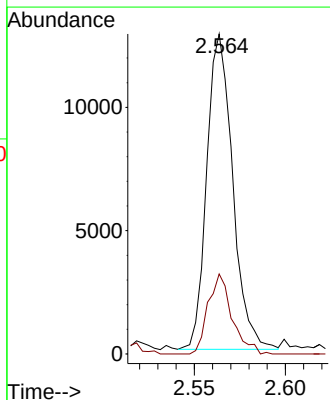
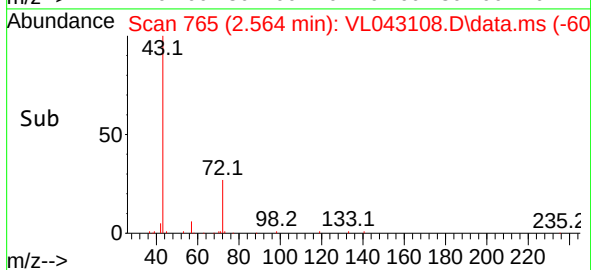
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

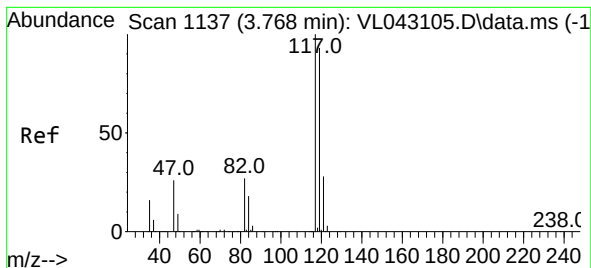


#34
2-Butanone
Concen: 0.557 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 43 Resp: 12659
Ion Ratio Lower Upper
43 100
72 23.4 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.494 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

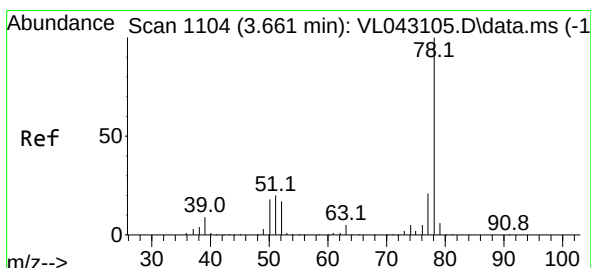
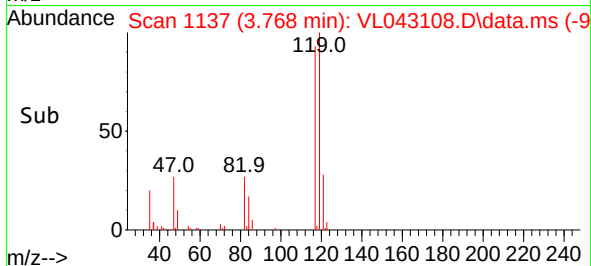
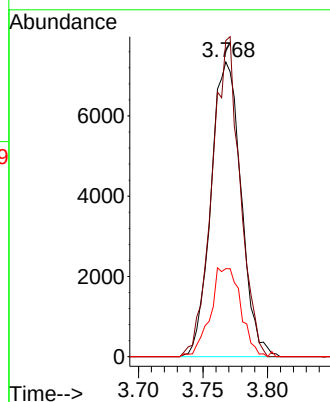
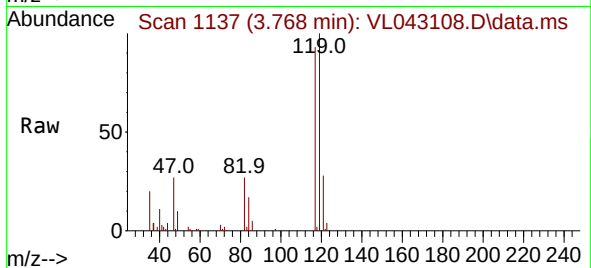
Tgt Ion:	117	Resp:	1193
Ion Ratio	Lower	Upper	
117	100		
119	107.3	74.1	111.1
121	29.9	22.2	33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#36

Benzene

Concen: 0.517 ppbv

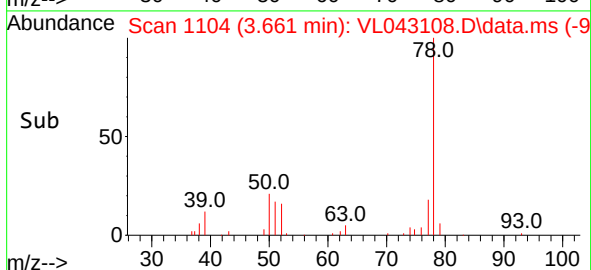
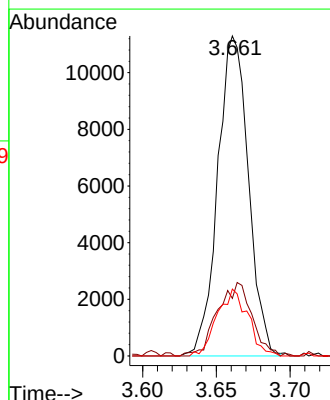
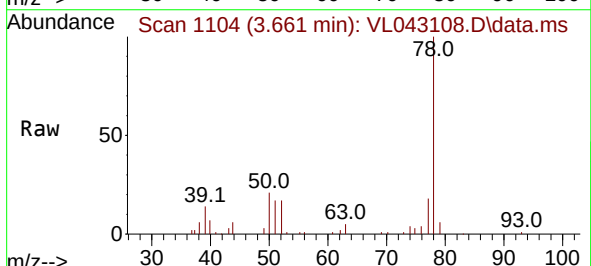
RT: 3.661 min Scan# 1104

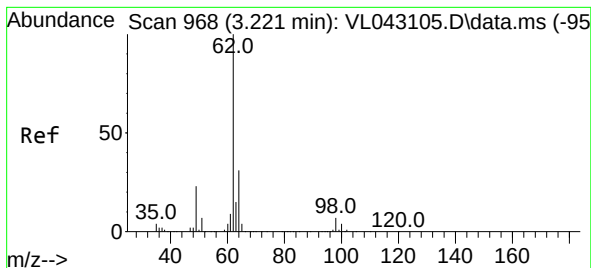
Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion:	78	Resp:	16376
Ion Ratio	Lower	Upper	
78	100		
77	18.0	17.0	25.6
50	20.9	14.6	22.0





#37

1,2-Dichloroethane

Concen: 0.543 ppbv

RT: 3.224 min Scan# 90

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 62 Resp: 990

Ion Ratio Lower Upper

62 100

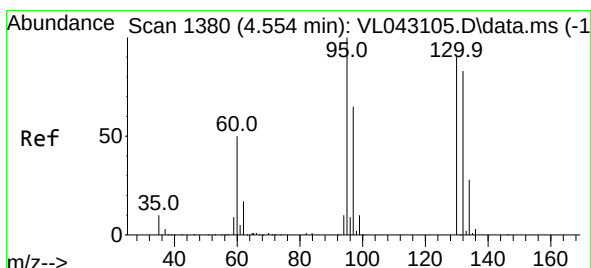
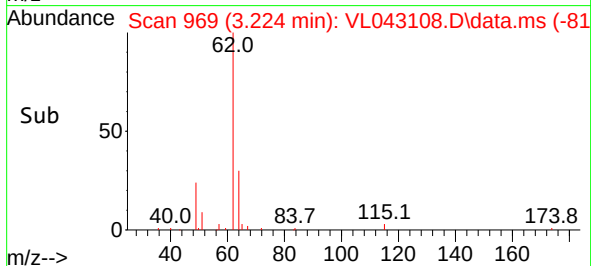
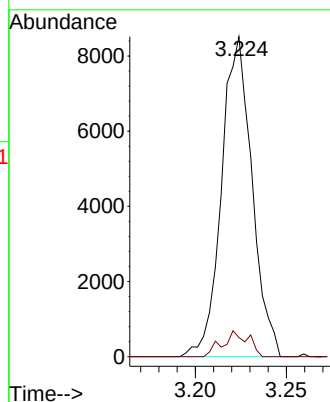
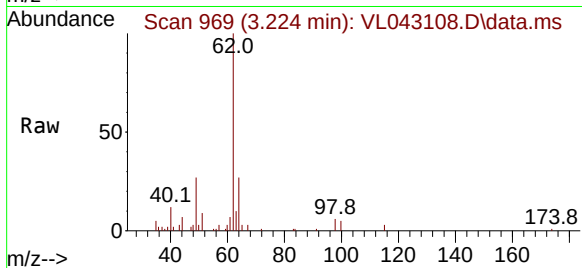
98 6.8 5.8 8.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#38

Trichloroethene

Concen: 0.511 ppbv

RT: 4.554 min Scan# 1380

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion:130 Resp: 6745

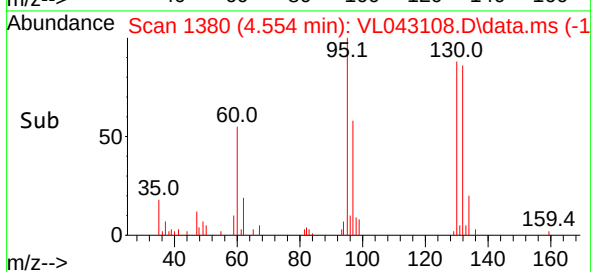
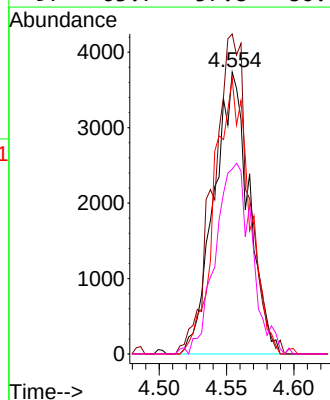
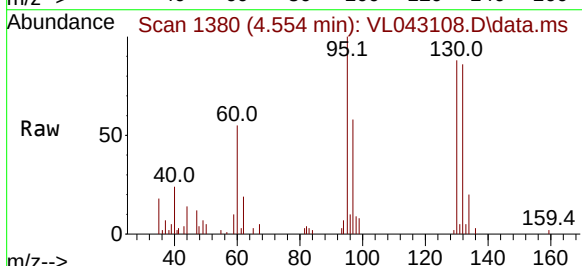
Ion Ratio Lower Upper

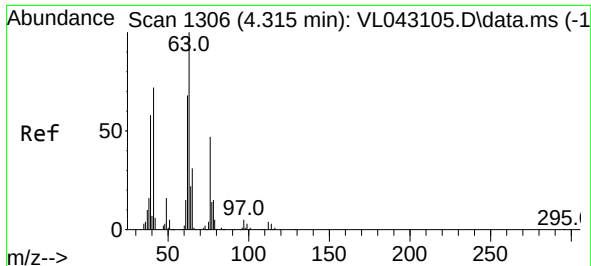
130 100

95 110.7 88.6 133.0

132 97.8 73.4 110.0

97 63.7 57.8 86.6





#39

1,2-Dichloropropane

Concen: 0.521 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

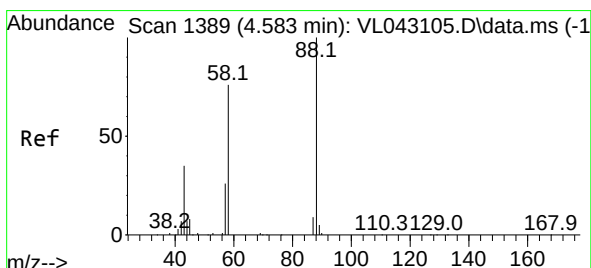
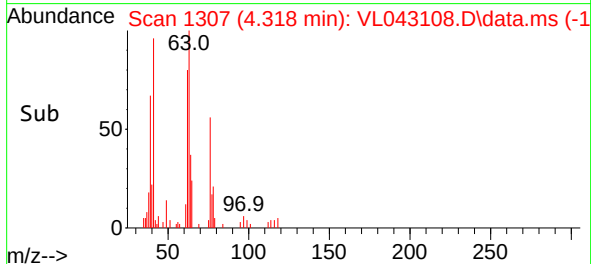
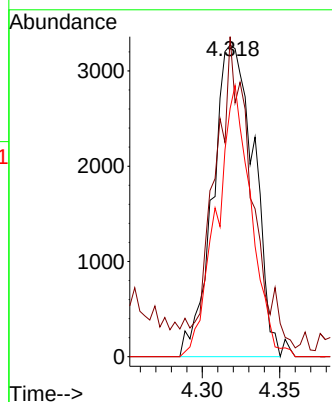
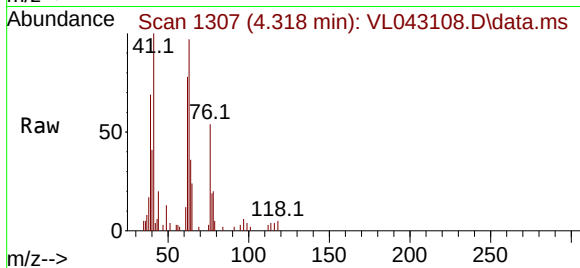
VSTDIC0.5

Tgt Ion: 63	Resp: 603
Ion Ratio	Lower Upper
63	100
41	93.9 58.0 87.0
62	79.6 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 0.539 ppbv m

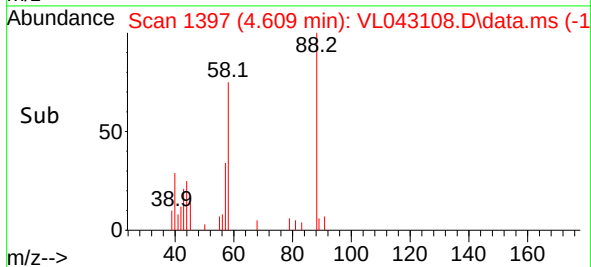
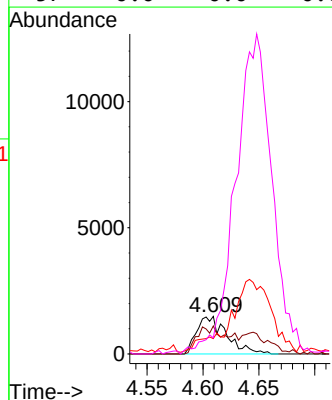
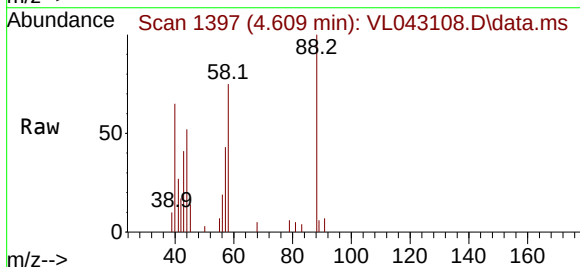
RT: 4.609 min Scan# 1397

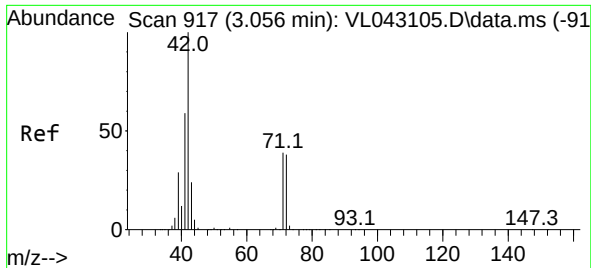
Delta R.T. 0.026 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

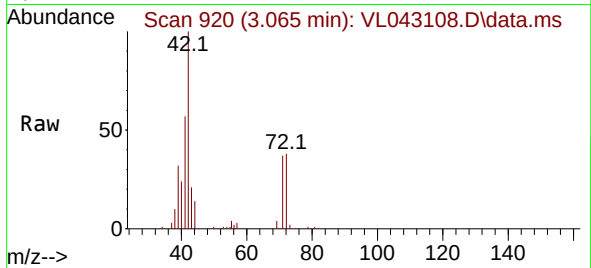
Tgt Ion: 88	Resp: 2794
Ion Ratio	Lower Upper
88	100
58	0.0 61.1 91.7#
43	11.4 24.0 36.0#
57	0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.565 ppbv m
RT: 3.065 min Scan# 917
Delta R.T. 0.009 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

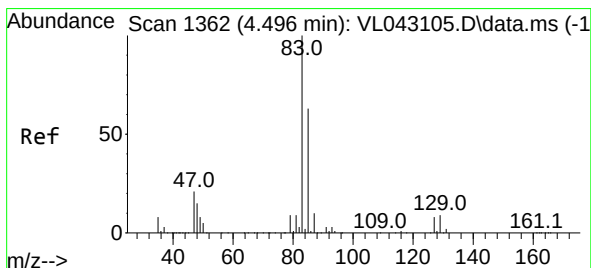
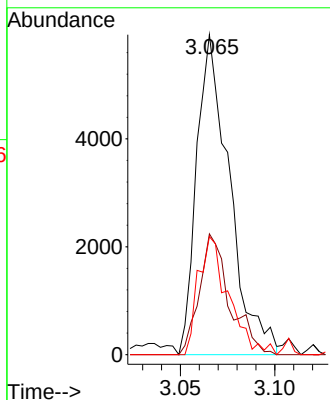
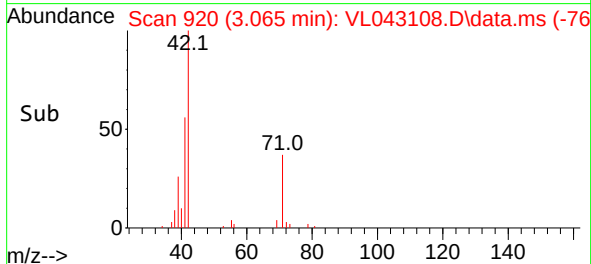
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



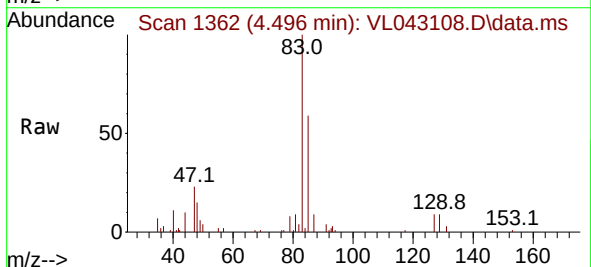
Tgt Ion: 42 Resp: 7174
Ion Ratio Lower Upper
42 100
72 34.8 31.3 46.9
71 35.5 30.4 45.6

Manual Integrations
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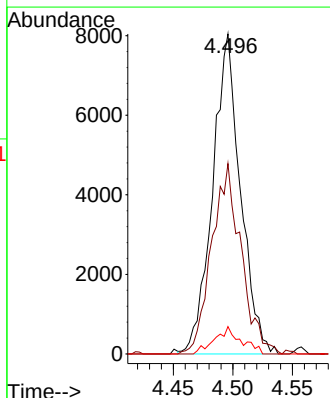
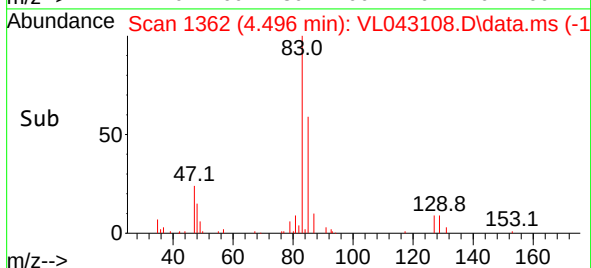
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

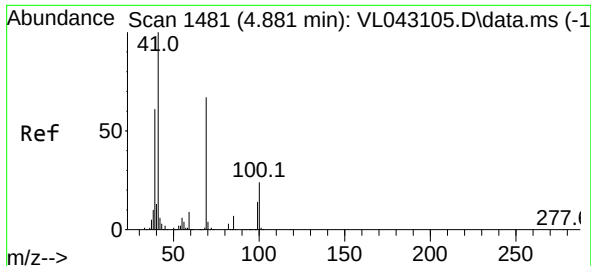


#42
Bromodichloromethane
Concen: 0.519 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 83 Resp: 13094
Ion Ratio Lower Upper
83 100
85 59.5 50.6 75.8
127 8.5 6.3 9.5





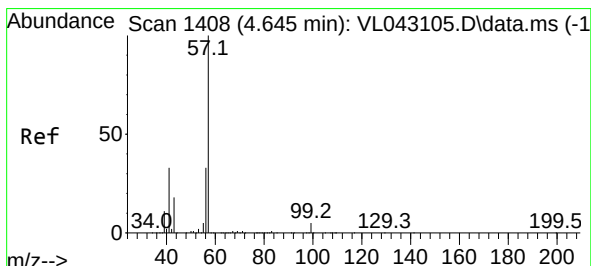
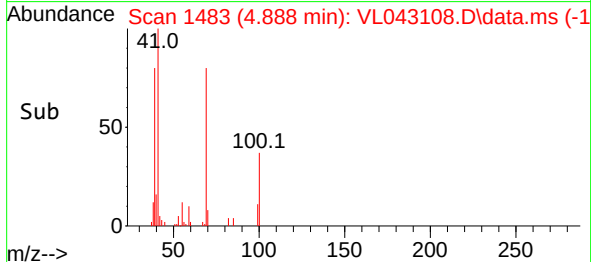
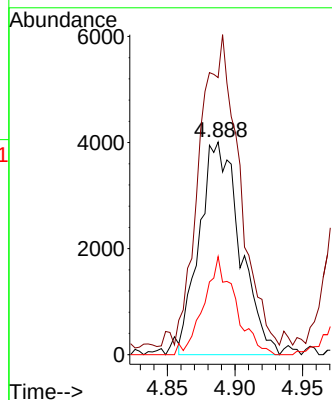
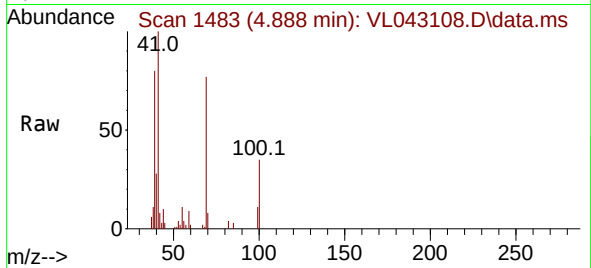
#43
Methyl Methacrylate
Concen: 0.521 ppbv m
RT: 4.888 min Scan# 1481
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 69 Resp: 841
Ion Ratio Lower Upper
69 100
41 0.0 120.5 180.7
100 35.6 29.0 43.4

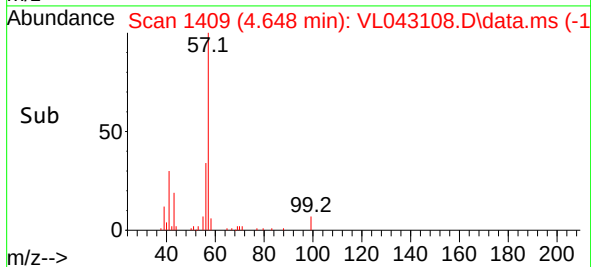
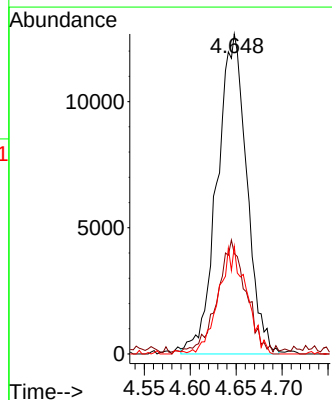
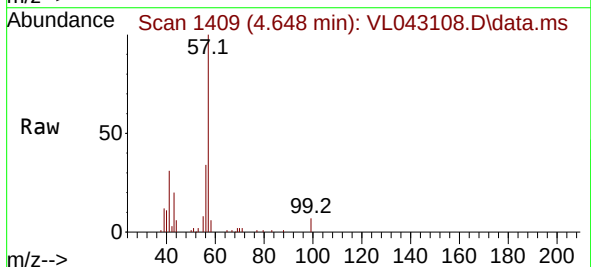
Manual Integrations
APPROVED

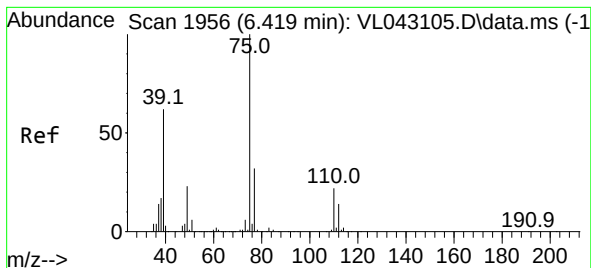
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 0.538 ppbv m
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57 Resp: 28494
Ion Ratio Lower Upper
57 100
41 32.8 26.3 39.5
56 32.0 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 0.498 ppbv

RT: 6.425 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 75 Resp: 8030

Ion Ratio Lower Upper

75 100

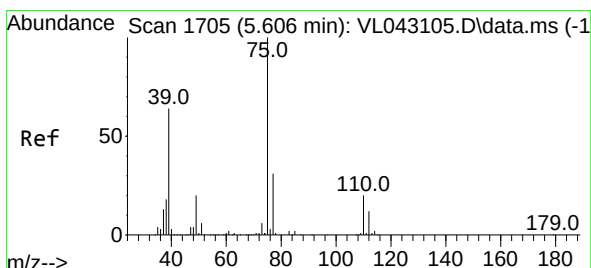
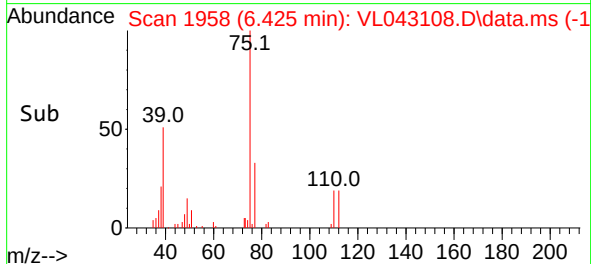
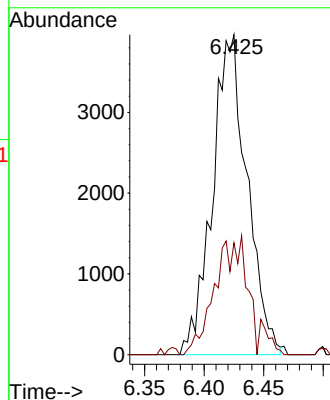
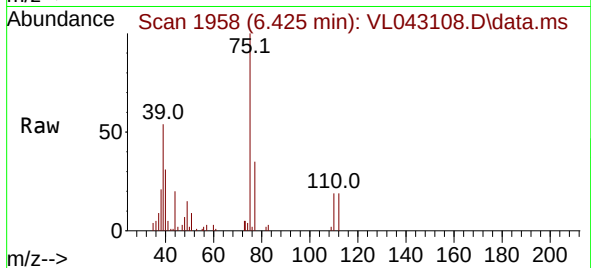
77 34.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

cis-1,3-Dichloropropene

Concen: 0.518 ppbv m

RT: 5.609 min Scan# 1706

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

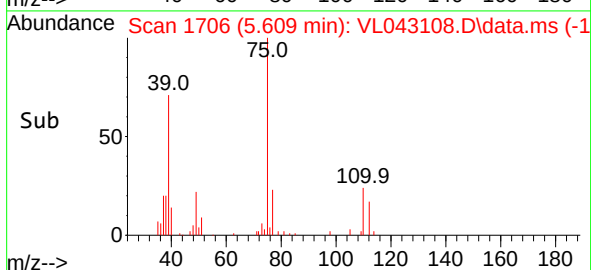
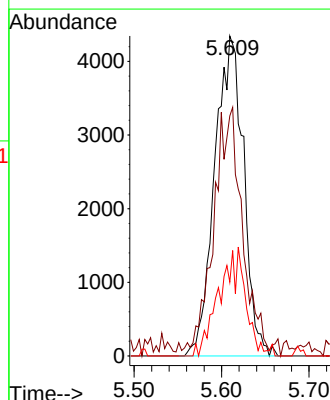
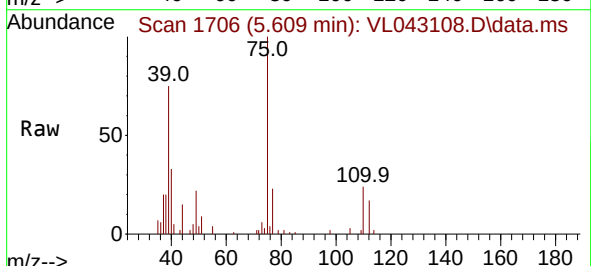
Tgt Ion: 75 Resp: 9973

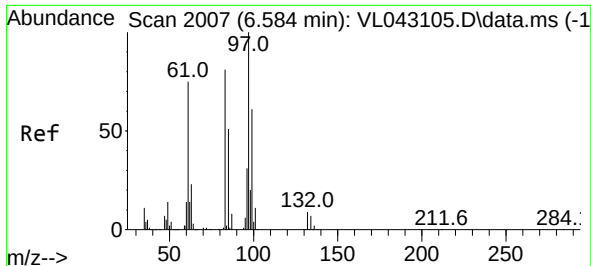
Ion Ratio Lower Upper

75 100

39 75.0 51.0 76.6

77 23.1 25.0 37.4#





#47

1,1,2-Trichloroethane

Concen: 0.560 ppbv

RT: 6.587 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

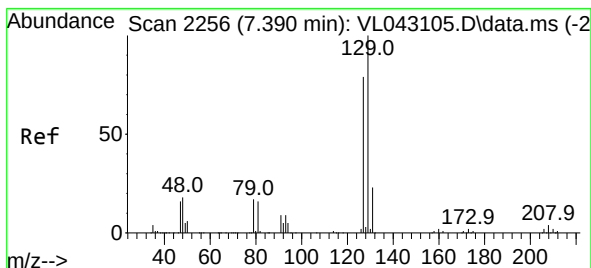
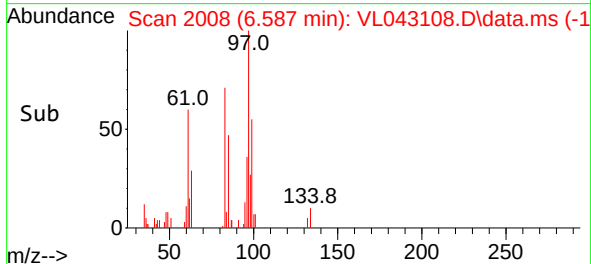
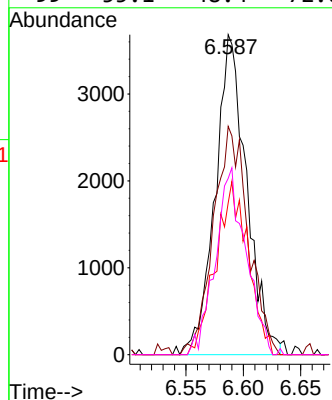
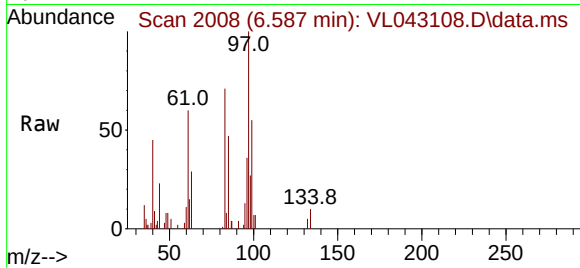
Tgt Ion: 97	Resp: 699
Ion Ratio	Lower Upper
97 100	
83 71.4	64.6 96.8
85 47.5	40.6 60.8
99 55.1	48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 0.498 ppbv

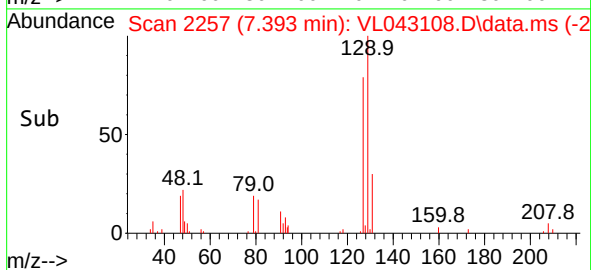
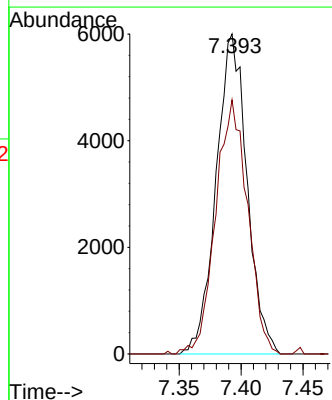
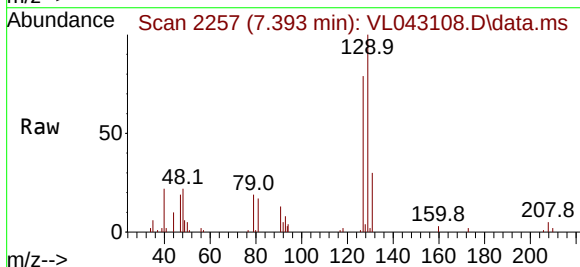
RT: 7.393 min Scan# 2257

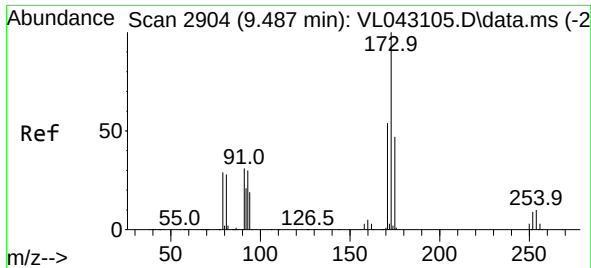
Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt	Ion:129	Resp:	10413
Ion	Ratio	Lower	Upper
129	100		
127	82.2	39.3	117.9





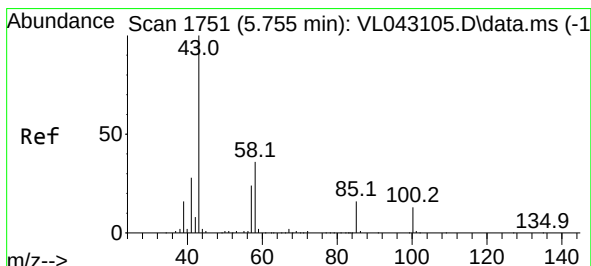
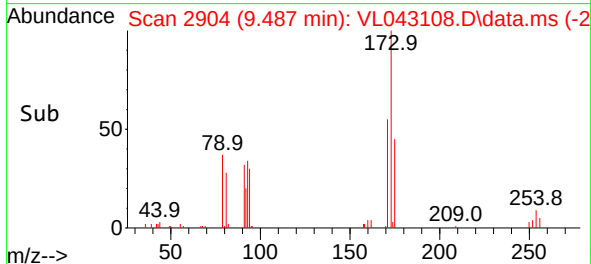
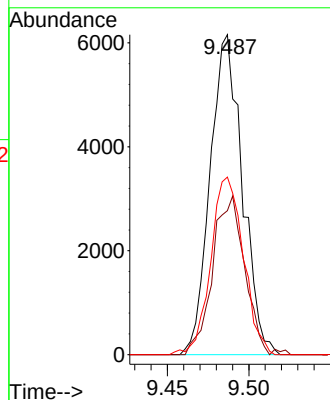
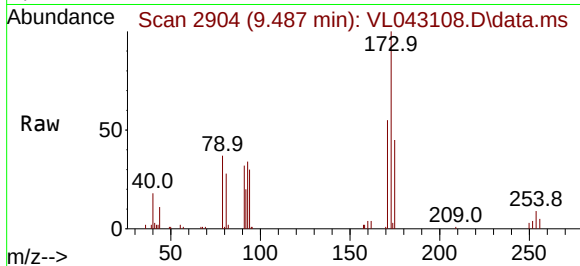
#49
Bromoform
Concen: 0.498 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:173 Resp: 845
Ion Ratio Lower Upper
173 100
175 49.6 38.8 58.2
171 56.3 41.7 62.5

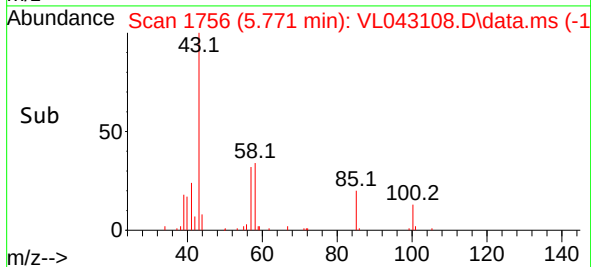
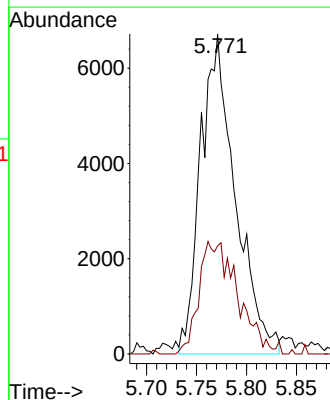
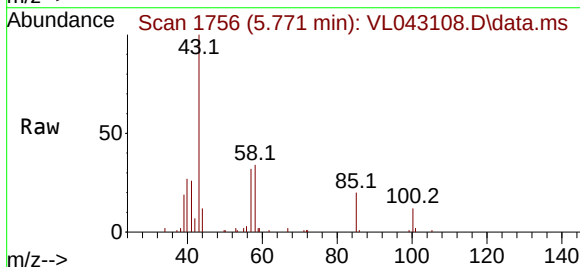
Manual Integrations
APPROVED

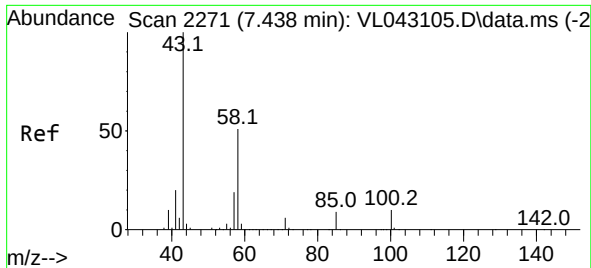
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50
4-Methyl-2-Pentanone
Concen: 0.520 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 16289
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#





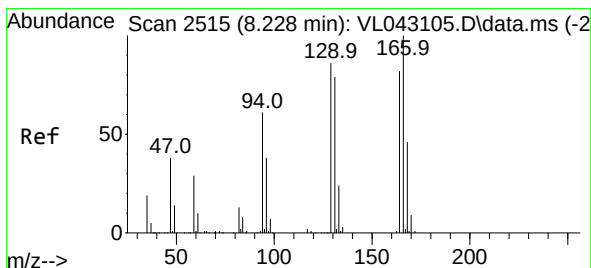
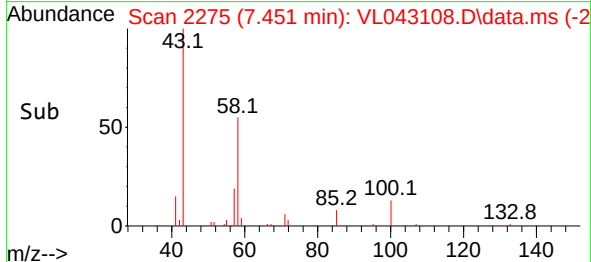
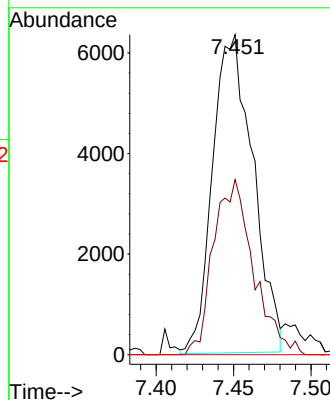
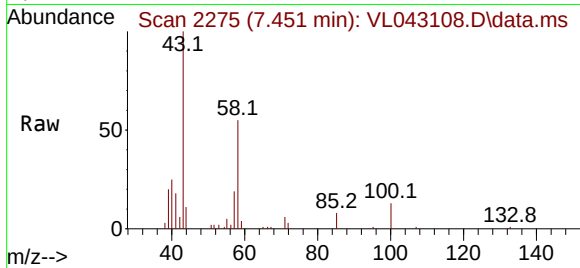
#51
2-Hexanone
Concen: 0.491 ppbv
RT: 7.451 min Scan# 21148
Delta R.T. 0.013 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 1148
Ion Ratio Lower Upper
43 100
58 54.7 40.4 60.6
98 0.0 0.1 0.1

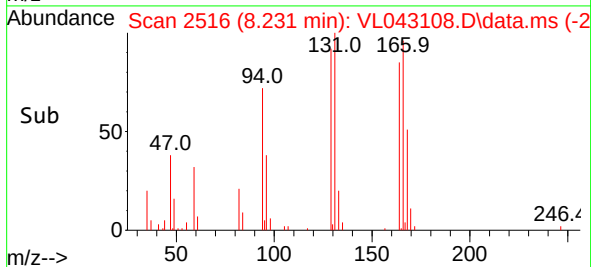
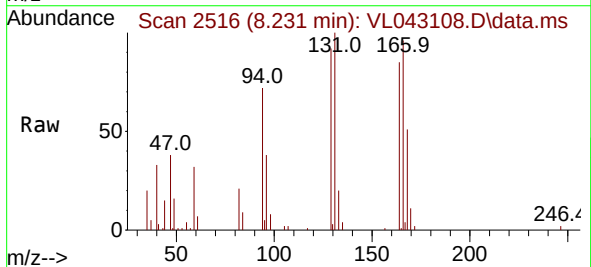
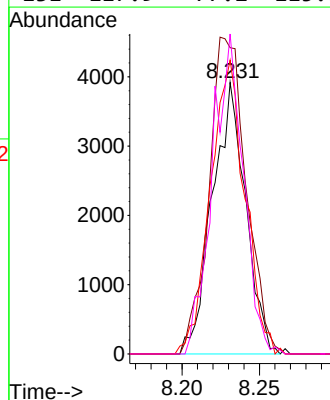
Manual Integrations
APPROVED

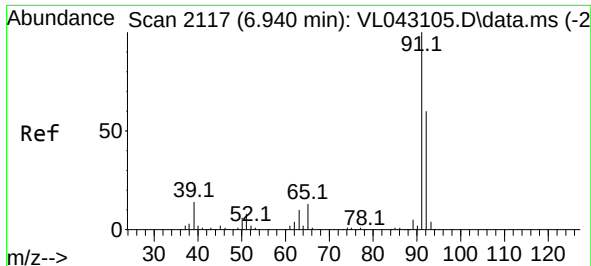
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 0.513 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

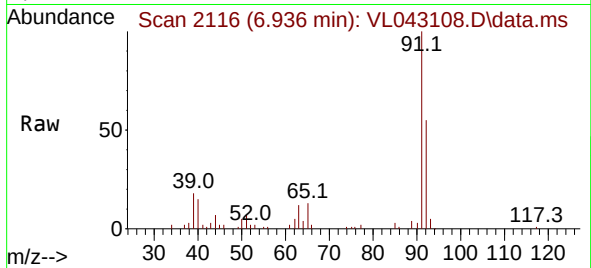
Tgt Ion:164 Resp: 5863
Ion Ratio Lower Upper
164 100
166 112.8 97.6 146.4
129 106.1 84.5 126.7
131 117.9 77.2 115.8#





#53
Toluene
Concen: 0.542 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

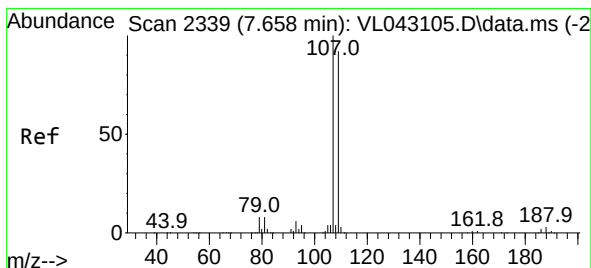
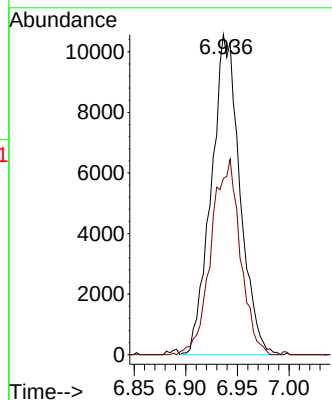
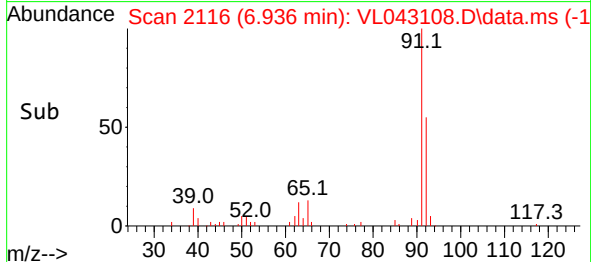
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 91 Resp: 20380
Ion Ratio Lower Upper
91 100
92 62.1 48.8 73.2

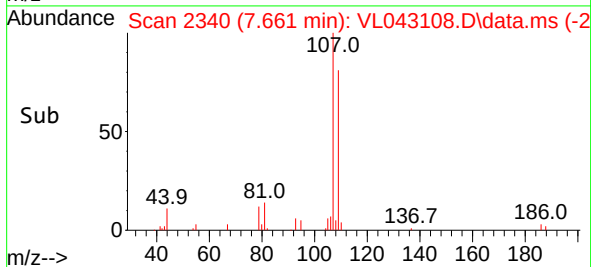
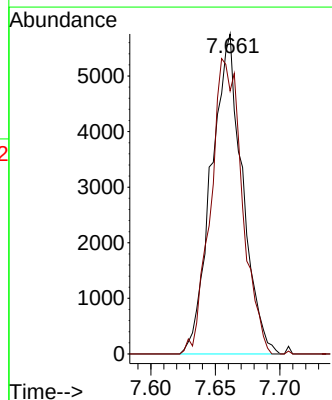
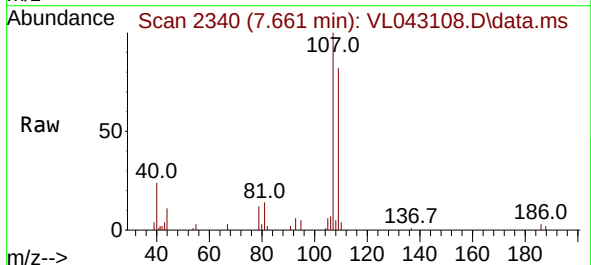
Manual Integrations
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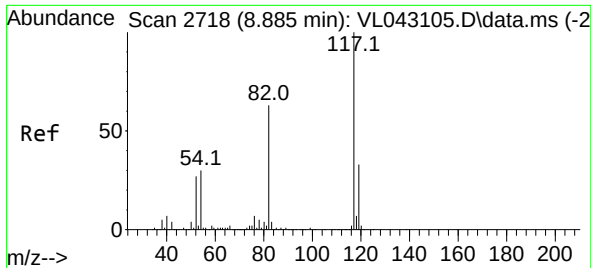
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#54
1,2-Dibromoethane
Concen: 0.486 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

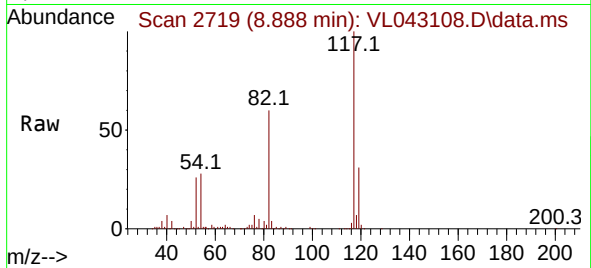
Tgt Ion:107 Resp: 9586
Ion Ratio Lower Upper
107 100
109 82.2 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

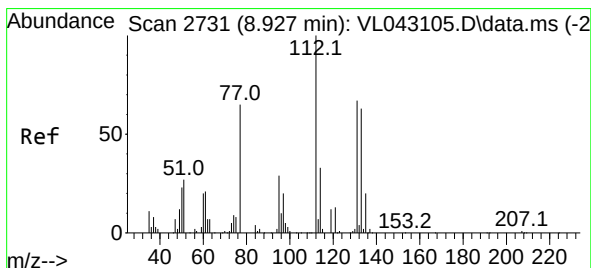
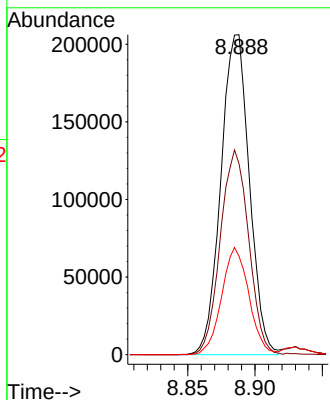
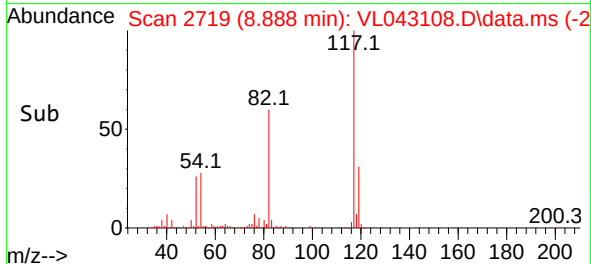
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:117 Resp: 30344
Ion Ratio Lower Upper
117 100
82 63.9 53.8 80.8
119 32.1 25.4 38.0

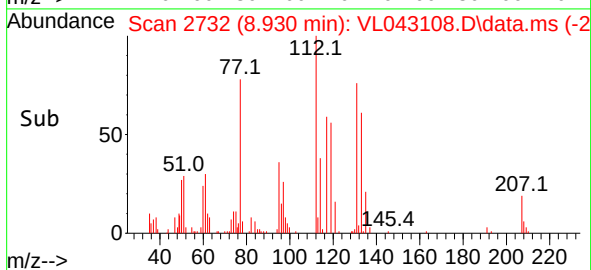
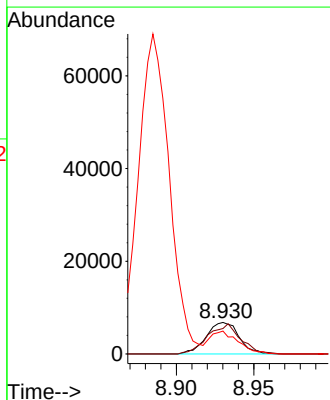
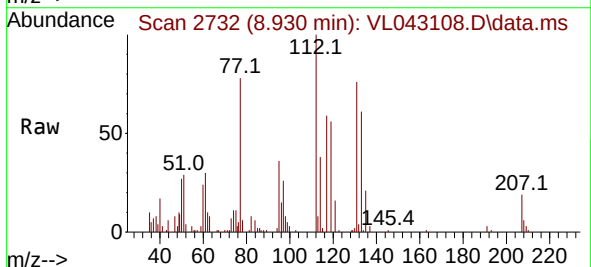
Manual Integrations
APPROVED

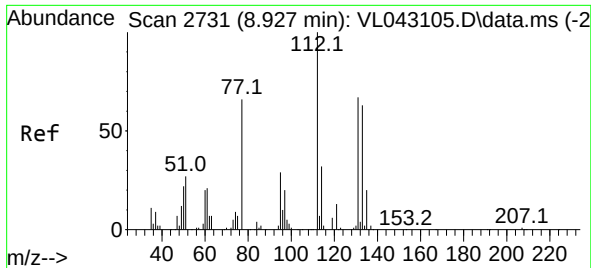
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:131 Resp: 10044
Ion Ratio Lower Upper
131 100
133 94.6 75.7 113.5
119 1032.5 50.6 76.0#





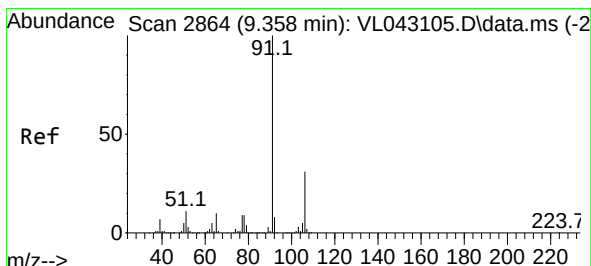
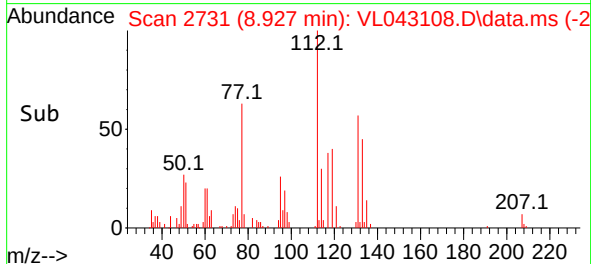
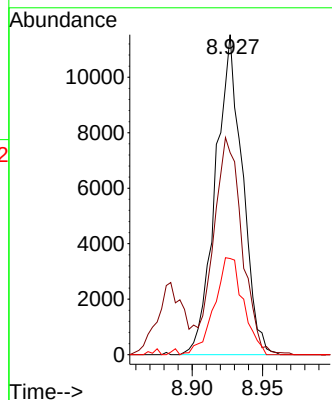
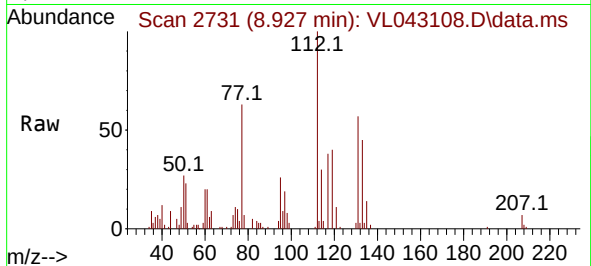
#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 112 Resp: 15318
Ion Ratio Lower Upper
112 100
77 62.5 53.3 79.9
114 30.0 29.3 35.8

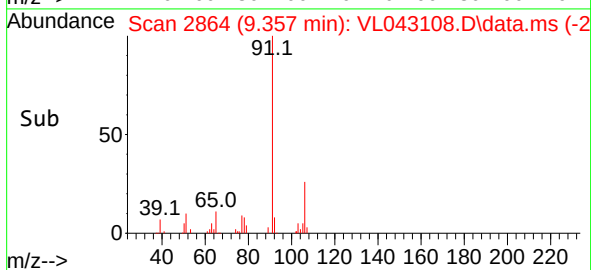
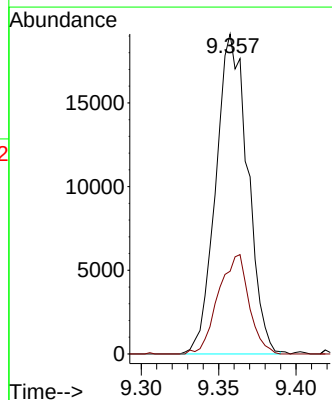
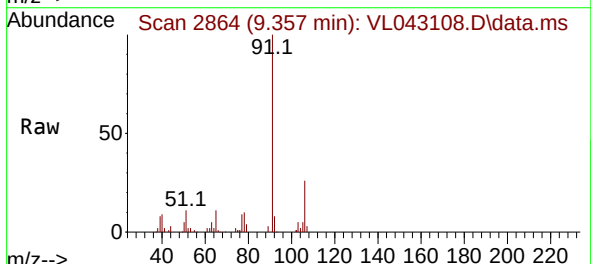
Manual Integrations
APPROVED

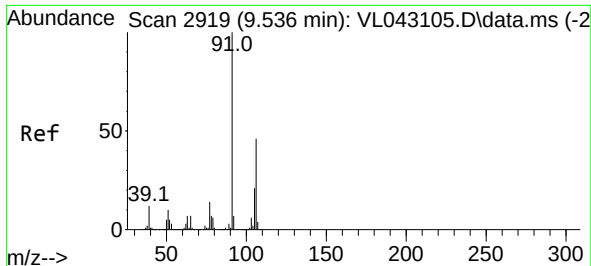
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 27330
Ion Ratio Lower Upper
91 100
106 25.8 24.8 37.2





#59

m/p-Xylene

Concen: 1.068 ppbv m

RT: 9.539 min Scan# 2919

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 4440

Ion Ratio Lower Upper

91 100

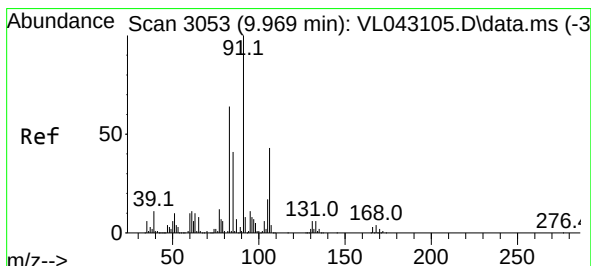
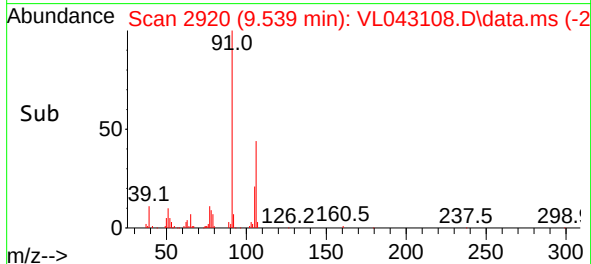
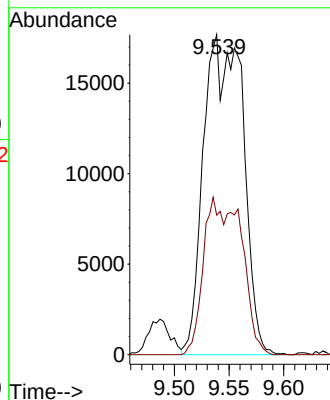
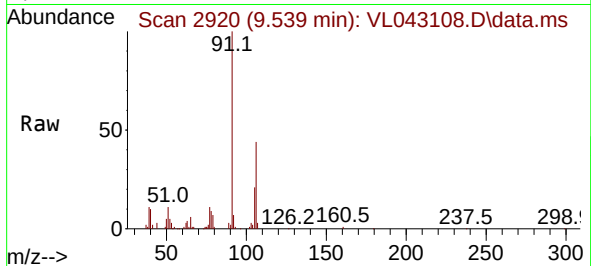
106 47.2 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#60

o-Xylene

Concen: 0.530 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043108.D

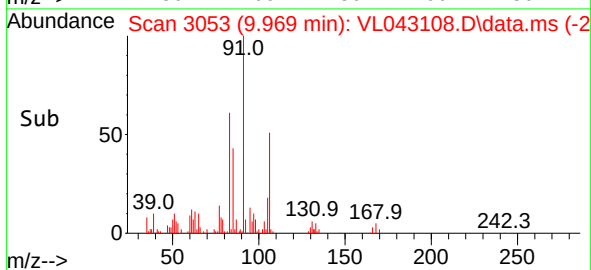
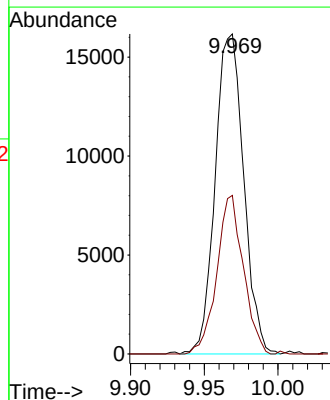
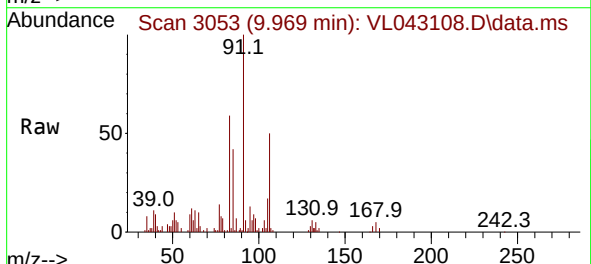
Acq: 14 Oct 2025 12:34

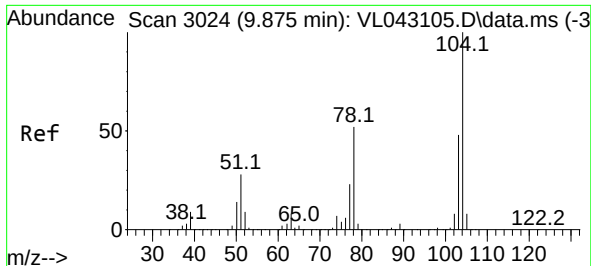
Tgt Ion: 91 Resp: 21745

Ion Ratio Lower Upper

91 100

106 46.2 21.9 65.8





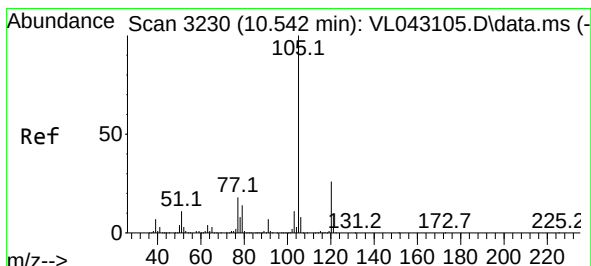
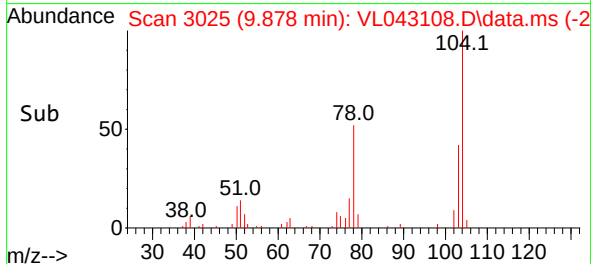
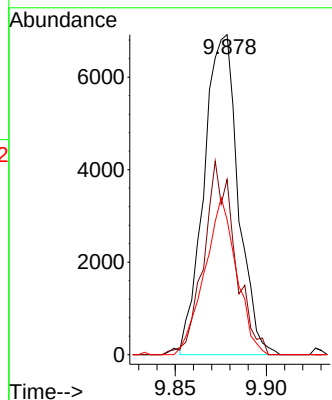
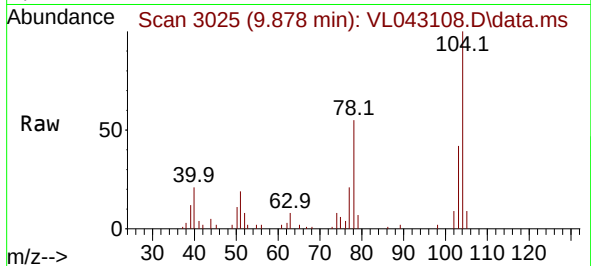
#61
Styrene
Concen: 0.489 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:104 Resp: 9052
Ion Ratio Lower Upper
104 100
78 55.0 40.2 60.2
103 45.6 36.9 55.3

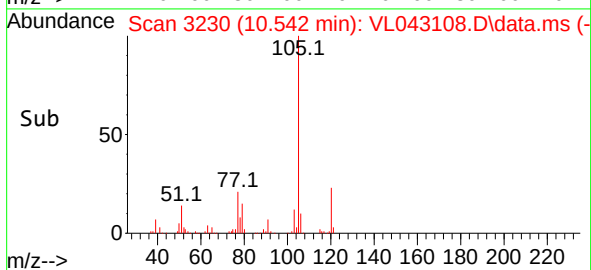
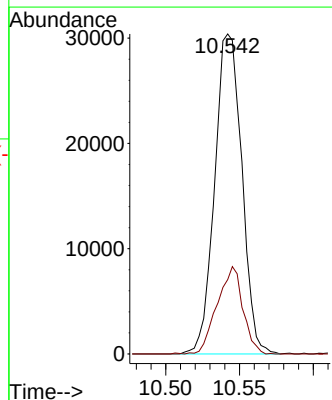
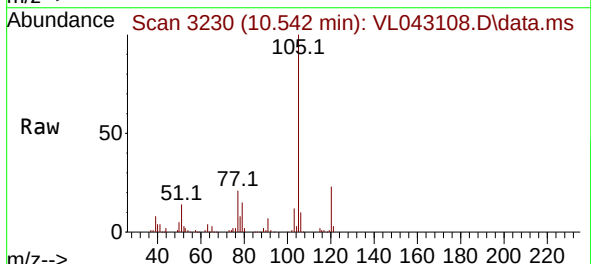
Manual Integrations
APPROVED

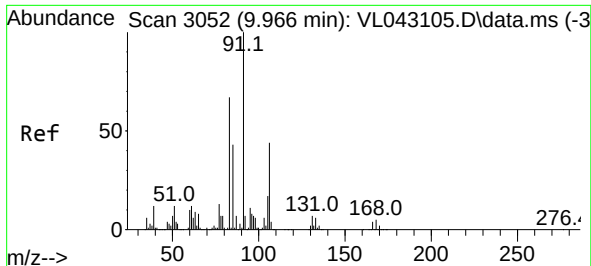
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#62
Isopropylbenzene
Concen: 0.525 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 38899
Ion Ratio Lower Upper
105 100
120 25.8 20.2 30.4





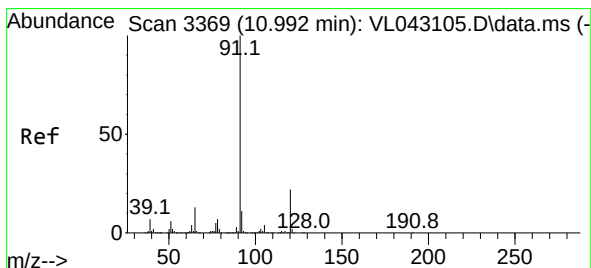
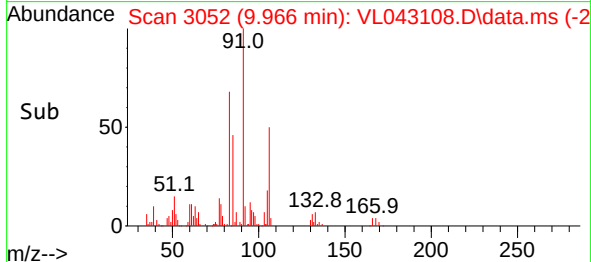
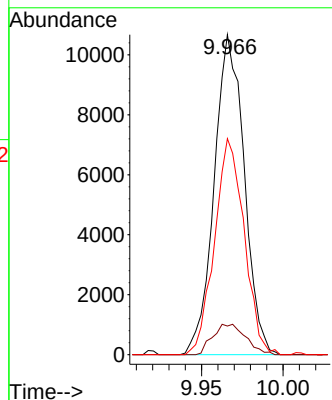
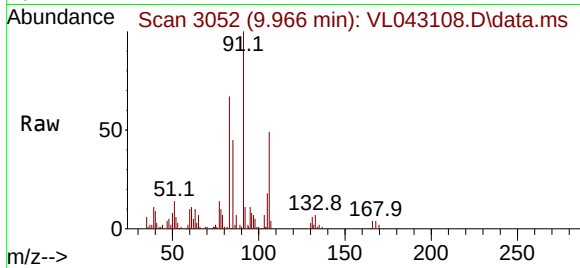
#63
1,1,2,2-Tetrachloroethane
Concen: 0.497 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 1365
Ion Ratio Lower Upper
83 100
131 10.5 4.8 14.3
85 66.7 32.0 96.0

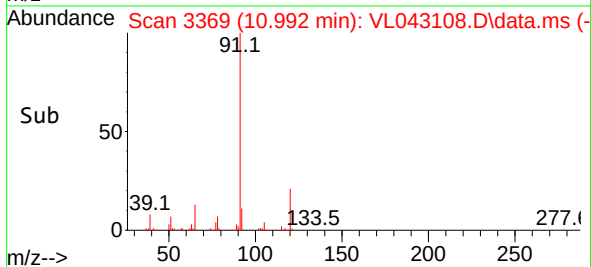
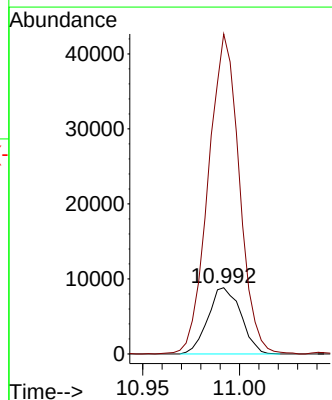
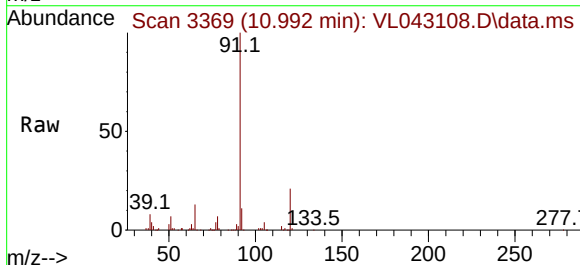
Manual Integrations
APPROVED

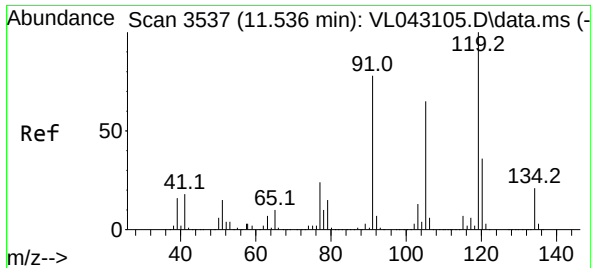
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
n-propylbenzene
Concen: 0.532 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:120 Resp: 10435
Ion Ratio Lower Upper
120 100
91 455.0 361.6 542.4





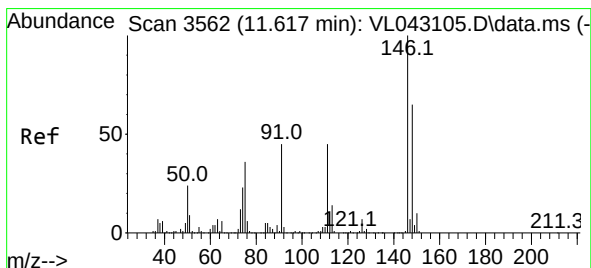
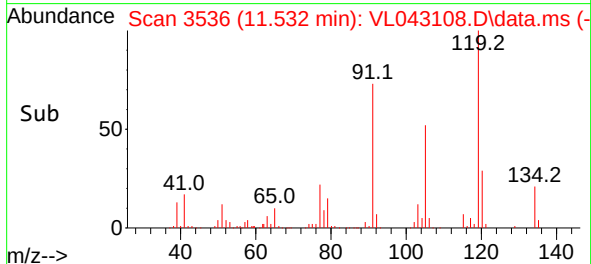
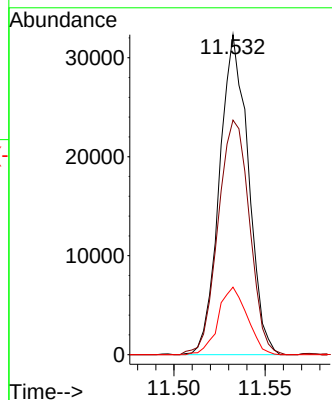
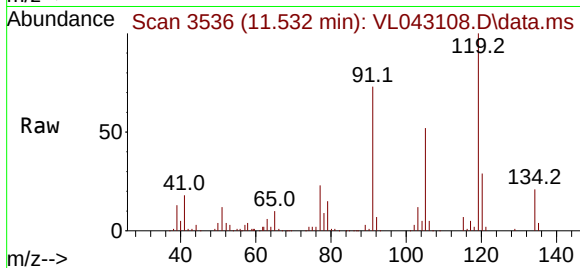
#65
tert-Butylbenzene
Concen: 0.543 ppbv
RT: 11.532 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 3553
Ion Ratio Lower Upper
119 100
91 80.0 63.4 95.0
134 21.2 17.3 25.9

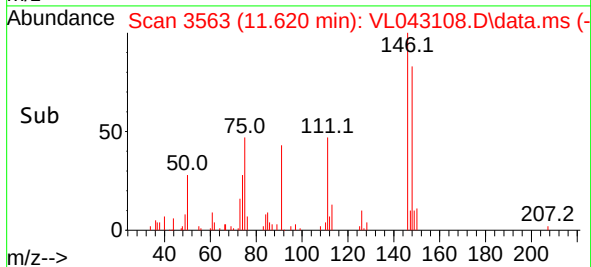
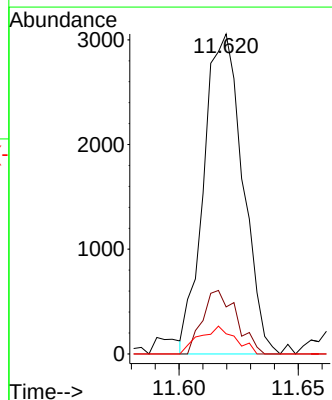
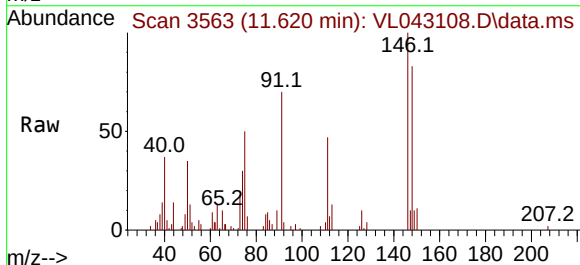
Manual Integrations
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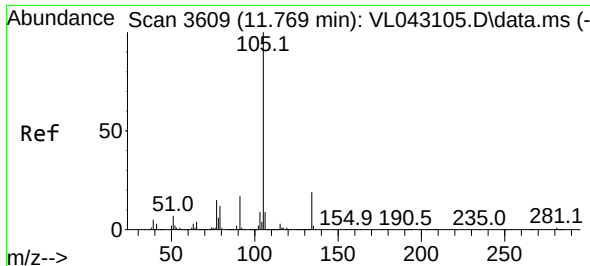
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
Benzyl Chloride
Concen: 0.476 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 3477
Ion Ratio Lower Upper
91 100
126 17.3 14.6 22.0
128 7.9 4.6 6.8





#67

sec-Butylbenzene

Concen: 0.541 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 50259

Ion Ratio Lower Upper

105 100

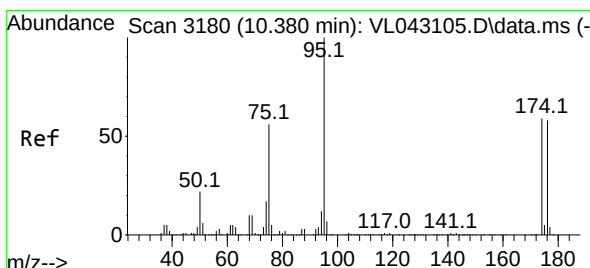
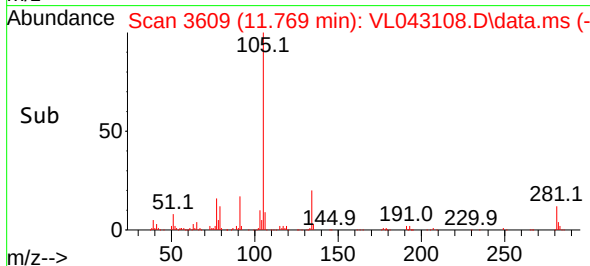
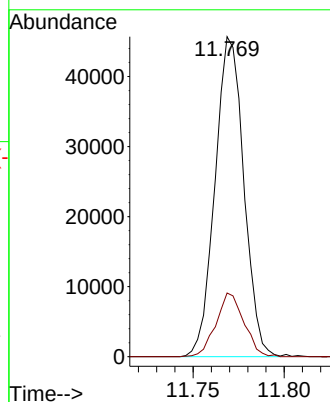
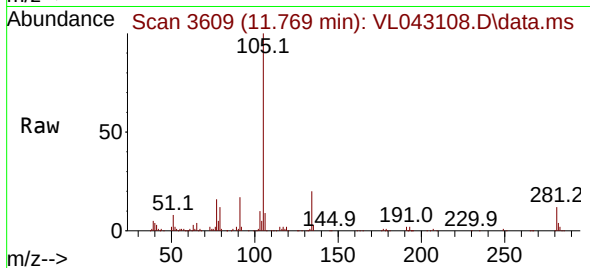
134 19.3 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.875 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

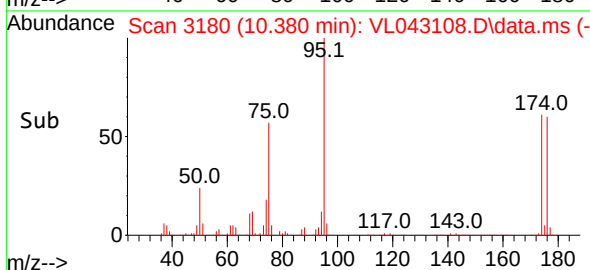
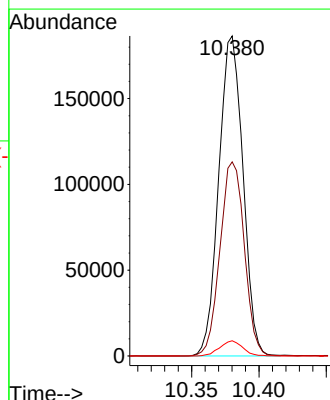
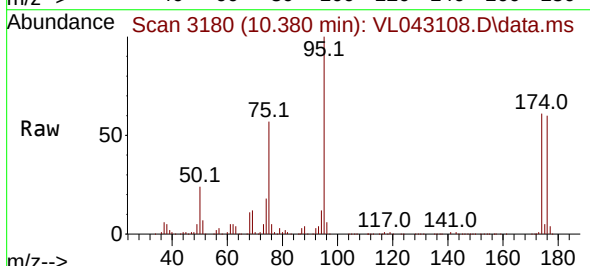
Tgt Ion: 95 Resp: 232904

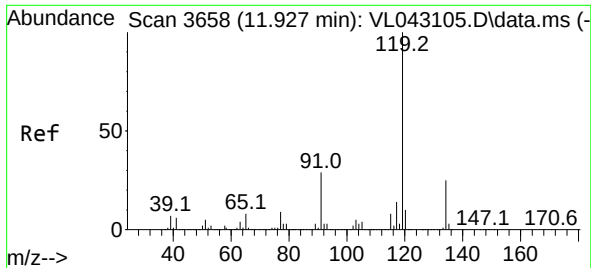
Ion Ratio Lower Upper

95 100

174 61.0 48.3 72.5

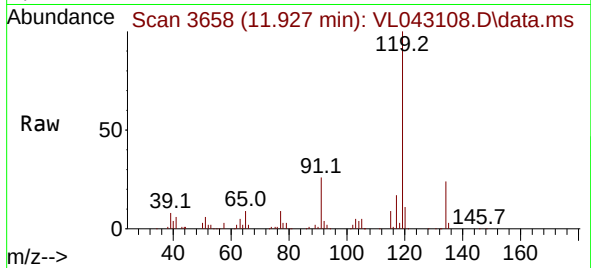
175 4.5 3.8 5.8





#69
p-Isopropyltoluene
Concen: 0.524 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

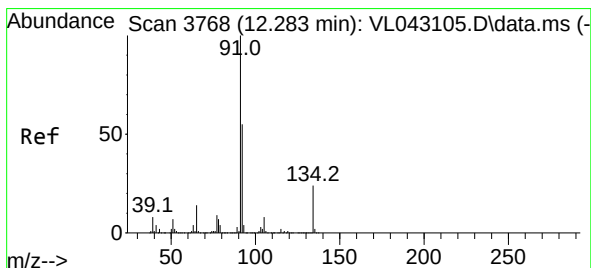
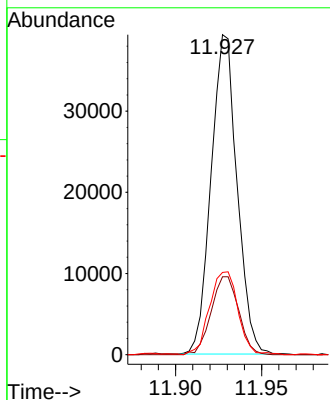
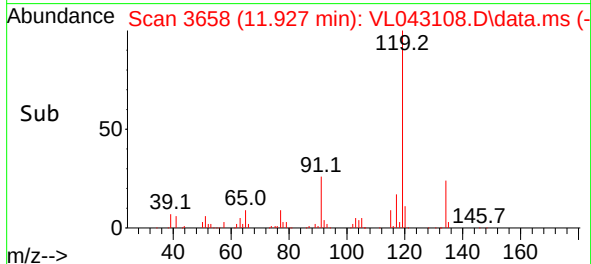
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



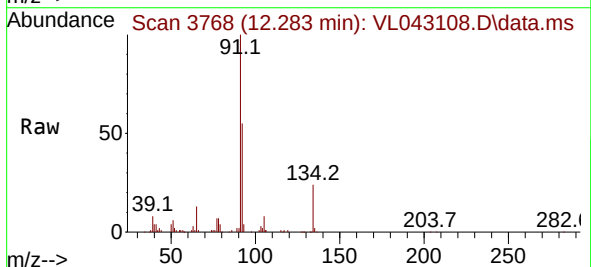
Tgt Ion:119 Resp: 41360
Ion Ratio Lower Upper
119 100
134 25.8 20.3 30.5
91 28.9 22.6 33.8

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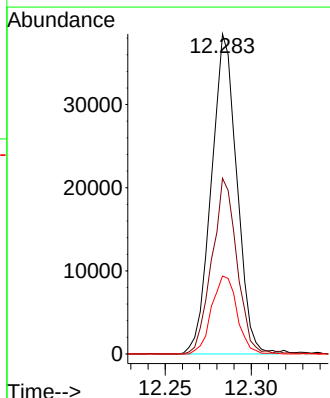
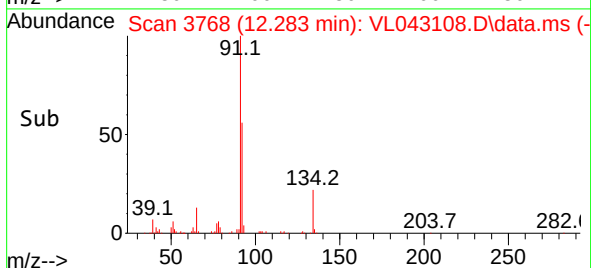
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

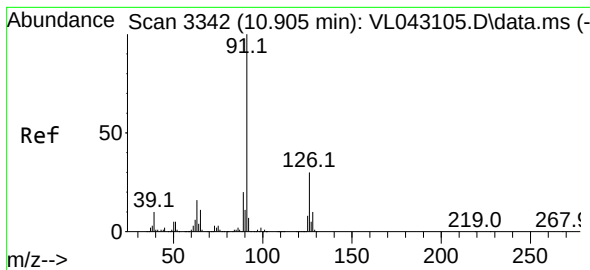


#70
n-Butylbenzene
Concen: 0.509 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 91 Resp: 39620
Ion Ratio Lower Upper
91 100
92 54.2 44.5 66.7
134 24.4 19.3 28.9





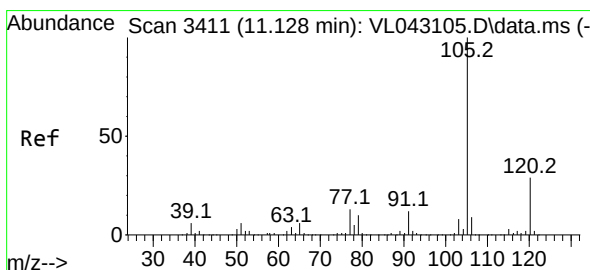
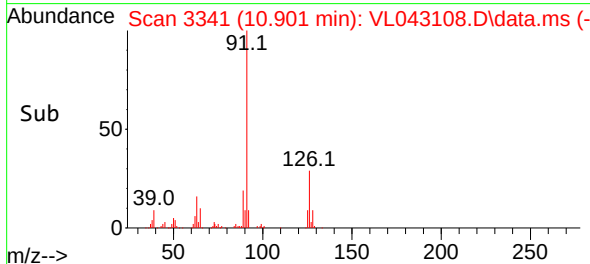
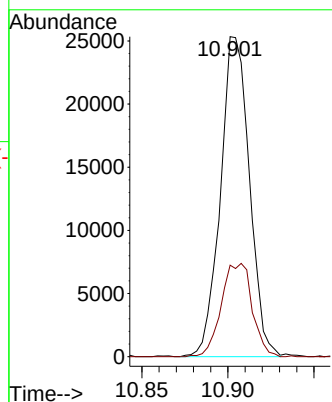
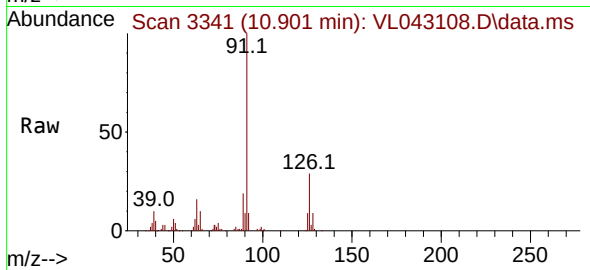
#71
2-Chlorotoluene
Concen: 0.526 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 2972
Ion Ratio Lower Upper
91 100
126 30.9 12.0 48.0

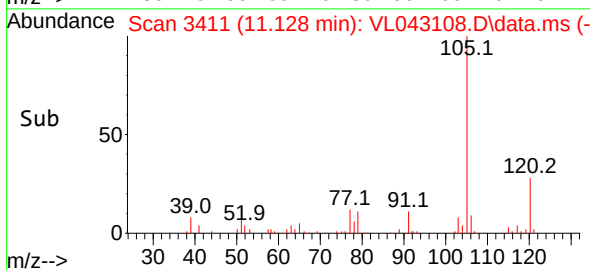
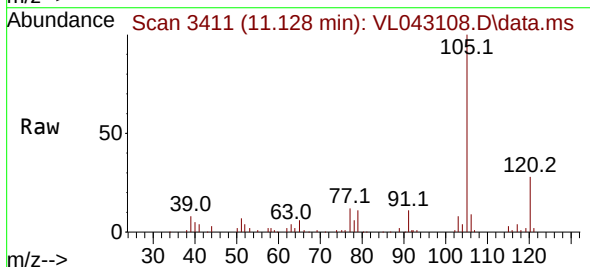
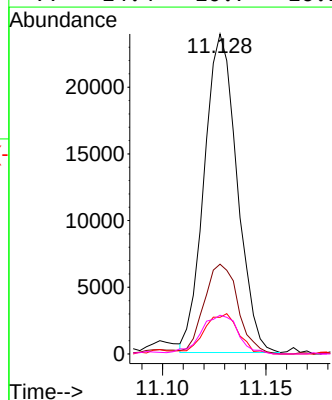
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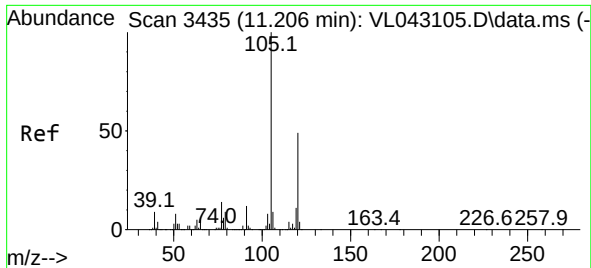
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 0.524 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 26408
Ion Ratio Lower Upper
105 100
120 30.8 24.2 36.4
91 14.6 10.0 15.0
77 14.4 10.7 16.1





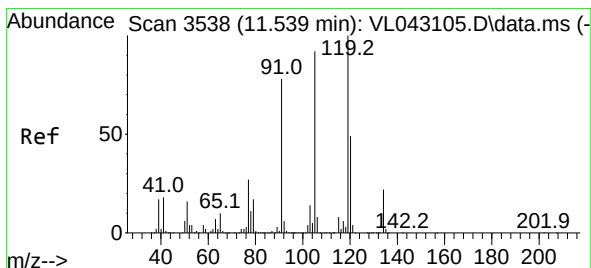
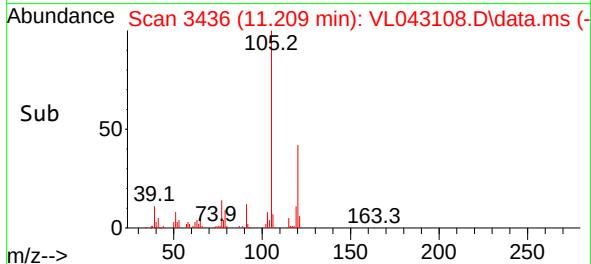
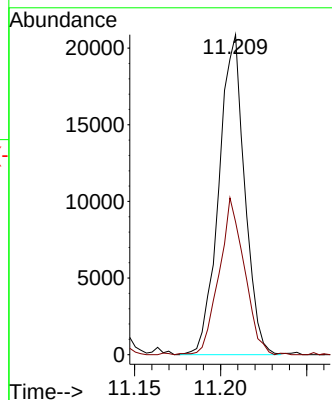
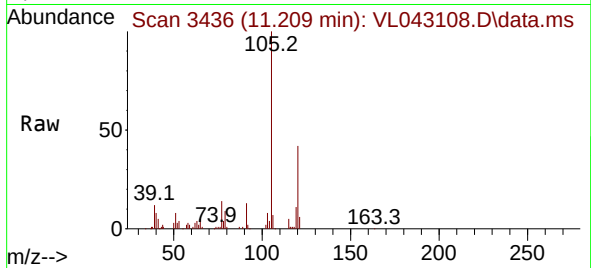
#73
1,3,5-Trimethylbenzene
Concen: 0.523 ppbv
RT: 11.209 min Scan# 3435
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:105 Resp: 21754
Ion Ratio Lower Upper
105 100
120 41.1 39.0 58.6

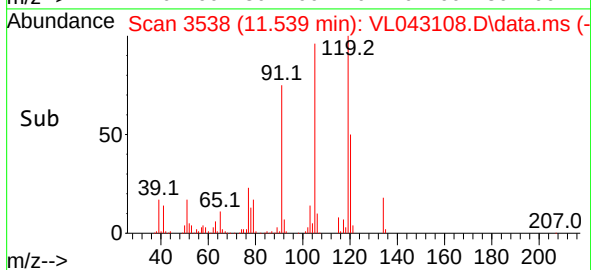
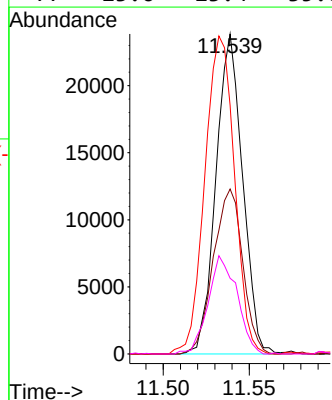
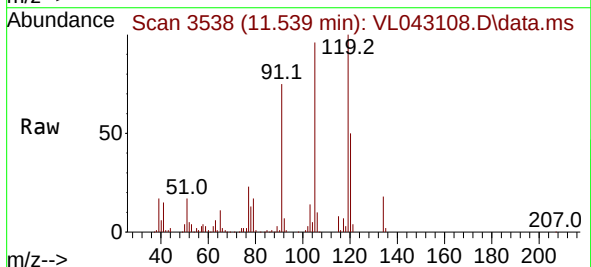
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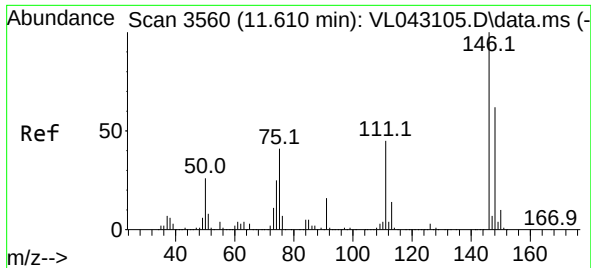
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.551 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

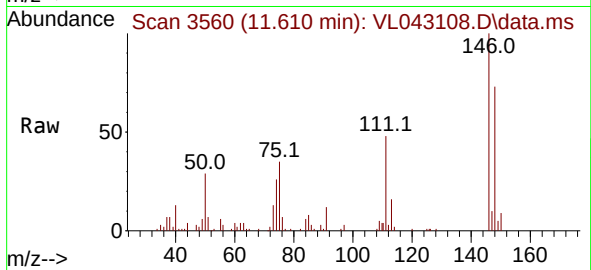
Tgt Ion:105 Resp: 25663
Ion Ratio Lower Upper
105 100
120 51.5 42.8 64.2
91 77.7 68.3 102.5
77 23.6 23.4 35.0





#75
1,3-Dichlorobenzene
Concen: 0.507 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

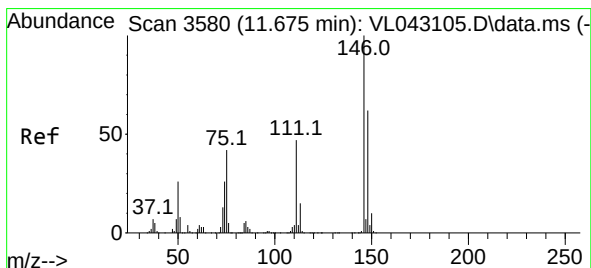
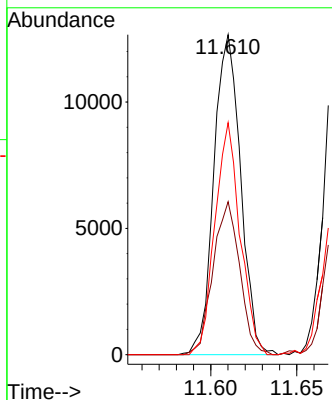
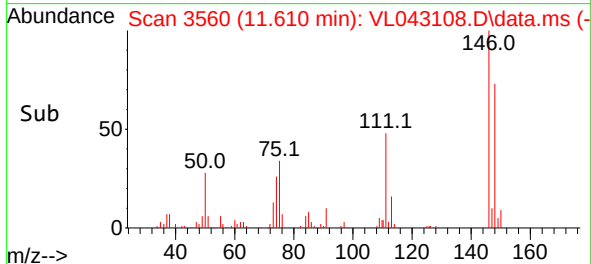
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



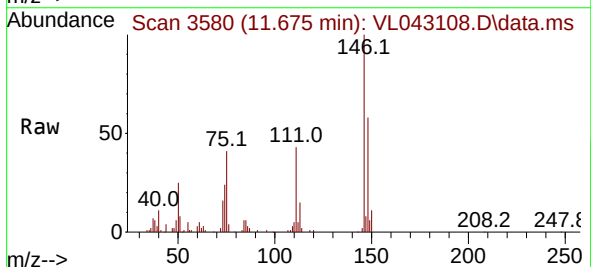
Tgt Ion:146 Resp: 1369
Ion Ratio Lower Upper
146 100
111 47.8 23.3 69.9
148 68.4 31.6 95.0

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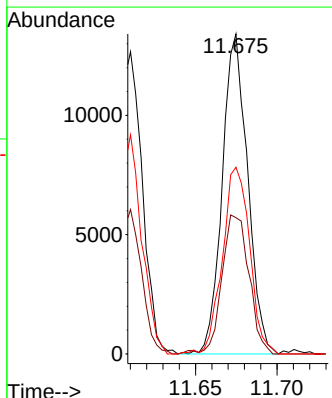
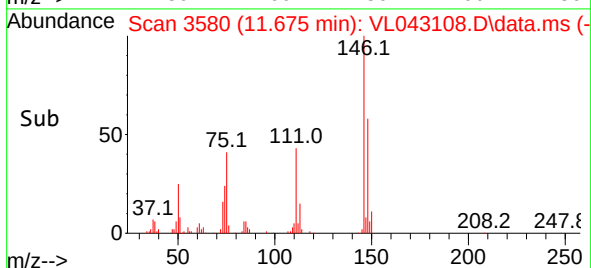
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

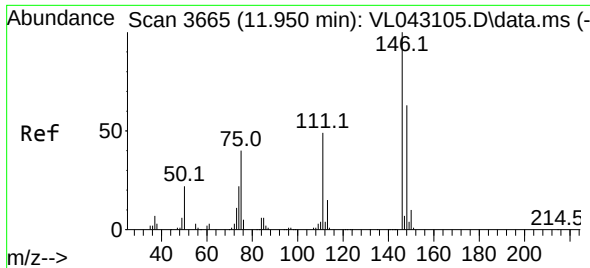


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



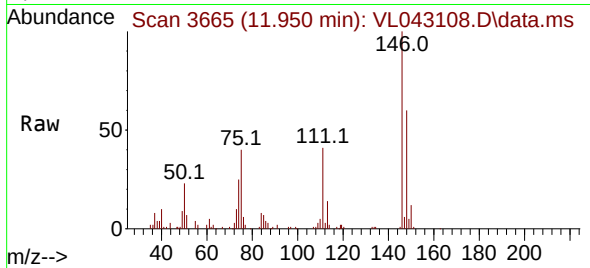
Tgt Ion:146 Resp: 14514
Ion Ratio Lower Upper
146 100
111 46.4 22.4 67.0
148 62.7 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

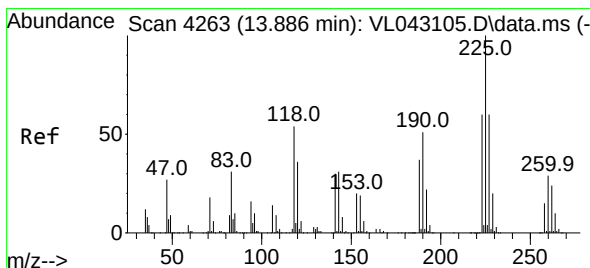
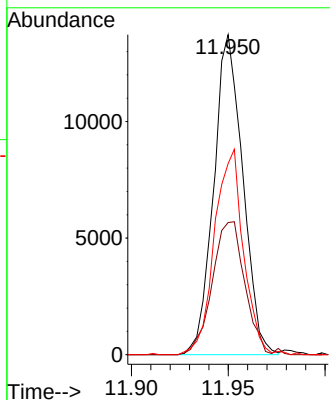
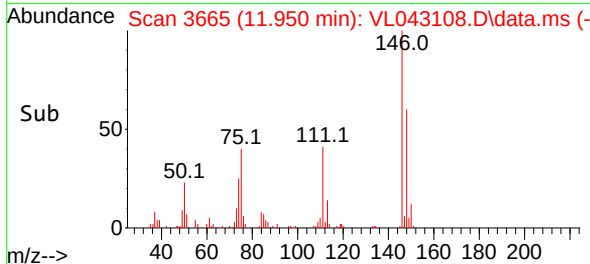
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



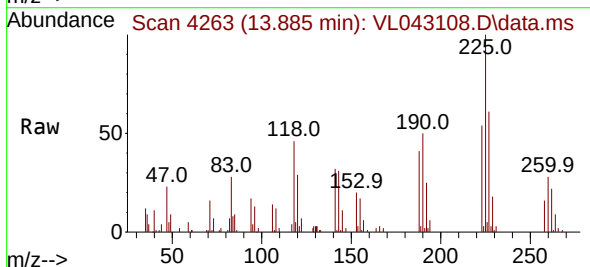
Tgt Ion:146 Resp: 14324
Ion Ratio Lower Upper
146 100
111 46.9 24.0 72.0
148 64.1 31.1 93.3

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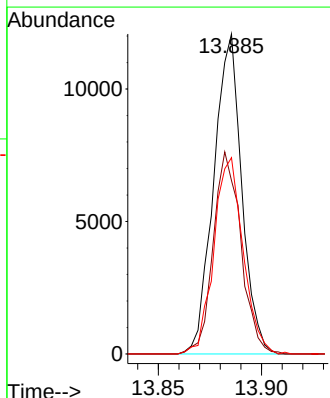
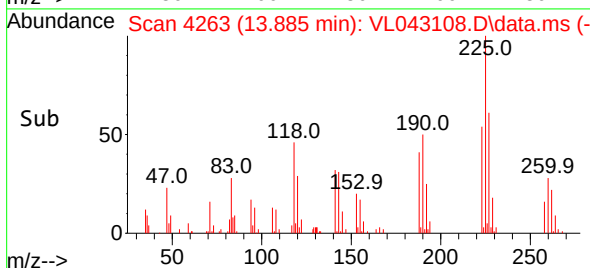
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

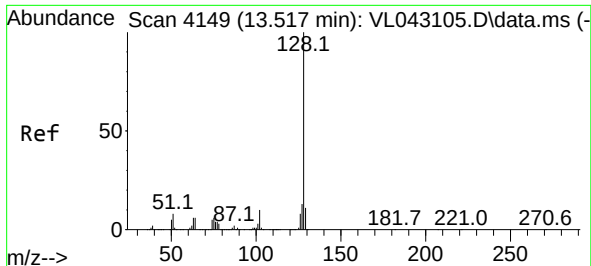


#78
Hexachloro-1,3-Butadiene
Concen: 0.564 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



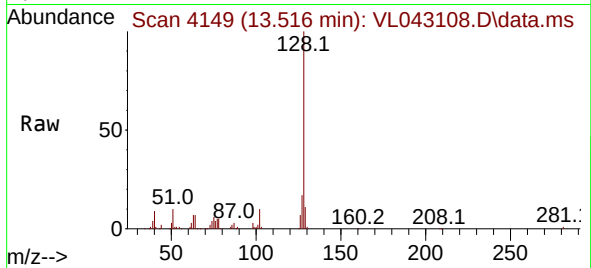
Tgt Ion:225 Resp: 11400
Ion Ratio Lower Upper
225 100
223 62.4 50.2 75.4
227 64.2 49.6 74.4





#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

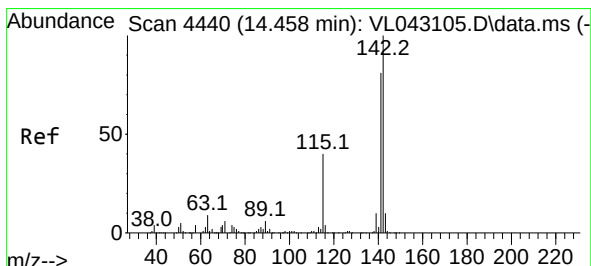
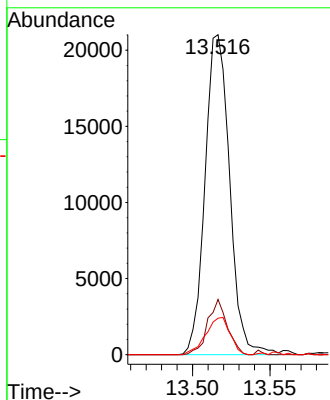
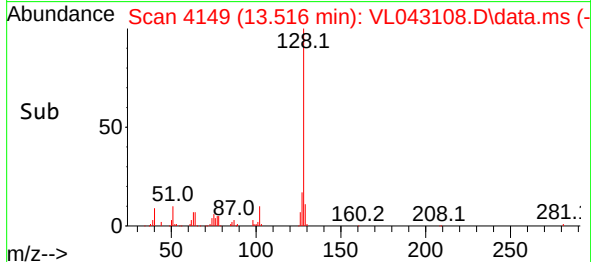
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:128 Resp: 2324
Ion Ratio Lower Upper
128 100
127 17.3 10.5 15.7
129 11.4 9.1 13.7

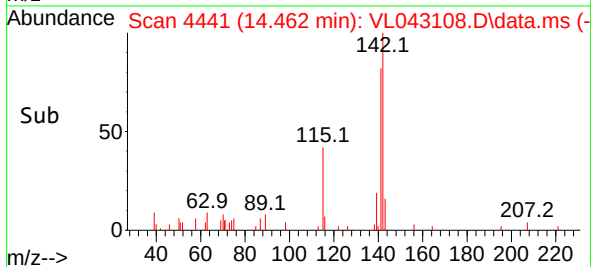
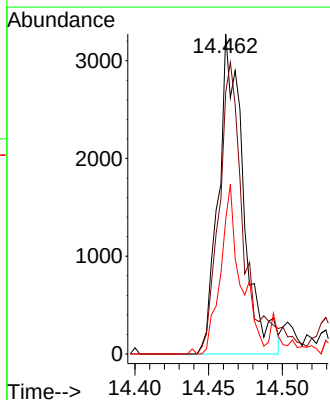
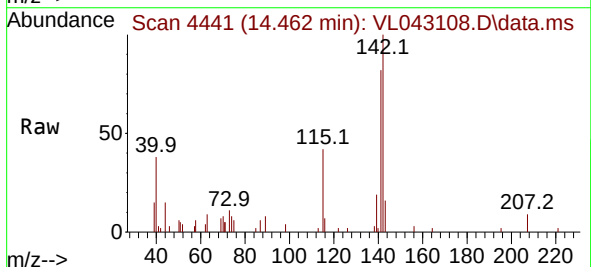
Manual Integrations
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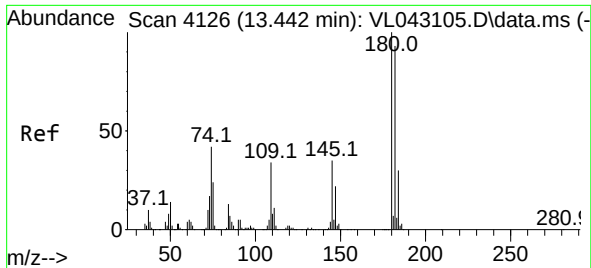
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80
Naphthalene,2-methyl-
Concen: 0.305 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

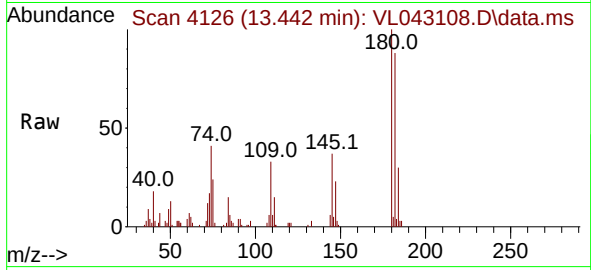
Tgt Ion:142 Resp: 3874
Ion Ratio Lower Upper
142 100
141 92.6 64.6 97.0
115 51.2 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 0.416 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

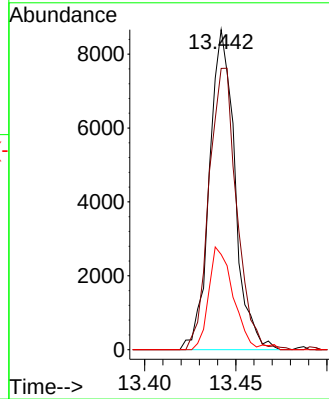
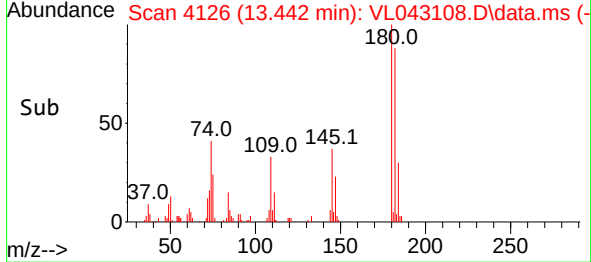
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	180	Resp:	839
Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.5	113.3
184	31.4	23.9	35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043109.D
 Acq On : 14 Oct 2025 13:08
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:54:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards							
1)	Bromochloromethane	2.790	49	99997	10.000	ppbv	0.00
33)	1,4-Difluorobenzene	3.959	114	332574	10.000	ppbv	0.00
55)	Chlorobenzene-d5	8.882	117	299676	10.000	ppbv	0.00
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	10.377	95	233673	10.032	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 100.300%	
Target Compounds							
							Qvalue
5)	Vinyl Chloride	1.583	62	554	0.100	ppbv	# 33
32)	1,1,1-Trichloroethane	3.373	97	2605m	0.112	ppbv	
35)	Carbon Tetrachloride	3.761	117	2530m	0.106	ppbv	
38)	Trichloroethene	4.561	130	1399m	0.107	ppbv	
52)	Tetrachloroethene	8.231	164	1149m	0.102	ppbv	
54)	1,2-Dibromoethane	7.658	107	2201	0.113	ppbv	100
63)	1,1,2,2-Tetrachloroethane	9.966	83	3053	0.113	ppbv	90
79)	Naphthalene	13.516	128	3792m	0.080	ppbv	

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

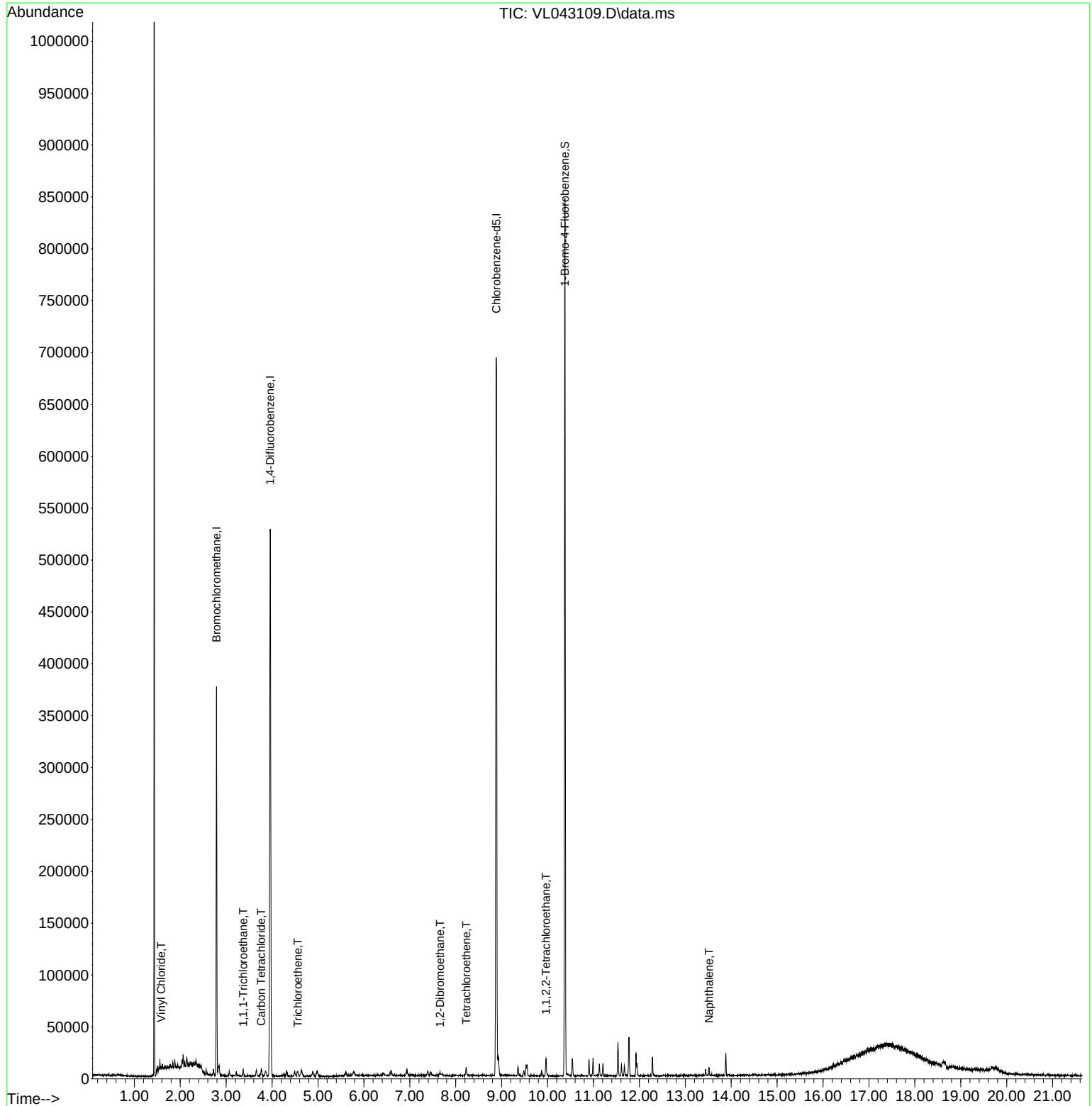
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

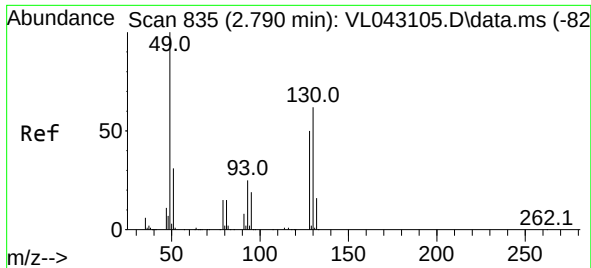
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

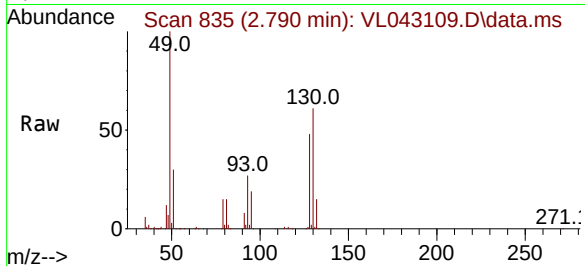
Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

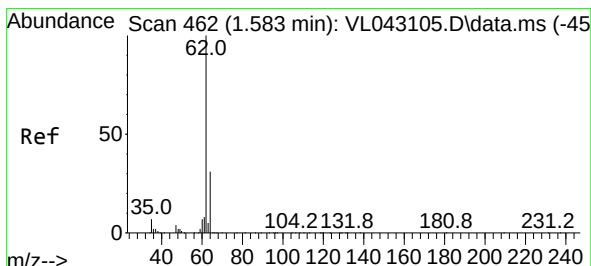
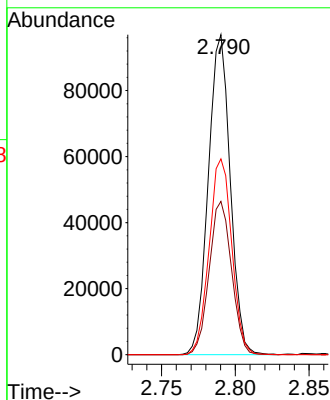
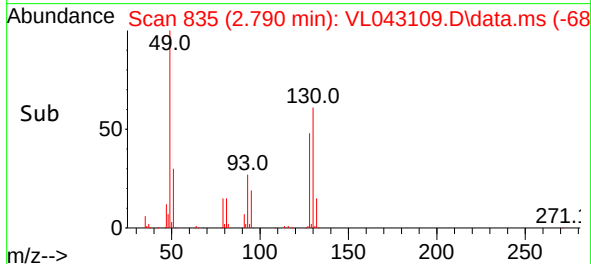
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 49 Resp: 9999
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 63.3 31.0 93.0

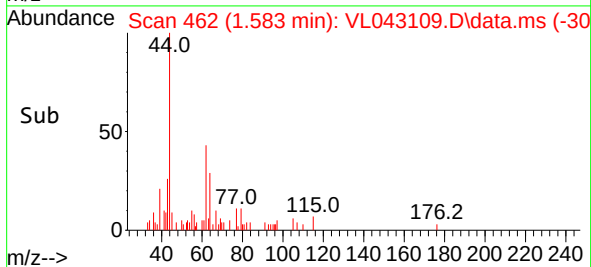
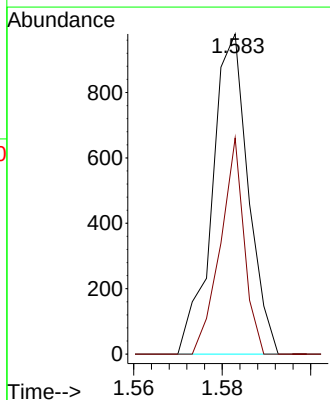
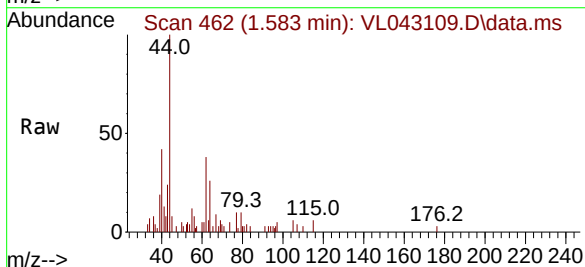
Manual Integrations
APPROVED

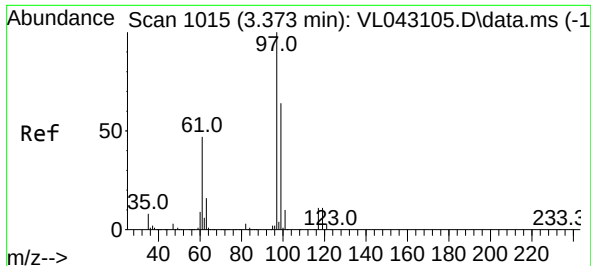
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#5
Vinyl Chloride
Concen: 0.100 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

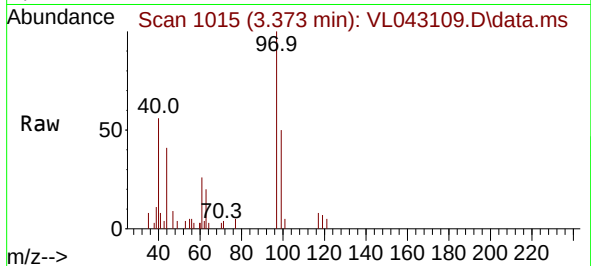
Tgt Ion: 62 Resp: 554
Ion Ratio Lower Upper
62 100
64 67.5 24.6 36.8#





#32
1,1,1-Trichloroethane
Concen: 0.112 ppbv m
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

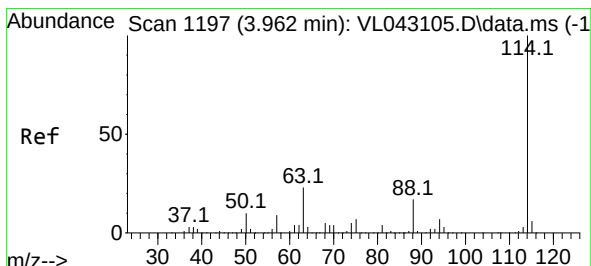
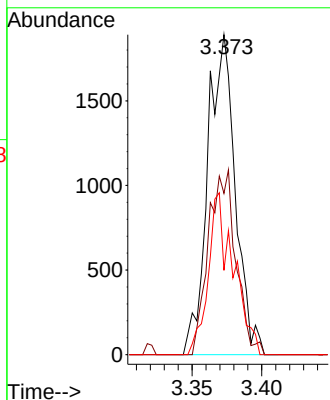
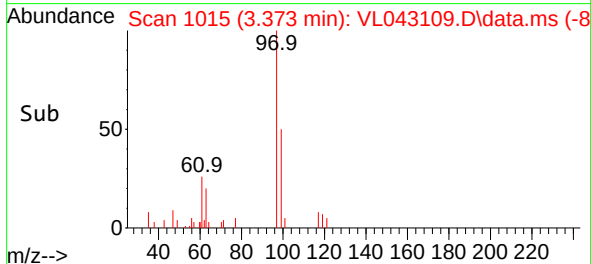
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 97 Resp: 260
Ion Ratio Lower Upper
97 100
99 57.5 51.3 76.9
61 46.3 38.4 57.6

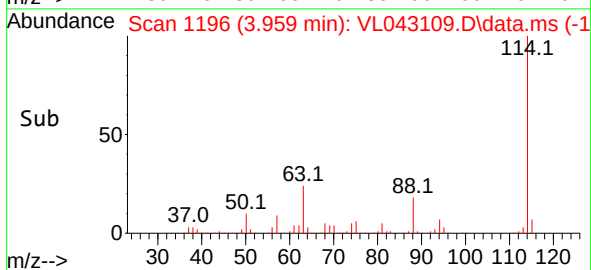
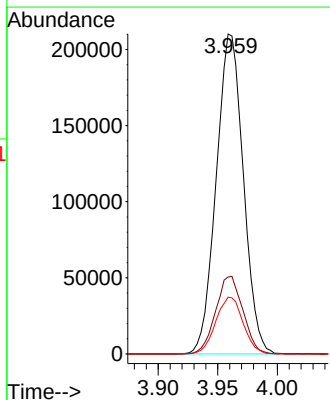
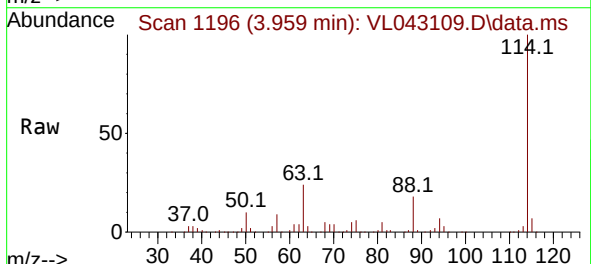
Manual Integrations
APPROVED

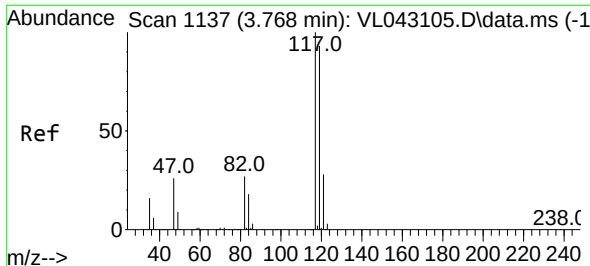
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

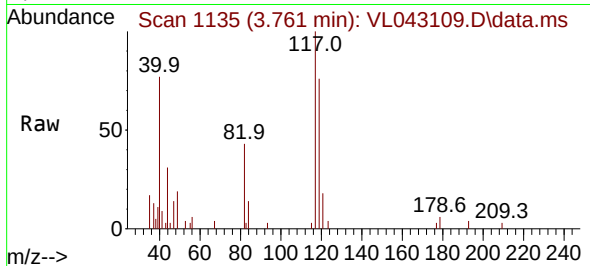
Tgt Ion:114 Resp: 332574
Ion Ratio Lower Upper
114 100
63 24.3 19.3 28.9
88 17.9 13.9 20.9





#35
Carbon Tetrachloride
Concen: 0.106 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

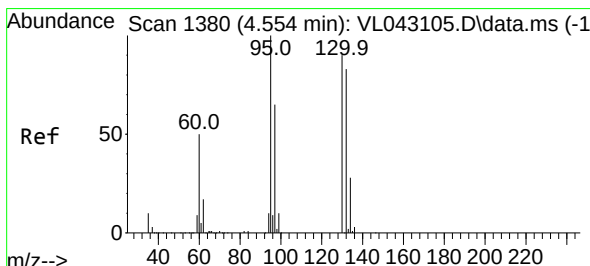
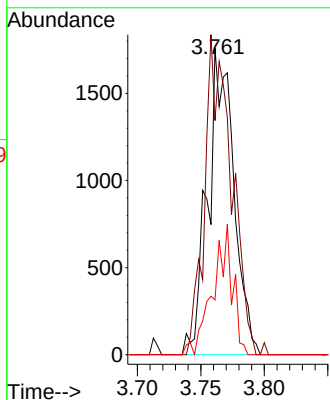
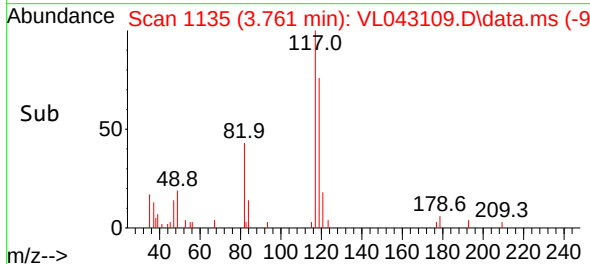
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:117 Resp: 2530
Ion Ratio Lower Upper
117 100
119 76.4 74.1 111.1
121 17.9 22.2 33.2

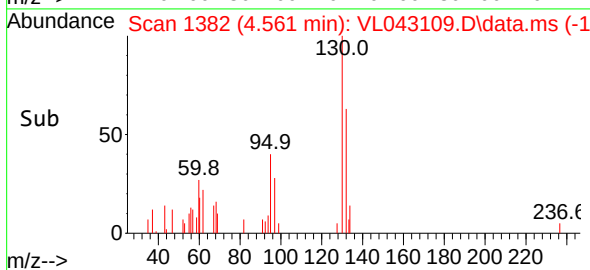
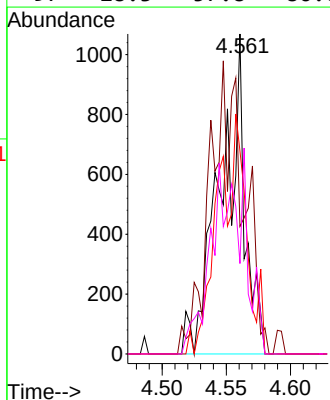
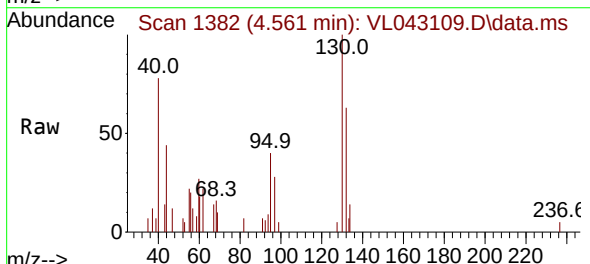
Manual Integrations
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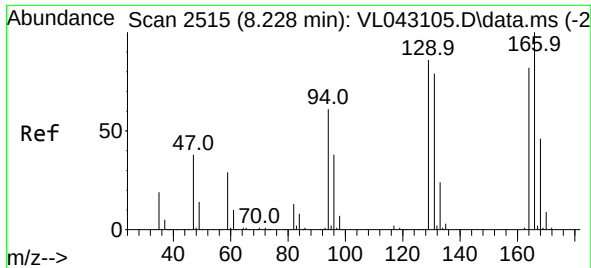
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 0.107 ppbv m
RT: 4.561 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

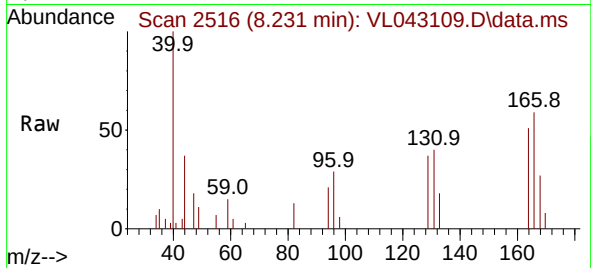
Tgt Ion:130 Resp: 1399
Ion Ratio Lower Upper
130 100
95 39.9 88.6 133.0#
132 63.4 73.4 110.0#
97 28.3 57.8 86.6#





#52
Tetrachloroethene
Concen: 0.102 ppbv m
RT: 8.231 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

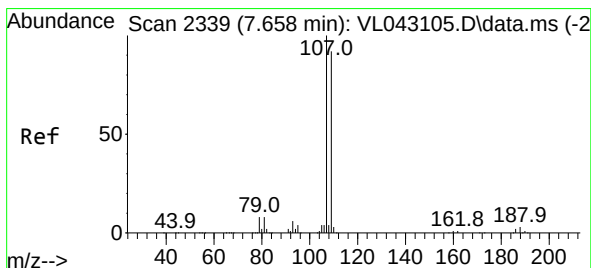
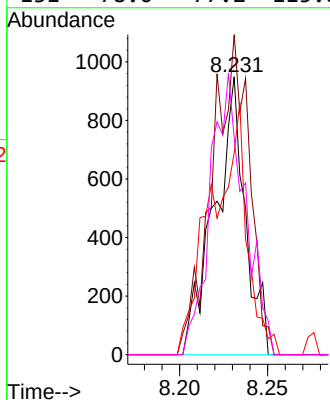
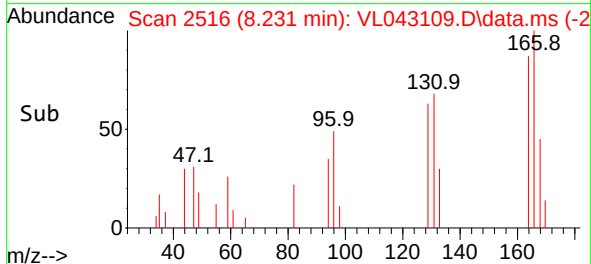
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:164 Resp: 1149
Ion Ratio Lower Upper
164 100
166 115.2 97.6 146.4
129 72.7 84.5 126.7
131 78.0 77.2 115.8

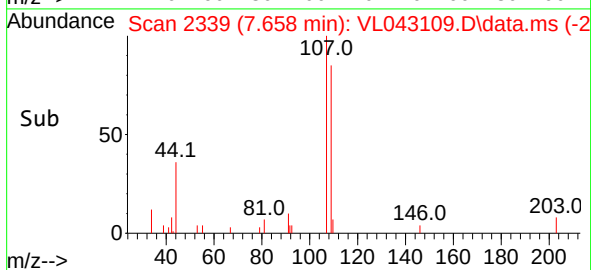
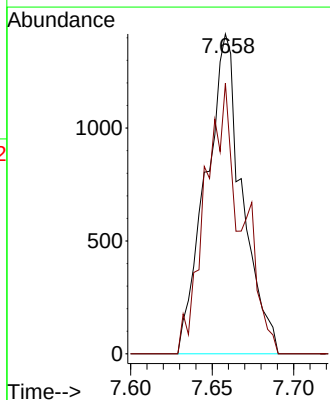
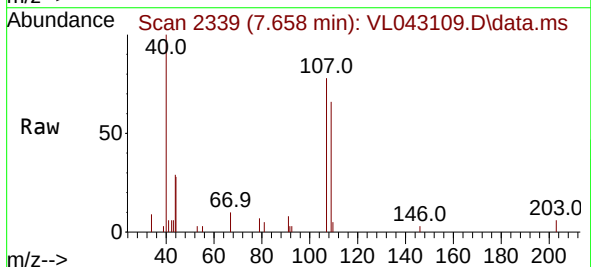
Manual Integrations
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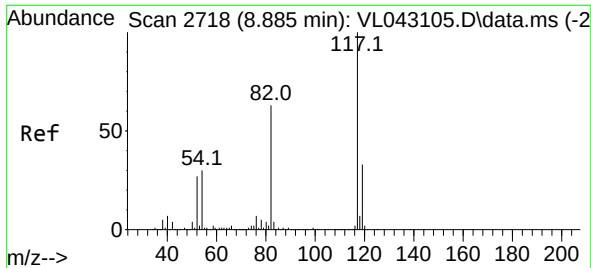
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#54
1,2-Dibromoethane
Concen: 0.113 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

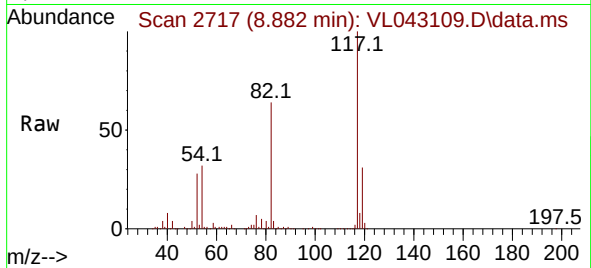
Tgt Ion:107 Resp: 2201
Ion Ratio Lower Upper
107 100
109 91.5 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

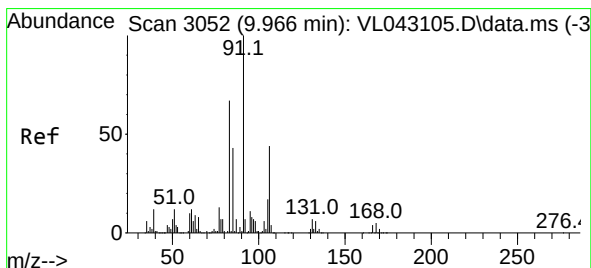
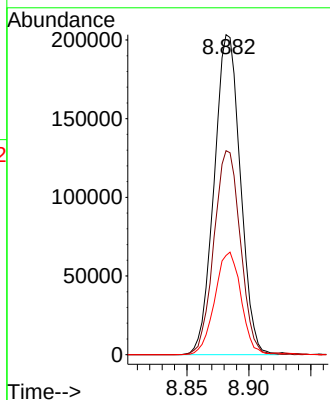
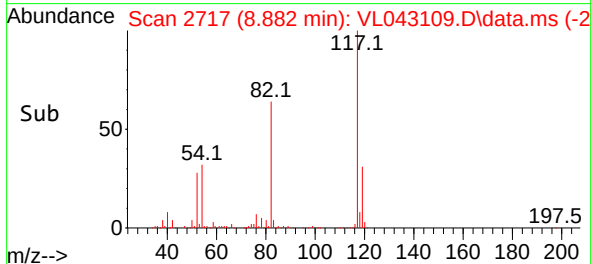
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



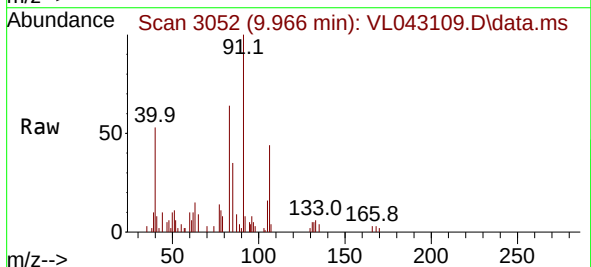
Tgt Ion: 117 Resp: 299670
Ion Ratio Lower Upper
117 100
82 64.3 53.8 80.8
119 32.5 25.4 38.0

Manual Integrations
APPROVED

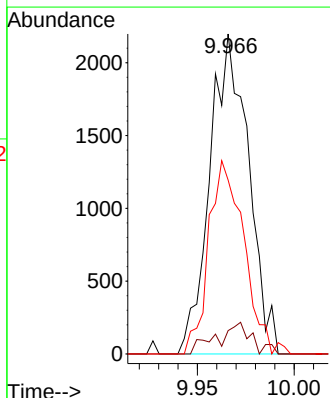
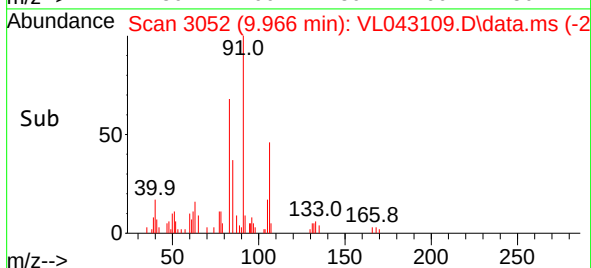
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

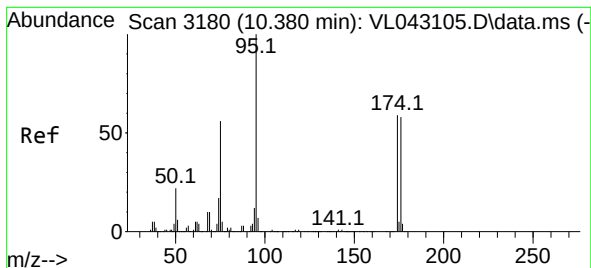


#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08



Tgt Ion: 83 Resp: 3053
Ion Ratio Lower Upper
83 100
131 8.9 4.8 14.3
85 55.2 32.0 96.0





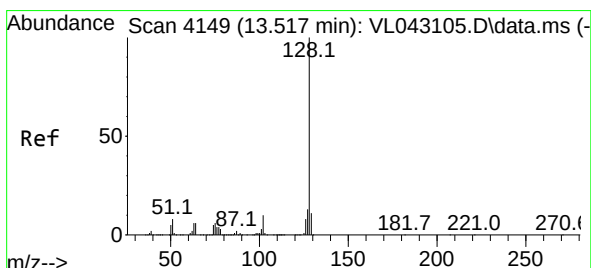
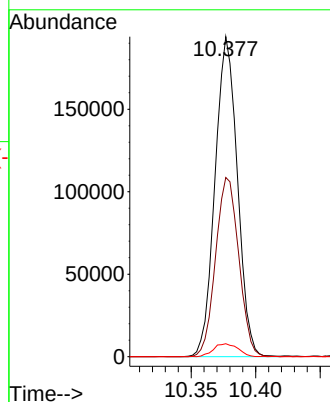
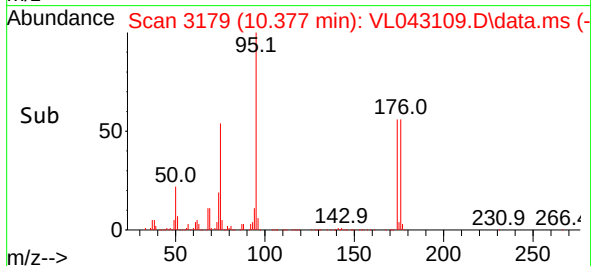
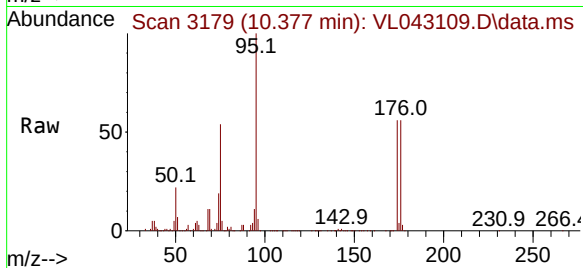
#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.377 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 95 Resp: 23367
Ion Ratio Lower Upper
95 100
174 58.0 48.3 72.5
175 4.5 3.8 5.8

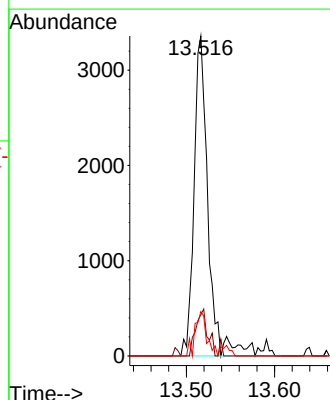
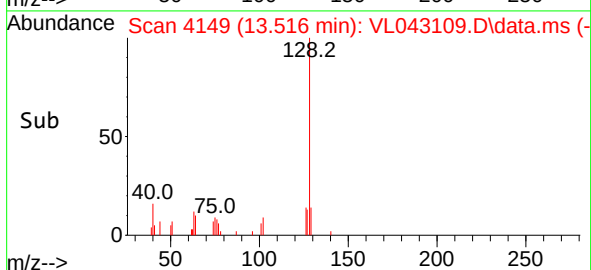
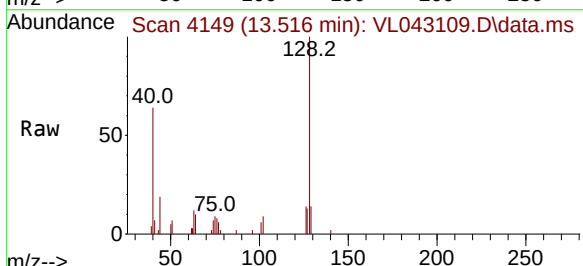
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#79
Naphthalene
Concen: 0.080 ppbv m
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:128 Resp: 3792
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.8 9.1 13.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043110.D
 Acq On : 14 Oct 2025 13:42
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	328897	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	292884	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	224043	9.841	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	217	0.039	ppbv	# 78
32) 1,1,1-Trichloroethane	3.376	97	650m	0.028	ppbv	
35) Carbon Tetrachloride	3.761	117	742m	0.031	ppbv	
38) Trichloroethene	4.551	130	454m	0.035	ppbv	
52) Tetrachloroethene	8.218	164	349m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	904m	0.034	ppbv	

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

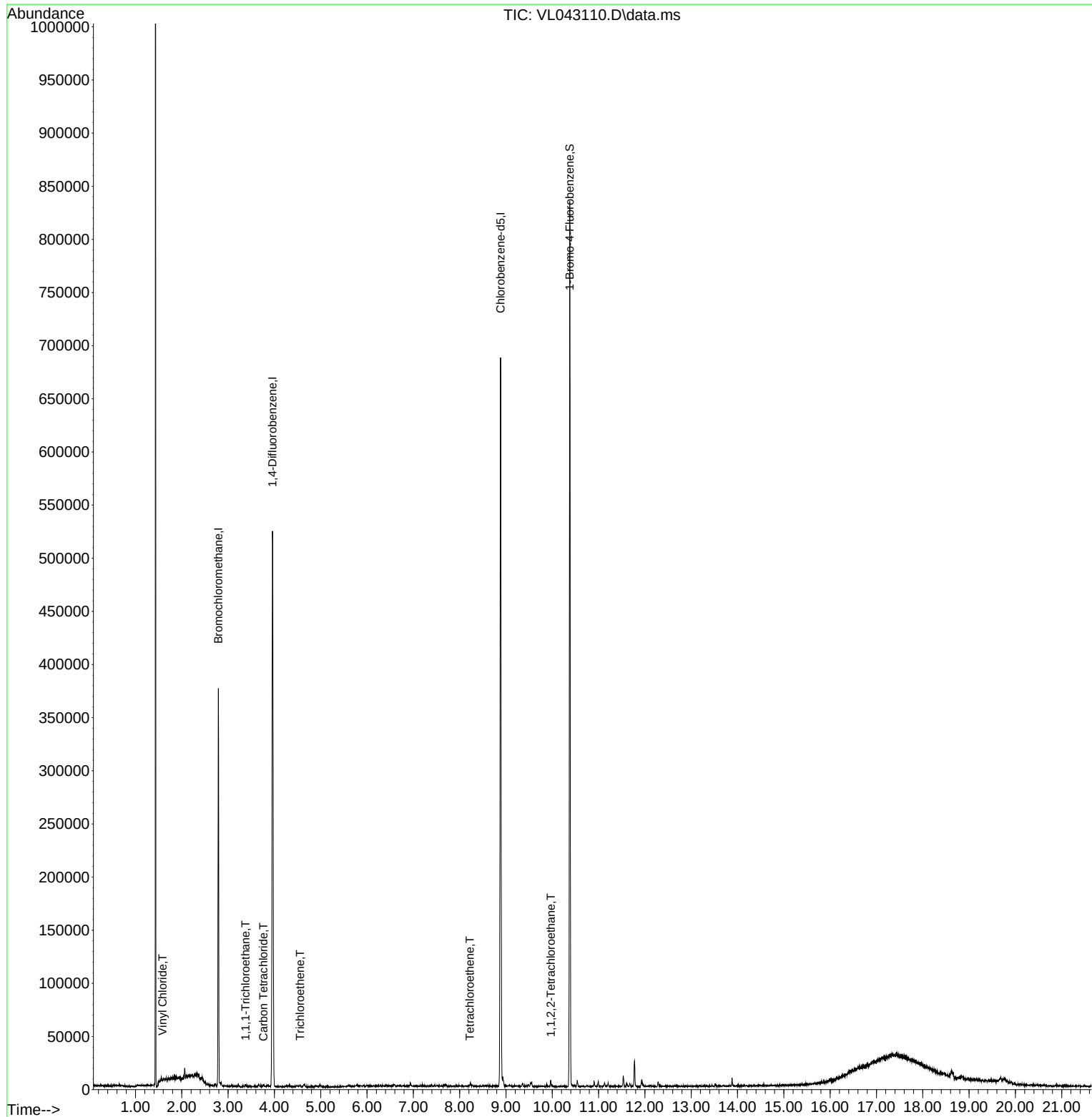
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043110.D
Acq On : 14 Oct 2025 13:42
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

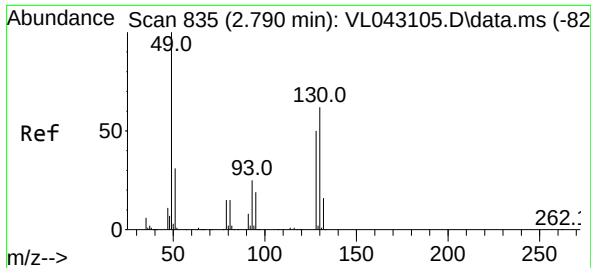
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

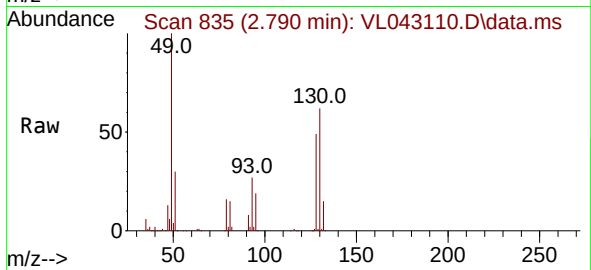
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

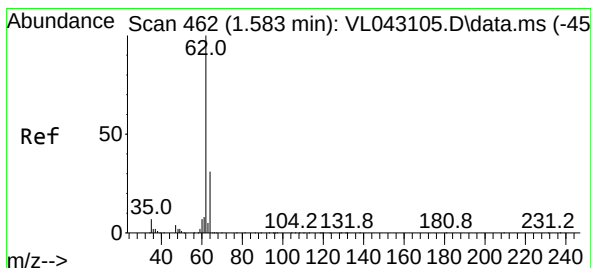
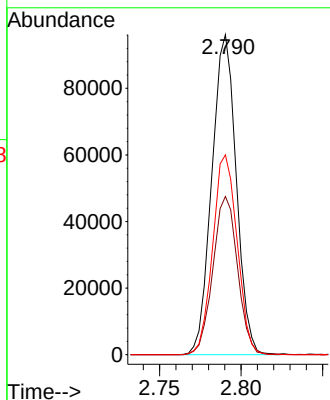
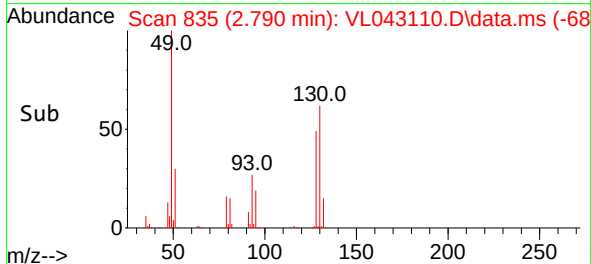
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 49 Resp: 100058
Ion Ratio Lower Upper
49 100
128 49.9 24.4 73.4
130 62.5 31.0 93.0

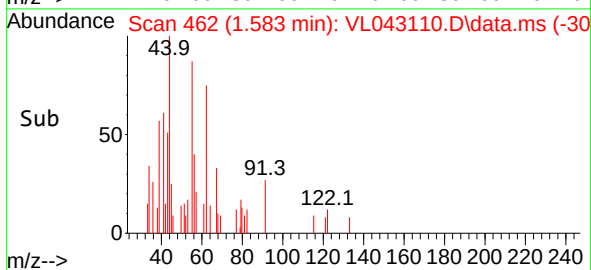
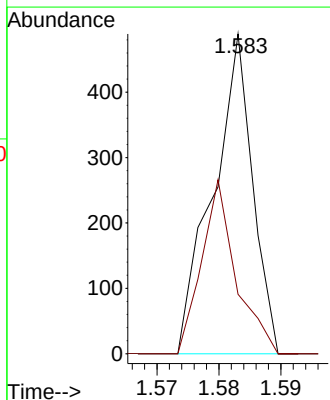
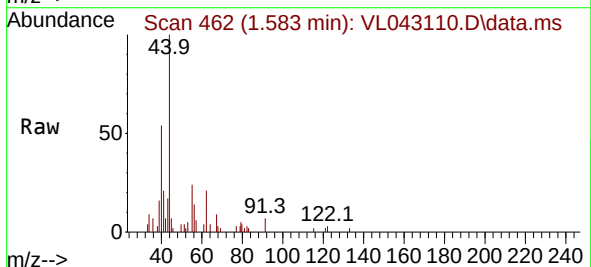
Manual Integrations
APPROVED

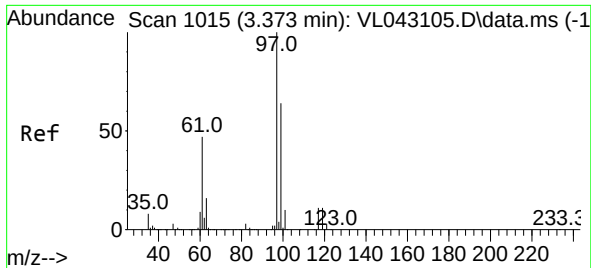
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#5
Vinyl Chloride
Concen: 0.039 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

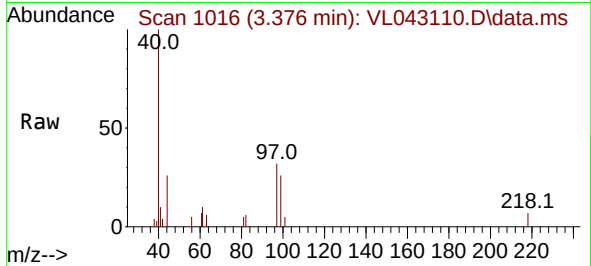
Tgt Ion: 62 Resp: 217
Ion Ratio Lower Upper
62 100
64 18.6 24.6 36.8#





#32
1,1,1-Trichloroethane
Concen: 0.028 ppbv m
RT: 3.376 min Scan# 1015
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

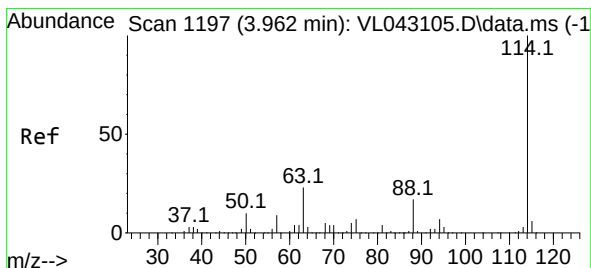
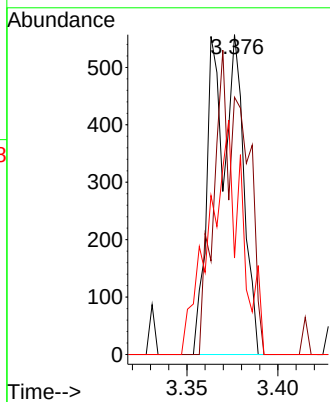
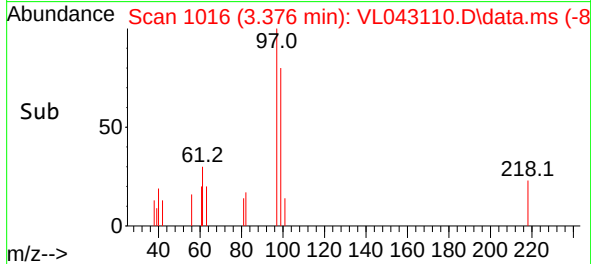
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 97 Resp: 650
Ion Ratio Lower Upper
97 100
99 96.0 51.3 76.9
61 77.4 38.4 57.6

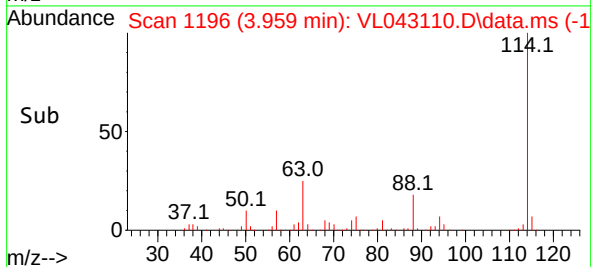
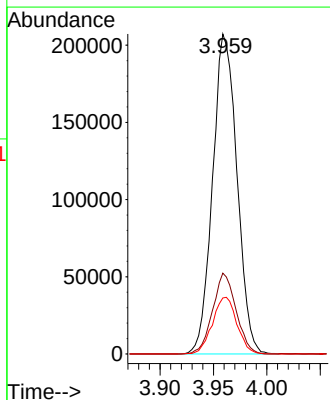
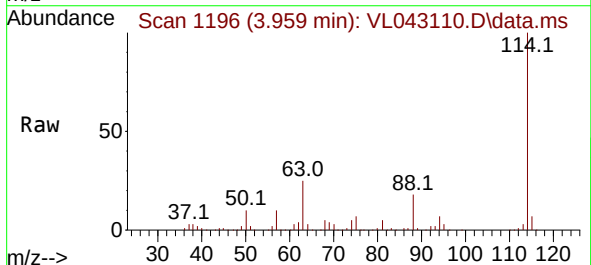
Manual Integrations
APPROVED

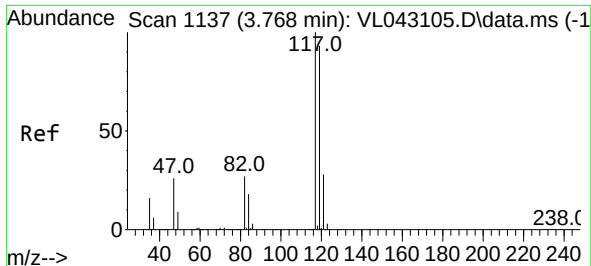
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

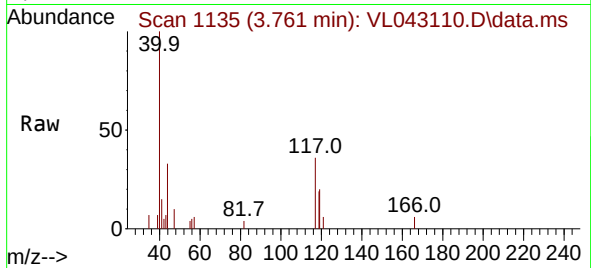
Tgt Ion:114 Resp: 328897
Ion Ratio Lower Upper
114 100
63 24.3 19.3 28.9
88 17.8 13.9 20.9





#35
Carbon Tetrachloride
Concen: 0.031 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

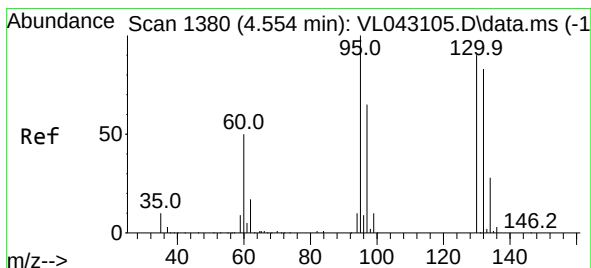
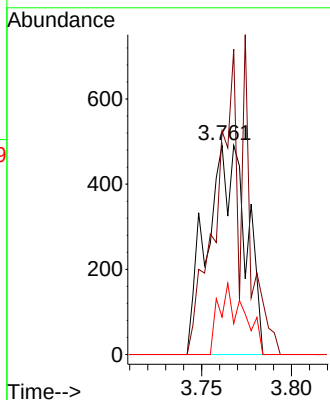
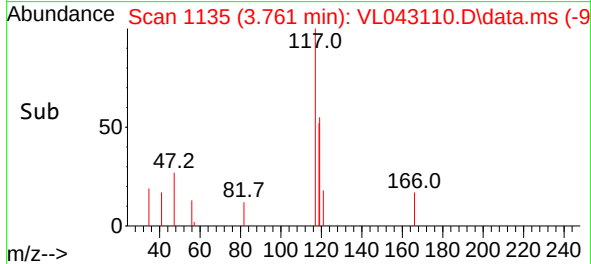
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.03



Tgt Ion:117 Resp: 74.1
Ion Ratio Lower Upper
117 100
119 55.4 74.1 111.1#
121 17.9 22.2 33.2#

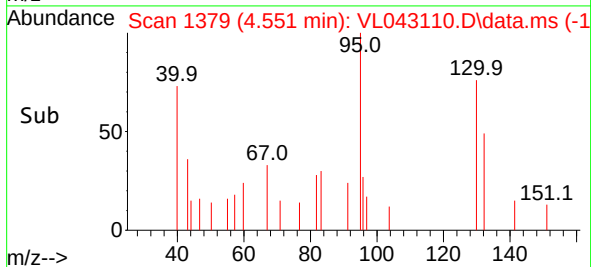
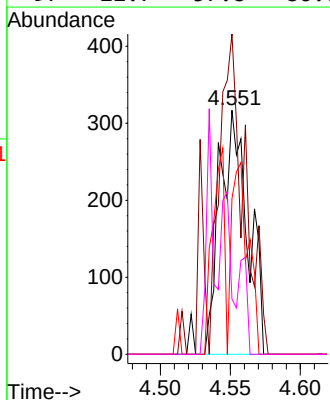
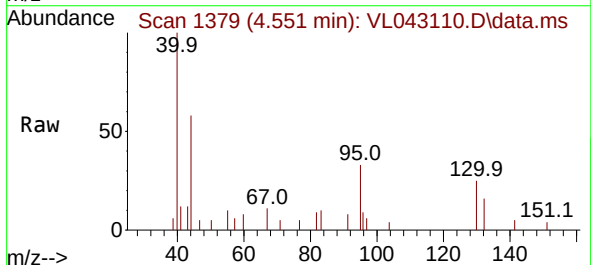
Manual Integrations
APPROVED

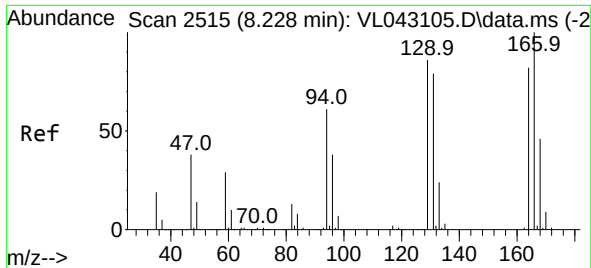
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 0.035 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

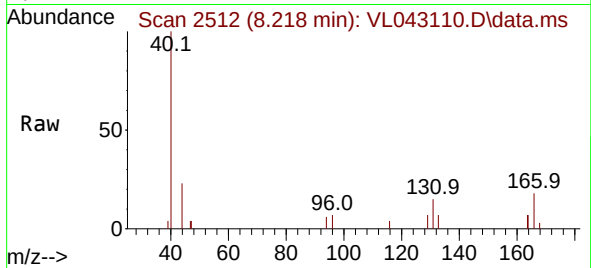
Tgt Ion:130 Resp: 454
Ion Ratio Lower Upper
130 100
95 131.2 88.6 133.0
132 63.7 73.4 110.0#
97 22.7 57.8 86.6#





#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.218 min Scan# 2515
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

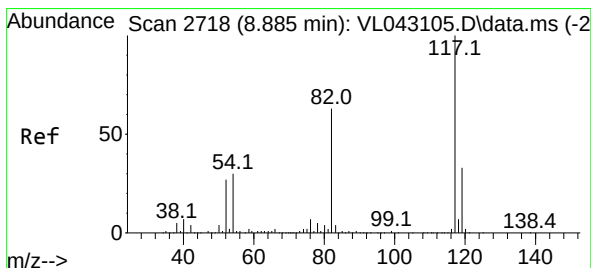
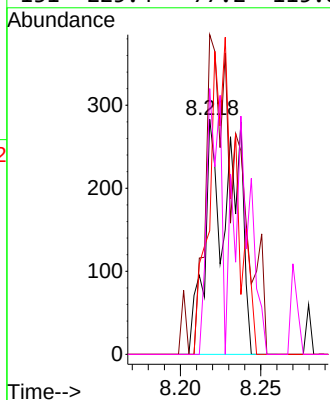
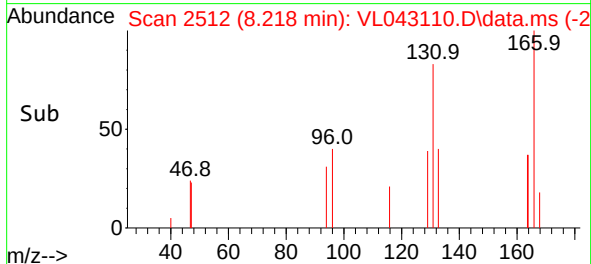
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion:164 Resp: 349
Ion Ratio Lower Upper
164 100
166 271.1 97.6 146.4
129 104.9 84.5 126.7
131 225.4 77.2 115.8#

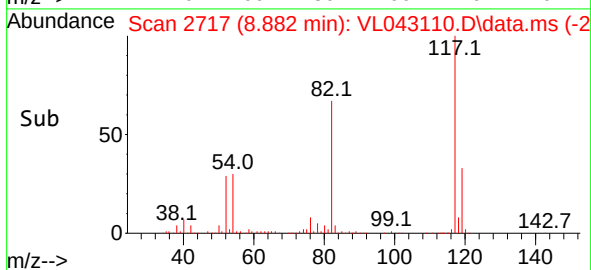
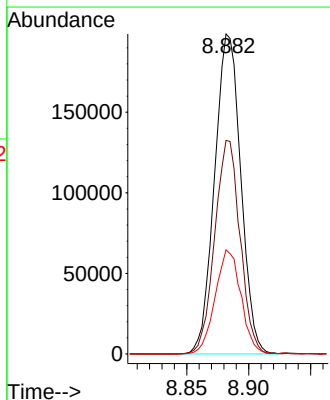
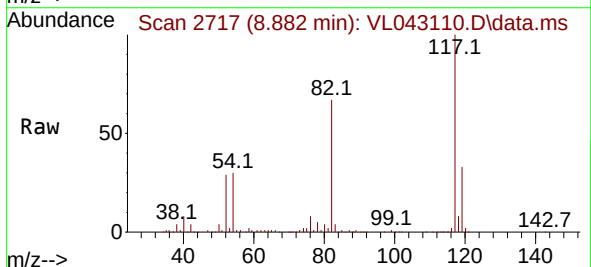
Manual Integrations
APPROVED

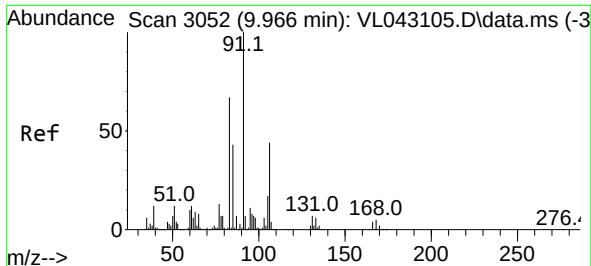
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:117 Resp: 292884
Ion Ratio Lower Upper
117 100
82 64.7 53.8 80.8
119 32.1 25.4 38.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.034 ppbv m

RT: 9.969 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL043110.D

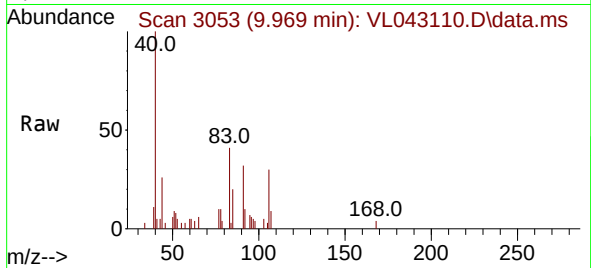
Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

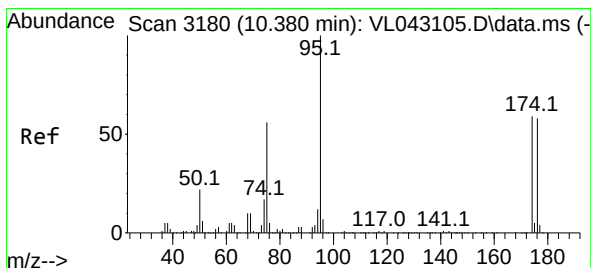
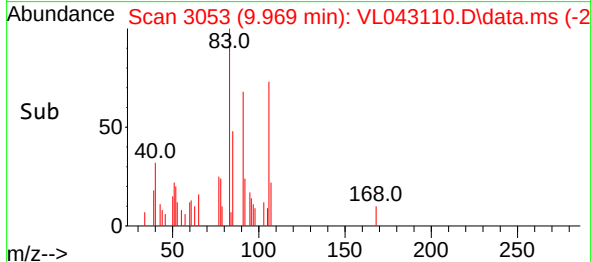
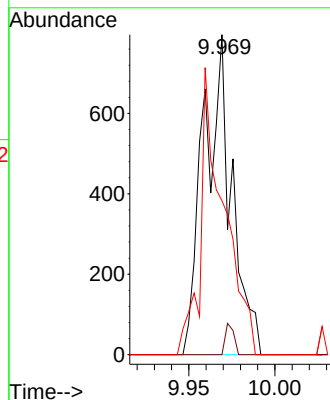


Tgt Ion:	83	Resp:	904
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.8	14.3
85	74.1	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.841 ppbv

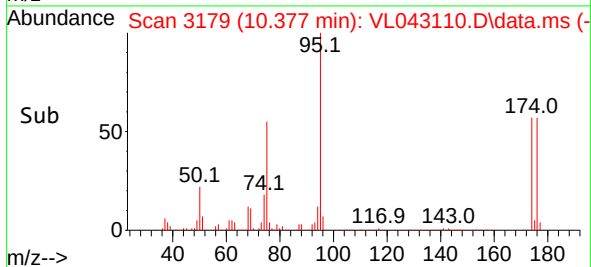
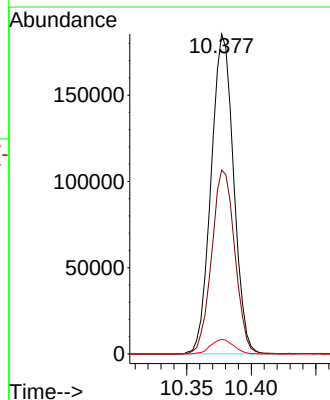
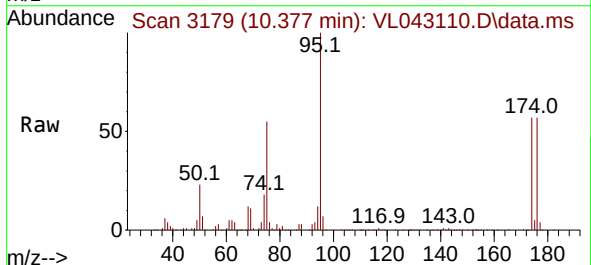
RT: 10.377 min Scan# 3179

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Tgt Ion:	95	Resp:	224043
Ion Ratio	Lower	Upper	
95	100		
174	59.2	48.3	72.5
175	4.7	3.8	5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	321665	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	292542	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 233522 10.270 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	193353	13.485	ppbv	98
3) Chlorodifluoromethane	1.476	51	205650	13.255	ppbv	98
4) Chloromethane	1.534	50	72111	12.695	ppbv	98
5) Vinyl Chloride	1.583	62	69909	12.548	ppbv	99
6) Bromomethane	1.670	94	39756	13.013	ppbv	98
7) Chloroethane	1.706	64	27709	12.164	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	156753	13.526	ppbv	100
9) Propene	1.486	41	88451	12.854	ppbv	98
10) Heptane	4.985	43	249682	12.658	ppbv	99
11) Trichlorofluoromethane	1.881	101	191307	13.640	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	150640	13.341	ppbv	98
13) Ethanol	1.722	45	25828	10.148	ppbv	98
14) Bromoethene	1.784	108	54818	13.068	ppbv	99
15) Acetone	1.835	43	160069	11.710	ppbv	100
16) 1,3-Butadiene	1.612	39	80403	12.411	ppbv	98
17) tert-Butyl alcohol	2.039	59	237633	12.735	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65634	13.333	ppbv	98
19) Isopropyl Alcohol	1.887	45	102035	12.051	ppbv	98
20) Methylene Chloride	2.065	84	60549	11.268	ppbv	90
21) Allyl Chloride	2.097	41	131539	13.105	ppbv	95
22) trans-1,2-Dichloroethene	2.343	96	76780	13.048	ppbv	97
23) Vinyl Acetate	2.463	43	288274	14.476	ppbv	98
24) 1,1-Dichloroethane	2.411	63	152663	13.428	ppbv	99
25) Ethyl Acetate	2.835	43	434350	12.884	ppbv	100
26) Hexane	2.829	57	199384	12.836	ppbv	98
27) Carbon Disulfide	2.152	76	192452	13.522	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	96464	13.650	ppbv	94
29) Chloroform	2.852	83	302154	13.425	ppbv	98
30) Cyclohexane	3.858	84	177947	13.133	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	203888	13.745	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	316442	13.500	ppbv	99
34) 2-Butanone	2.557	43	283134	13.020	ppbv	99
35) Carbon Tetrachloride	3.764	117	325078	14.056	ppbv	98
36) Benzene	3.661	78	415823	13.725	ppbv	99
37) 1,2-Dichloroethane	3.221	62	241983	13.865	ppbv	98
38) Trichloroethene	4.551	130	159136	12.590	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147155	13.274	ppbv	95
40) 1,4-Dioxane	4.580	88	65323	13.180	ppbv #	94
41) Tetrahydrofuran	3.052	42	160247	13.200	ppbv	99
42) Bromodichloromethane	4.493	83	343817	14.234	ppbv	99
43) Methyl Methacrylate	4.881	69	210756	13.633	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	675770	13.340	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	218386	14.142	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

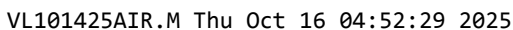
Response via : Initial Calibration

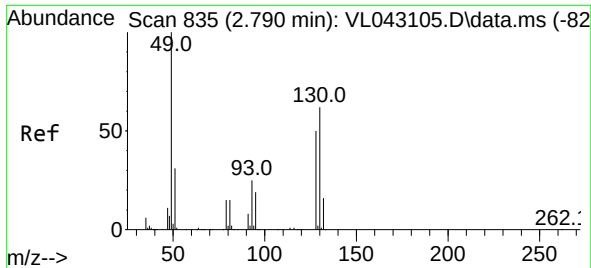
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	258355	14.018	ppbv	98
47) 1,1,2-Trichloroethane	6.583	97	163113	13.638	ppbv	94
48) Dibromochloromethane	7.393	129	280993	14.051	ppbv	100
49) Bromoform	9.487	173	230561	14.184	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	401849	13.396	ppbv	100
51) 2-Hexanone	7.435	43	317288	14.176	ppbv #	99
52) Tetrachloroethene	8.231	164	143954	13.177	ppbv	98
53) Toluene	6.936	91	483870	13.457	ppbv	100
54) 1,2-Dibromoethane	7.655	107	254024	13.461	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	250303	13.573	ppbv	99
57) Chlorobenzene	8.927	112	355301	12.983	ppbv	98
58) Ethyl Benzene	9.357	91	676918	13.375	ppbv	97
59) m/p-Xylene	9.555	91	1061952m	26.498	ppbv	
60) o-Xylene	9.966	91	516660	13.063	ppbv	99
61) Styrene	9.875	104	247585	13.867	ppbv	99
62) Isopropylbenzene	10.542	105	931508	13.034	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	331423	12.515	ppbv	100
64) n-propylbenzene	10.992	120	241719	12.775	ppbv	96
65) tert-Butylbenzene	11.532	119	788234	12.490	ppbv	97
66) Benzyl Chloride	11.620	91	97114	13.778	ppbv	99
67) sec-Butylbenzene	11.769	105	1125489	12.566	ppbv	99
69) p-Isopropyltoluene	11.930	119	959206	12.602	ppbv	99
70) n-Butylbenzene	12.283	91	973466	12.979	ppbv	100
71) 2-Chlorotoluene	10.904	91	721827	13.242	ppbv	98
72) 4-Ethyltoluene	11.128	105	647315	13.310	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	534006	13.314	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	560932	12.498	ppbv #	86
75) 1,3-Dichlorobenzene	11.610	146	339203	13.031	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	341936	13.027	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	318800	12.660	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	226294	11.606	ppbv	99
79) Naphthalene	13.516	128	661098	14.260	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	212784	17.384	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	266712	13.698	ppbv	100

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

Manual Integrations APPROVED

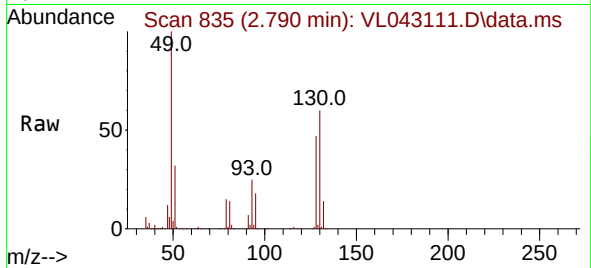
Quant Time: Oct 15 01:55:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

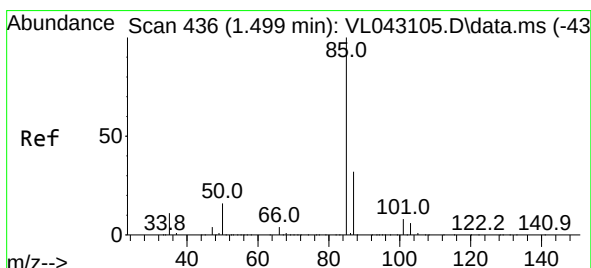
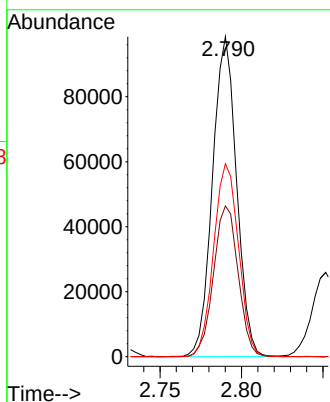
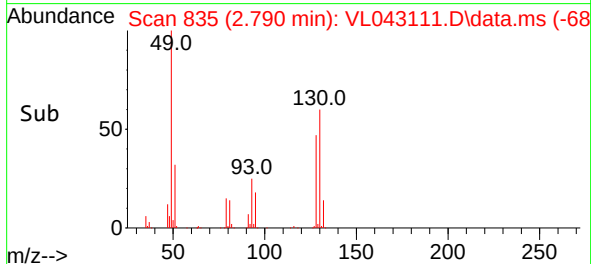
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



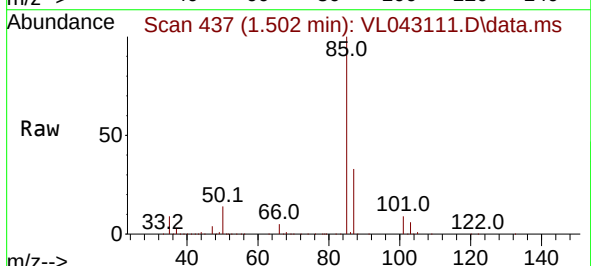
Tgt Ion: 49 Resp: 100858
Ion Ratio Lower Upper
49 100
128 48.4 24.4 73.4
130 62.4 31.0 93.0

Manual Integrations
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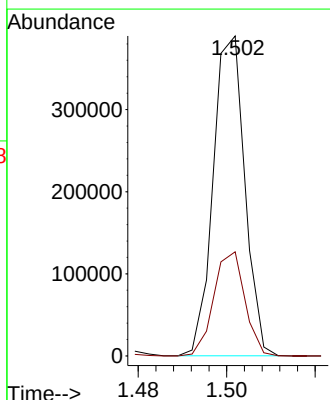
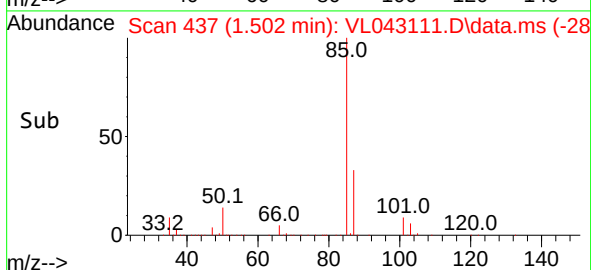
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

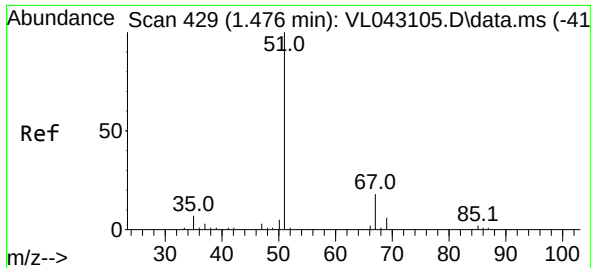


#2
Dichlorodifluoromethane
Concen: 13.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



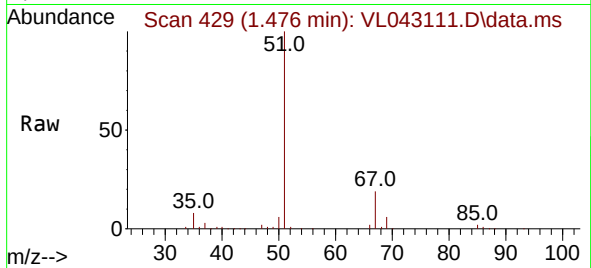
Tgt Ion: 85 Resp: 193353
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 13.255 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

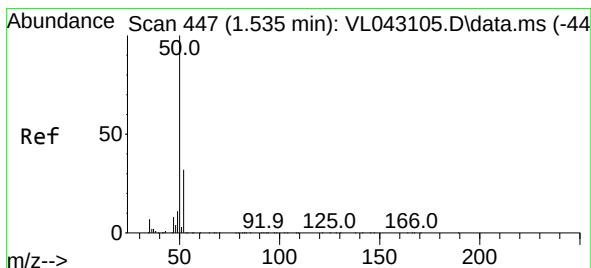
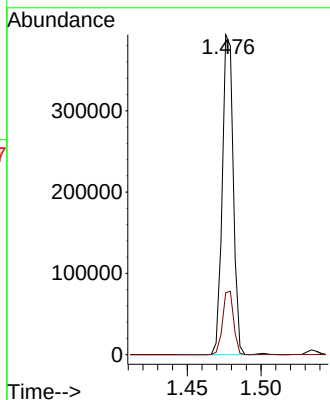
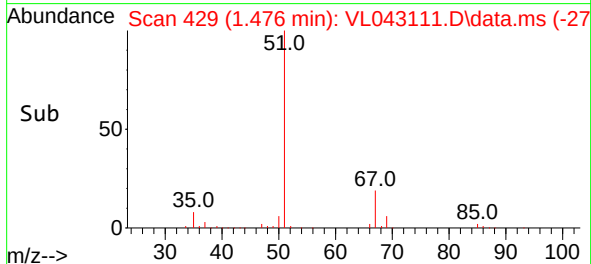
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 51 Resp: 205650
Ion Ratio Lower Upper
51 100
67 20.0 15.1 22.7

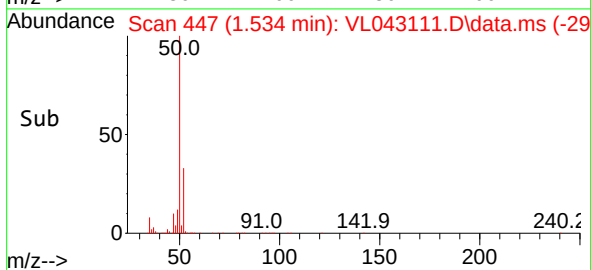
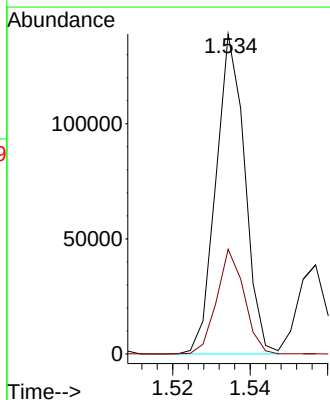
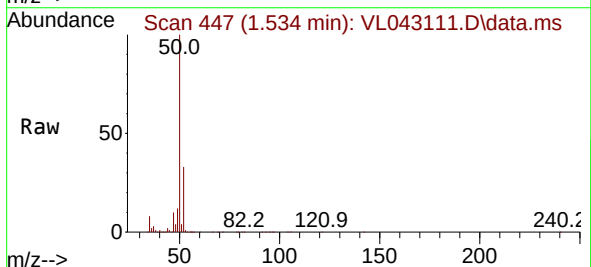
Manual Integrations
APPROVED

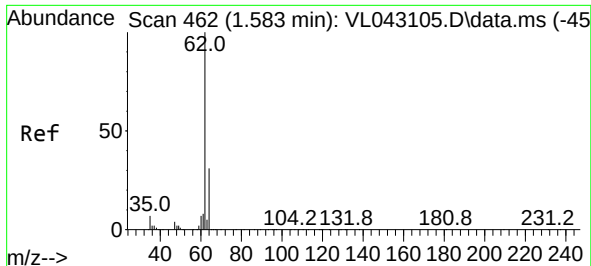
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 12.695 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

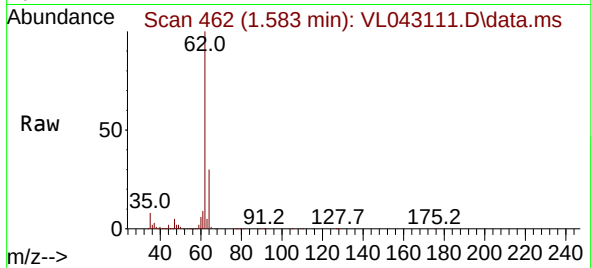
Tgt Ion: 50 Resp: 72111
Ion Ratio Lower Upper
50 100
52 32.7 25.2 37.8





#5
 Vinyl Chloride
 Concen: 12.548 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

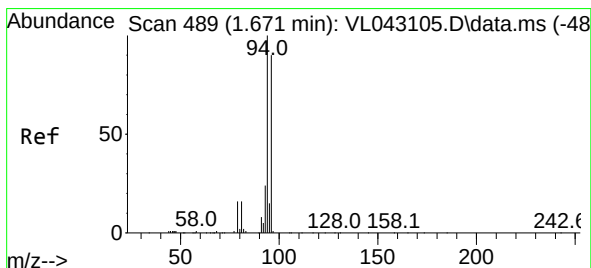
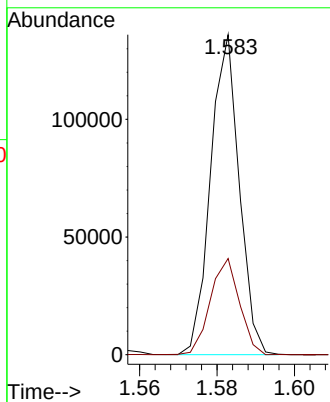
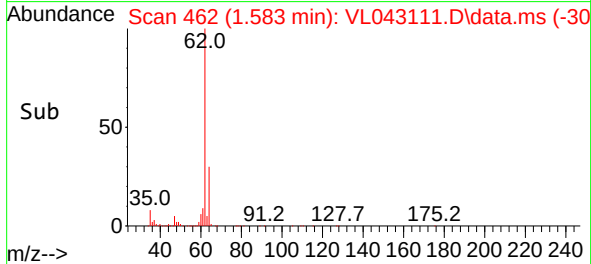
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



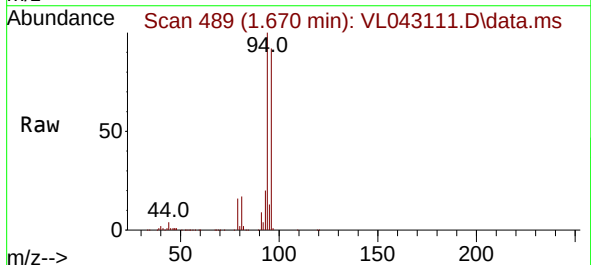
Tgt Ion: 62 Resp: 69909
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.6 36.8

Manual Integrations
 APPROVED

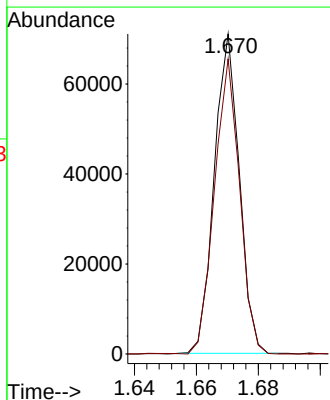
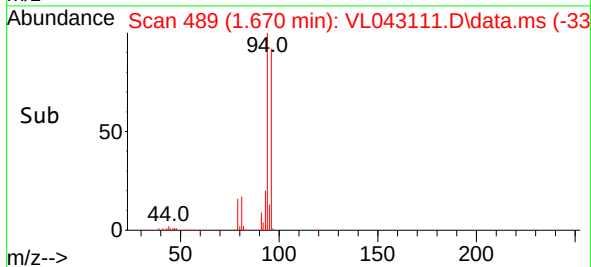
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

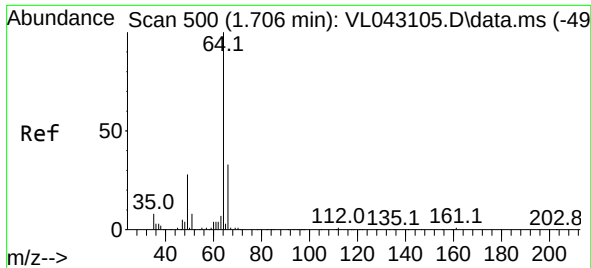


#6
 Bromomethane
 Concen: 13.013 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18



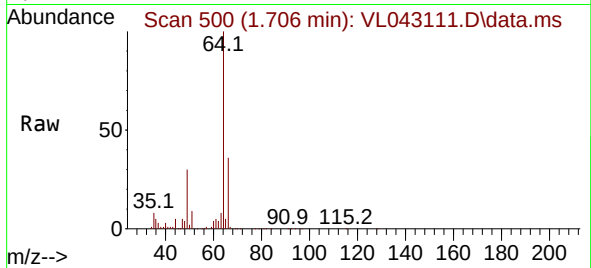
Tgt Ion: 94 Resp: 39756
 Ion Ratio Lower Upper
 94 100
 96 92.4 72.2 108.4





#7
Chloroethane
Concen: 12.164 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

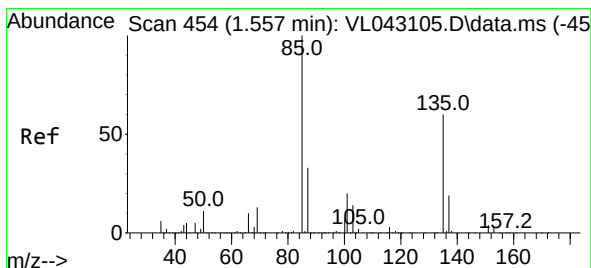
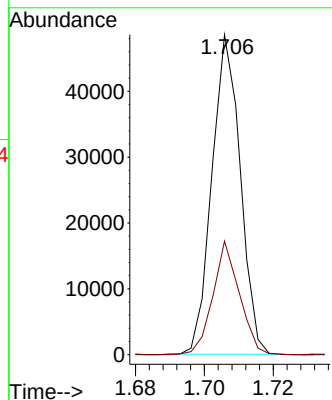
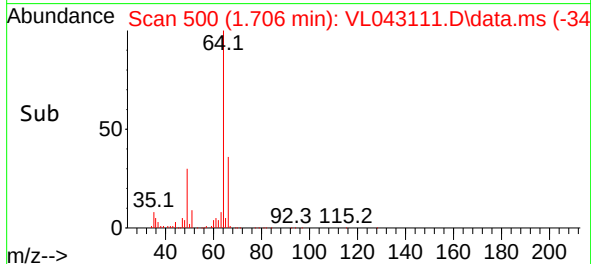
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 64 Resp: 27709
Ion Ratio Lower Upper
64 100
66 35.5 26.0 39.0

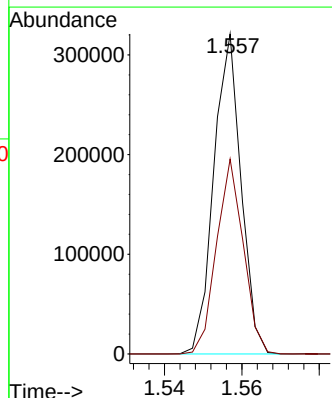
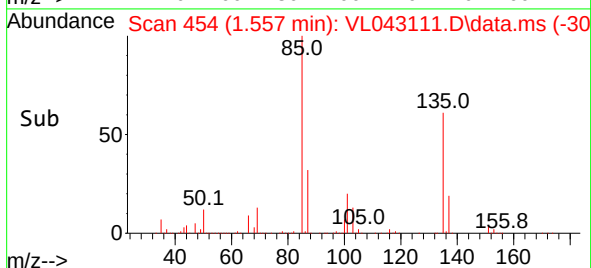
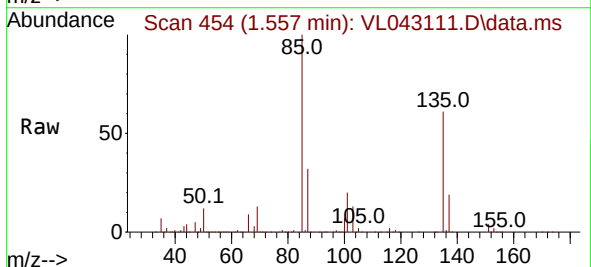
Manual Integrations
APPROVED

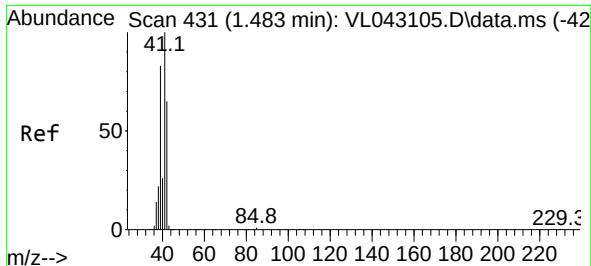
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 13.526 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 156753
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 12.854 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 8845

Ion Ratio Lower Upper

41 100

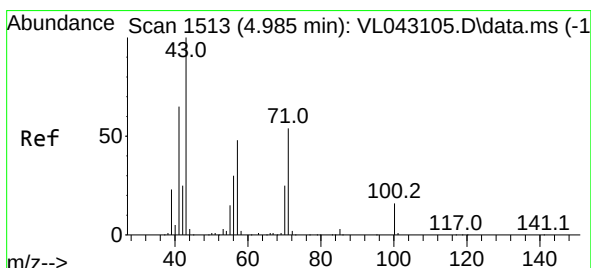
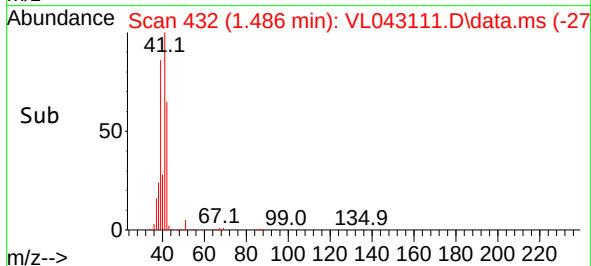
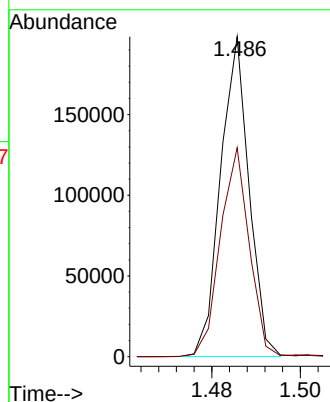
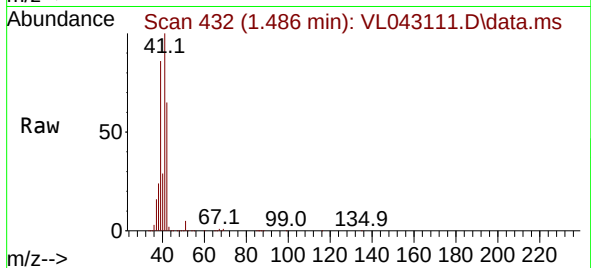
42 67.2 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 12.658 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043111.D

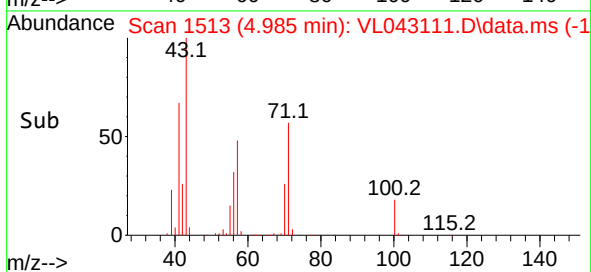
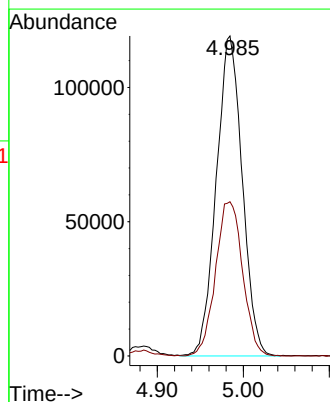
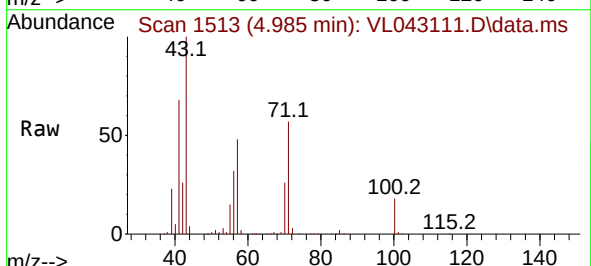
Acq: 14 Oct 2025 14:18

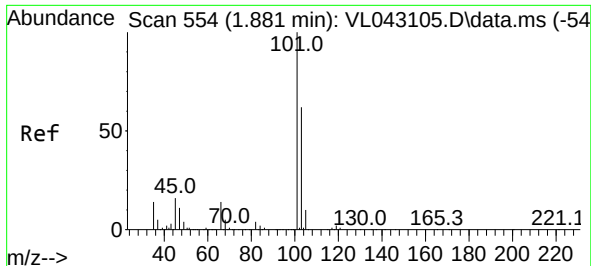
Tgt Ion: 43 Resp: 249682

Ion Ratio Lower Upper

43 100

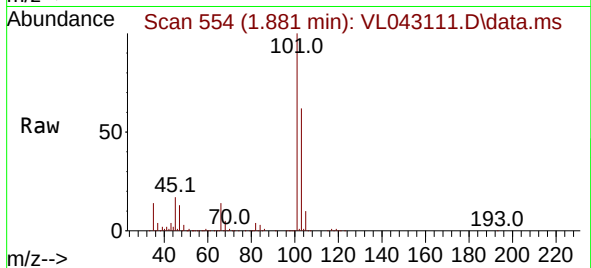
57 50.3 40.8 61.2





#11
Trichlorofluoromethane
Concen: 13.640 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

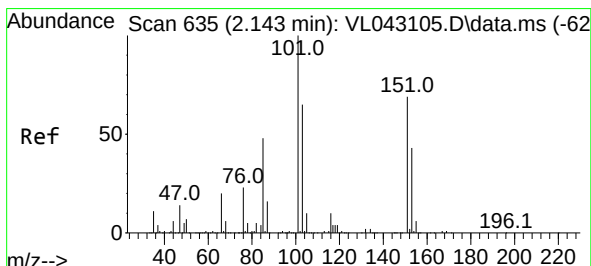
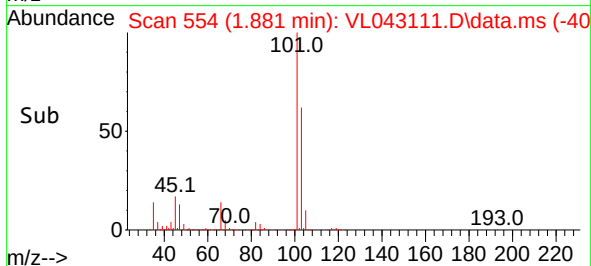
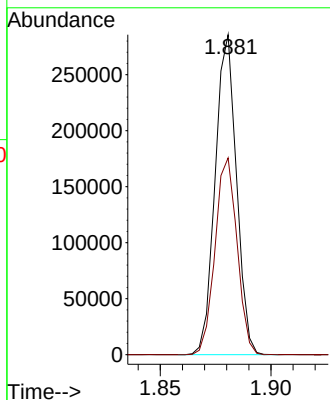
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:101 Resp: 191307
Ion Ratio Lower Upper
101 100
103 61.5 49.3 73.9

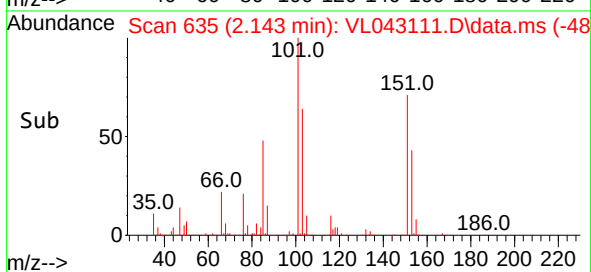
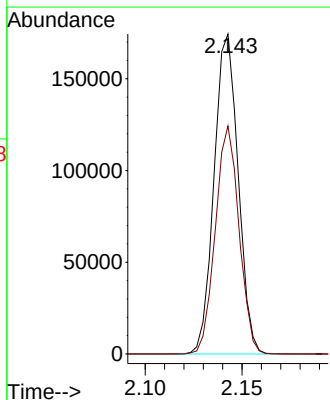
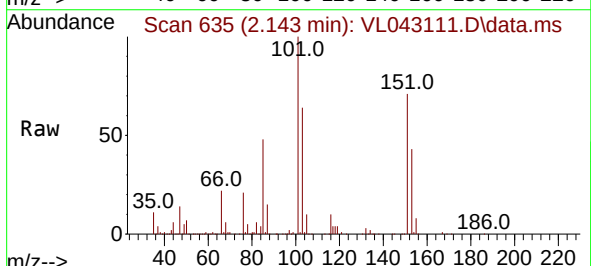
Manual Integrations
APPROVED

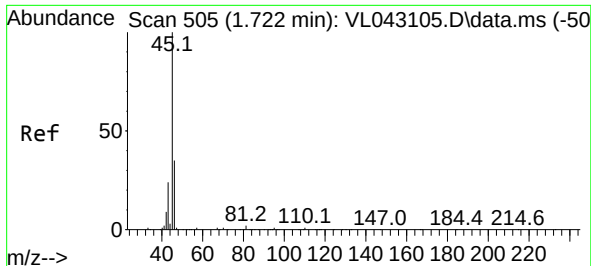
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.341 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

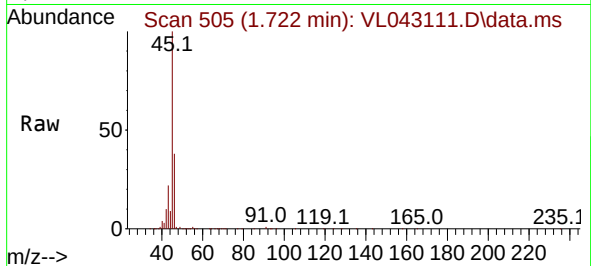
Tgt Ion:101 Resp: 150640
Ion Ratio Lower Upper
101 100
151 70.0 54.7 82.1





#13
Ethanol
Concen: 10.148 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

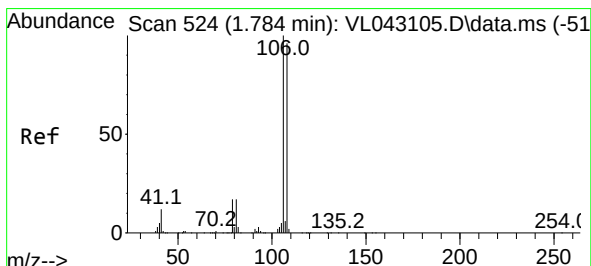
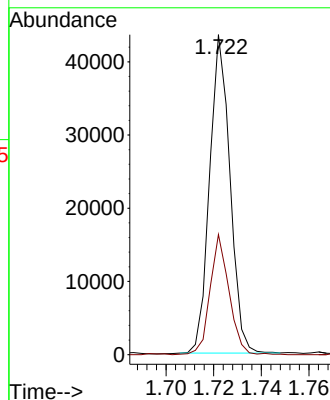
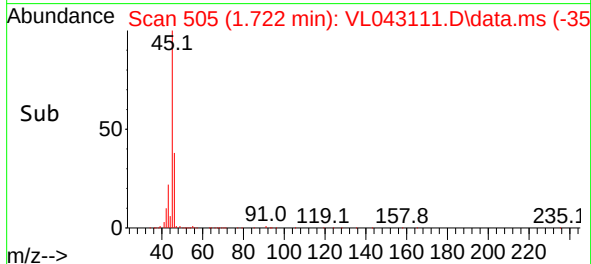
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



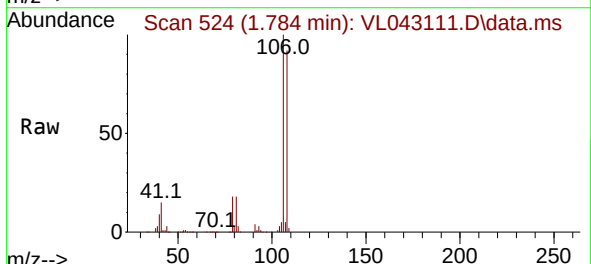
Tgt Ion: 45 Resp: 25828
Ion Ratio Lower Upper
45 100
46 35.5 14.7 58.9

Manual Integrations
APPROVED

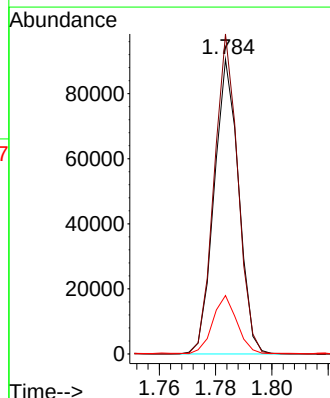
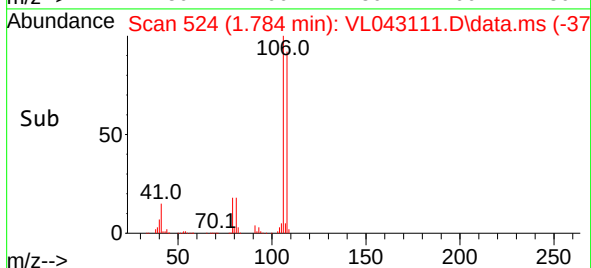
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

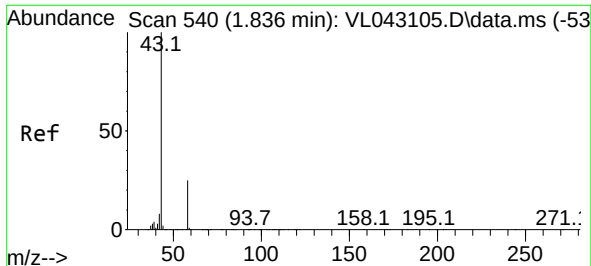


#14
Bromoethene
Concen: 13.068 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



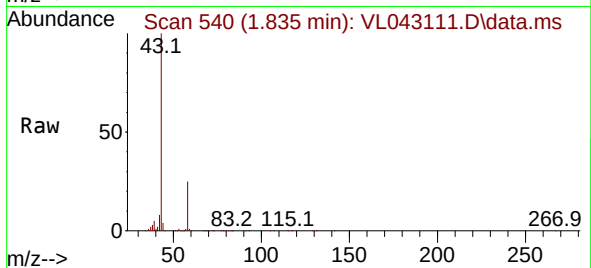
Tgt Ion:108 Resp: 54818
Ion Ratio Lower Upper
108 100
106 104.9 84.4 126.6
79 20.2 15.3 22.9





#15
Acetone
Concen: 11.710 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

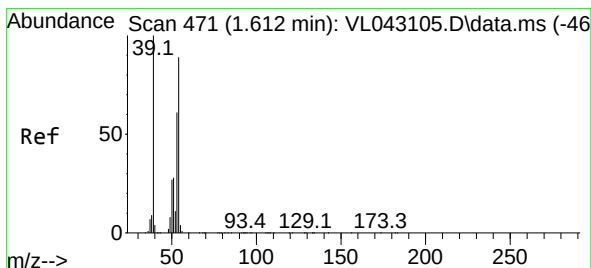
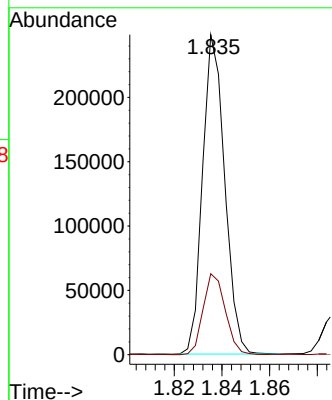
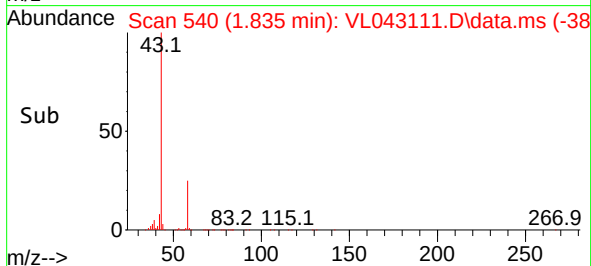
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 160069
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2

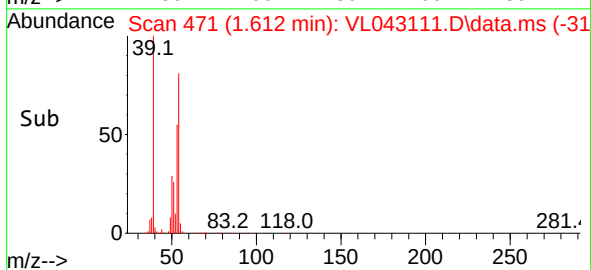
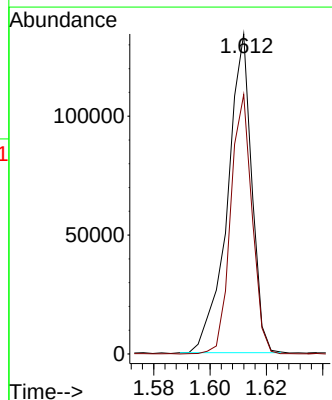
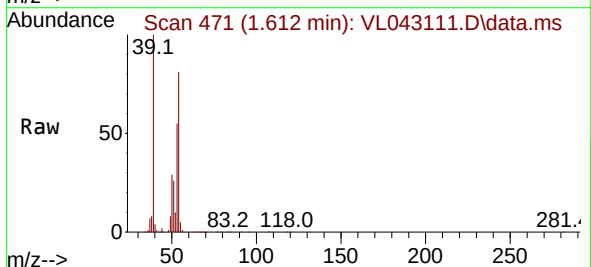
Manual Integrations
APPROVED

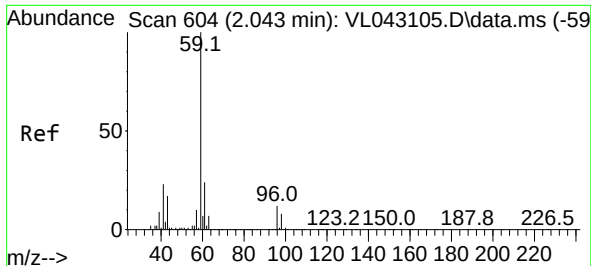
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 12.411 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403
Ion Ratio Lower Upper
39 100
54 71.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 12.735 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 59 Resp: 23763

Ion Ratio Lower Upper

59 100

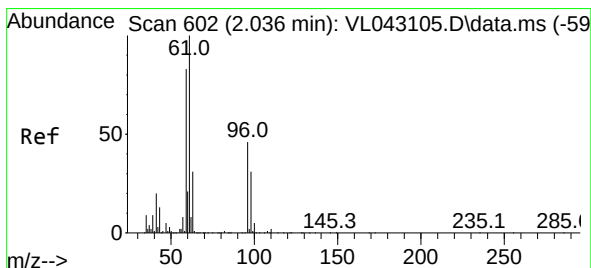
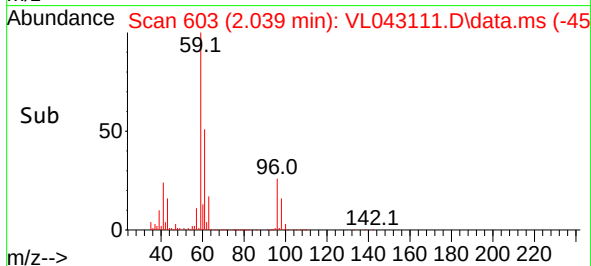
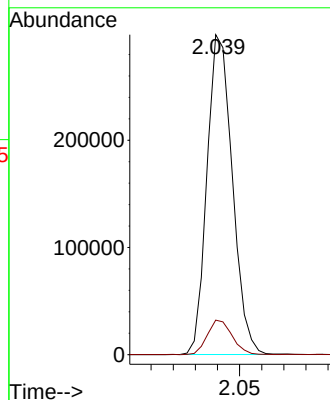
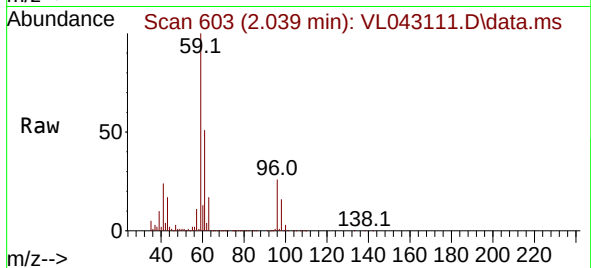
57 10.6 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

1,1-Dichloroethene

Concen: 13.333 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

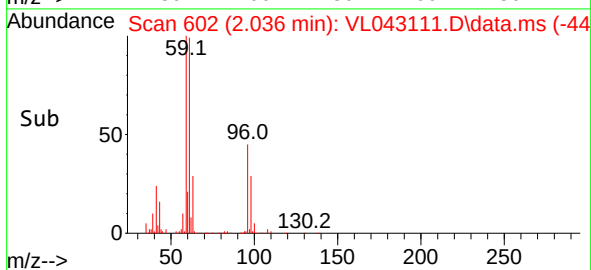
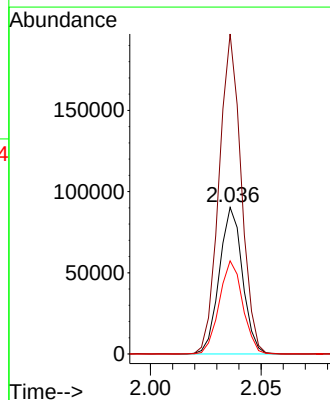
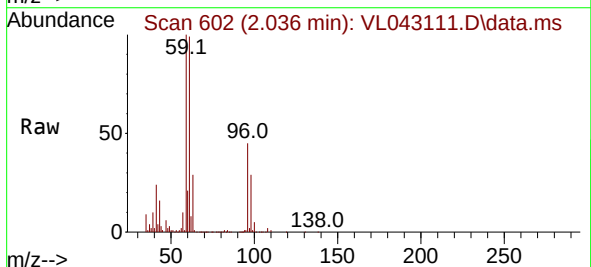
Tgt Ion: 96 Resp: 65634

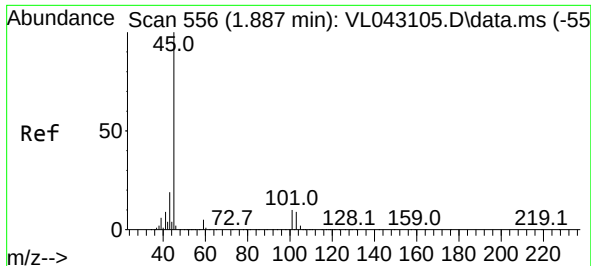
Ion Ratio Lower Upper

96 100

61 218.2 173.4 260.0

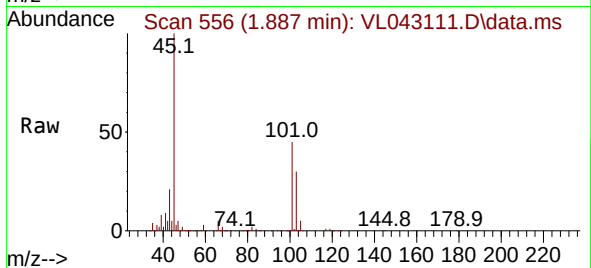
98 63.5 53.2 79.8





#19
Isopropyl Alcohol
Concen: 12.051 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

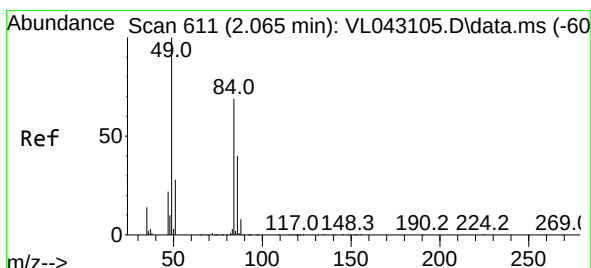
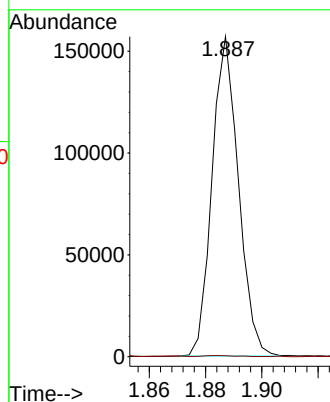
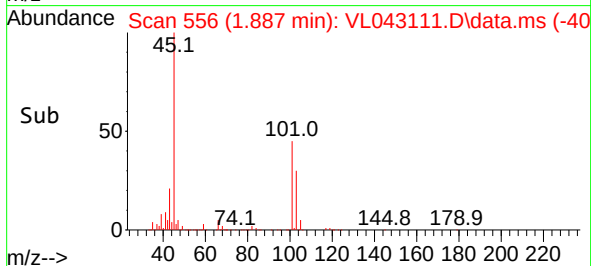
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



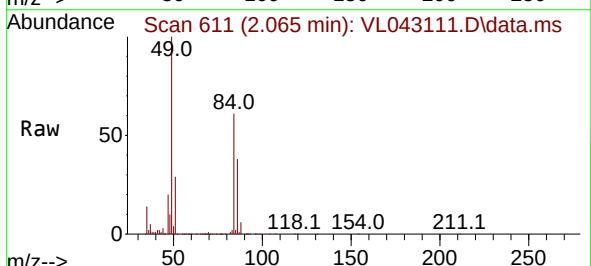
Tgt Ion: 45 Resp: 102035
Ion Ratio Lower Upper
45 100
58 40.2 31.3 46.9

Manual Integrations
APPROVED

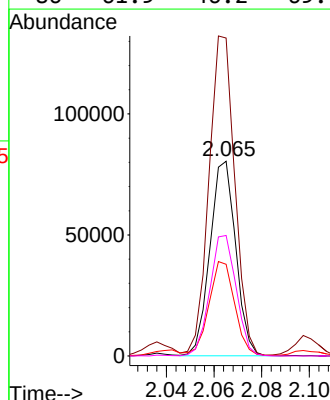
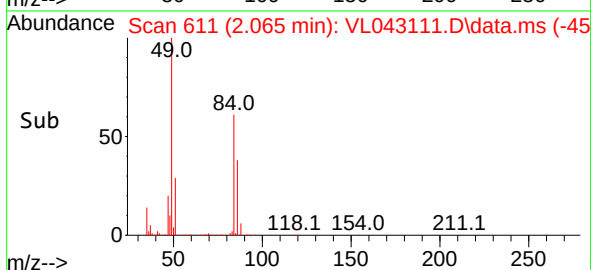
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

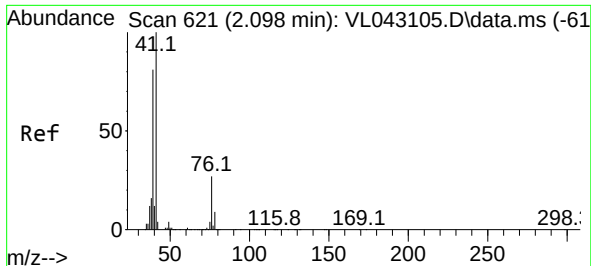


#20
Methylene Chloride
Concen: 11.268 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion: 84 Resp: 60549
Ion Ratio Lower Upper
84 100
49 162.4 116.6 175.0
51 46.6 34.8 52.2
86 61.9 46.2 69.4





#21
 Allyl Chloride
 Concen: 13.105 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

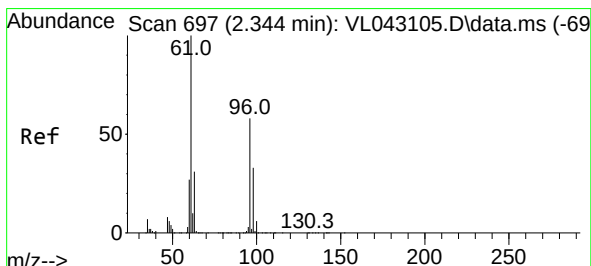
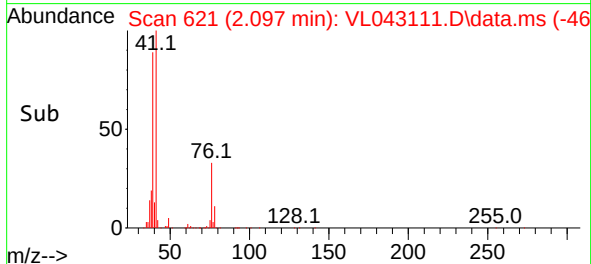
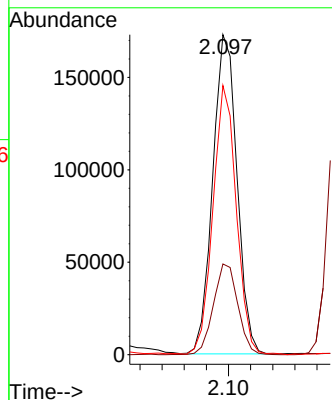
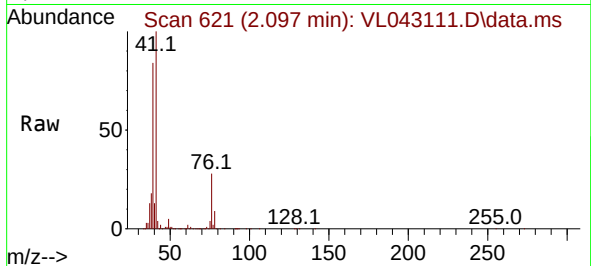
VSTDICC015

Tgt Ion: 41 Resp: 131539
 Ion Ratio Lower Upper
 41 100
 76 28.8 21.5 32.3
 39 80.9 60.8 91.2

Manual Integrations

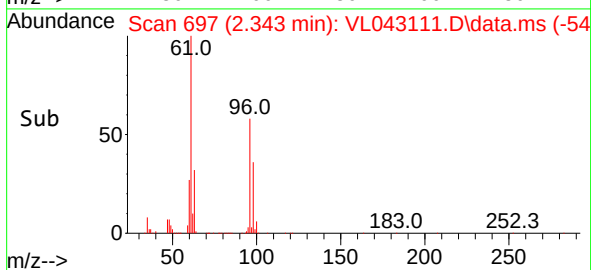
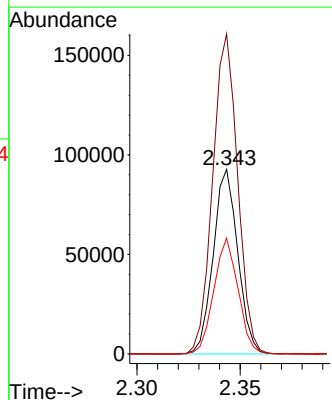
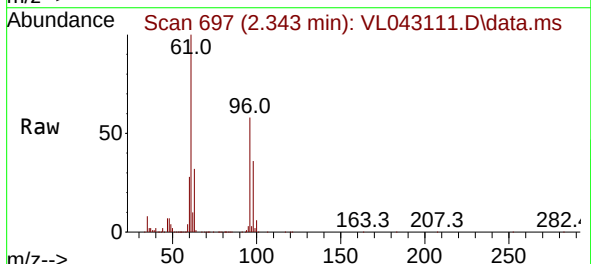
APPROVED

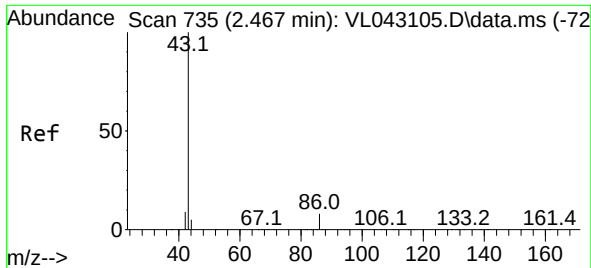
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 13.048 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

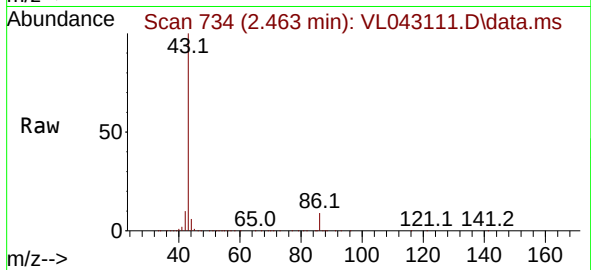
Tgt Ion: 96 Resp: 76780
 Ion Ratio Lower Upper
 96 100
 61 173.2 137.0 205.6
 98 62.8 45.5 68.3





#23
 Vinyl Acetate
 Concen: 14.476 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

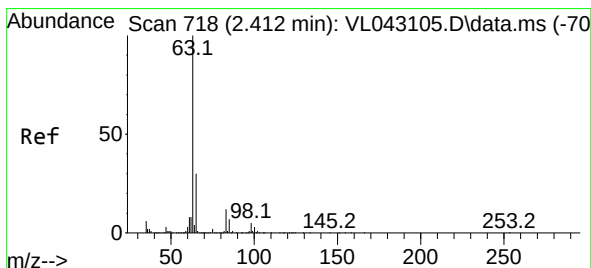
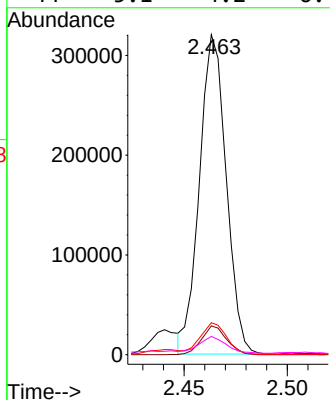
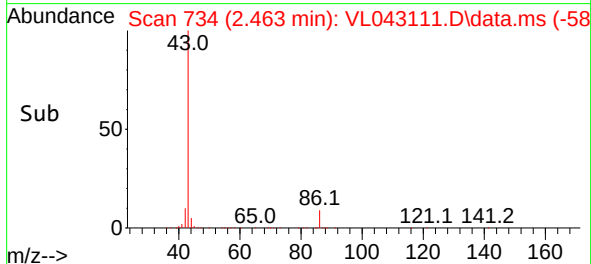
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



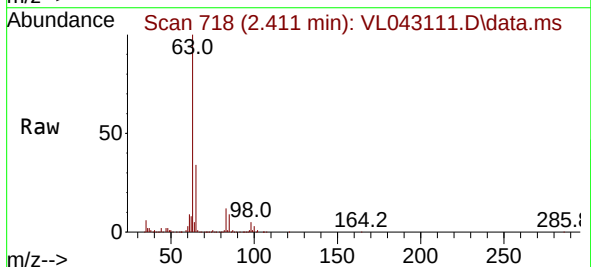
Tgt Ion: 43 Resp: 288274
 Ion Ratio Lower Upper
 43 100
 86 9.0 6.2 9.2
 42 10.0 7.6 11.4
 44 5.1 4.2 6.4

Manual Integrations
 APPROVED

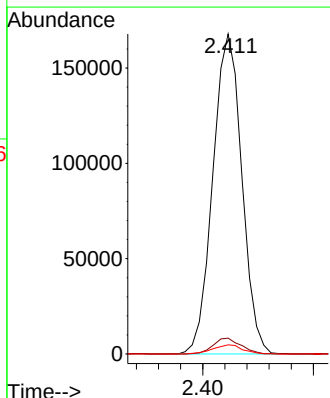
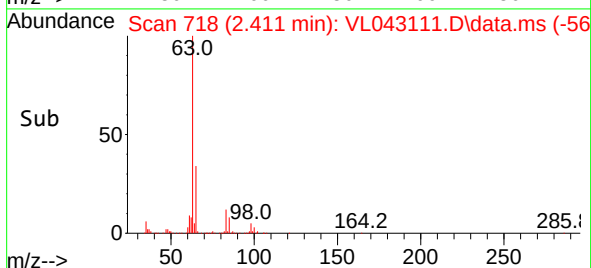
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

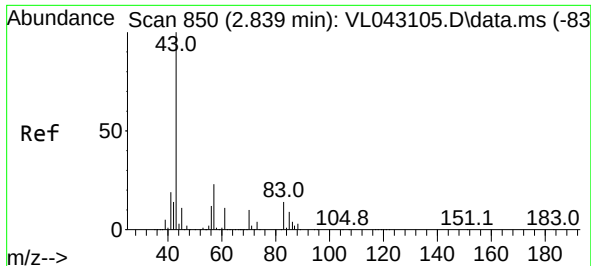


#24
 1,1-Dichloroethane
 Concen: 13.428 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18



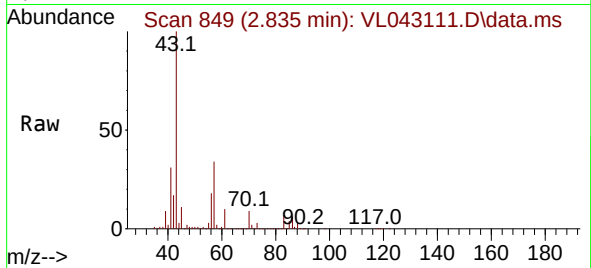
Tgt Ion: 63 Resp: 152663
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.6 7.8
 100 2.8 1.5 4.4





#25
Ethyl Acetate
Concen: 12.884 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

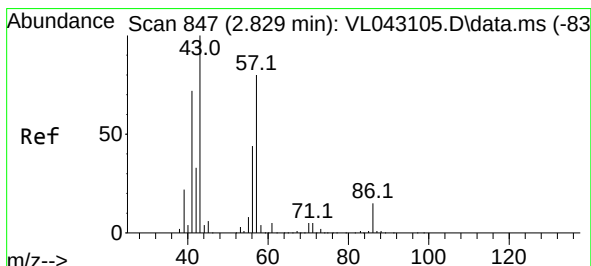
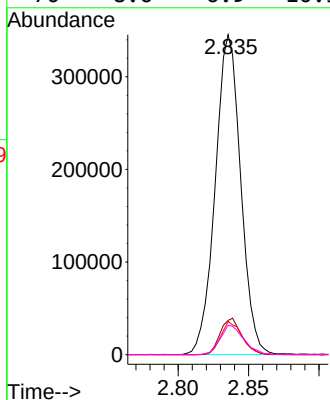
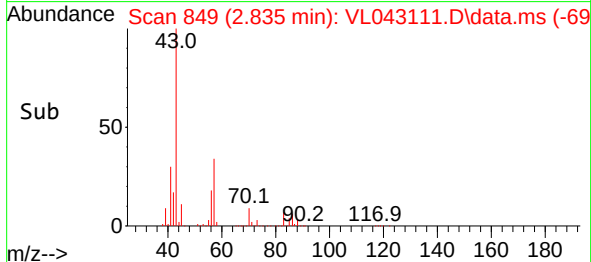
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



Tgt Ion: 43 Resp: 434350
Ion Ratio Lower Upper
43 100
45 9.8 7.8 11.8
61 8.9 7.0 10.6
70 8.6 6.9 10.3

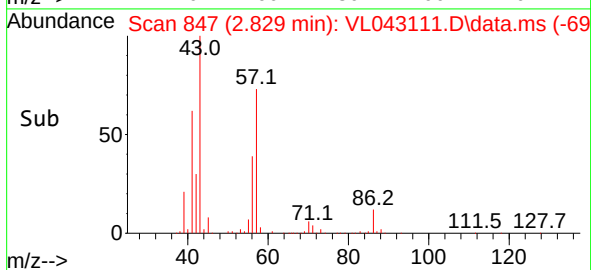
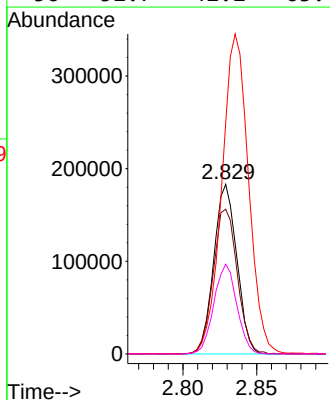
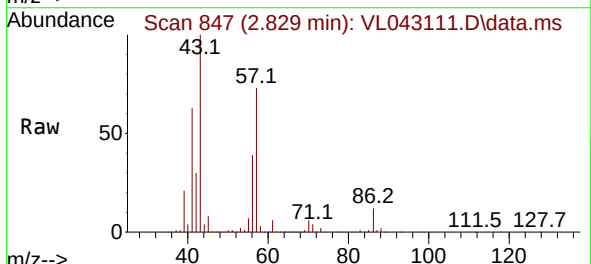
Manual Integrations
APPROVED

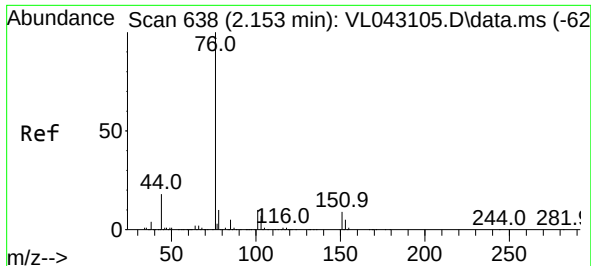
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 12.836 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

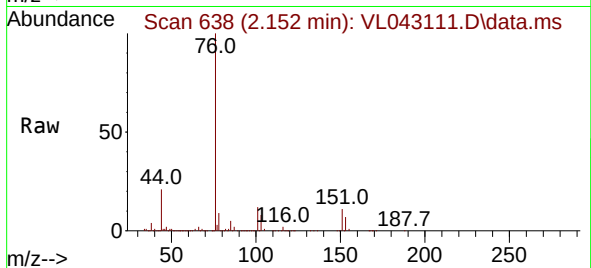
Tgt Ion: 57 Resp: 199384
Ion Ratio Lower Upper
57 100
41 89.9 71.4 107.0
43 218.2 178.5 267.7
56 52.7 42.2 63.4





#27
Carbon Disulfide
Concen: 13.522 ppbv
RT: 2.152 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

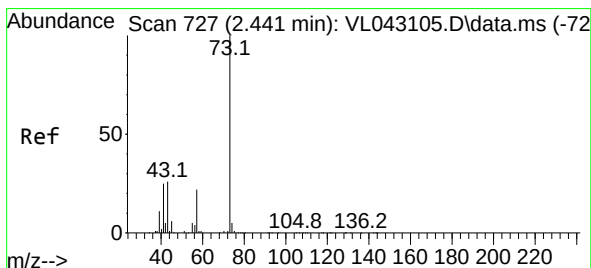
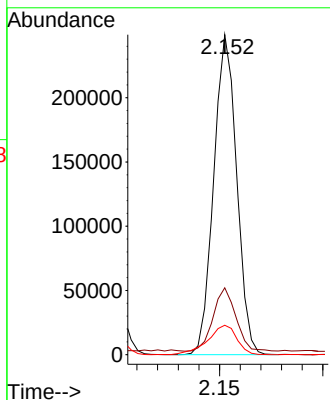
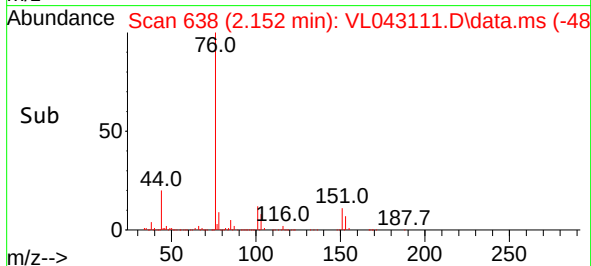
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 76 Resp: 192452
Ion Ratio Lower Upper
76 100
44 20.6 16.7 25.1
78 11.6 9.3 13.9

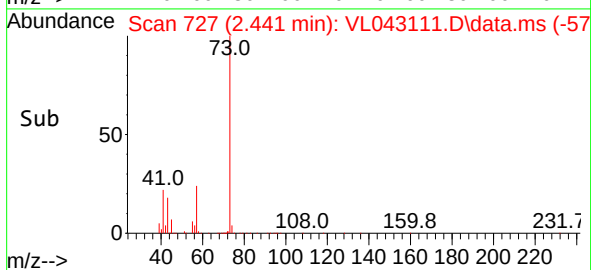
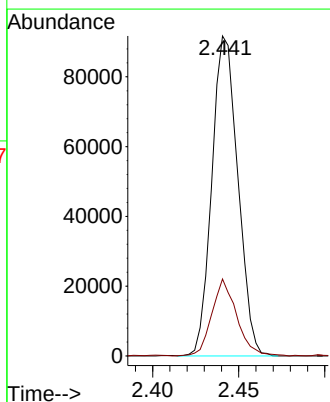
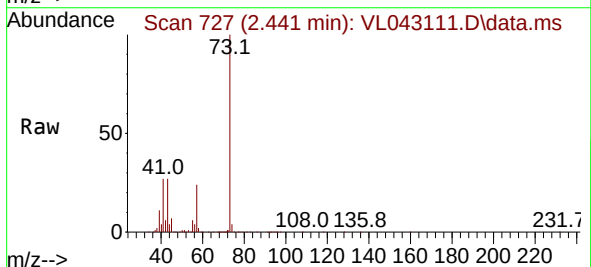
Manual Integrations
APPROVED

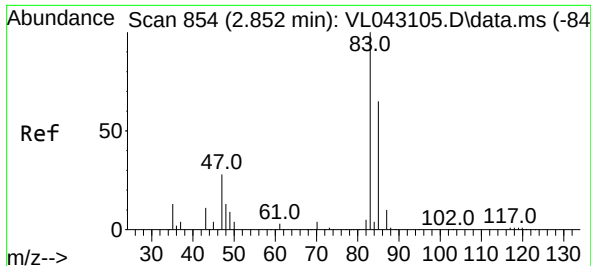
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 13.650 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

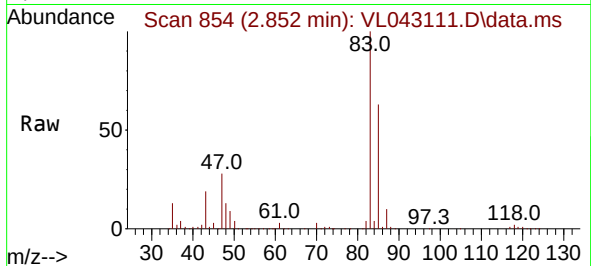
Tgt Ion: 73 Resp: 96464
Ion Ratio Lower Upper
73 100
57 22.7 20.5 30.7





#29
Chloroform
Concen: 13.425 ppbv
RT: 2.852 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

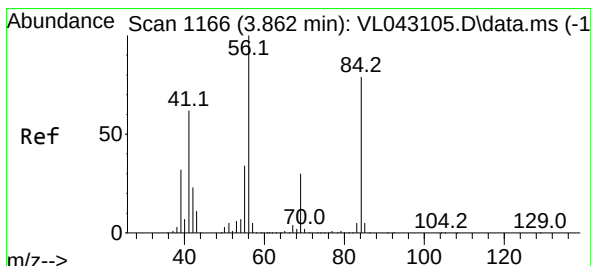
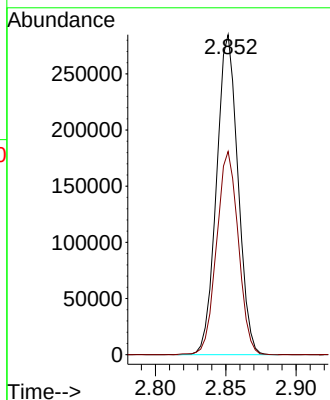
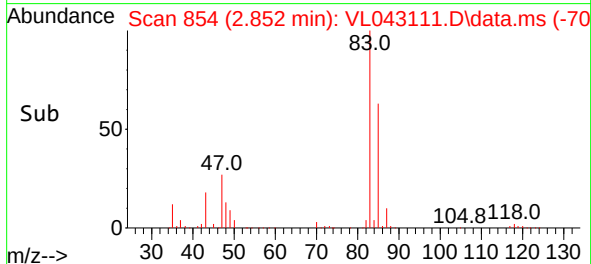
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



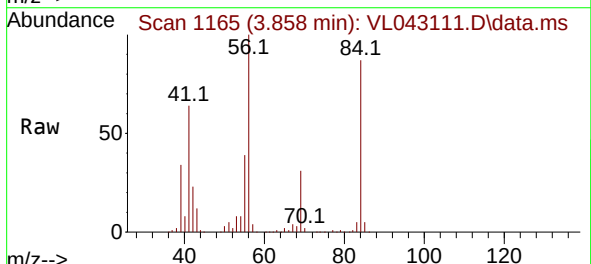
Tgt Ion: 83 Resp: 302154
Ion Ratio Lower Upper
83 100
85 63.5 51.8 77.6

Manual Integrations
APPROVED

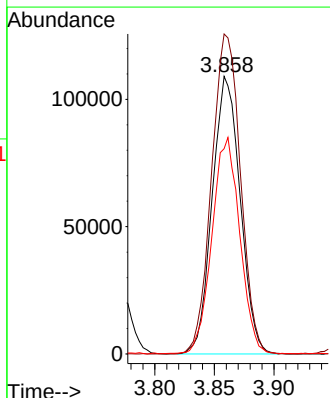
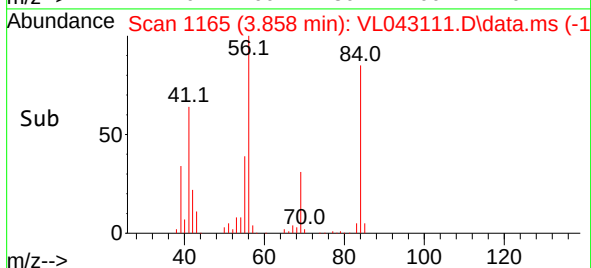
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

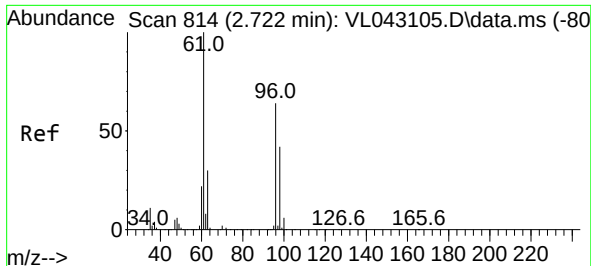


#30
Cyclohexane
Concen: 13.133 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion: 84 Resp: 177947
Ion Ratio Lower Upper
84 100
56 119.1 100.9 151.3
41 77.3 63.8 95.6





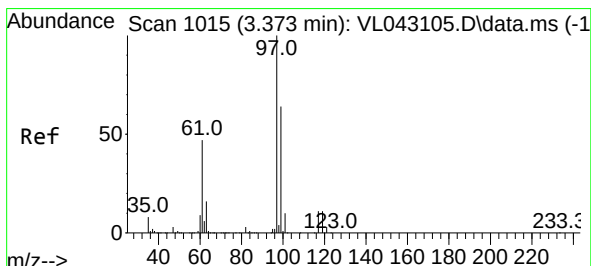
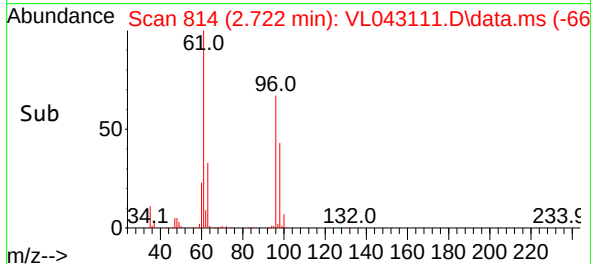
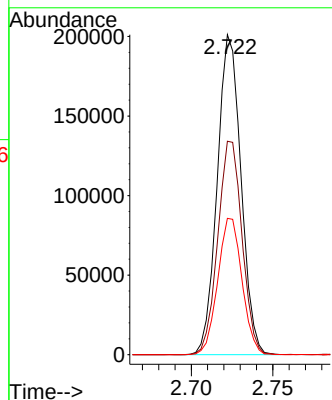
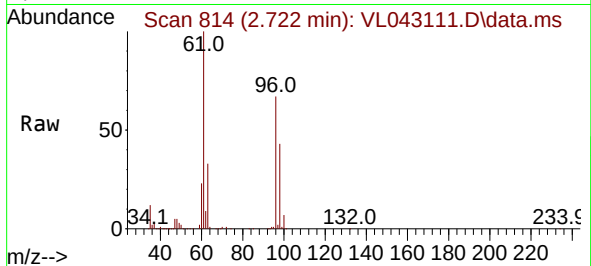
#31
 cis-1,2-Dichloroethene
 Concen: 13.745 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Tgt Ion: 61 Resp: 20388
 Ion Ratio Lower Upper
 61 100
 96 66.7 51.0 76.6
 98 42.6 33.5 50.3

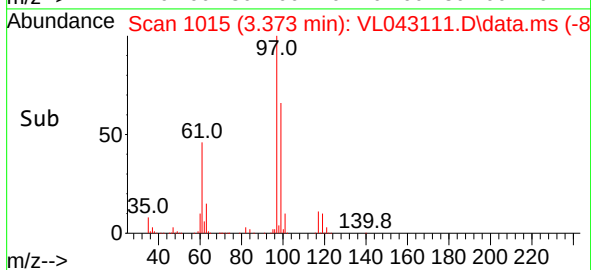
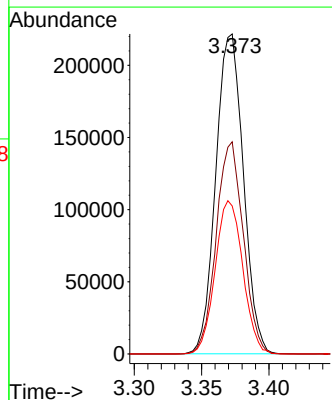
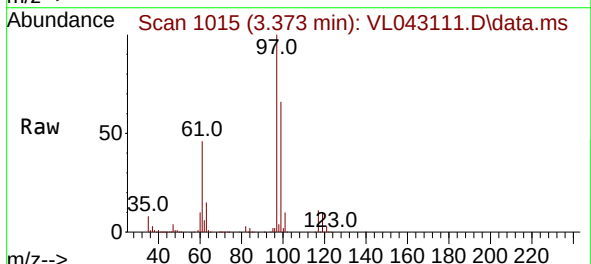
Manual Integrations
 APPROVED

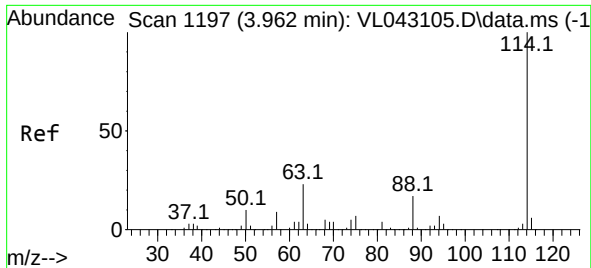
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 13.500 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 97 Resp: 316442
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.3 76.9
 61 48.0 38.4 57.6





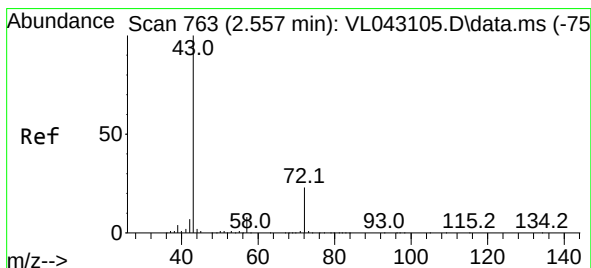
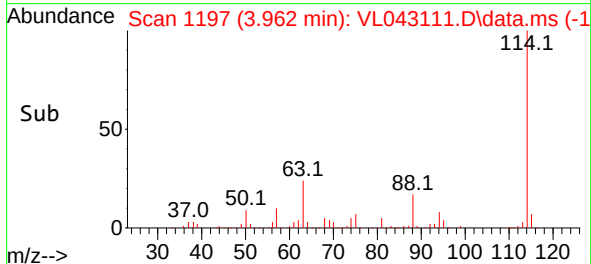
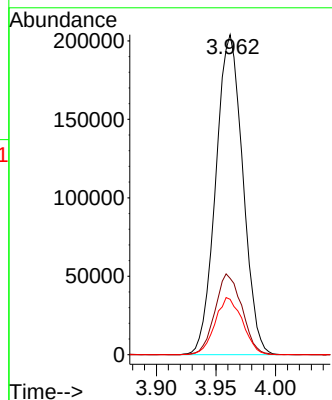
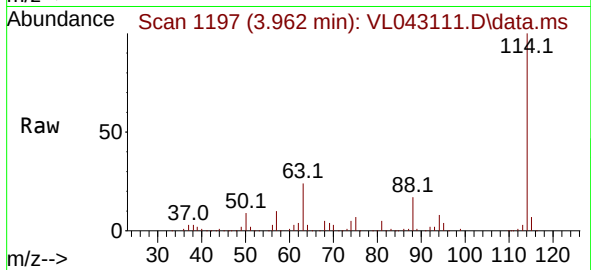
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:114 Resp: 32166
Ion Ratio Lower Upper
114 100
63 25.1 19.3 28.9
88 18.1 13.9 20.9

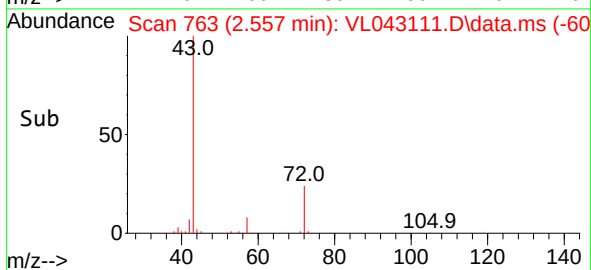
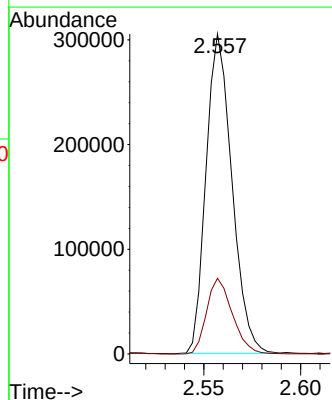
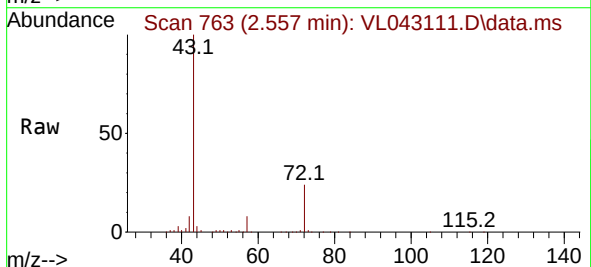
Manual Integrations
APPROVED

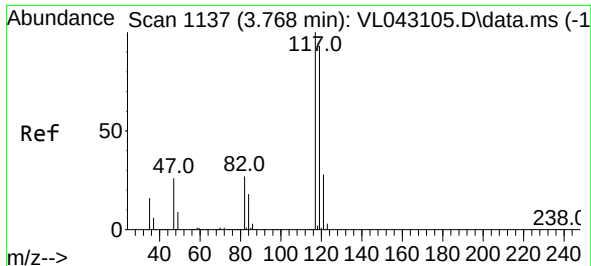
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#34
2-Butanone
Concen: 13.020 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

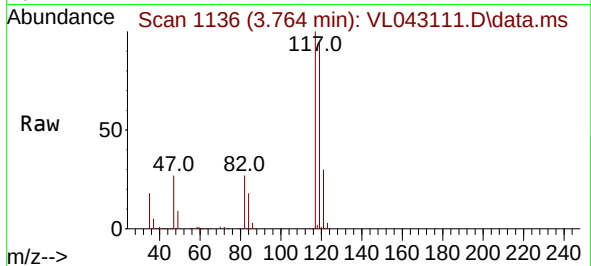
Tgt Ion: 43 Resp: 283134
Ion Ratio Lower Upper
43 100
72 23.6 18.4 27.6





#35
Carbon Tetrachloride
Concen: 14.056 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

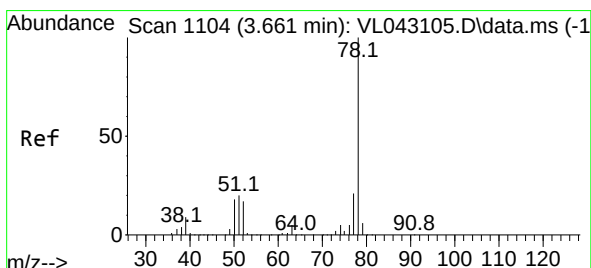
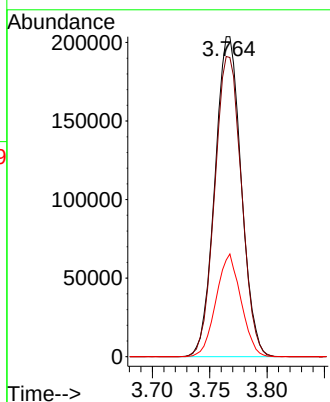
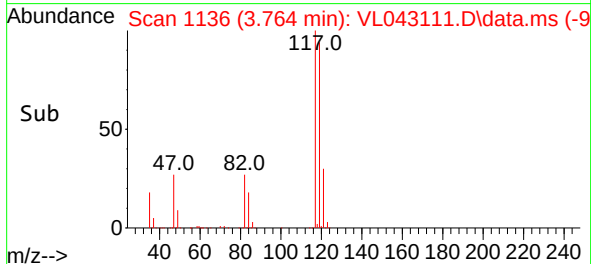
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 117 Resp: 325078
Ion Ratio Lower Upper
117 100
119 93.8 74.1 111.1
121 30.2 22.2 33.2

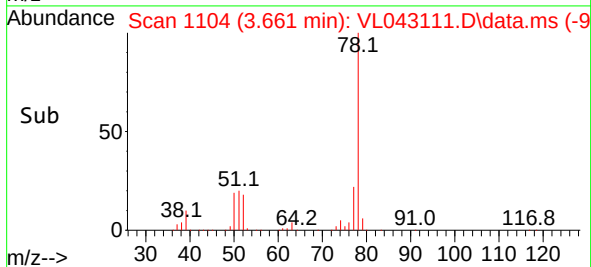
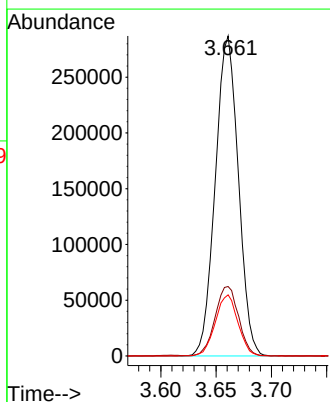
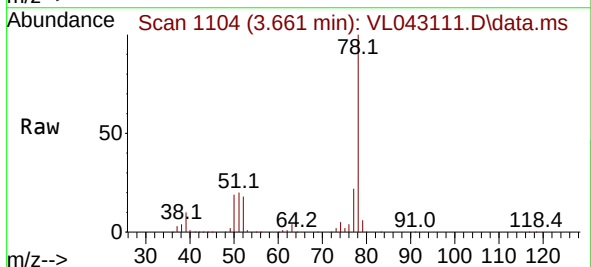
Manual Integrations
APPROVED

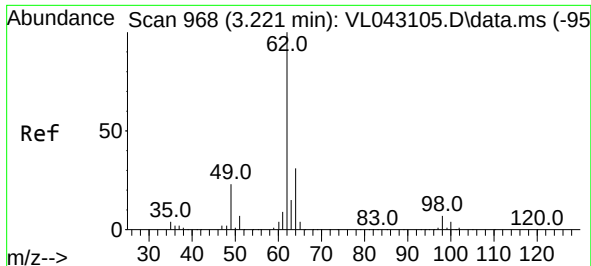
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 13.725 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

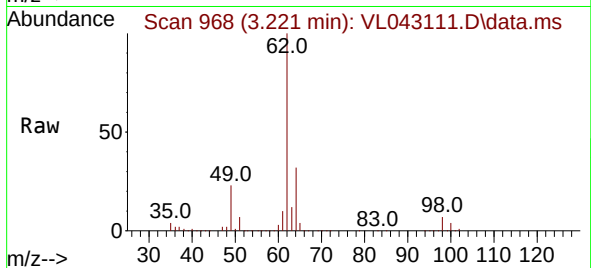
Tgt Ion: 78 Resp: 415823
Ion Ratio Lower Upper
78 100
77 21.6 17.0 25.6
50 19.1 14.6 22.0





#37
1,2-Dichloroethane
Concen: 13.865 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

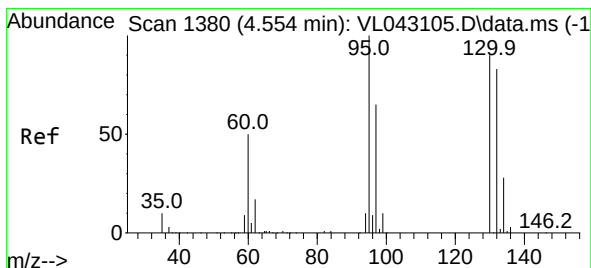
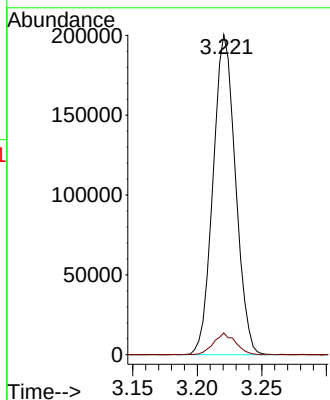
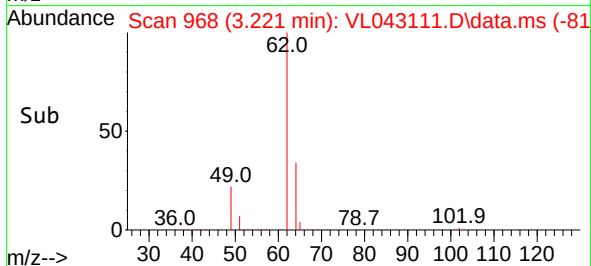
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



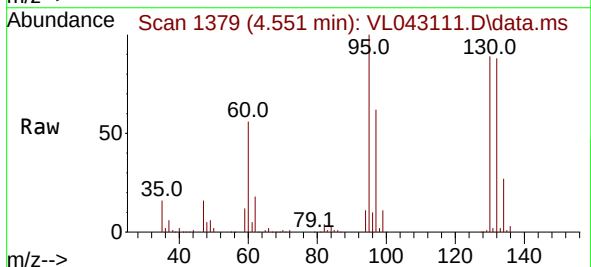
Tgt Ion: 62 Resp: 24198
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6

Manual Integrations
APPROVED

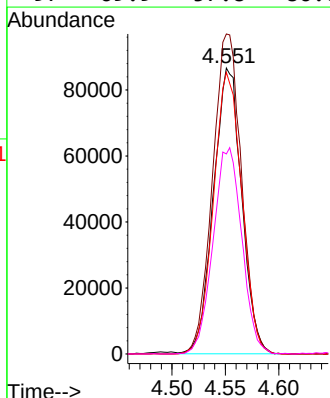
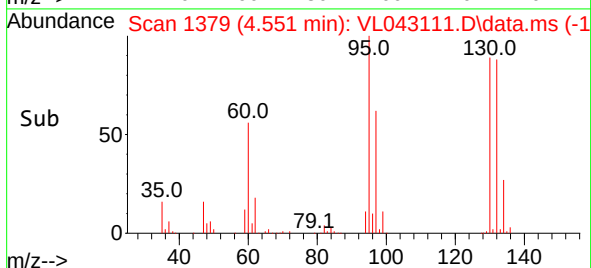
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

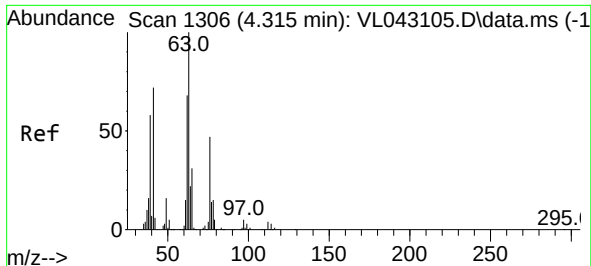


#38
Trichloroethene
Concen: 12.590 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



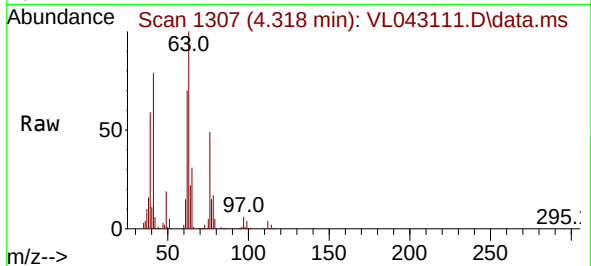
Tgt Ion:130 Resp: 159136
Ion Ratio Lower Upper
130 100
95 111.8 88.6 133.0
132 98.5 73.4 110.0
97 69.9 57.8 86.6





#39
 1,2-Dichloropropane
 Concen: 13.274 ppbv
 RT: 4.318 min Scan# 1306
 Delta R.T. 0.003 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

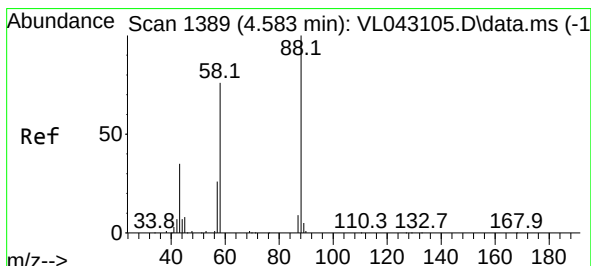
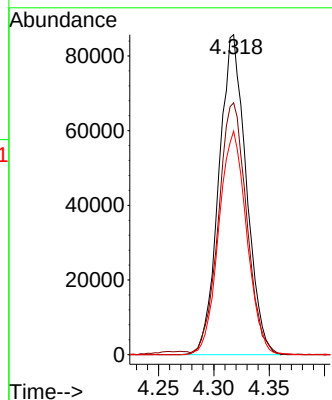
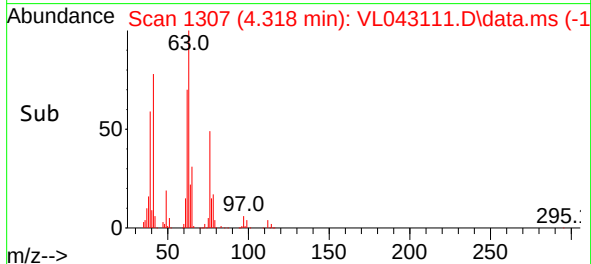
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



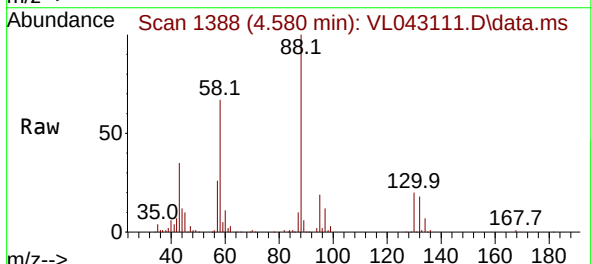
Tgt Ion: 63 Resp: 14715
 Ion Ratio Lower Upper
 63 100
 41 78.4 58.0 87.0
 62 69.9 54.7 82.1

Manual Integrations
 APPROVED

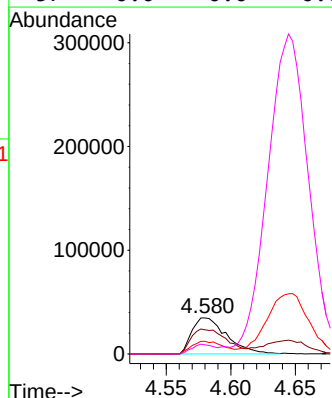
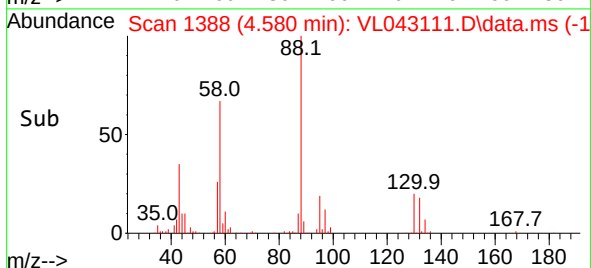
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

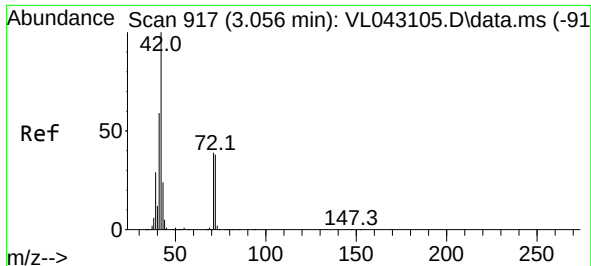


#40
 1,4-Dioxane
 Concen: 13.180 ppbv
 RT: 4.580 min Scan# 1388
 Delta R.T. -0.004 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18



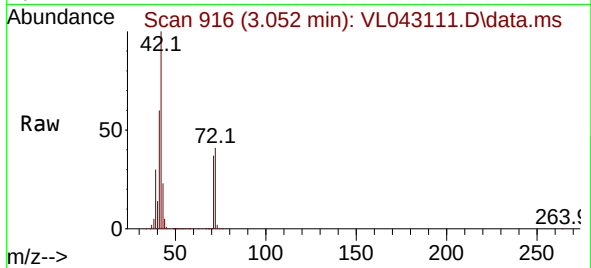
Tgt Ion: 88 Resp: 65323
 Ion Ratio Lower Upper
 88 100
 58 69.1 61.1 91.7
 43 30.0 24.0 36.0
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 13.200 ppbv
RT: 3.052 min Scan# 917
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

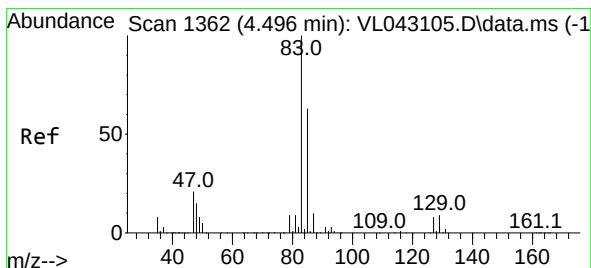
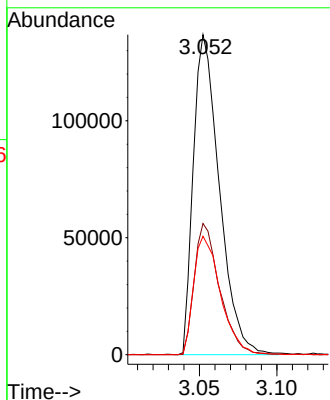
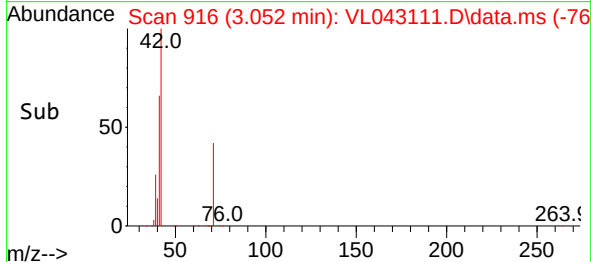
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



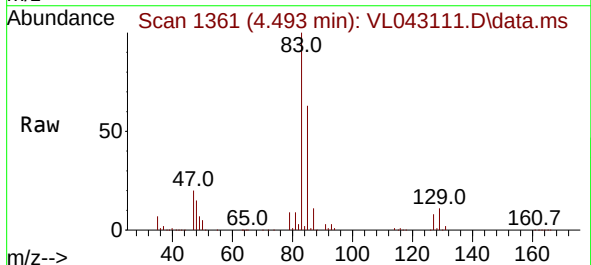
Tgt Ion: 42 Resp: 16024
Ion Ratio Lower Upper
42 100
72 40.0 31.3 46.9
71 38.2 30.4 45.6

Manual Integrations
APPROVED

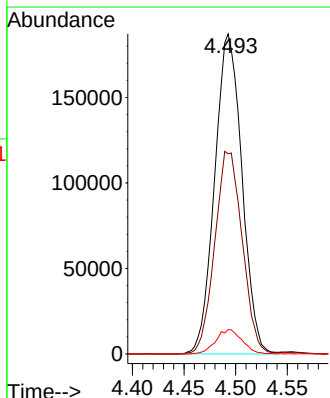
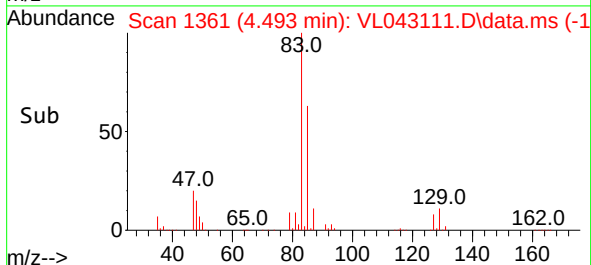
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

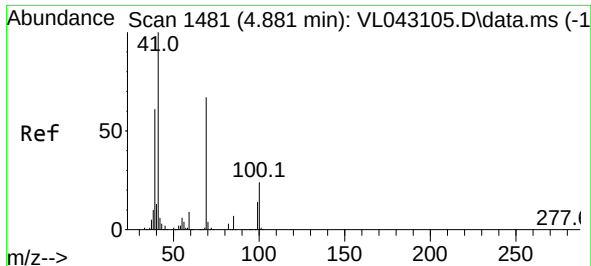


#42
Bromodichloromethane
Concen: 14.234 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion: 83 Resp: 343817
Ion Ratio Lower Upper
83 100
85 62.5 50.6 75.8
127 7.6 6.3 9.5





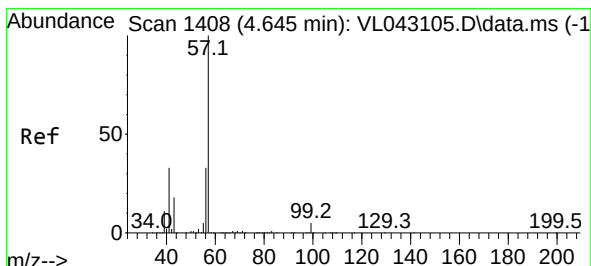
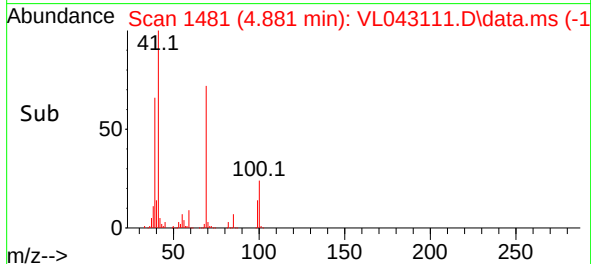
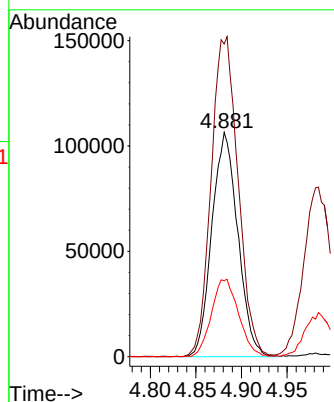
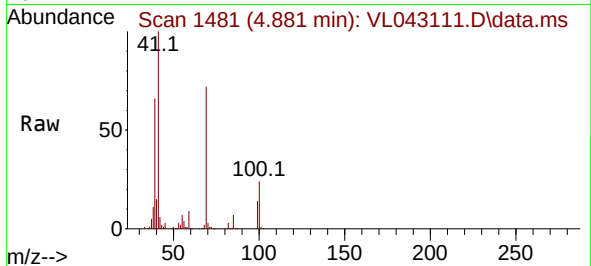
#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 69 Resp: 210750
Ion Ratio Lower Upper
69 100
41 148.2 120.5 180.7
100 36.3 29.0 43.4

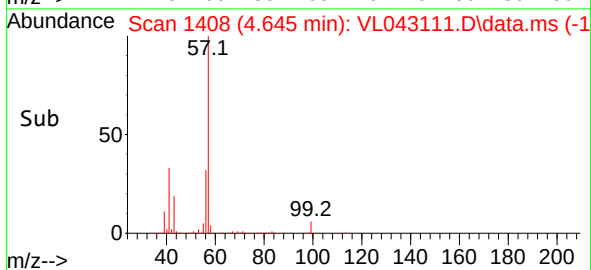
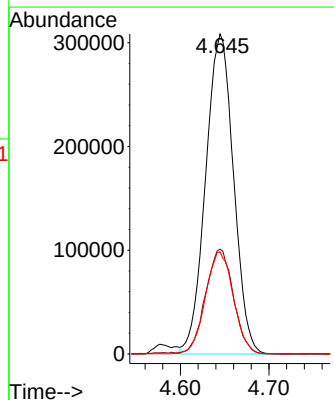
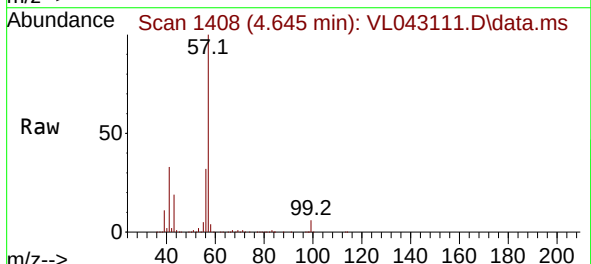
Manual Integrations
APPROVED

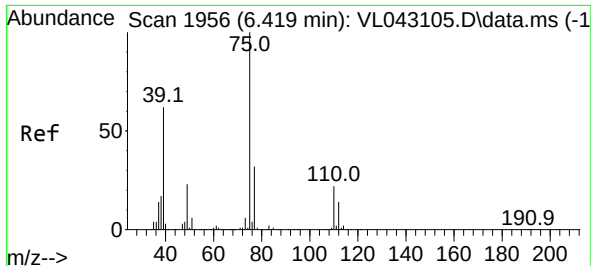
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 13.340 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.9 25.9 38.9





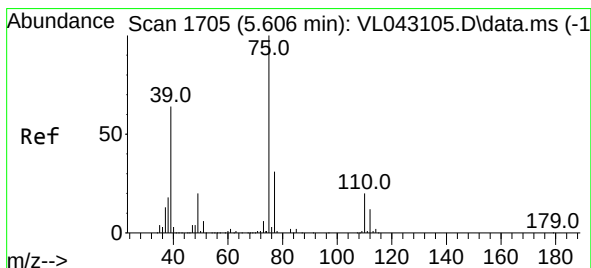
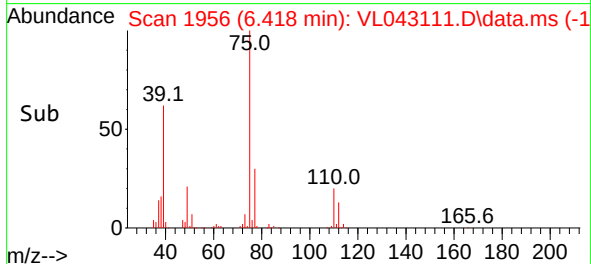
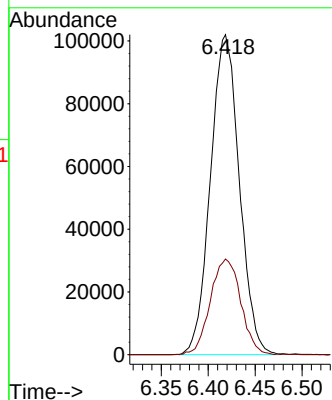
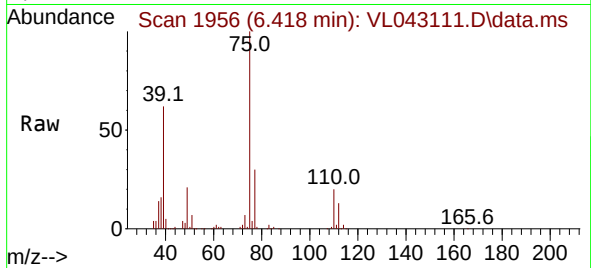
#45
 t-1,3-Dichloropropene
 Concen: 14.142 ppbv
 RT: 6.418 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Tgt Ion: 75 Resp: 218380
 Ion Ratio Lower Upper
 75 100
 77 29.9 25.4 38.2

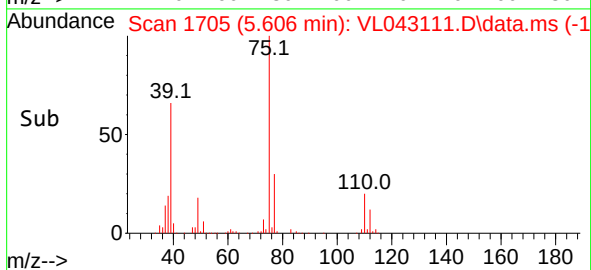
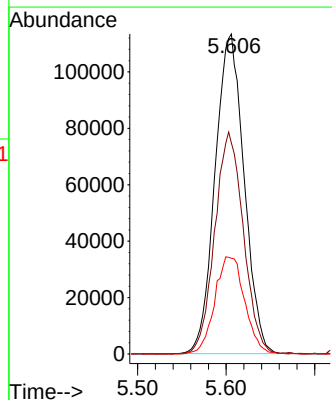
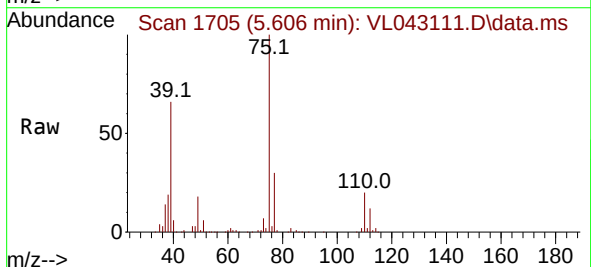
Manual Integrations
 APPROVED

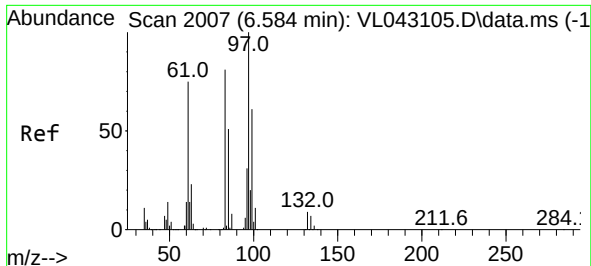
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#46
 cis-1,3-Dichloropropene
 Concen: 14.018 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

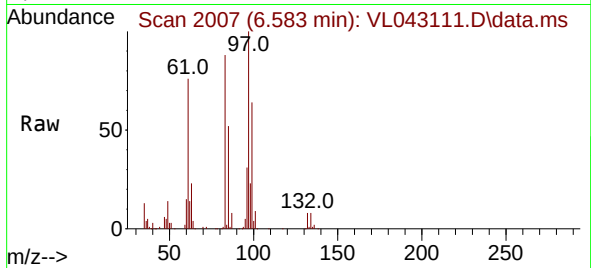
Tgt Ion: 75 Resp: 258355
 Ion Ratio Lower Upper
 75 100
 39 65.8 51.0 76.6
 77 29.9 25.0 37.4





#47
1,1,2-Trichloroethane
Concen: 13.638 ppbv
RT: 6.583 min Scan# 2007
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

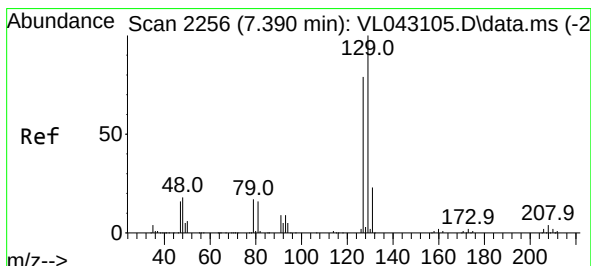
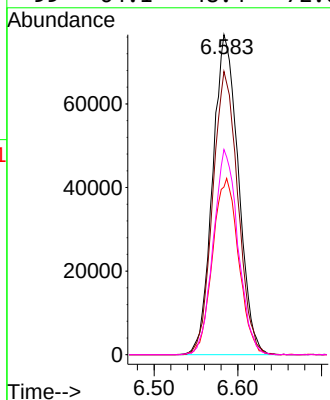
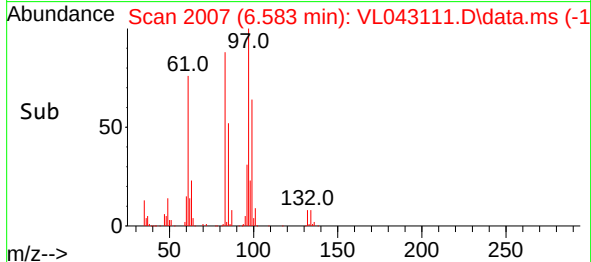


Tgt Ion: 97 Resp: 16311

Ion	Ratio	Lower	Upper
97	100		
83	88.4	64.6	96.8
85	52.4	40.6	60.8
99	64.1	48.4	72.6

Manual Integrations
APPROVED

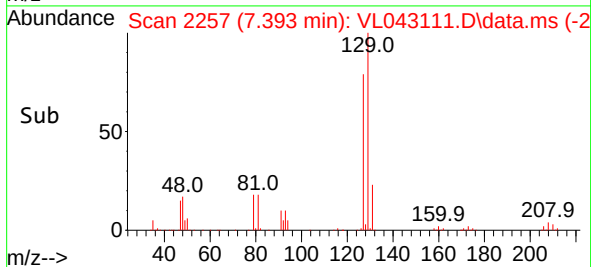
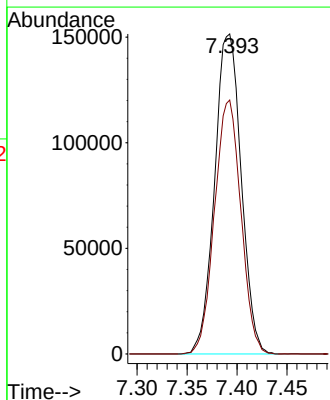
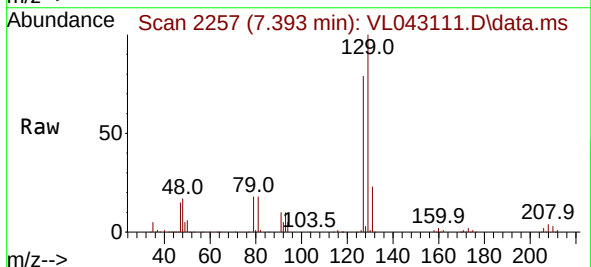
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

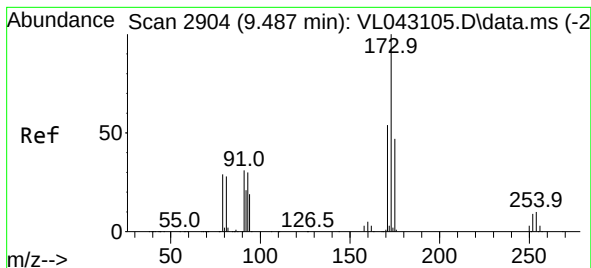


#48
Dibromochloromethane
Concen: 14.051 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:129 Resp: 280993

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9





#49

Bromoform

Concen: 14.184 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:173 Resp: 23056

Ion Ratio Lower Upper

173 100

175 48.5 38.8 58.2

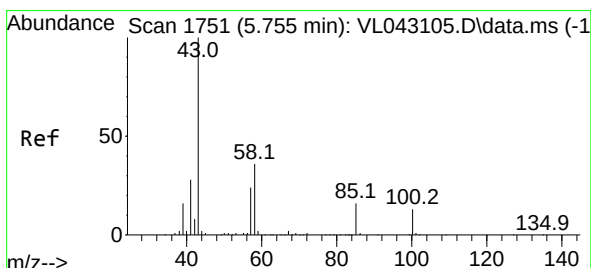
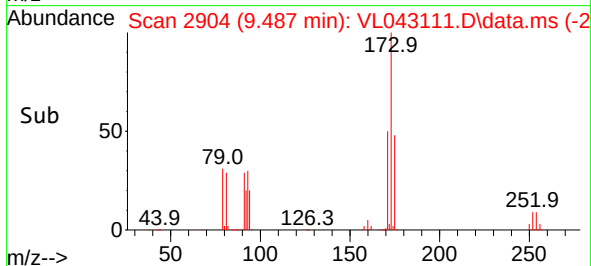
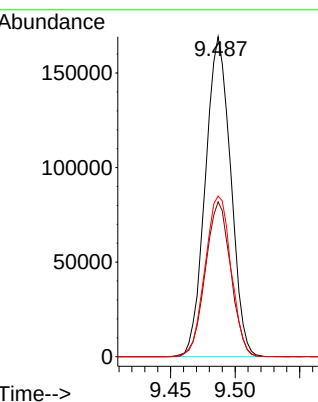
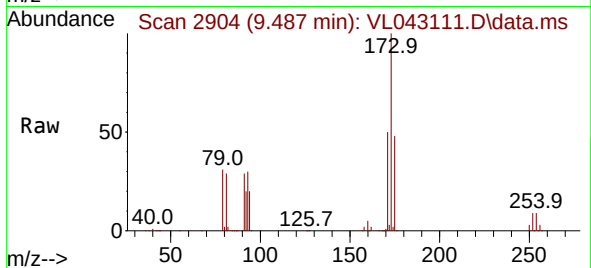
171 51.7 41.7 62.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#50

4-Methyl-2-Pentanone

Concen: 13.396 ppbv

RT: 5.748 min Scan# 1749

Delta R.T. -0.007 min

Lab File: VL043111.D

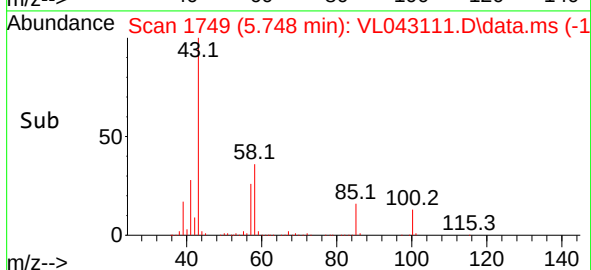
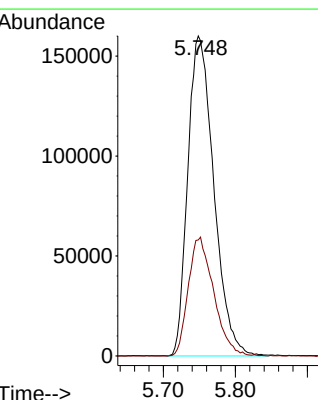
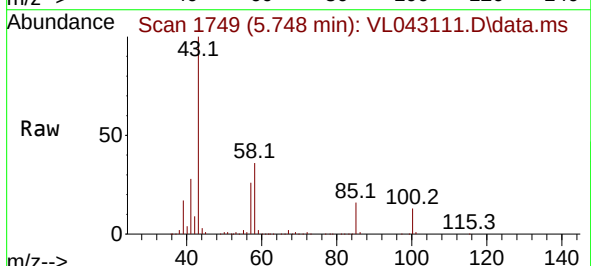
Acq: 14 Oct 2025 14:18

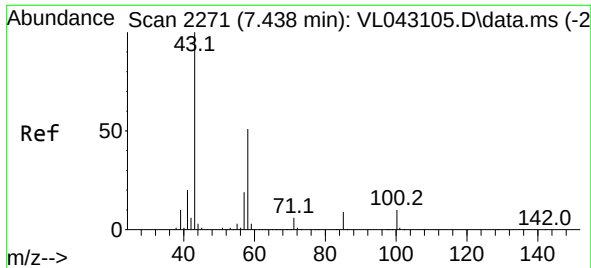
Tgt Ion: 43 Resp: 401849

Ion Ratio Lower Upper

43 100

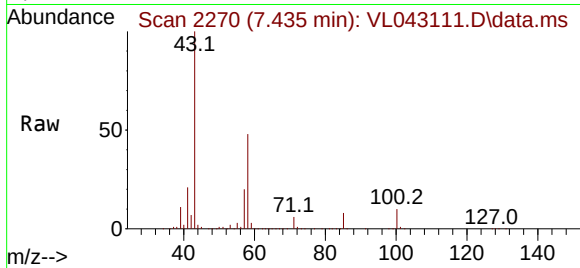
58 36.3 29.1 43.7





#51
2-Hexanone
Concen: 14.176 ppbv
RT: 7.435 min Scan# 2178
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

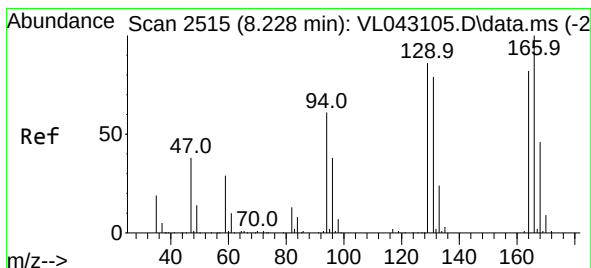
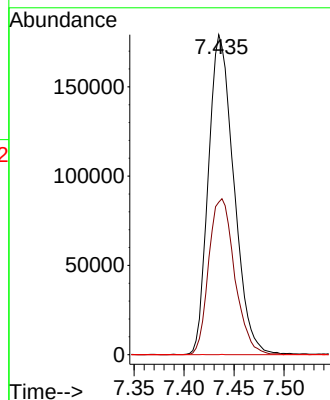
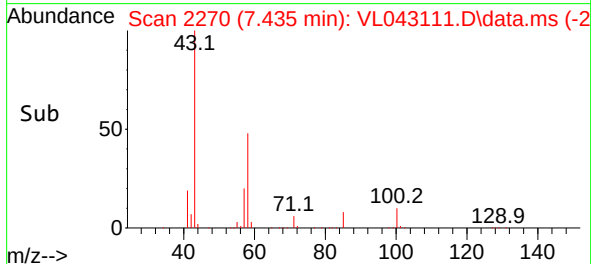
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 31728
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1

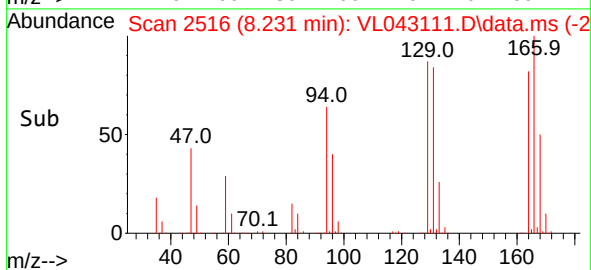
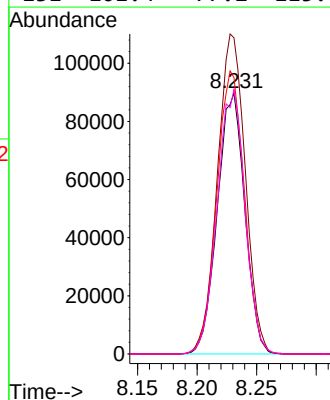
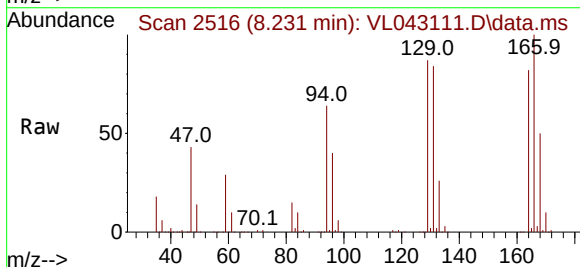
Manual Integrations
APPROVED

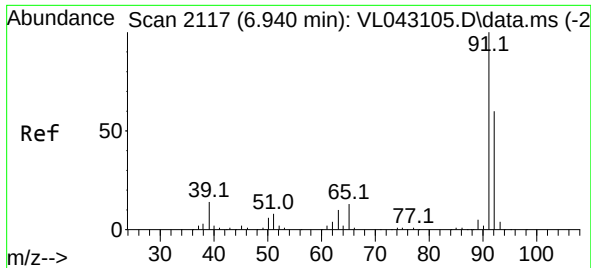
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 13.177 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:164 Resp: 143954
Ion Ratio Lower Upper
164 100
166 121.3 97.6 146.4
129 106.0 84.5 126.7
131 101.4 77.2 115.8





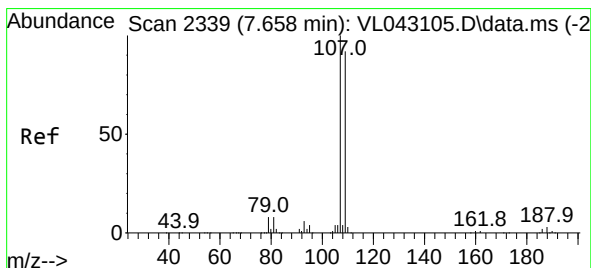
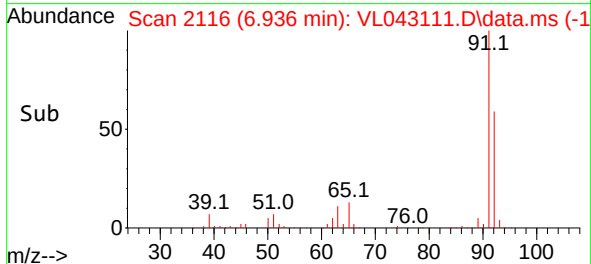
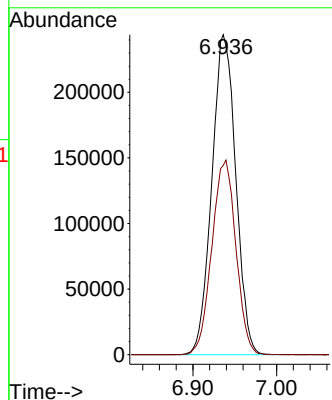
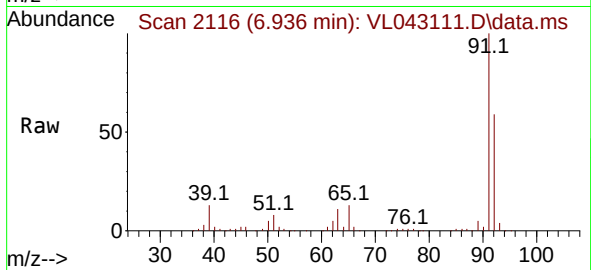
#53
Toluene
Concen: 13.457 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 483870
Ion Ratio Lower Upper
91 100
92 61.1 48.8 73.2

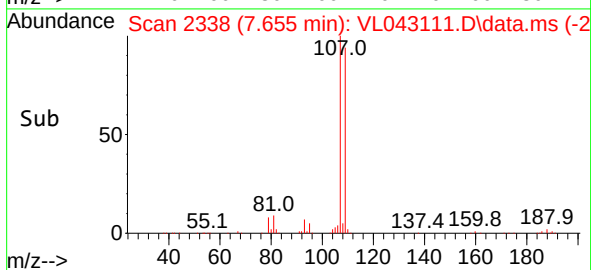
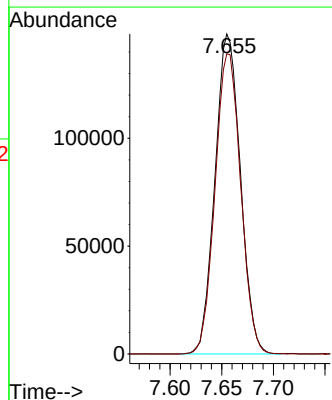
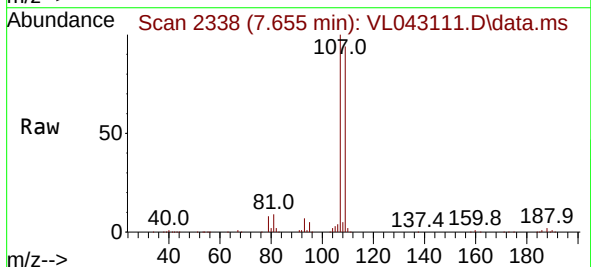
Manual Integrations
APPROVED

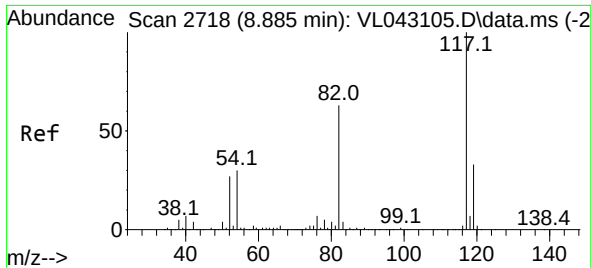
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#54
1,2-Dibromoethane
Concen: 13.461 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

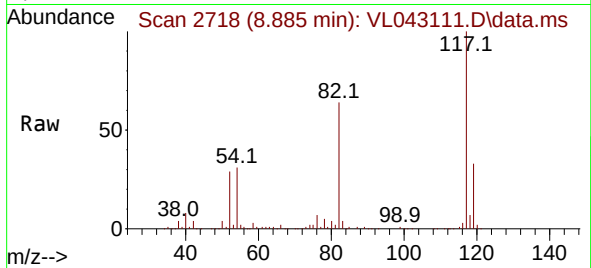
Tgt Ion:107 Resp: 254024
Ion Ratio Lower Upper
107 100
109 93.8 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

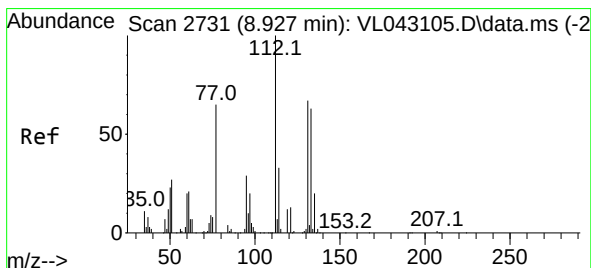
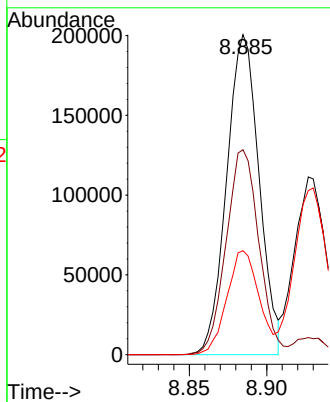
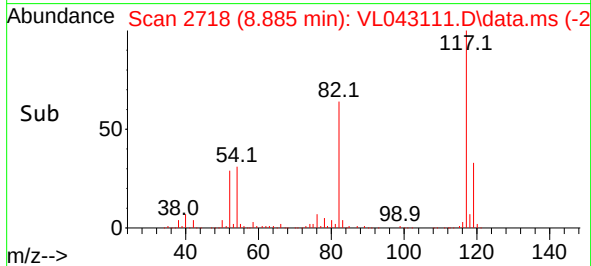
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 292542
Ion Ratio Lower Upper
117 100
82 70.2 53.8 80.8
119 33.1 25.4 38.0

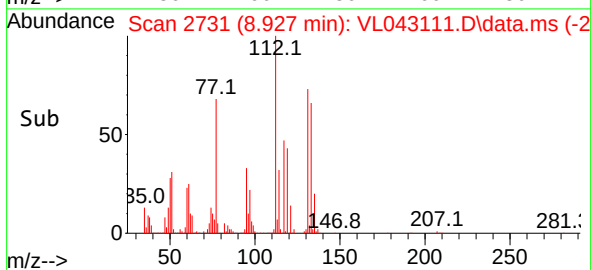
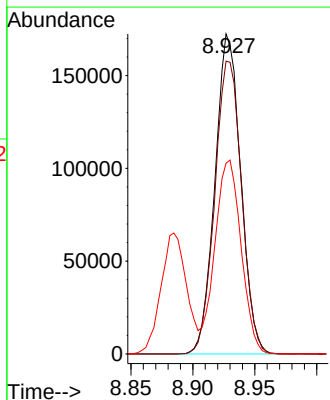
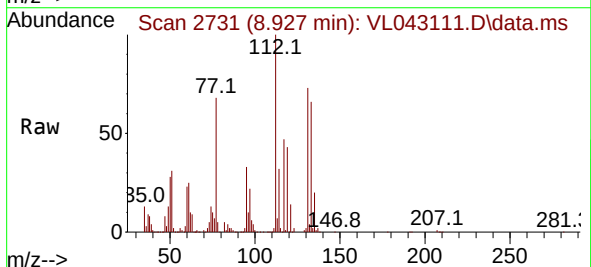
Manual Integrations
APPROVED

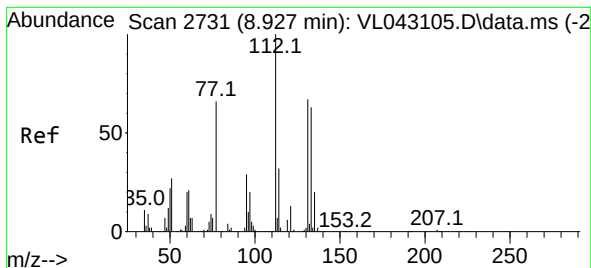
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 13.573 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:131 Resp: 250303
Ion Ratio Lower Upper
131 100
133 95.1 75.7 113.5
119 61.9 50.6 76.0





#57

Chlorobenzene

Concen: 12.983 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

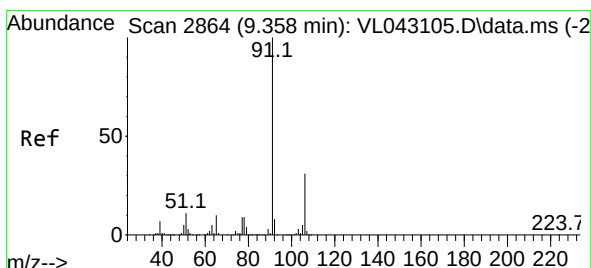
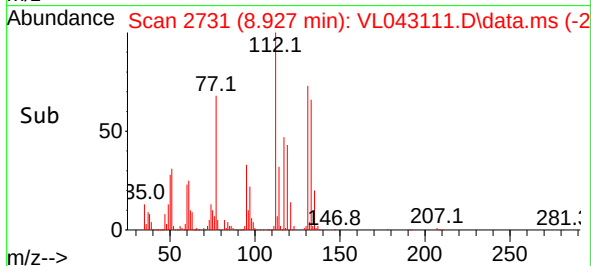
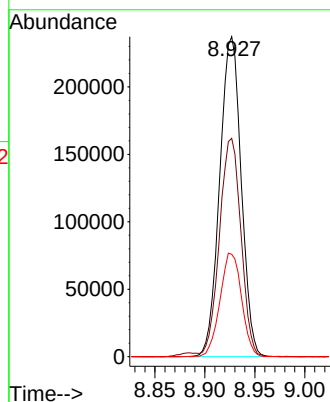
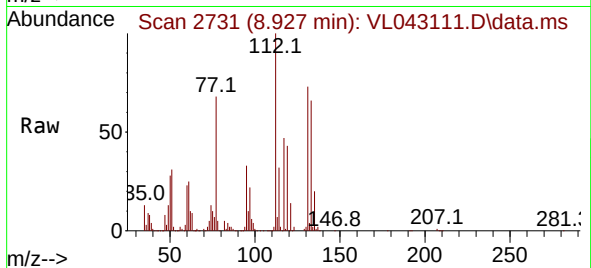
VSTDICC015

Tgt Ion:	112	Resp:	35530
Ion Ratio	Lower	Upper	
112	100		
77	68.2	53.3	79.9
114	32.0	29.3	35.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58

Ethyl Benzene

Concen: 13.375 ppbv

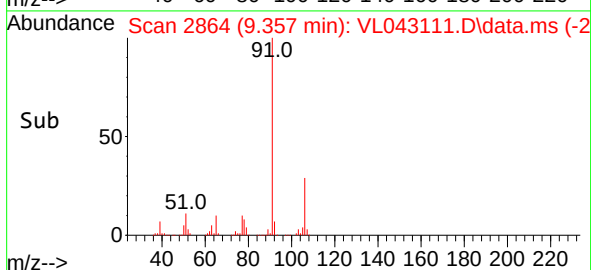
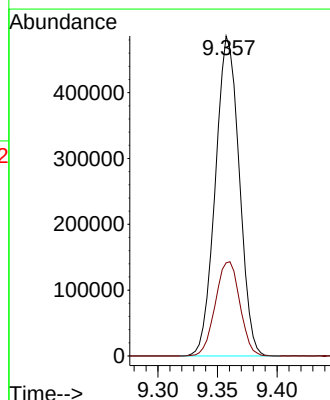
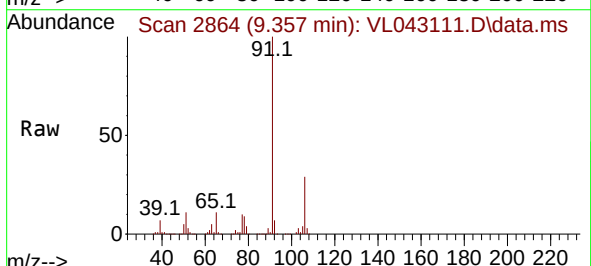
RT: 9.357 min Scan# 2864

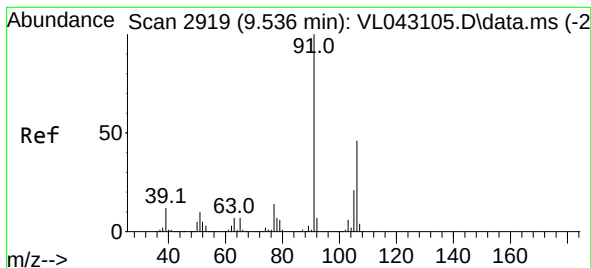
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

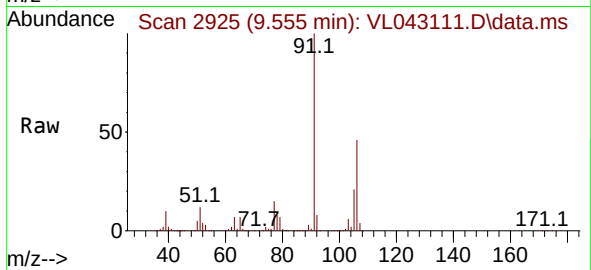
Tgt Ion:	91	Resp:	676918
Ion Ratio	Lower	Upper	
91	100		
106	29.1	24.8	37.2





#59
m/p-Xylene
Concen: 26.498 ppbv m
RT: 9.555 min Scan# 2919
Delta R.T. 0.019 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

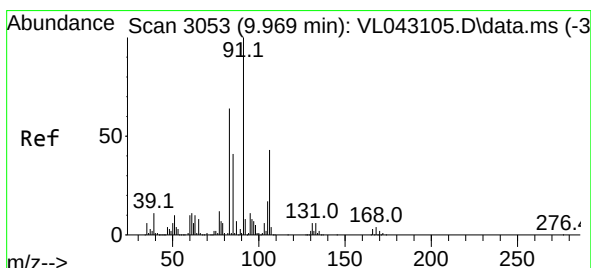
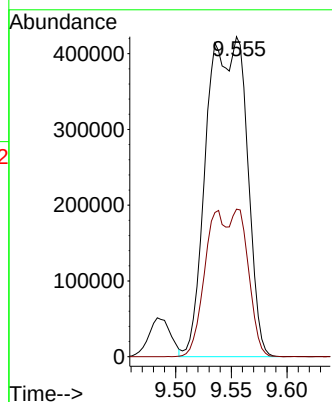
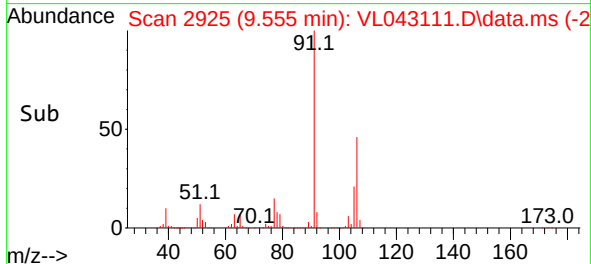
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



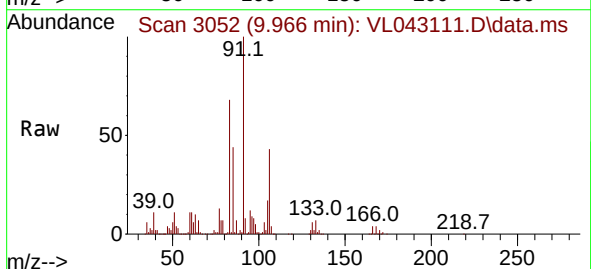
Tgt Ion: 91 Resp: 1061952
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

Manual Integrations
APPROVED

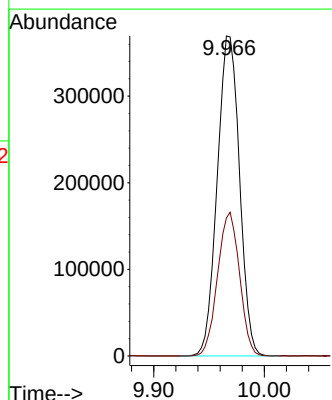
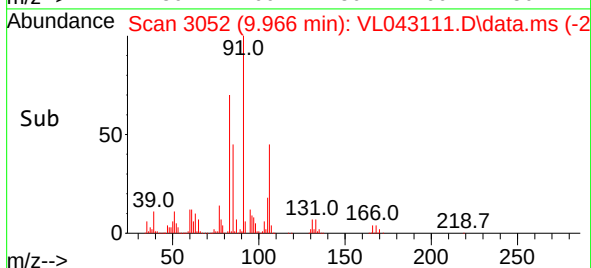
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

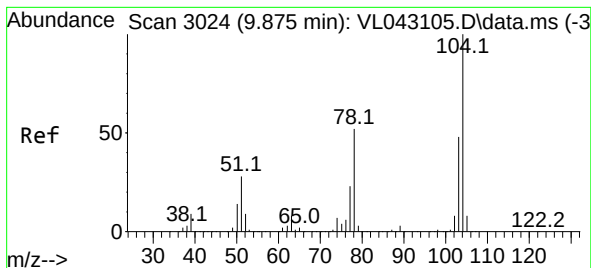


#60
o-Xylene
Concen: 13.063 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion: 91 Resp: 516660
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.8





#61

Styrene

Concen: 13.867 ppbv

RT: 9.875 min Scan# 3024

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

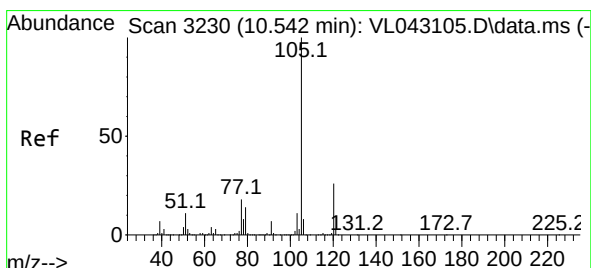
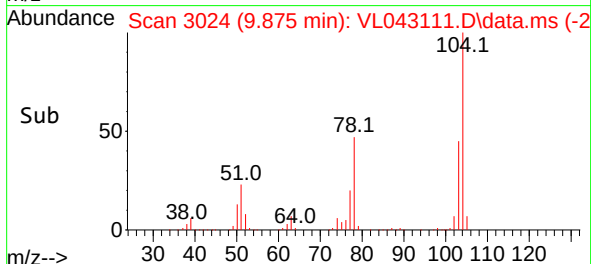
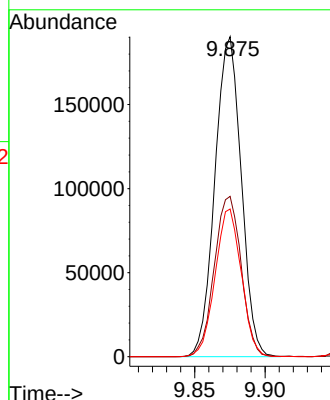
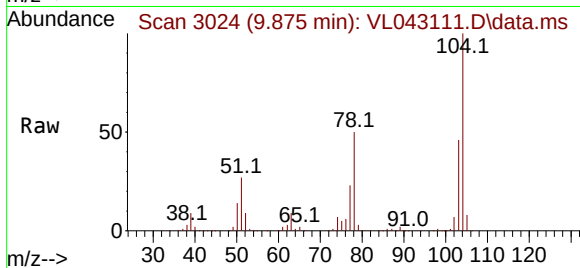
VSTDIC015

Tgt Ion:104 Resp: 247589
 Ion Ratio Lower Upper
 104 100
 78 51.2 40.2 60.2
 103 46.0 36.9 55.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#62

Isopropylbenzene

Concen: 13.034 ppbv

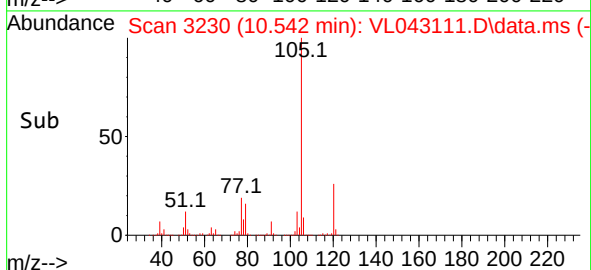
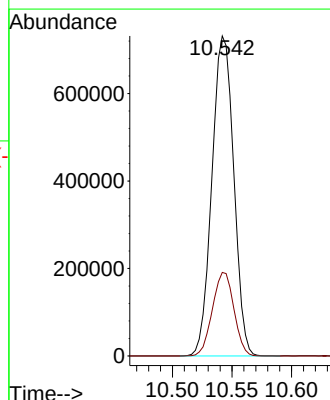
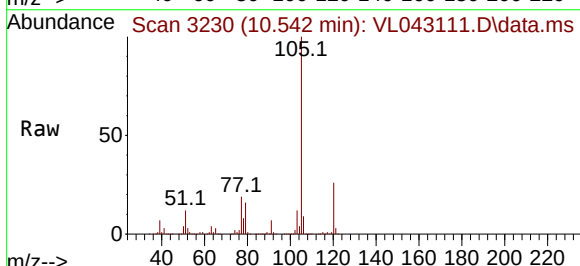
RT: 10.542 min Scan# 3230

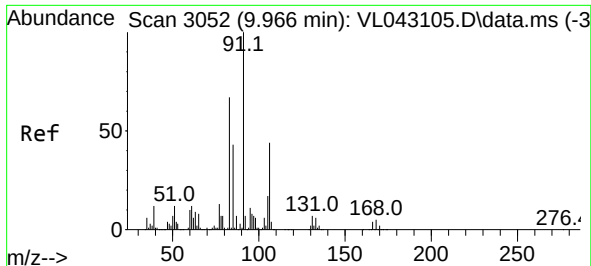
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

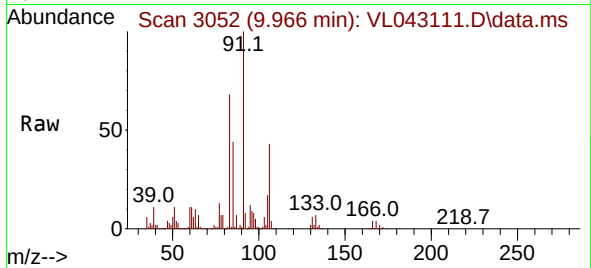
Tgt Ion:105 Resp: 931508
 Ion Ratio Lower Upper
 105 100
 120 25.7 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 12.515 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

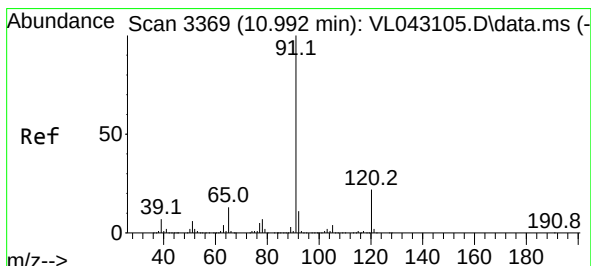
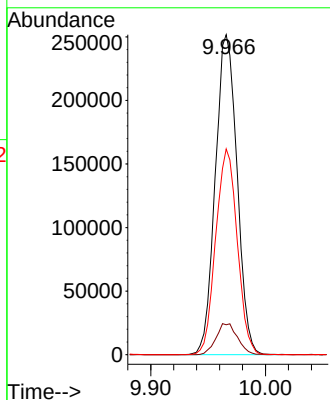
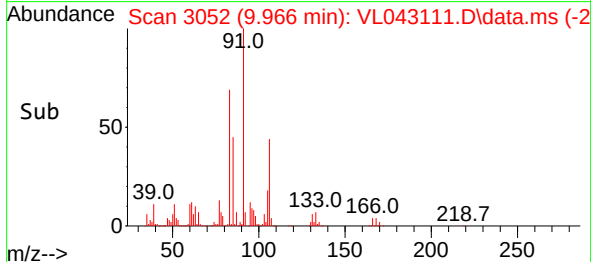
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



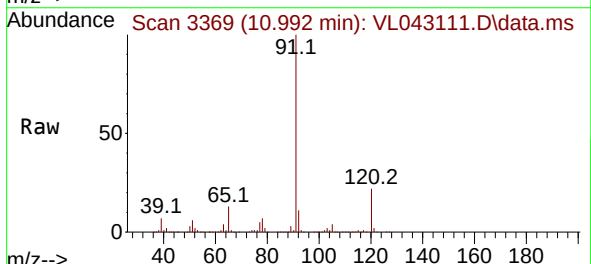
Tgt Ion: 83 Resp: 33142
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 63.6 32.0 96.0

Manual Integrations
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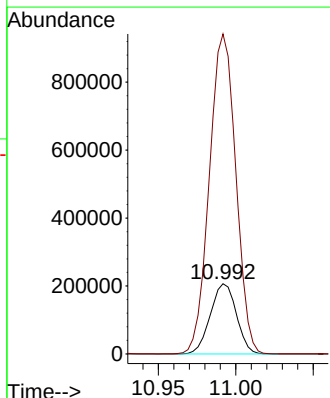
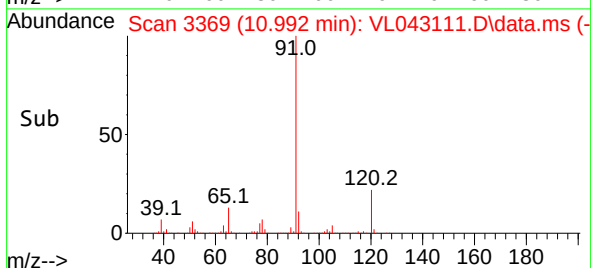
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

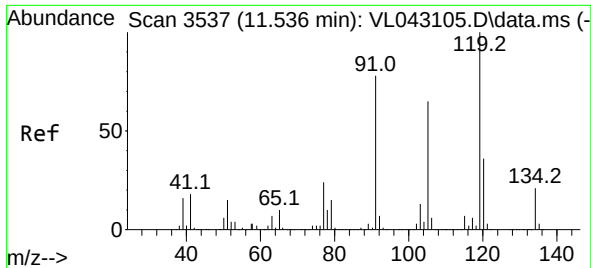


#64
n-propylbenzene
Concen: 12.775 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



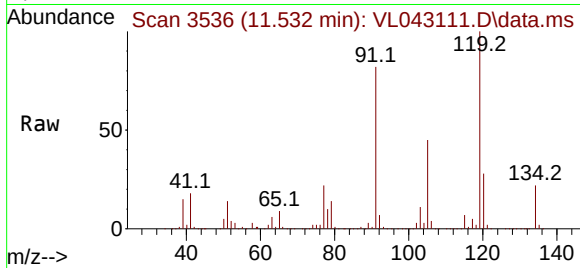
Tgt Ion:120 Resp: 241719
Ion Ratio Lower Upper
120 100
91 463.5 361.6 542.4





#65
tert-Butylbenzene
Concen: 12.490 ppbv
RT: 11.532 min Scan# 3537
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

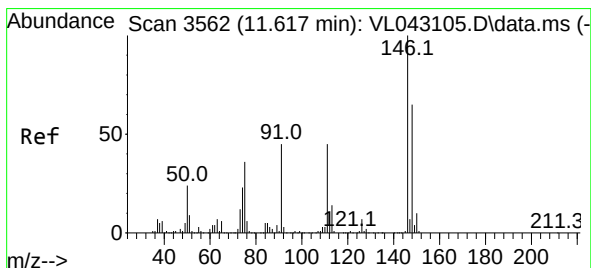
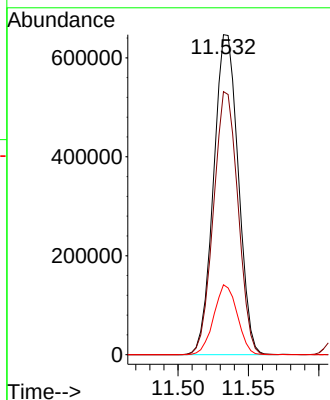
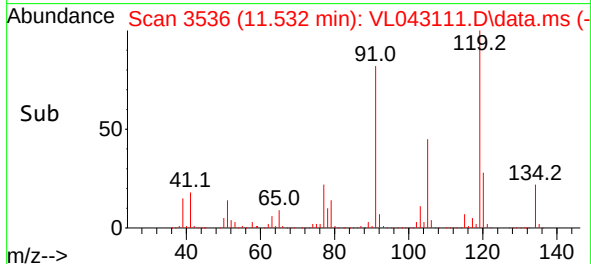
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



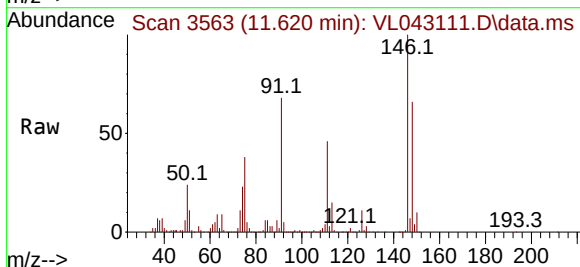
Tgt Ion: 119 Resp: 788234
Ion Ratio Lower Upper
119 100
91 81.8 63.4 95.0
134 20.8 17.3 25.9

Manual Integrations
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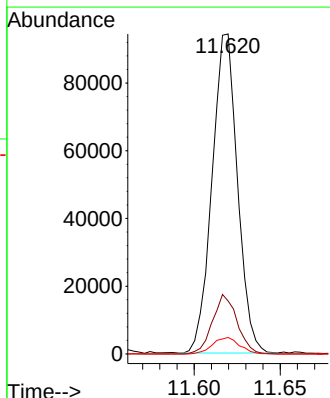
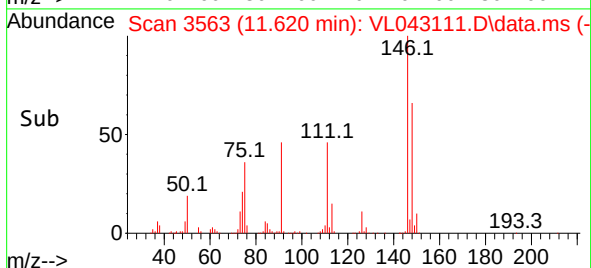
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

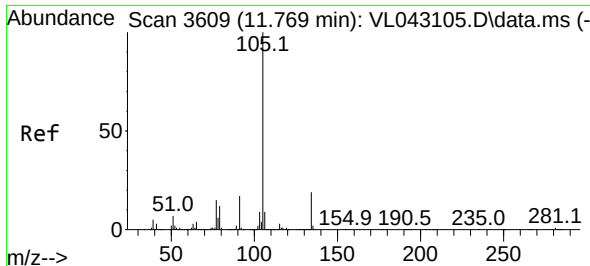


#66
Benzyl Chloride
Concen: 13.778 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



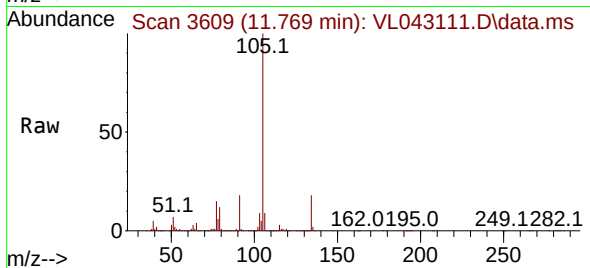
Tgt Ion: 91 Resp: 97114
Ion Ratio Lower Upper
91 100
126 18.0 14.6 22.0
128 5.4 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 12.566 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

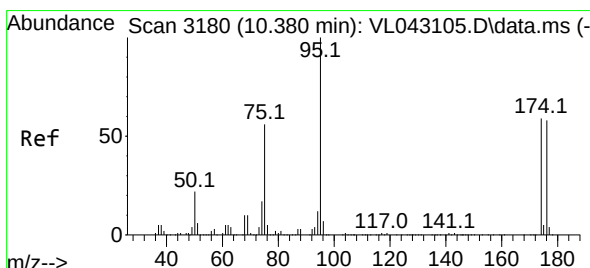
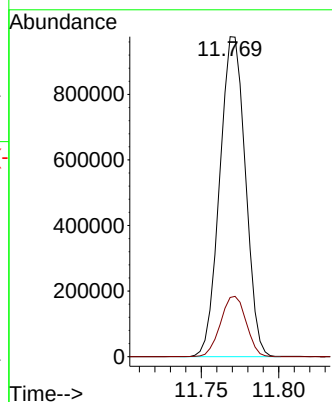
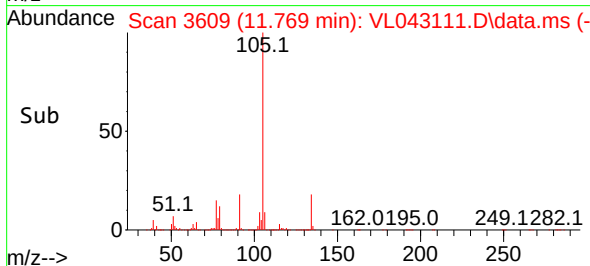
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:105 Resp: 1125489
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3

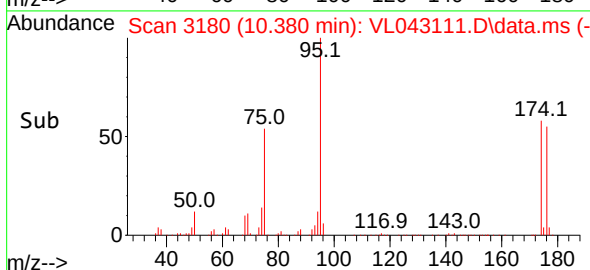
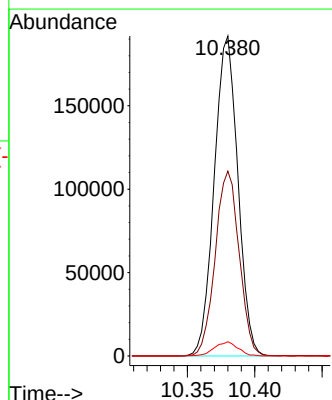
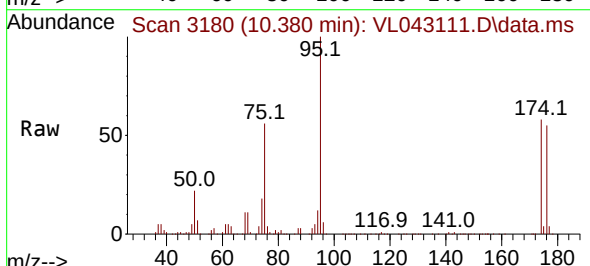
Manual Integrations
 APPROVED

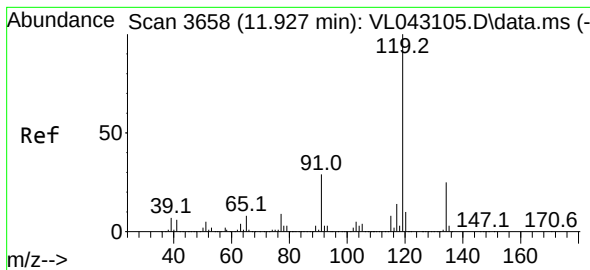
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.270 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

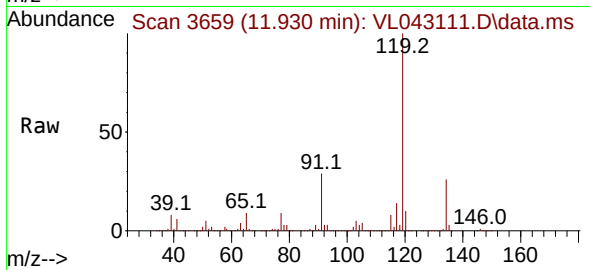
Tgt Ion: 95 Resp: 233522
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.3 72.5
 175 4.4 3.8 5.8





#69
p-Isopropyltoluene
Concen: 12.602 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

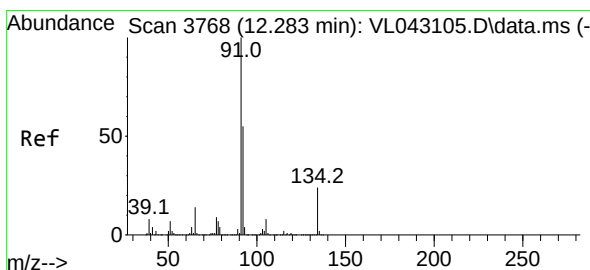
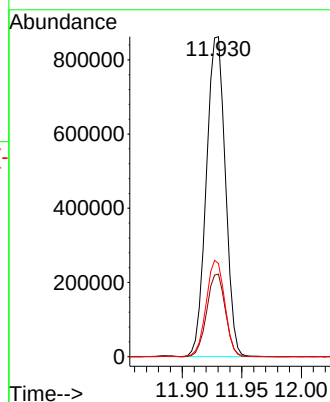
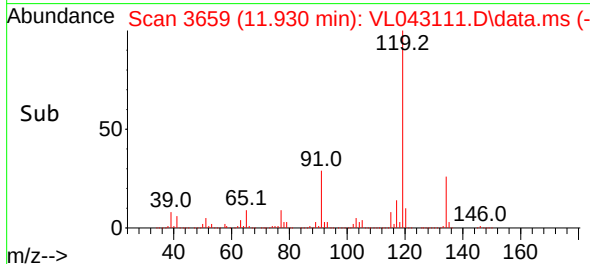
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:119 Resp: 959200
Ion Ratio Lower Upper
119 100
134 25.5 20.3 30.5
91 29.5 22.6 33.8

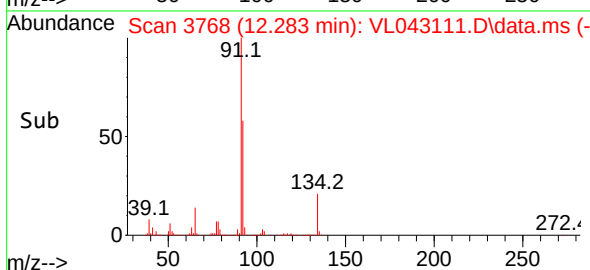
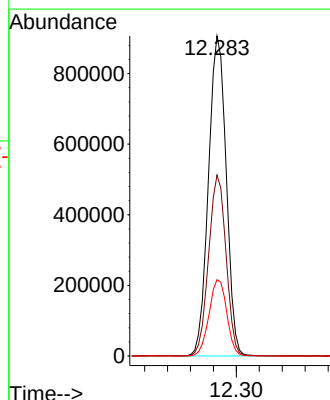
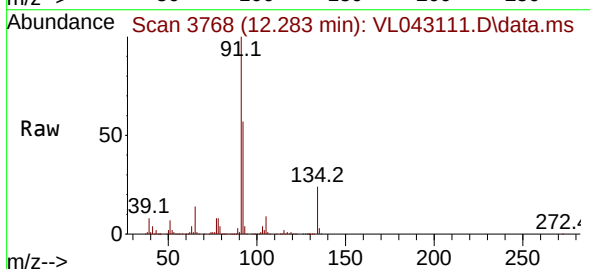
Manual Integrations
APPROVED

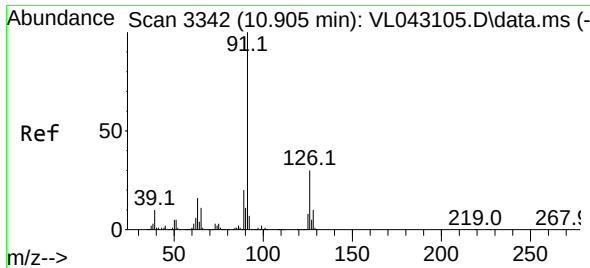
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
n-Butylbenzene
Concen: 12.979 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 973466
Ion Ratio Lower Upper
91 100
92 55.6 44.5 66.7
134 23.8 19.3 28.9





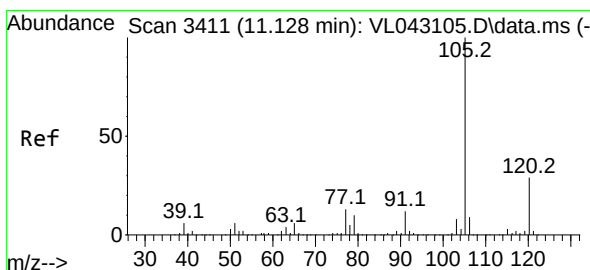
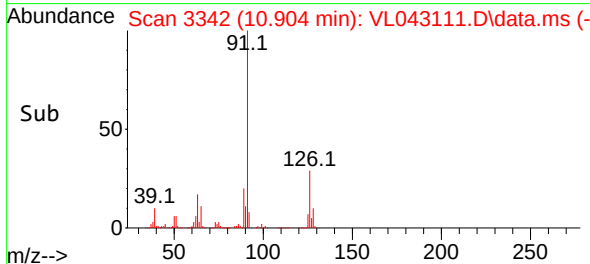
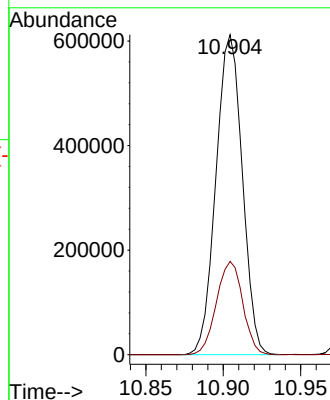
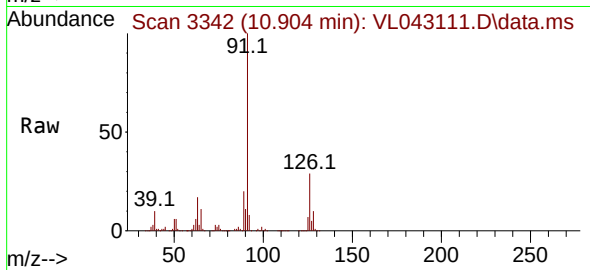
#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 72182
Ion Ratio Lower Upper
91 100
126 29.1 12.0 48.0

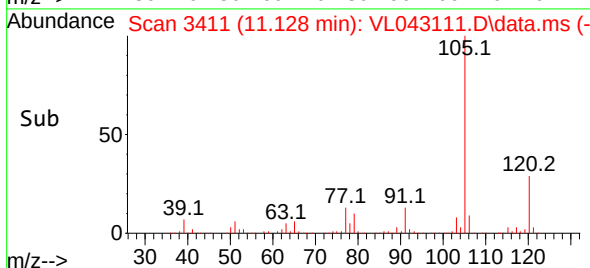
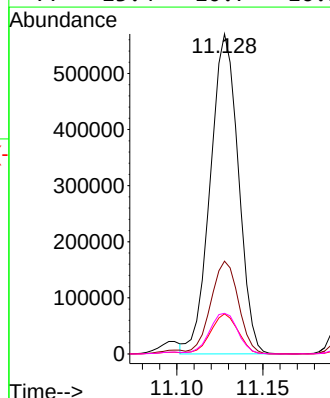
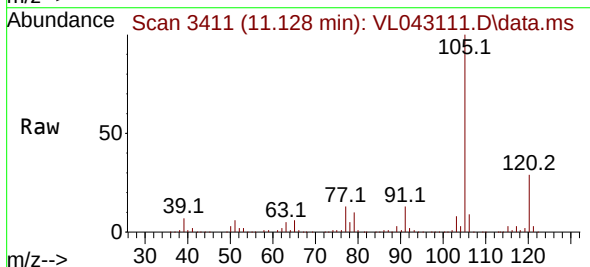
Manual Integrations
APPROVED

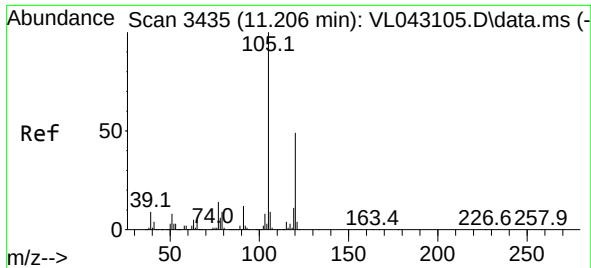
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 13.310 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

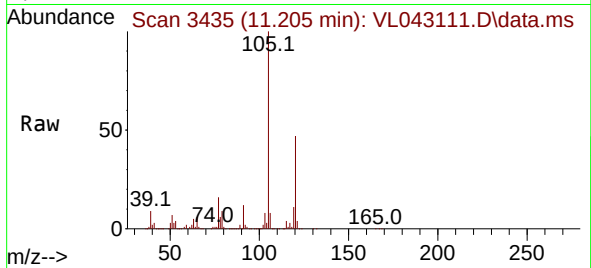
Tgt Ion:105 Resp: 647315
Ion Ratio Lower Upper
105 100
120 29.6 24.2 36.4
91 12.7 10.0 15.0
77 13.4 10.7 16.1





#73
1,3,5-Trimethylbenzene
Concen: 13.314 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

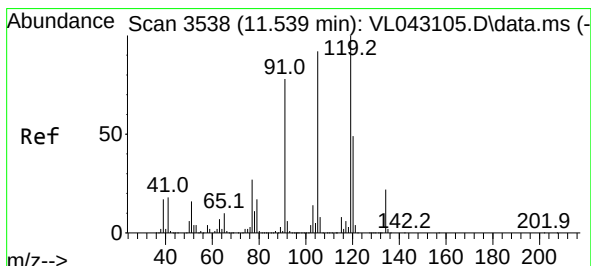
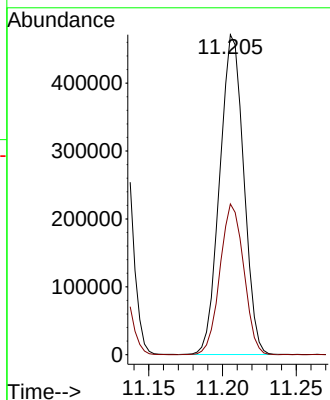
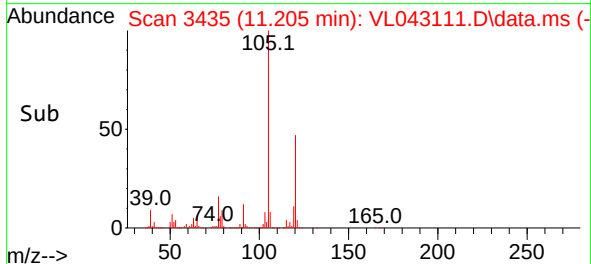
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



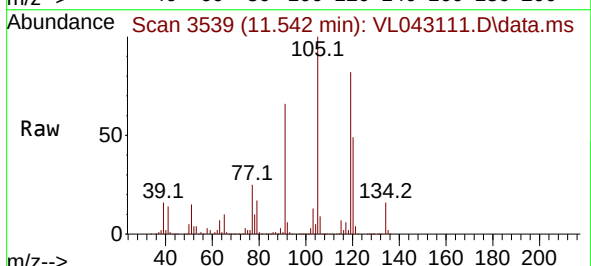
Tgt Ion:105 Resp: 534000
Ion Ratio Lower Upper
105 100
120 47.1 39.0 58.6

Manual Integrations
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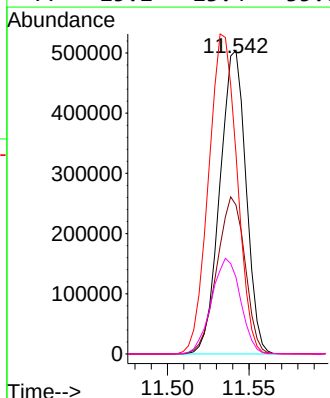
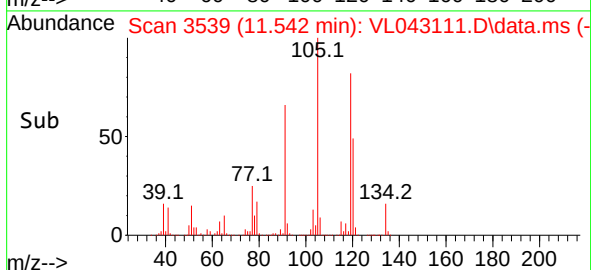
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

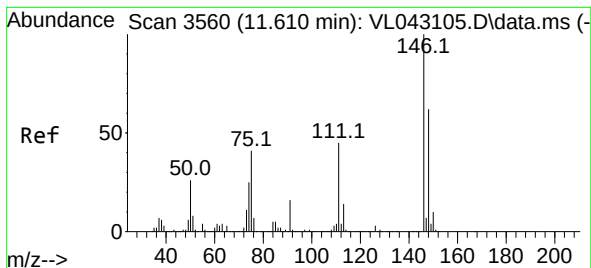


#74
1,2,4-Trimethylbenzene
Concen: 12.498 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion:105 Resp: 560932
Ion Ratio Lower Upper
105 100
120 49.0 42.8 64.2
91 66.0 68.3 102.5#
77 25.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 13.031 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

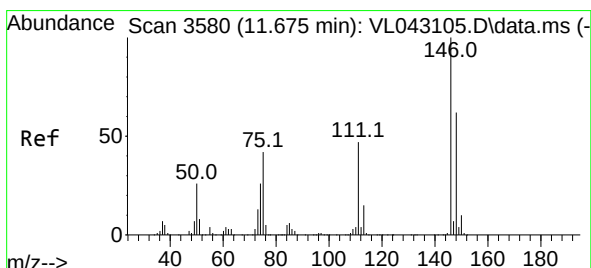
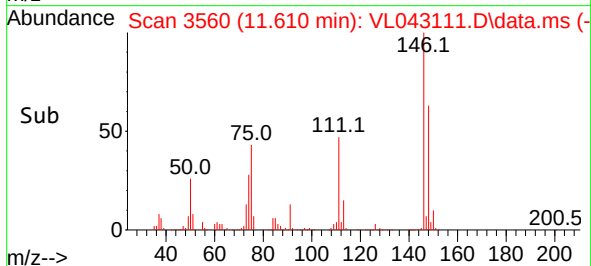
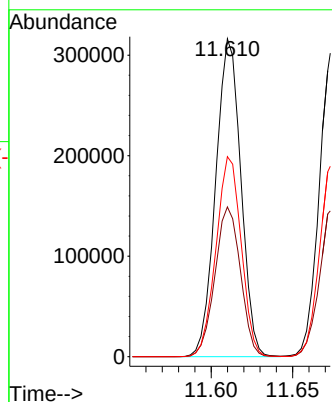
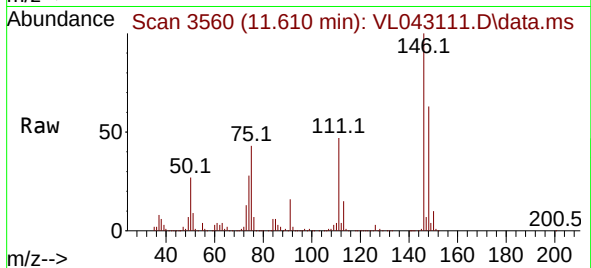
VSTDICC015

Tgt Ion:146 Resp: 33920
 Ion Ratio Lower Upper
 146 100
 111 47.7 23.3 69.9
 148 63.0 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 13.027 ppbv

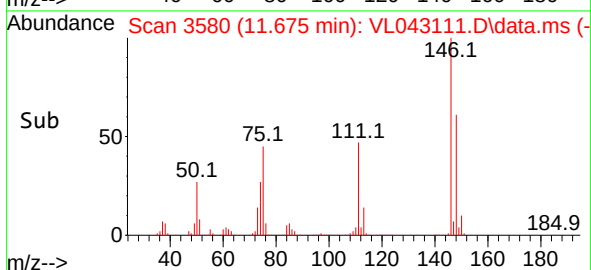
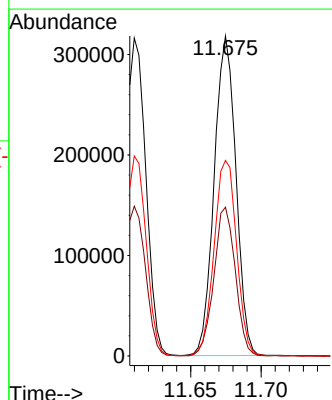
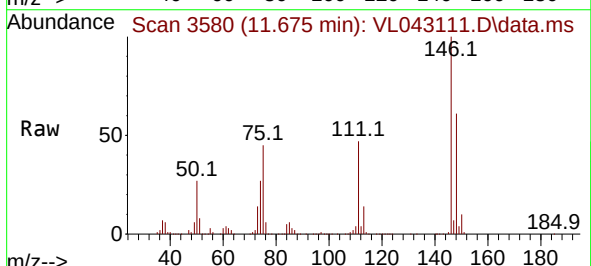
RT: 11.675 min Scan# 3580

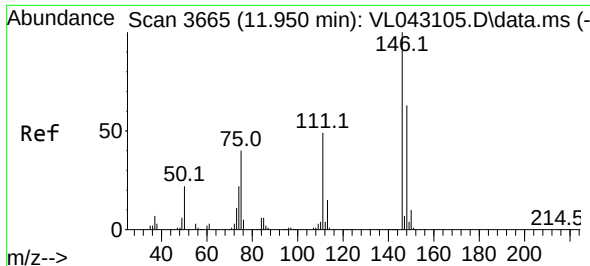
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

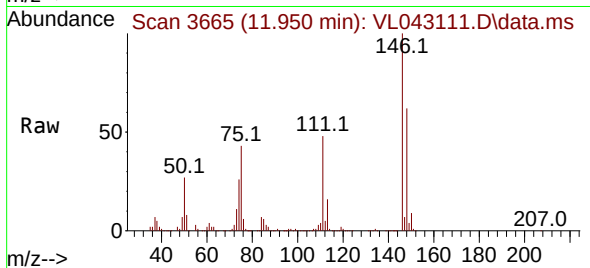
Tgt Ion:146 Resp: 341936
 Ion Ratio Lower Upper
 146 100
 111 46.1 22.4 67.0
 148 63.4 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 12.660 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

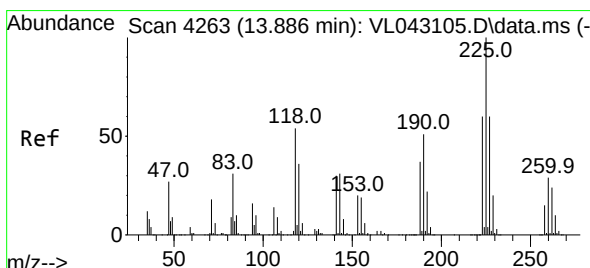
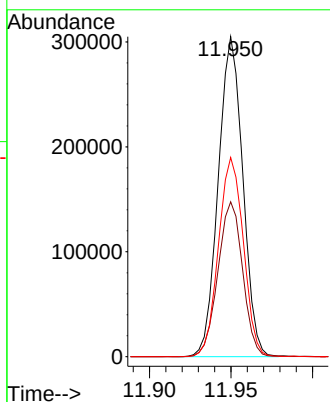
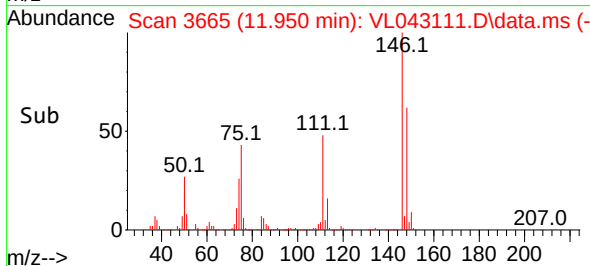
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



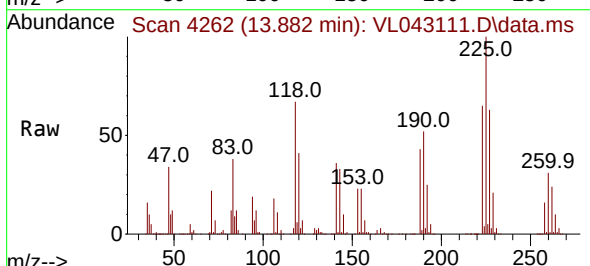
Tgt Ion:146 Resp: 318800
Ion Ratio Lower Upper
146 100
111 48.8 24.0 72.0
148 63.2 31.1 93.3

Manual Integrations
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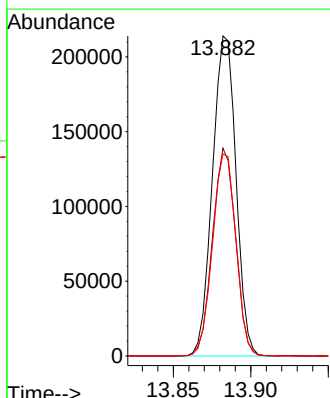
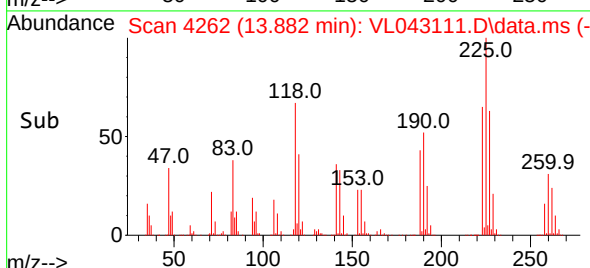
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

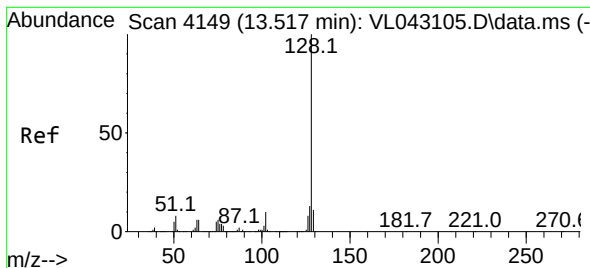


#78
Hexachloro-1,3-Butadiene
Concen: 11.606 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion:225 Resp: 226294
Ion Ratio Lower Upper
225 100
223 63.5 50.2 75.4
227 63.1 49.6 74.4





#79

Naphthalene

Concen: 14.260 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

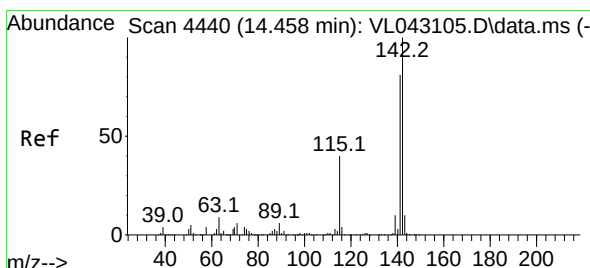
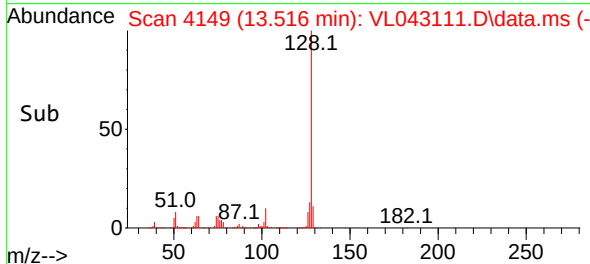
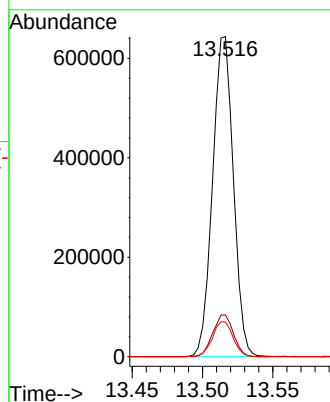
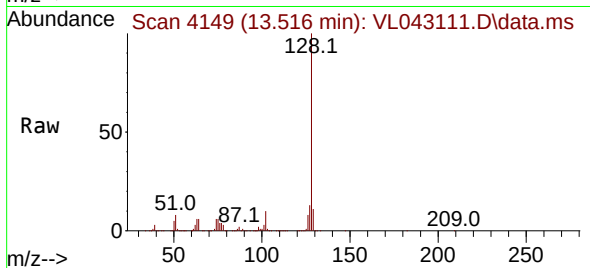
VSTDICC015

Tgt Ion:	128	Resp:	661098
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.5	15.7
129	10.8	9.1	13.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 17.384 ppbv

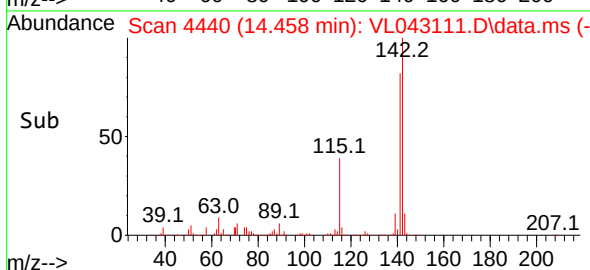
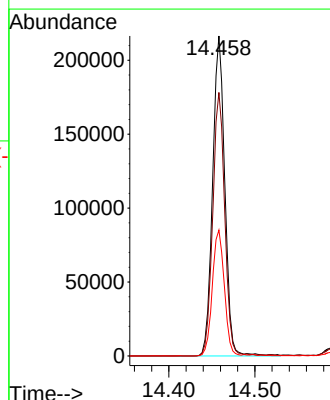
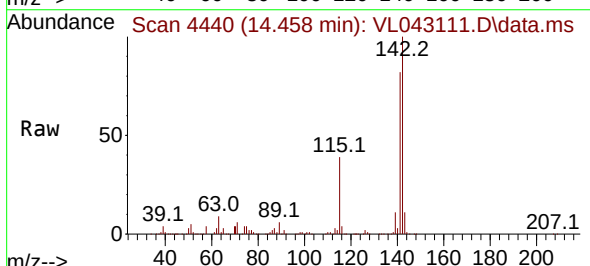
RT: 14.458 min Scan# 4440

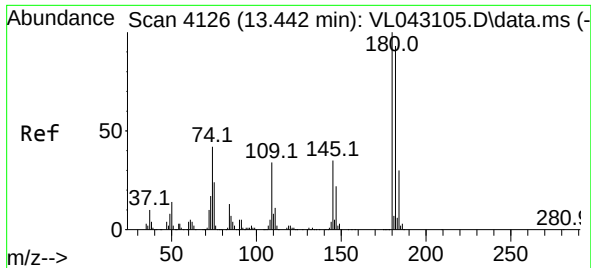
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

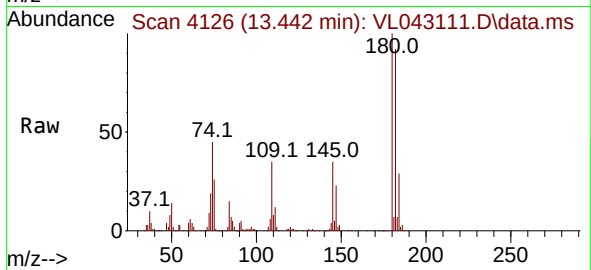
Tgt Ion:	142	Resp:	212784
Ion Ratio	Lower	Upper	
142	100		
141	81.9	64.6	97.0
115	39.4	30.2	45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 13.698 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

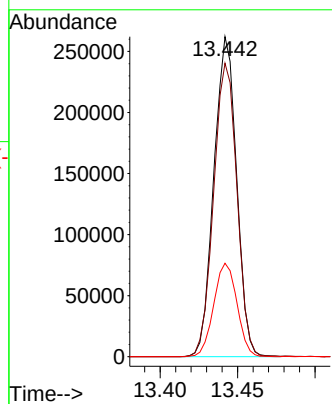
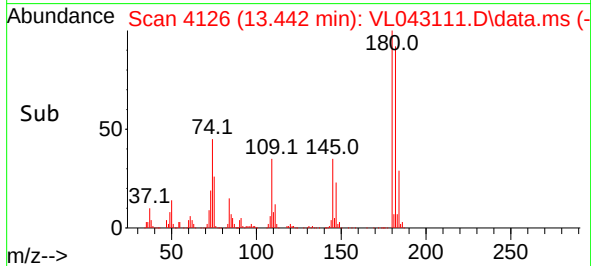
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 266712
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.5 113.3
 184 30.0 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	97563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	325610	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	291676	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 229010 10.101 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	130726	9.425	ppbv	98
3) Chlorodifluoromethane	1.479	51	138956	9.260	ppbv	99
4) Chloromethane	1.538	50	48722	8.867	ppbv	96
5) Vinyl Chloride	1.583	62	47005	8.722	ppbv	97
6) Bromomethane	1.670	94	26304	8.901	ppbv	98
7) Chloroethane	1.709	64	19138	8.685	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	107147	9.558	ppbv	99
9) Propene	1.486	41	59287	8.908	ppbv	98
10) Heptane	4.991	43	165341	8.629	ppbv	99
11) Trichlorofluoromethane	1.881	101	132447	9.762	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	102449	9.380	ppbv	98
13) Ethanol	1.725	45	17659m	7.173	ppbv	
14) Bromoethene	1.787	108	37835	9.324	ppbv	100
15) Acetone	1.839	43	108010	8.214	ppbv	99
16) 1,3-Butadiene	1.612	39	55493	8.855	ppbv	98
17) tert-Butyl alcohol	2.043	59	162672	9.012	ppbv	97
18) 1,1-Dichloroethene	2.039	96	46544	9.774	ppbv	93
19) Isopropyl Alcohol	1.887	45	67552	8.248	ppbv	97
20) Methylene Chloride	2.065	84	40319	7.757	ppbv	89
21) Allyl Chloride	2.101	41	88965	9.181	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	51295	9.011	ppbv	93
23) Vinyl Acetate	2.467	43	185329	9.621	ppbv	98
24) 1,1-Dichloroethane	2.415	63	102877	9.355	ppbv	98
25) Ethyl Acetate	2.839	43	292399	8.966	ppbv	100
26) Hexane	2.832	57	135463	9.015	ppbv	97
27) Carbon Disulfide	2.156	76	131064	9.520	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	67260	9.839	ppbv	97
29) Chloroform	2.852	83	204925	9.412	ppbv	95
30) Cyclohexane	3.865	84	119287	9.096	ppbv	96
31) cis-1,2-Dichloroethene	2.725	61	137462	9.580	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	219167	9.666	ppbv	98
34) 2-Butanone	2.560	43	188755	8.624	ppbv	99
35) Carbon Tetrachloride	3.771	117	217678	9.298	ppbv	96
36) Benzene	3.664	78	278365	9.077	ppbv	97
37) 1,2-Dichloroethane	3.224	62	161750	9.156	ppbv	98
38) Trichloroethene	4.557	130	108261	8.453	ppbv	96
39) 1,2-Dichloropropane	4.321	63	100580	8.971	ppbv	96
40) 1,4-Dioxane	4.587	88	41464	8.265	ppbv #	95
41) Tetrahydrofuran	3.056	42	104701	8.553	ppbv	99
42) Bromodichloromethane	4.496	83	228288	9.336	ppbv	96
43) Methyl Methacrylate	4.884	69	138593	8.898	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	452117	8.738	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	142964	9.146	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

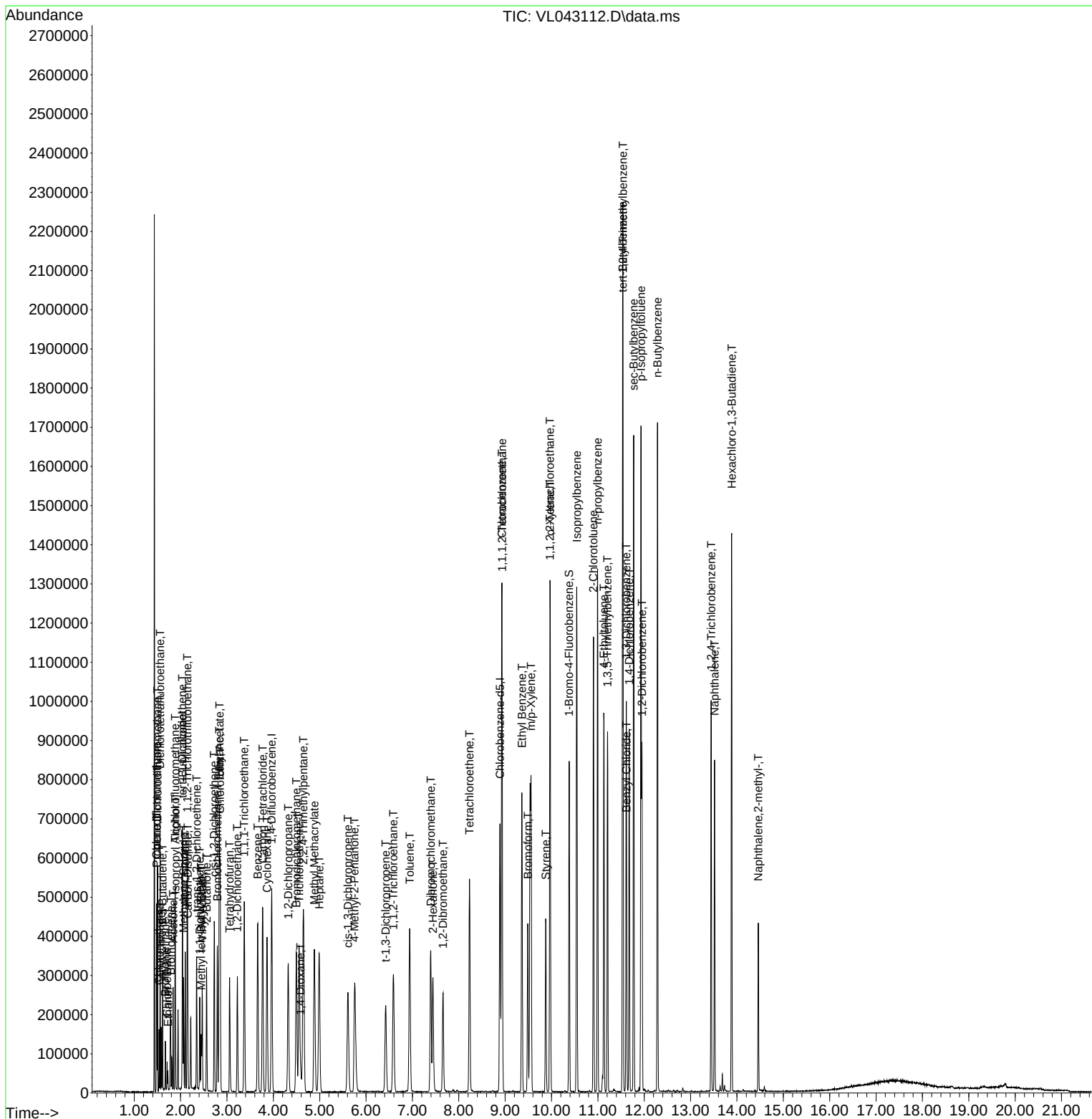
Response via : Initial Calibration

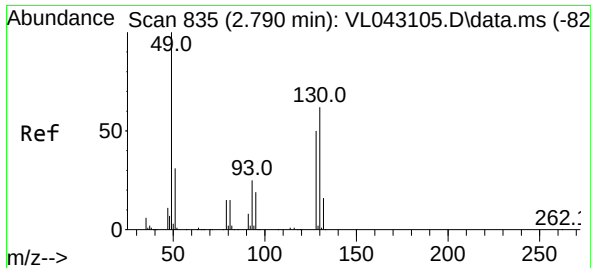
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	170038	9.106	ppbv	95
47) 1,1,2-Trichloroethane	6.590	97	108965	9.000	ppbv	96
48) Dibromochloromethane	7.396	129	184757	9.127	ppbv	100
49) Bromoform	9.490	173	147759	8.980	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	263070	8.709	ppbv	100
51) 2-Hexanone	7.441	43	203876	8.999	ppbv #	99
52) Tetrachloroethene	8.231	164	96000	8.681	ppbv	97
53) Toluene	6.943	91	324944	8.928	ppbv	100
54) 1,2-Dibromoethane	7.661	107	167936	8.856	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	166059	9.031	ppbv	98
57) Chlorobenzene	8.930	112	239309	8.770	ppbv	99
58) Ethyl Benzene	9.361	91	450029	8.990	ppbv	99
59) m/p-Xylene	9.558	91	715191m	17.913	ppbv	
60) o-Xylene	9.969	91	348346	8.834	ppbv	100
61) Styrene	9.878	104	161979	9.099	ppbv	98
62) Isopropylbenzene	10.545	105	621758	8.726	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	215911	8.177	ppbv	100
64) n-propylbenzene	10.995	120	160411	8.503	ppbv	94
65) tert-Butylbenzene	11.536	119	532570	8.464	ppbv	98
66) Benzyl Chloride	11.620	91	58169	8.306	ppbv	98
67) sec-Butylbenzene	11.772	105	762711	8.541	ppbv	98
69) p-Isopropyltoluene	11.930	119	638261	8.411	ppbv	99
70) n-Butylbenzene	12.286	91	641547	8.579	ppbv	99
71) 2-Chlorotoluene	10.904	91	479799	8.828	ppbv	99
72) 4-Ethyltoluene	11.128	105	427034	8.807	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	354875	8.874	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	372506	8.324	ppbv	92
75) 1,3-Dichlorobenzene	11.610	146	219423	8.454	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	221364	8.458	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	204178	8.132	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	144646	7.440	ppbv	99
79) Naphthalene	13.516	128	389814	8.334	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	123632	10.146	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	162553	8.373	ppbv	98

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

Manual Integrations

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





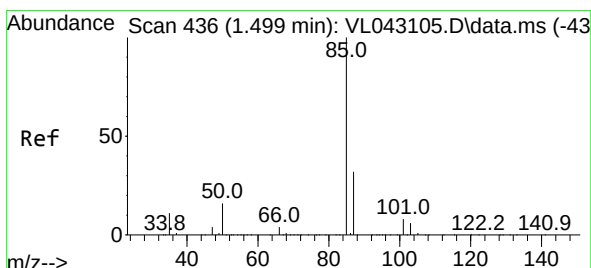
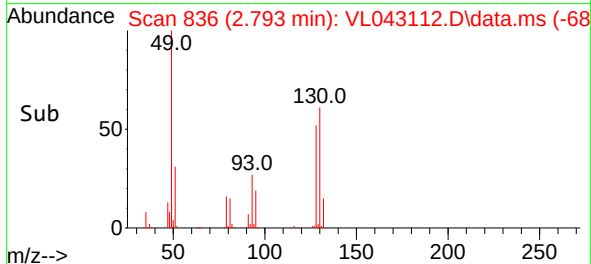
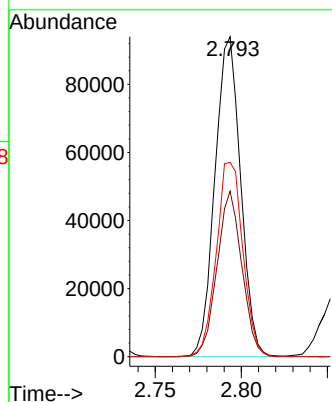
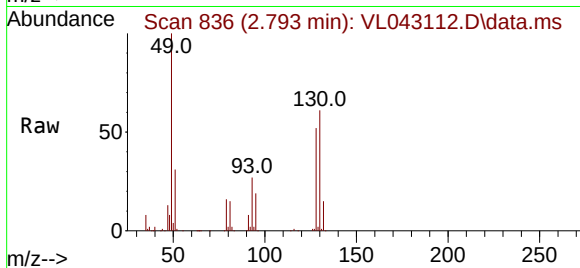
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 49 Resp: 9756
Ion Ratio Lower Upper
49 100
128 50.0 24.4 73.4
130 62.8 31.0 93.0

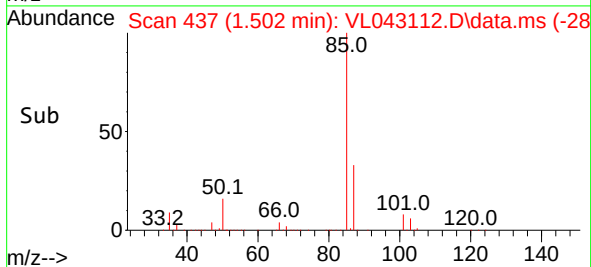
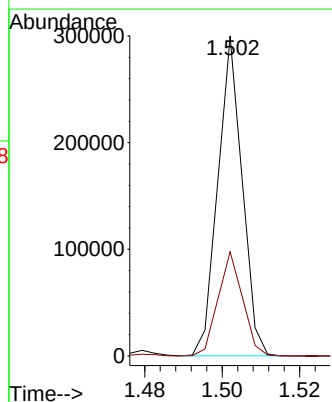
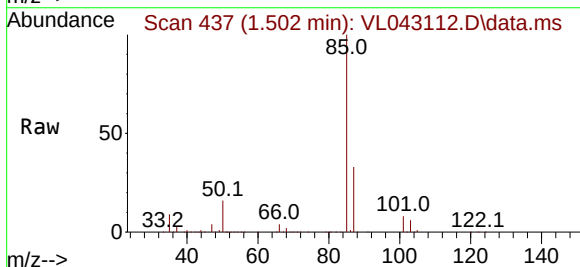
Manual Integrations
APPROVED

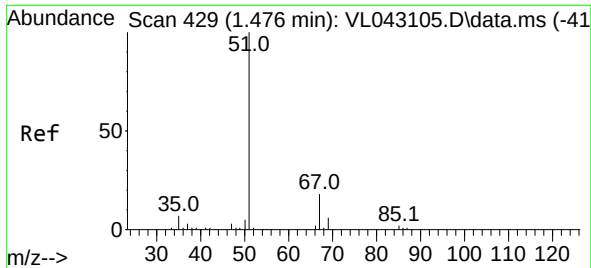
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 9.425 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 130726
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9





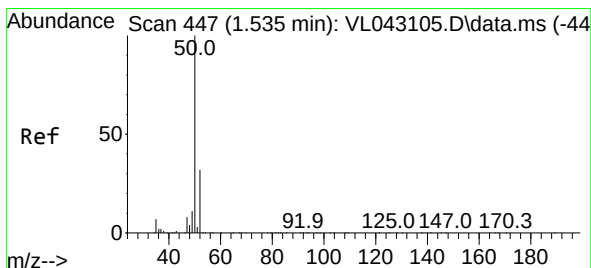
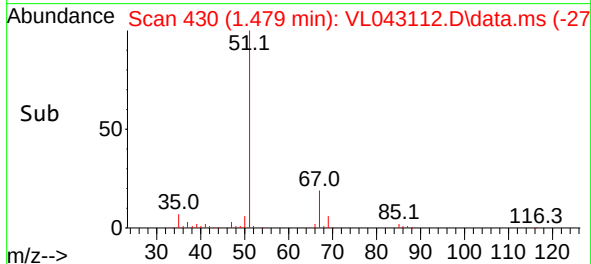
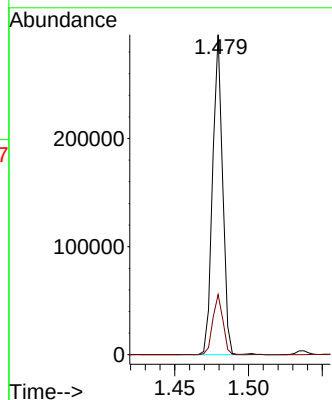
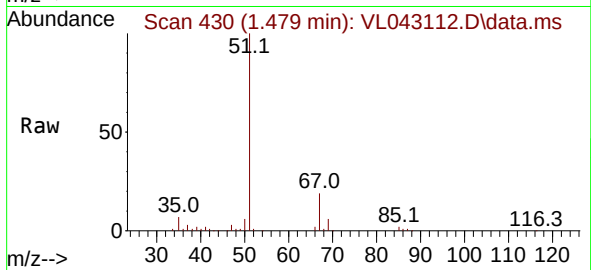
#3
Chlorodifluoromethane
Concen: 9.260 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 51 Resp: 138950
Ion Ratio Lower Upper
51 100
67 19.1 15.1 22.7

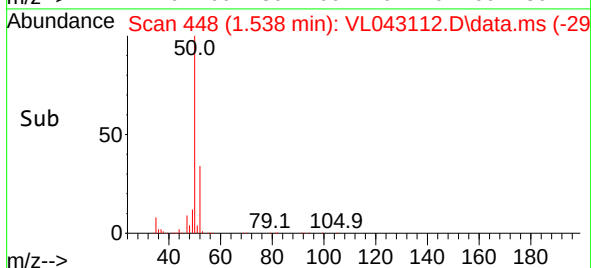
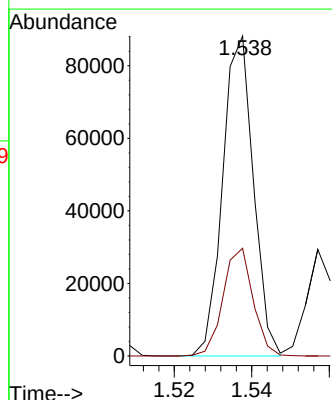
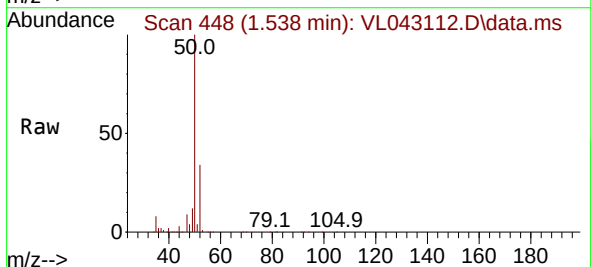
Manual Integrations
APPROVED

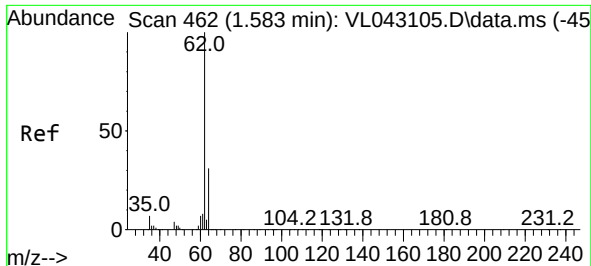
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 8.867 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

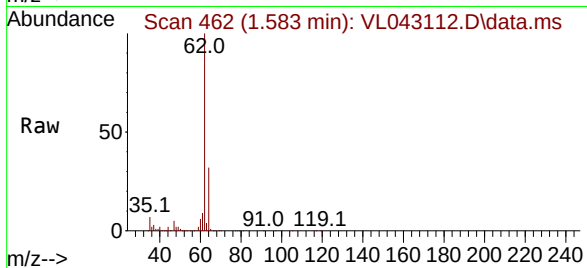
Tgt Ion: 50 Resp: 48722
Ion Ratio Lower Upper
50 100
52 33.4 25.2 37.8





#5
 Vinyl Chloride
 Concen: 8.722 ppbv
 RT: 1.583 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

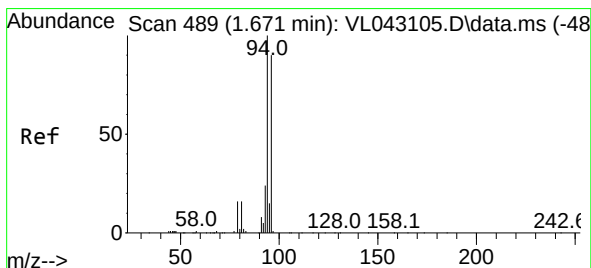
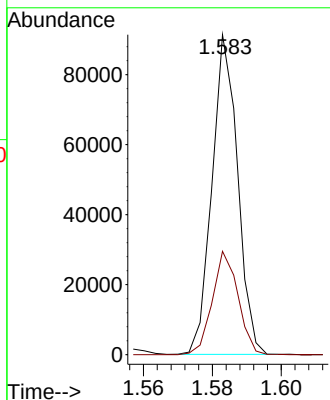
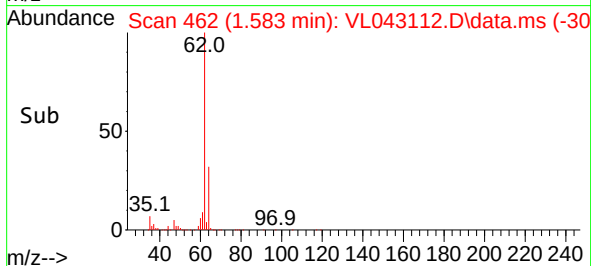
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



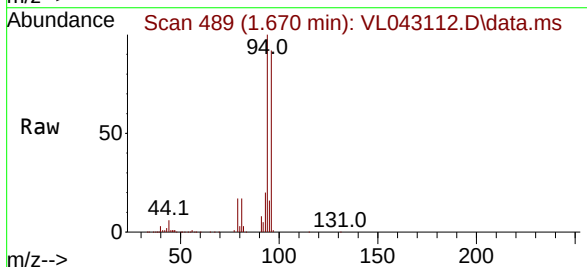
Tgt Ion: 62 Resp: 4700
 Ion Ratio Lower Upper
 62 100
 64 32.3 24.6 36.8

Manual Integrations
 APPROVED

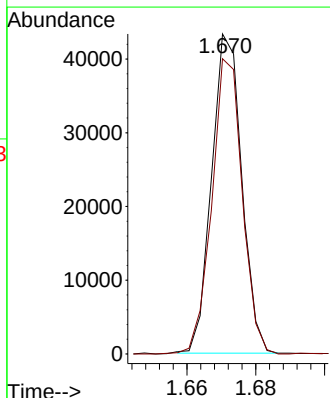
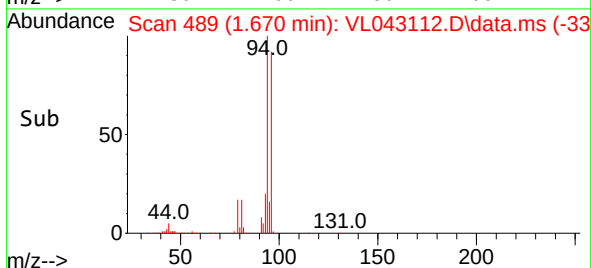
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

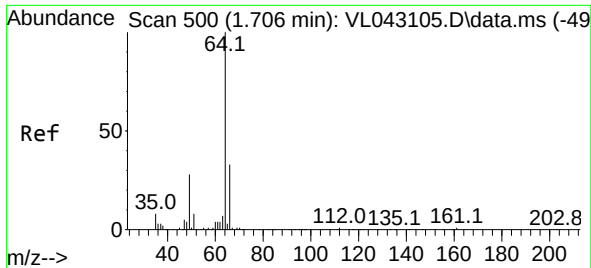


#6
 Bromomethane
 Concen: 8.901 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



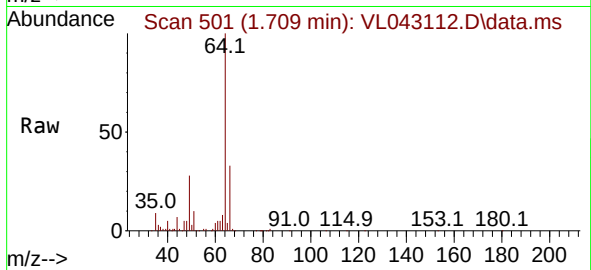
Tgt Ion: 94 Resp: 26304
 Ion Ratio Lower Upper
 94 100
 96 92.5 72.2 108.4





#7
Chloroethane
Concen: 8.685 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

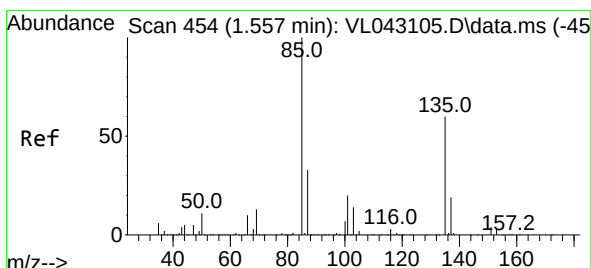
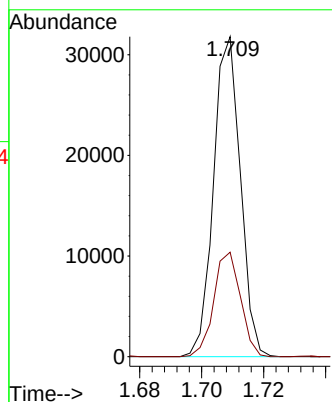
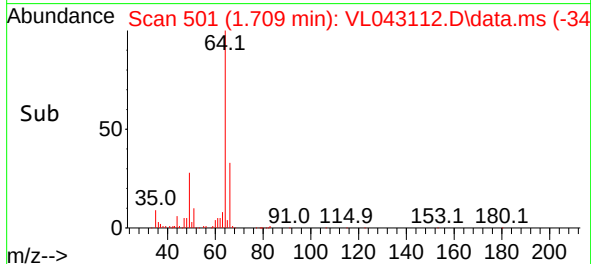
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 64 Resp: 19138
Ion Ratio Lower Upper
64 100
66 32.7 26.0 39.0

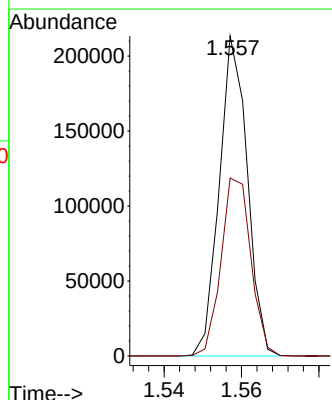
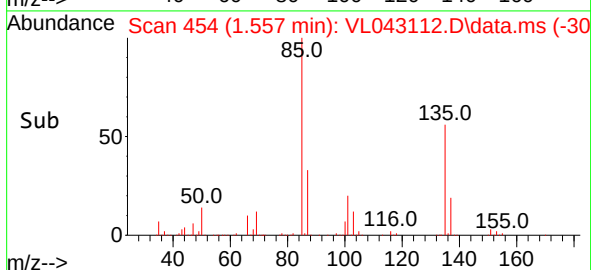
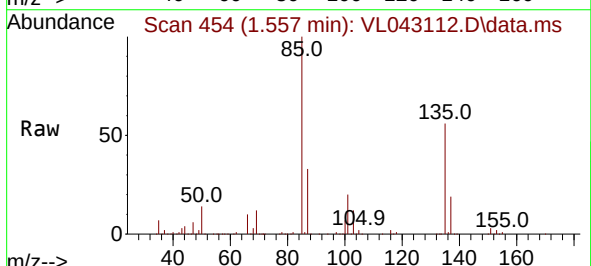
Manual Integrations
APPROVED

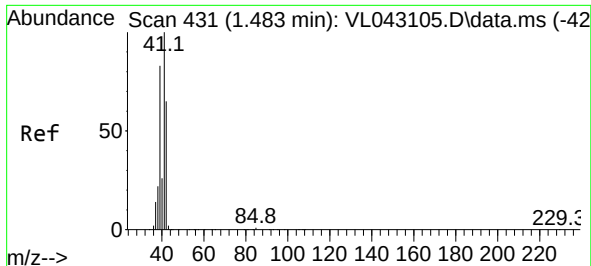
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 9.558 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

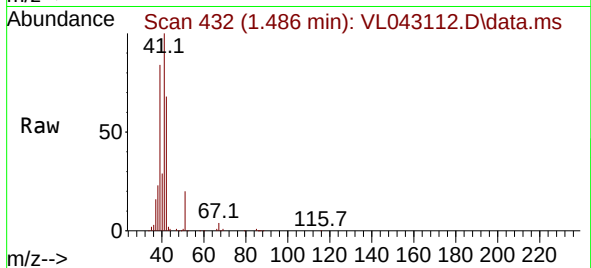
Tgt Ion: 85 Resp: 107147
Ion Ratio Lower Upper
85 100
135 59.5 48.2 72.4





#9
 Propene
 Concen: 8.908 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

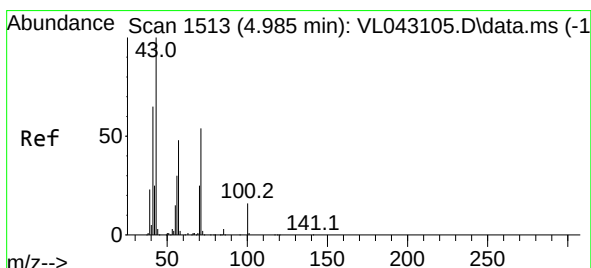
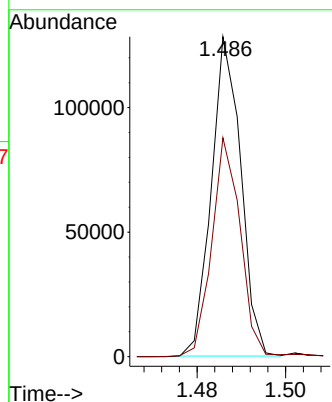
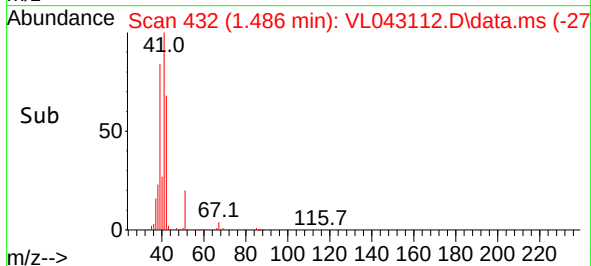
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



Tgt Ion: 41 Resp: 5928
 Ion Ratio Lower Upper
 41 100
 42 67.3 55.1 82.7

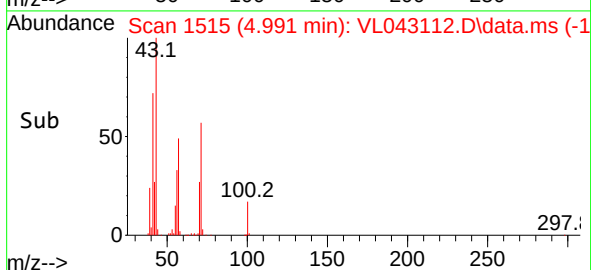
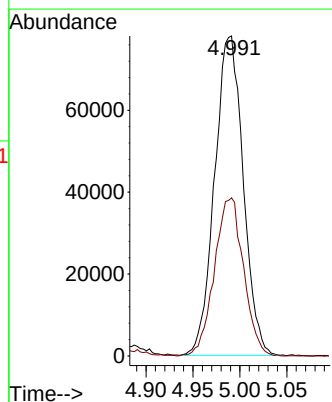
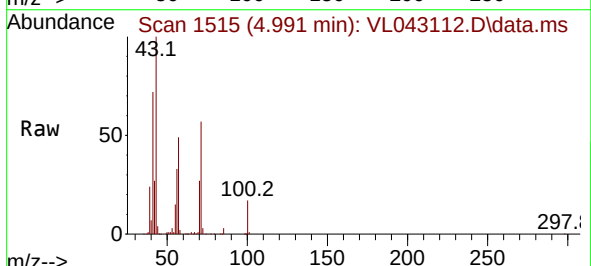
Manual Integrations
 APPROVED

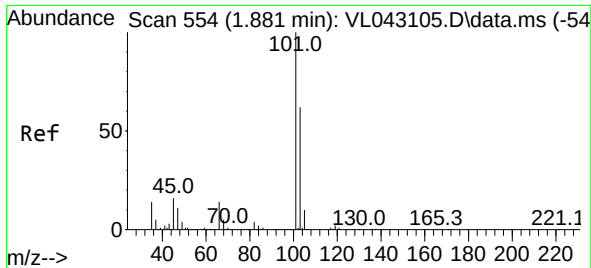
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#10
 Heptane
 Concen: 8.629 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.006 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

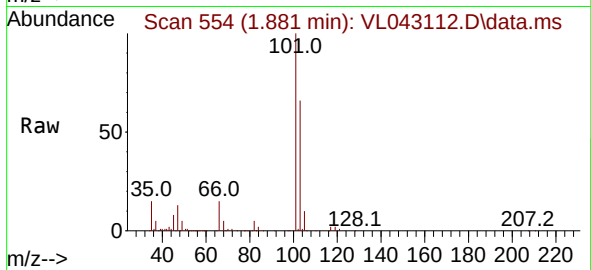
Tgt Ion: 43 Resp: 165341
 Ion Ratio Lower Upper
 43 100
 57 50.4 40.8 61.2





#11
 Trichlorofluoromethane
 Concen: 9.762 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

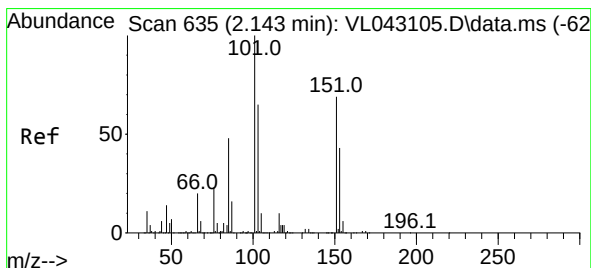
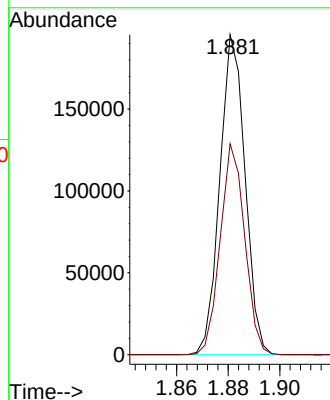
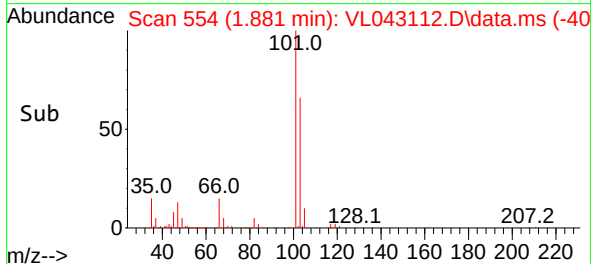
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



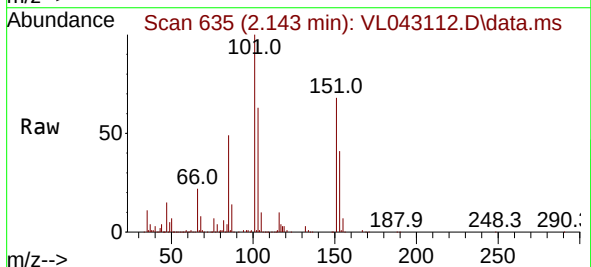
Tgt Ion:101 Resp: 13244
 Ion Ratio Lower Upper
 101 100
 103 65.9 49.3 73.9

Manual Integrations
 APPROVED

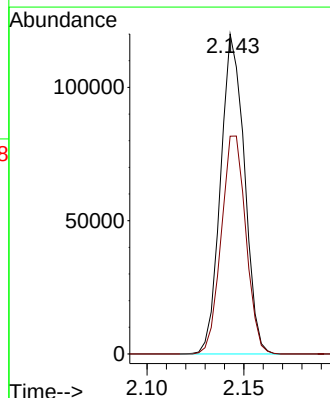
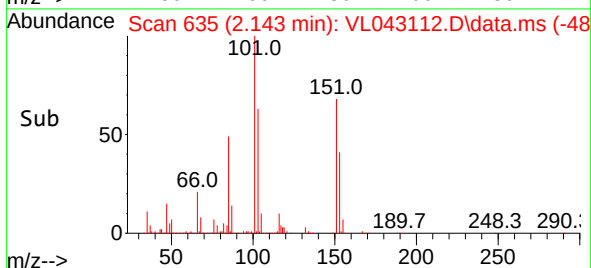
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

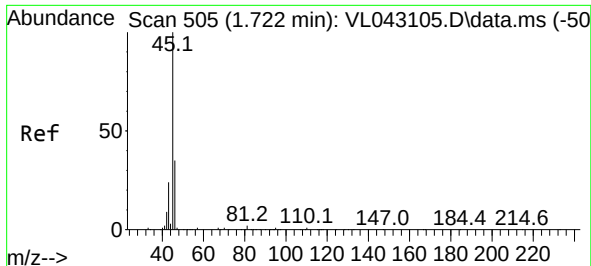


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.380 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



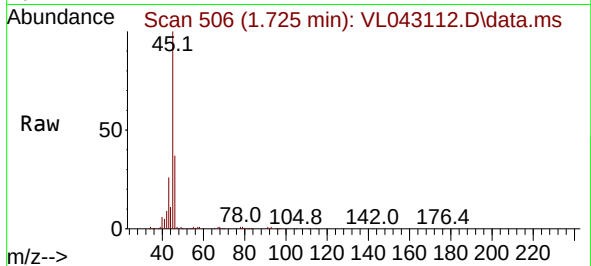
Tgt Ion:101 Resp: 102449
 Ion Ratio Lower Upper
 101 100
 151 70.4 54.7 82.1





#13
Ethanol
Concen: 7.173 ppbv m
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

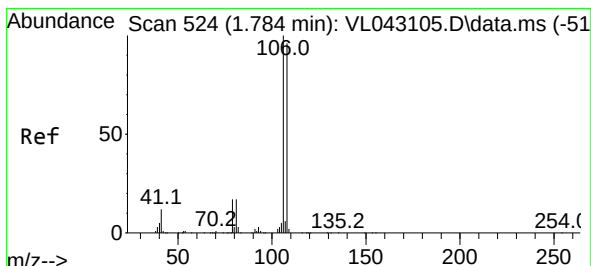
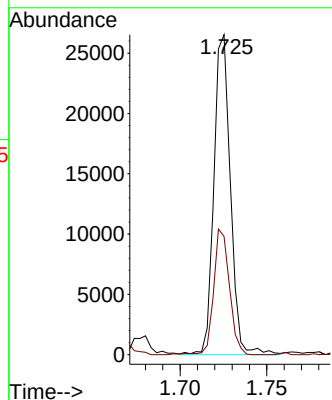
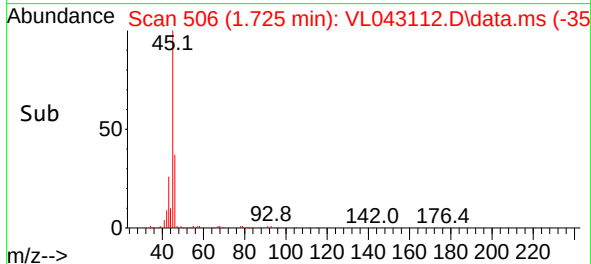
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



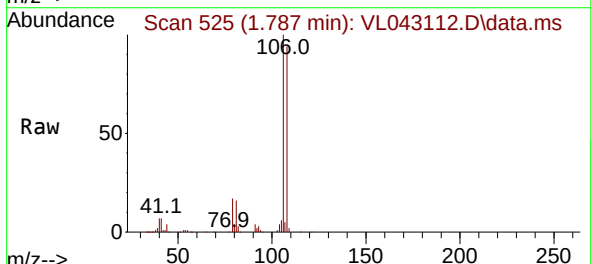
Tgt Ion: 45 Resp: 17659
Ion Ratio Lower Upper
45 100
46 37.4 14.7 58.9

Manual Integrations
APPROVED

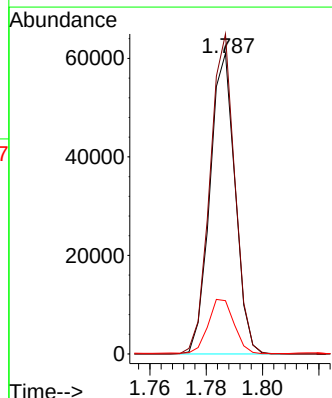
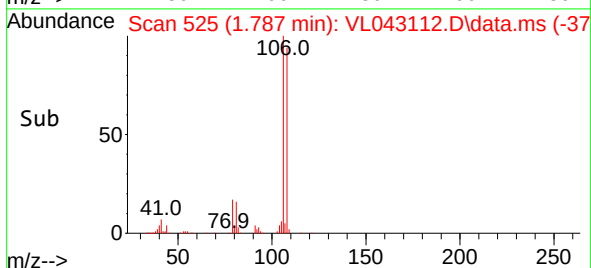
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

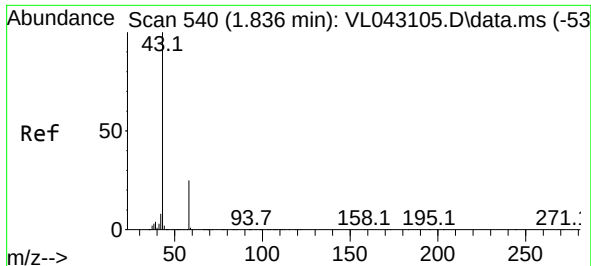


#14
Bromoethene
Concen: 9.324 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



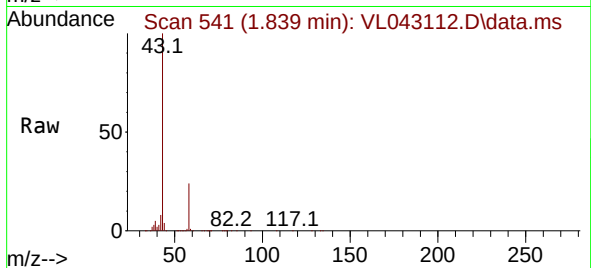
Tgt Ion:108 Resp: 37835
Ion Ratio Lower Upper
108 100
106 105.3 84.4 126.6
79 18.7 15.3 22.9





#15
Acetone
Concen: 8.214 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

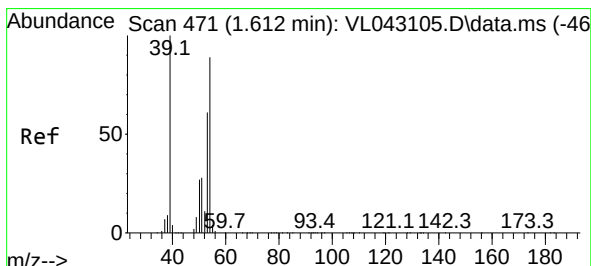
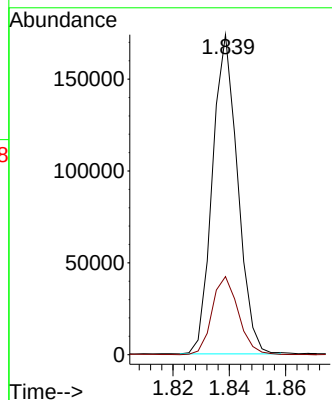
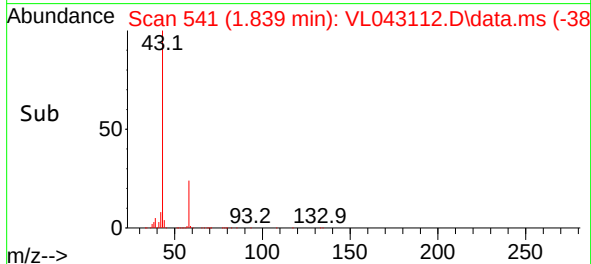
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



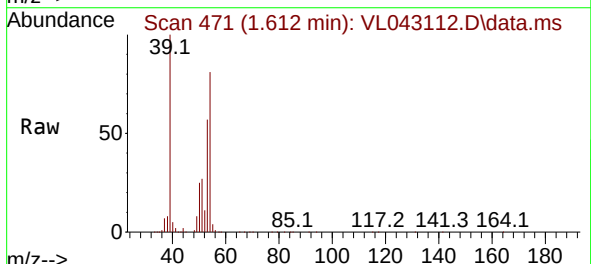
Tgt Ion: 43 Resp: 108010
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2

Manual Integrations
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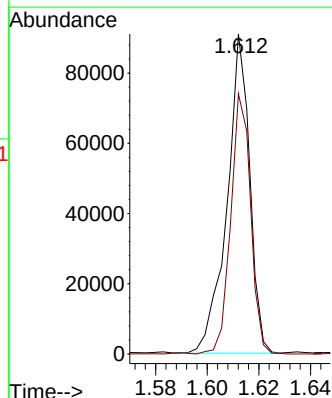
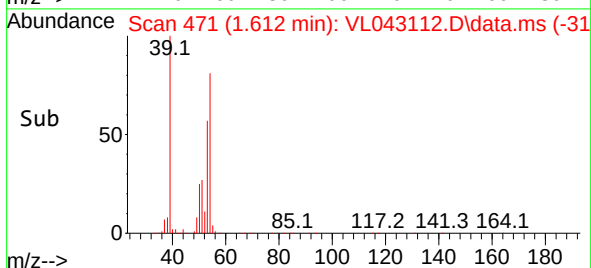
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

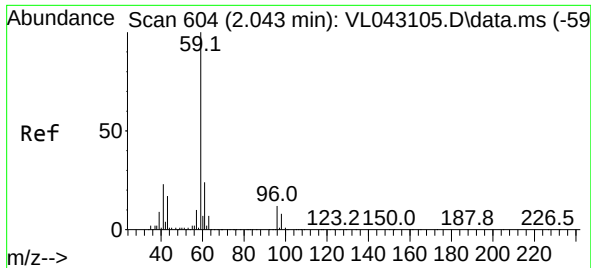


#16
1,3-Butadiene
Concen: 8.855 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



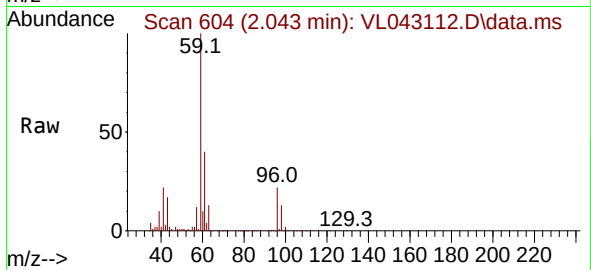
Tgt Ion: 39 Resp: 55493
Ion Ratio Lower Upper
39 100
54 72.0 59.0 88.4





#17
tert-Butyl alcohol
Concen: 9.012 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

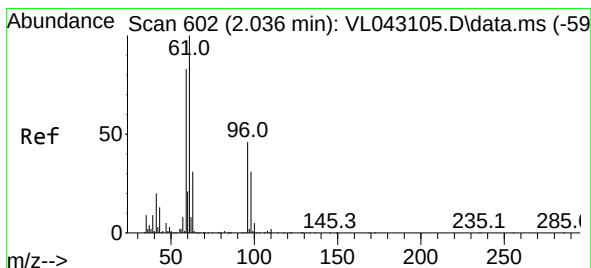
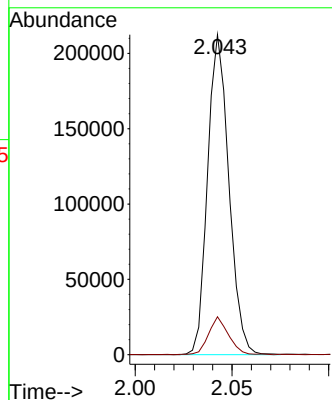
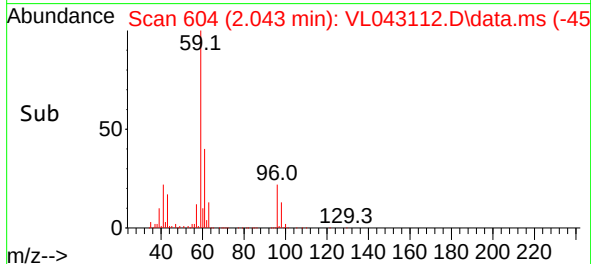
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



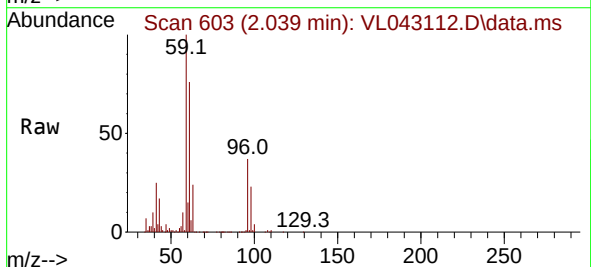
Tgt Ion: 59 Resp: 162672
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.4

Manual Integrations
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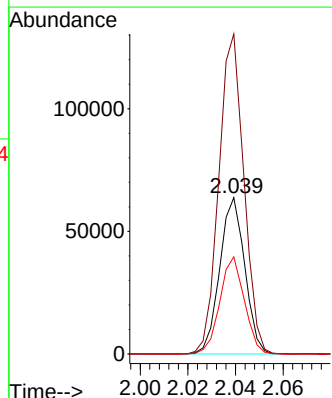
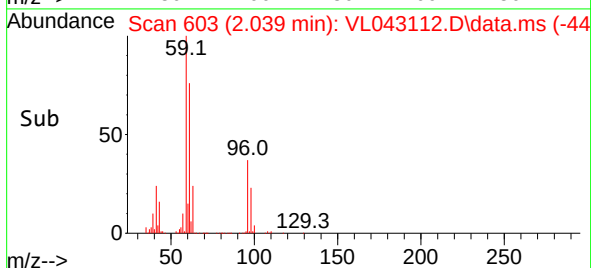
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

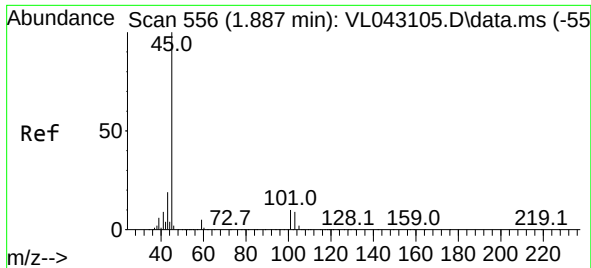


#18
1,1-Dichloroethene
Concen: 9.774 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



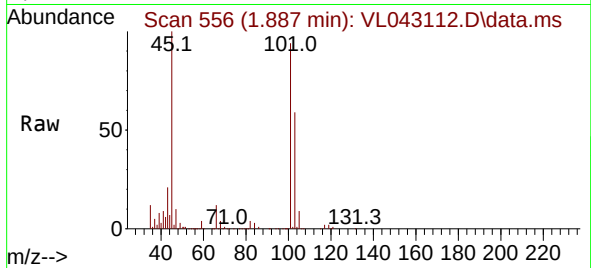
Tgt Ion: 96 Resp: 46544
Ion Ratio Lower Upper
96 100
61 204.7 173.4 260.0
98 62.1 53.2 79.8





#19
Isopropyl Alcohol
Concen: 8.248 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

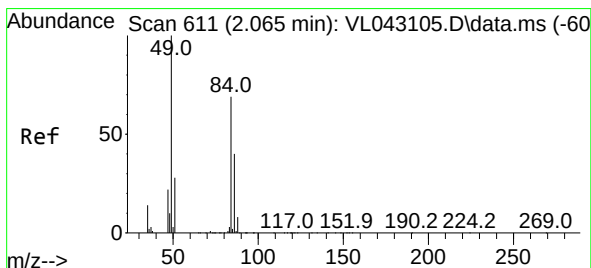
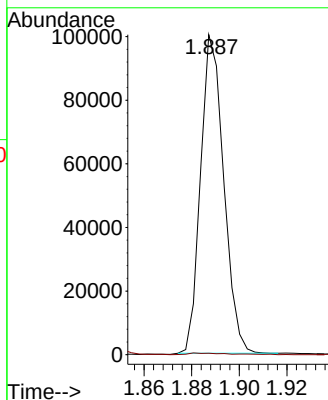
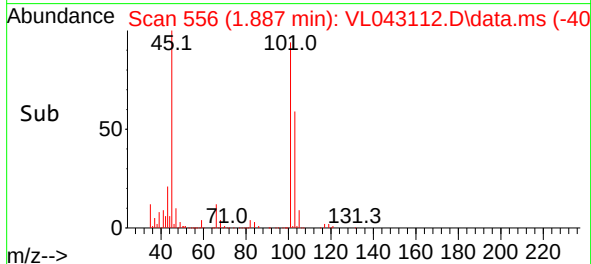
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



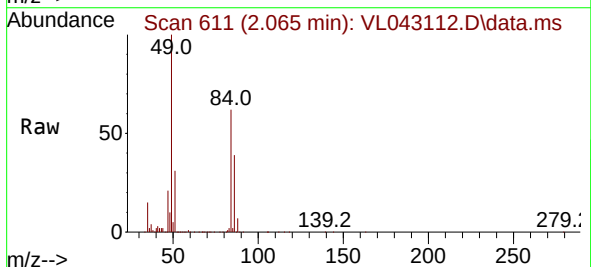
Tgt Ion: 45 Resp: 67552
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9

Manual Integrations
APPROVED

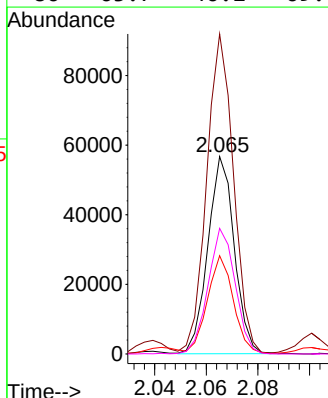
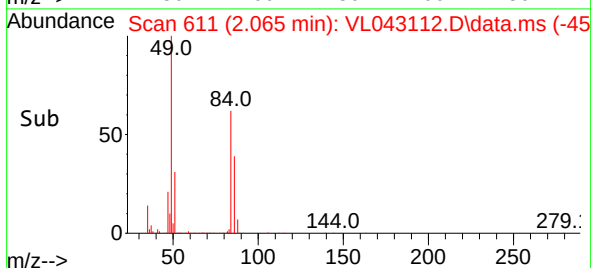
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

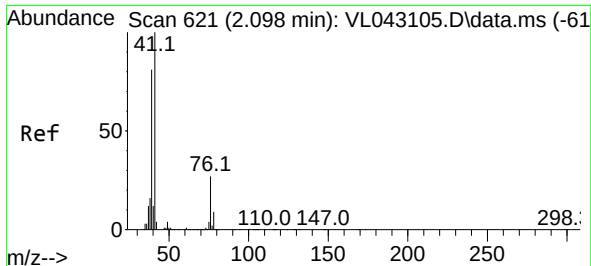


#20
Methylene Chloride
Concen: 7.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion: 84 Resp: 40319
Ion Ratio Lower Upper
84 100
49 161.4 116.6 175.0
51 49.4 34.8 52.2
86 63.7 46.2 69.4





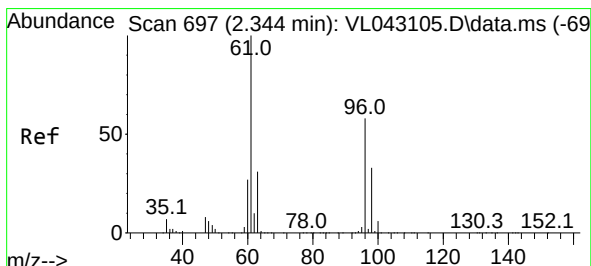
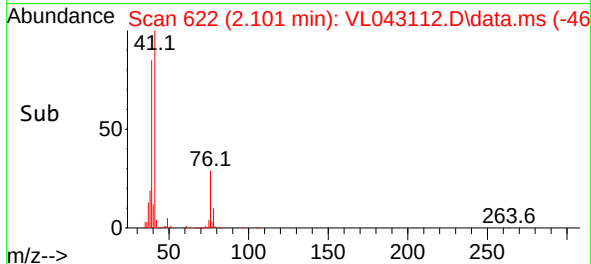
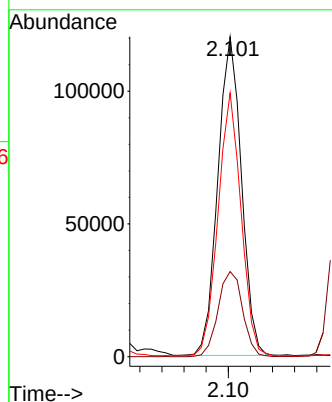
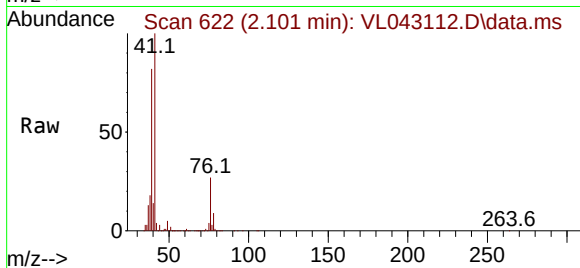
#21
 Allyl Chloride
 Concen: 9.181 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Tgt Ion: 41 Resp: 8896
 Ion Ratio Lower Upper
 41 100
 76 27.7 21.5 32.3
 39 80.2 60.8 91.2

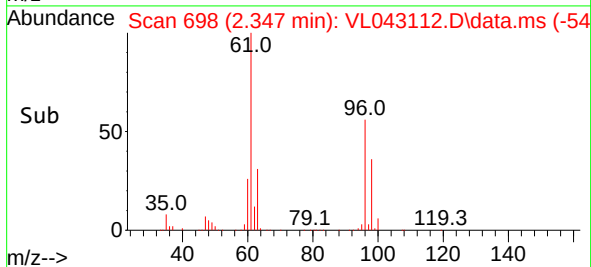
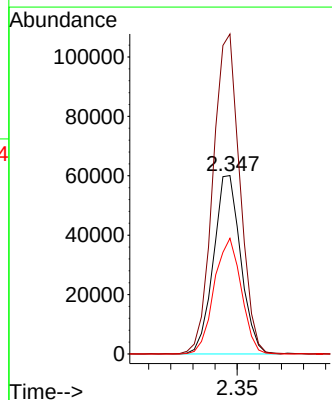
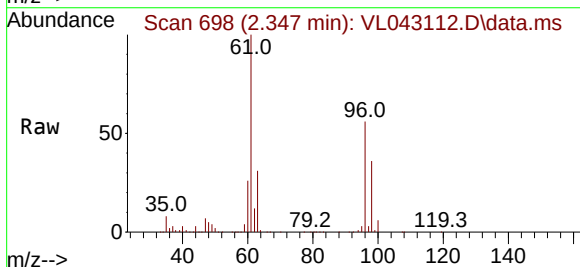
Manual Integrations
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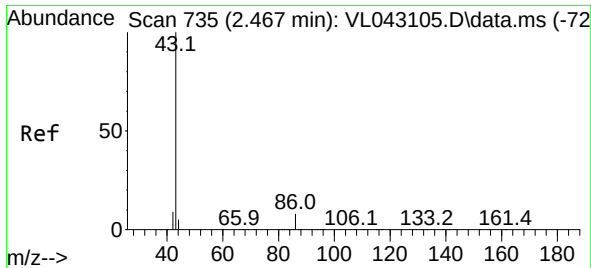
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.011 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 51295
 Ion Ratio Lower Upper
 96 100
 61 179.2 137.0 205.6
 98 64.8 45.5 68.3





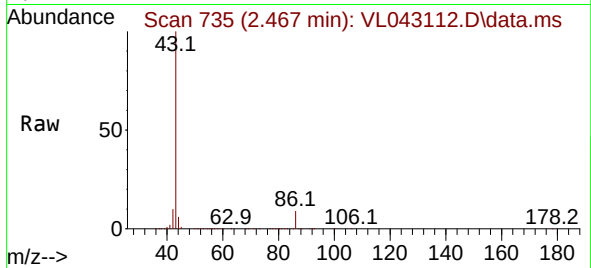
#23
 Vinyl Acetate
 Concen: 9.621 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

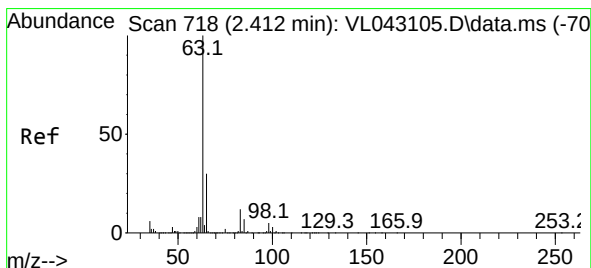
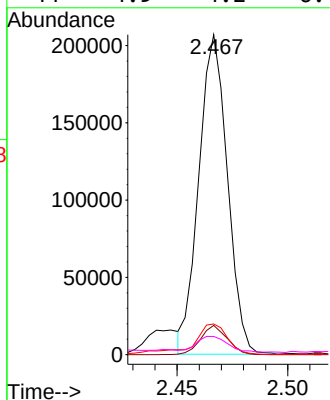
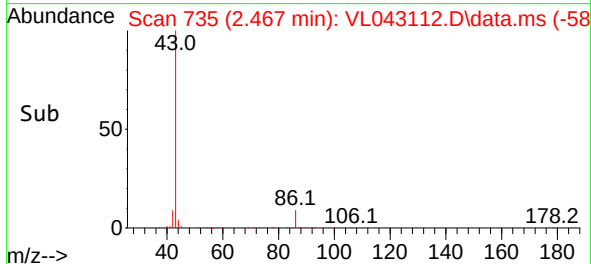


Tgt Ion: 43 Resp: 185329
 Ion Ratio Lower Upper
 43 100
 86 9.2 6.2 9.2
 42 9.5 7.6 11.4
 44 4.9 4.2 6.4

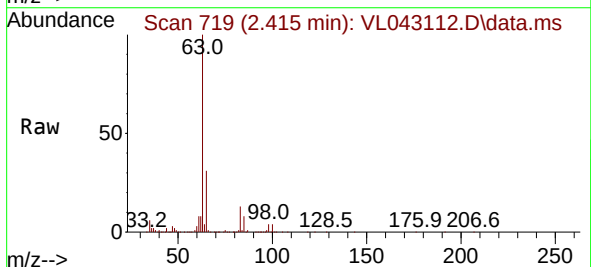
Manual Integrations

APPROVED

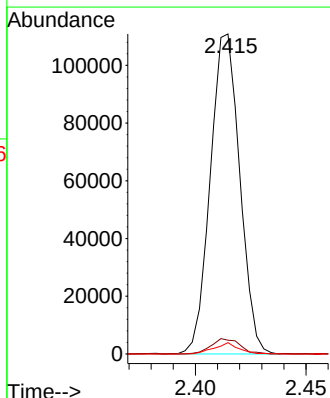
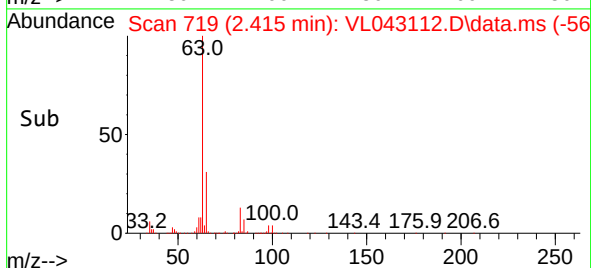
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

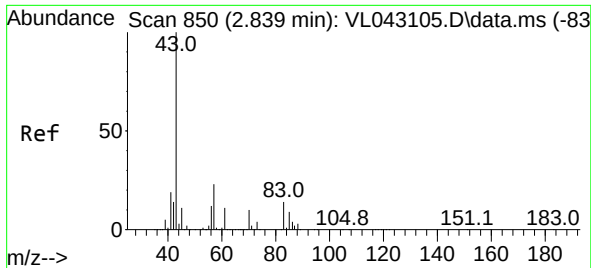


#24
 1,1-Dichloroethane
 Concen: 9.355 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



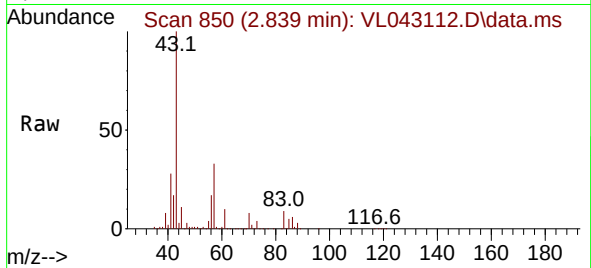
Tgt Ion: 63 Resp: 102877
 Ion Ratio Lower Upper
 63 100
 98 4.3 2.6 7.8
 100 3.5 1.5 4.4





#25
Ethyl Acetate
Concen: 8.966 ppbv
RT: 2.839 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

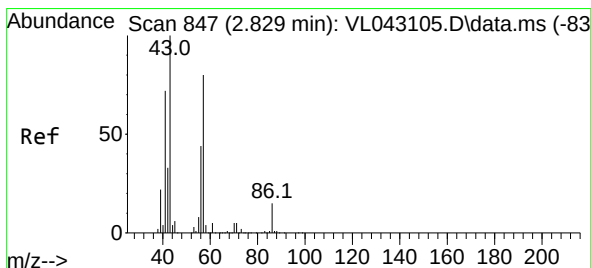
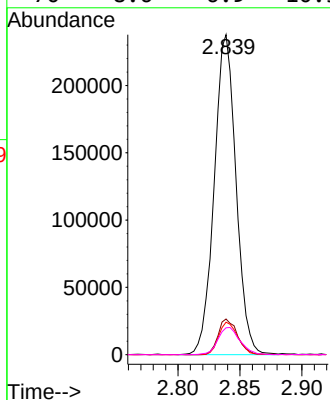
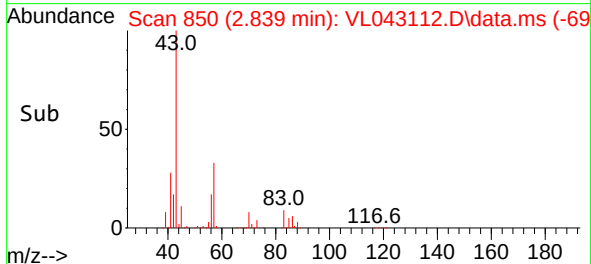
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 43 Resp: 292399
Ion Ratio Lower Upper
43 100
45 10.0 7.8 11.8
61 9.0 7.0 10.6
70 8.6 6.9 10.3

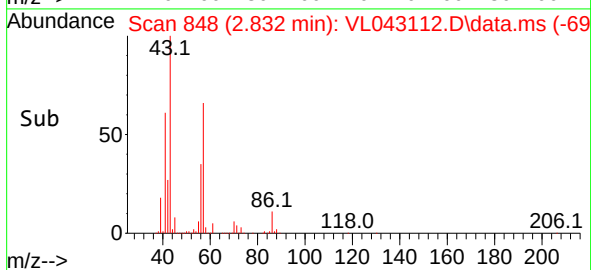
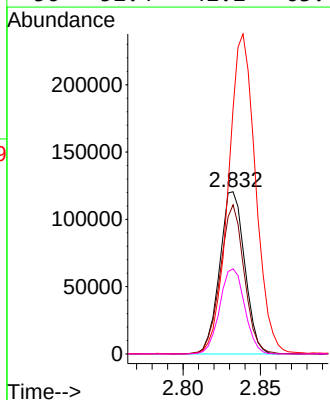
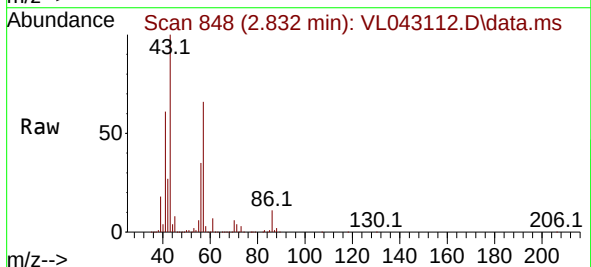
Manual Integrations
APPROVED

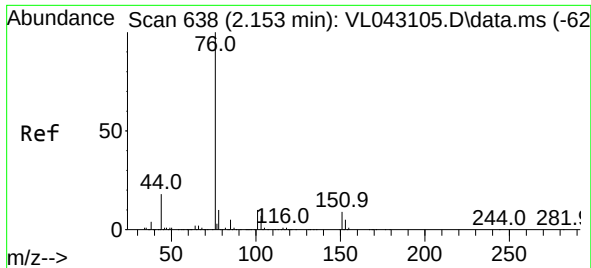
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 9.015 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

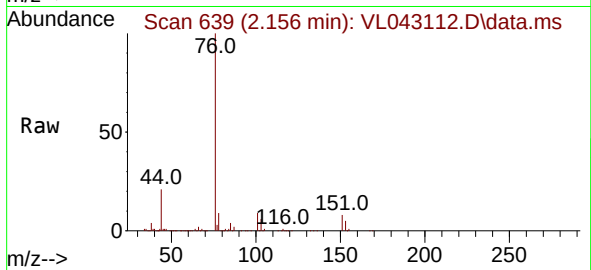
Tgt Ion: 57 Resp: 135463
Ion Ratio Lower Upper
57 100
41 88.9 71.4 107.0
43 216.8 178.5 267.7
56 52.4 42.2 63.4





#27
Carbon Disulfide
Concen: 9.520 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

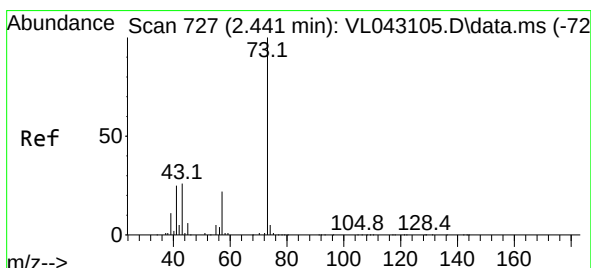
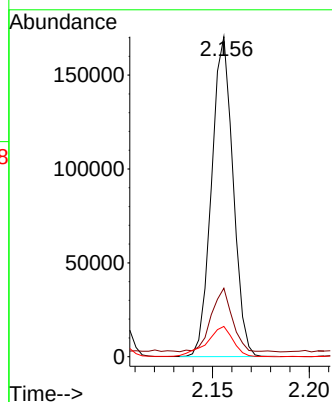
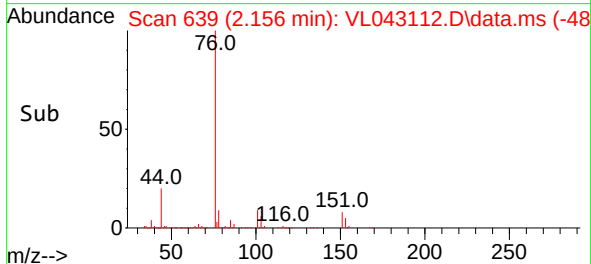
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



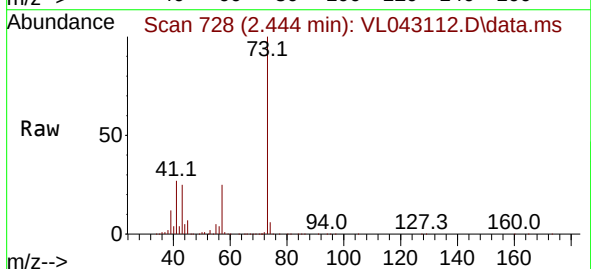
Tgt Ion: 76 Resp: 131064
Ion Ratio Lower Upper
76 100
44 20.7 16.7 25.1
78 11.7 9.3 13.9

Manual Integrations
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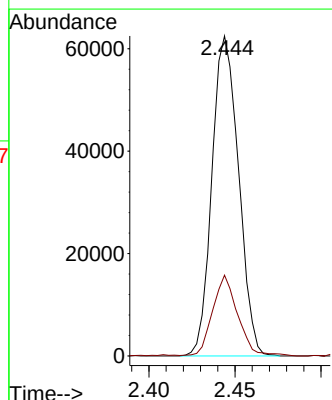
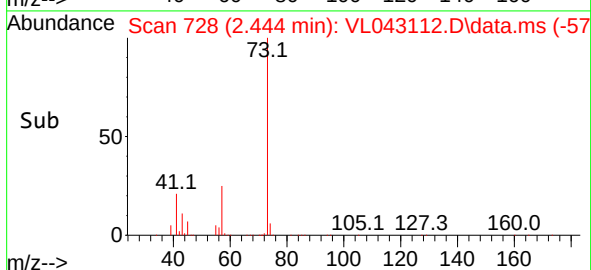
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

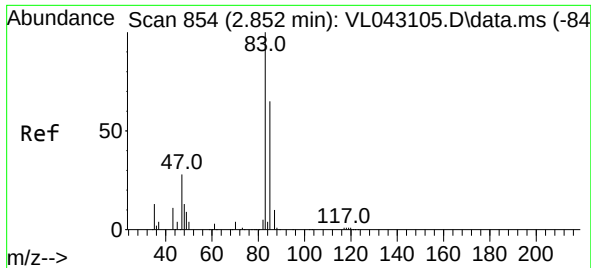


#28
Methyl tert-Butyl Ether
Concen: 9.839 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion: 73 Resp: 67260
Ion Ratio Lower Upper
73 100
57 24.1 20.5 30.7





#29

Chloroform

Concen: 9.412 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion: 83 Resp: 204925

Ion Ratio Lower Upper

83 100

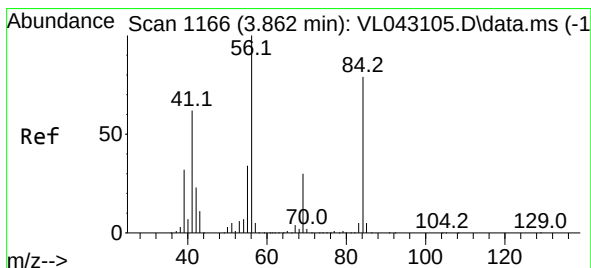
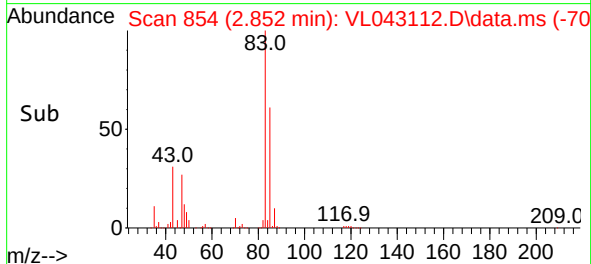
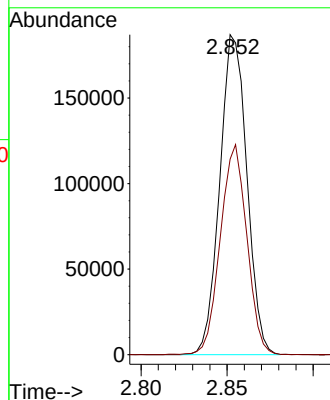
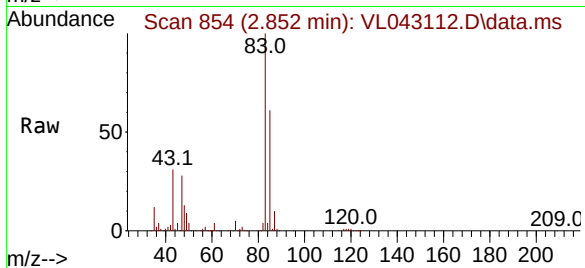
85 61.0 51.8 77.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 9.096 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

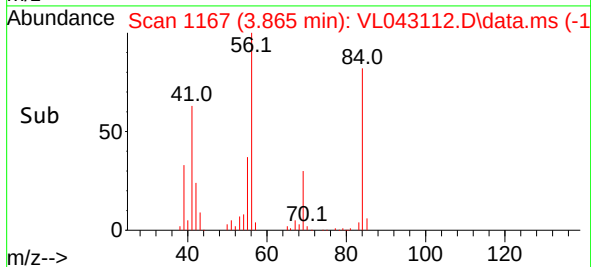
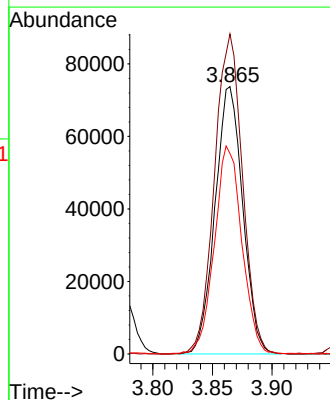
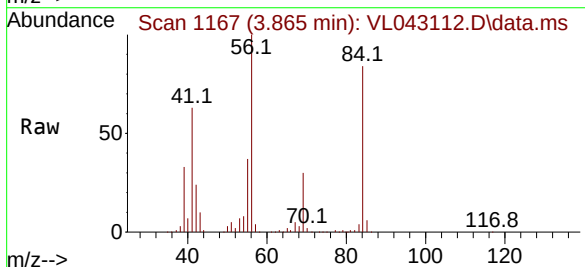
Tgt Ion: 84 Resp: 119287

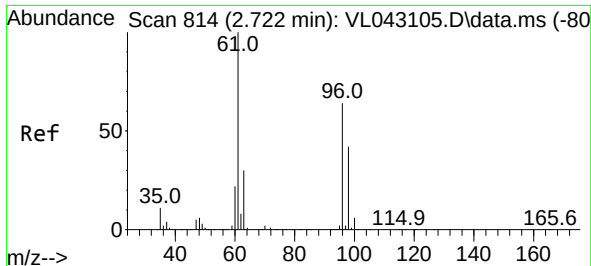
Ion Ratio Lower Upper

84 100

56 120.8 100.9 151.3

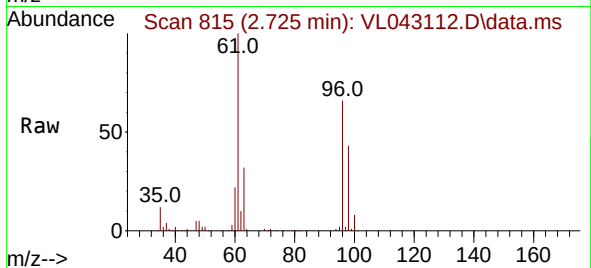
41 77.4 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.580 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

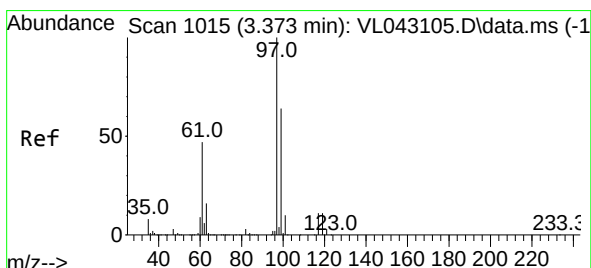
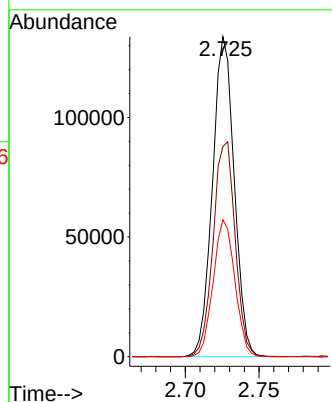
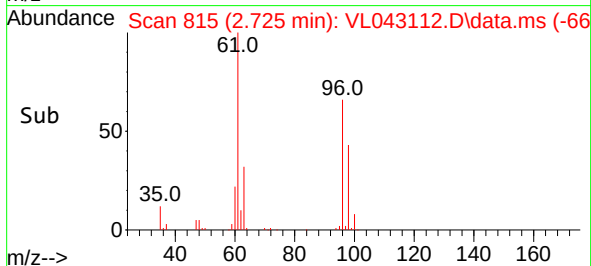
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



Tgt Ion: 61 Resp: 137462
 Ion Ratio Lower Upper
 61 100
 96 65.7 51.0 76.6
 98 42.8 33.5 50.3

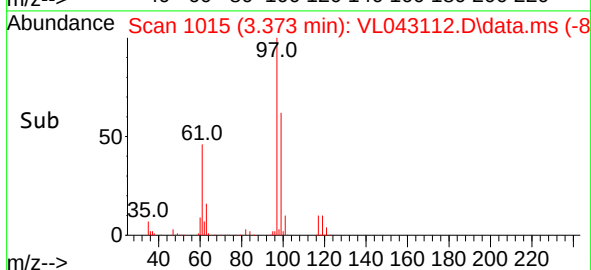
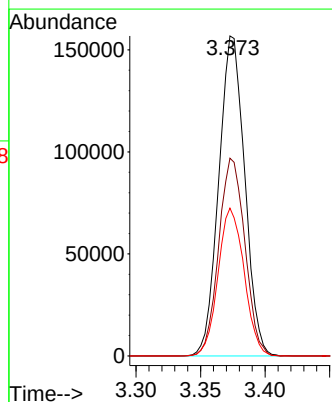
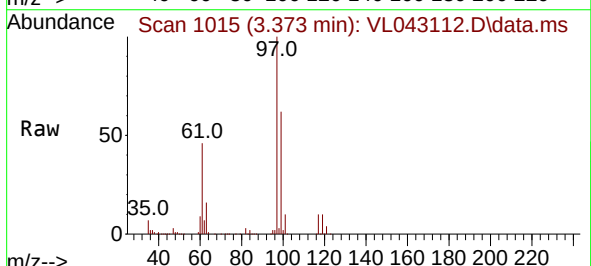
Manual Integrations
 APPROVED

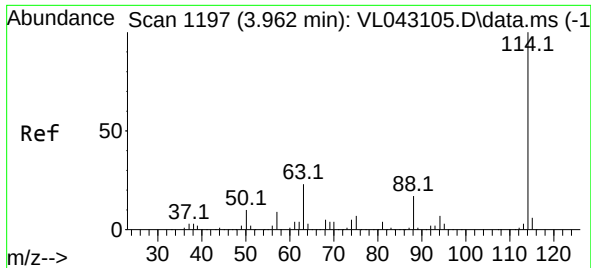
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 9.666 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

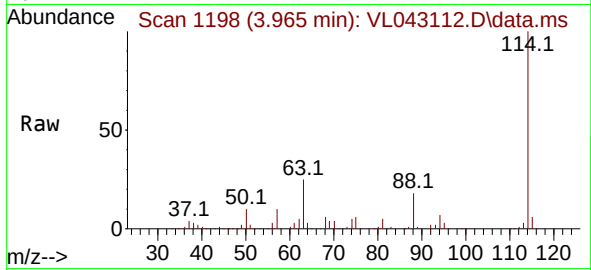
Tgt Ion: 97 Resp: 219167
 Ion Ratio Lower Upper
 97 100
 99 62.3 51.3 76.9
 61 46.4 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

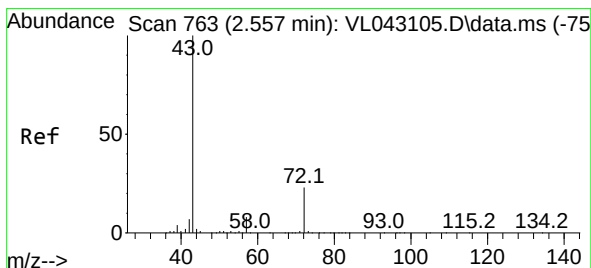
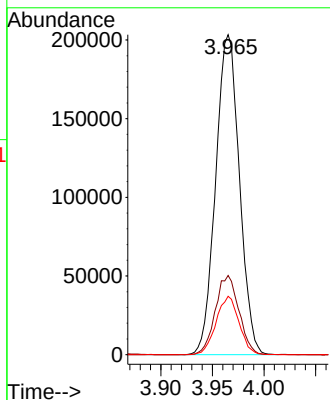
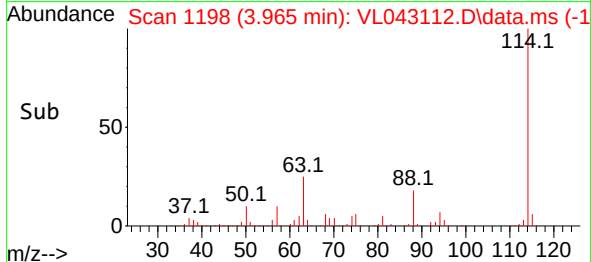
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



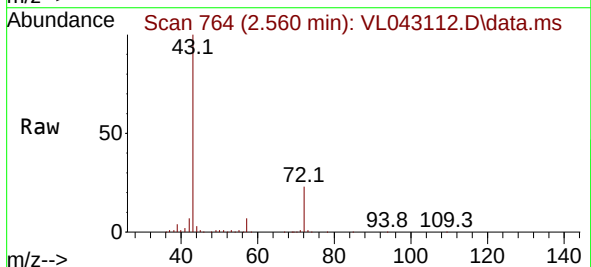
Tgt Ion:114 Resp: 325610
Ion Ratio Lower Upper
114 100
63 24.6 19.3 28.9
88 17.6 13.9 20.9

Manual Integrations
APPROVED

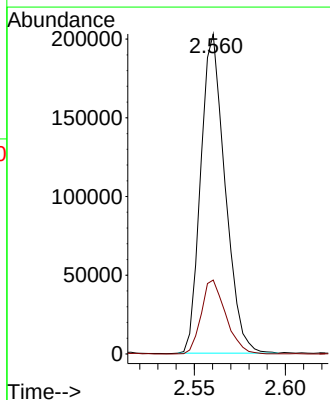
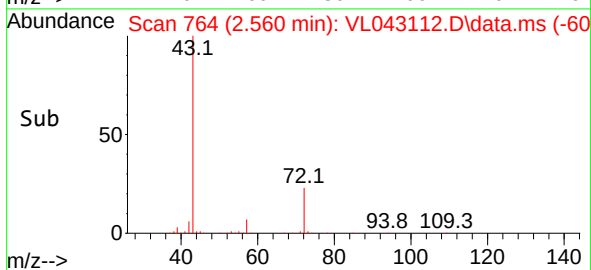
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

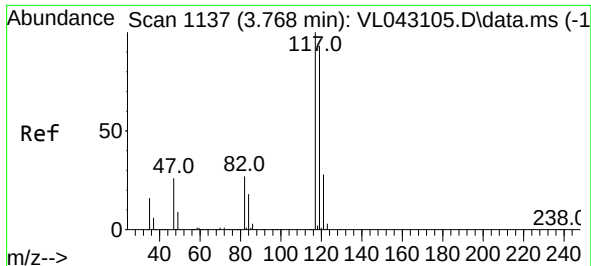


#34
2-Butanone
Concen: 8.624 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



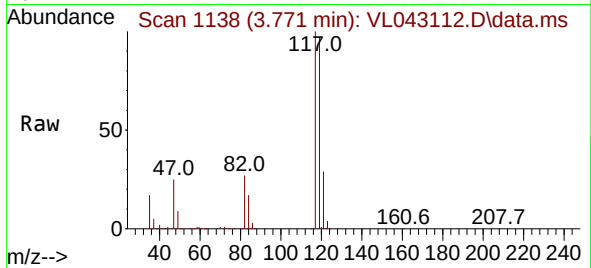
Tgt Ion: 43 Resp: 188755
Ion Ratio Lower Upper
43 100
72 23.4 18.4 27.6





#35
Carbon Tetrachloride
Concen: 9.298 ppbv
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

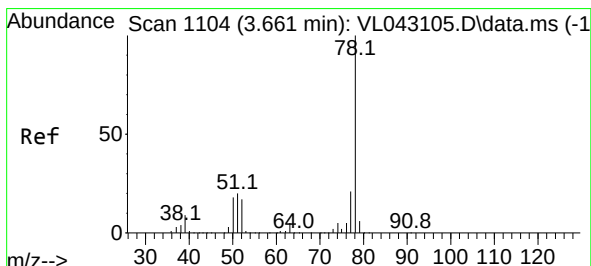
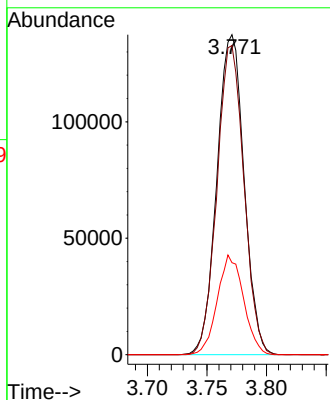
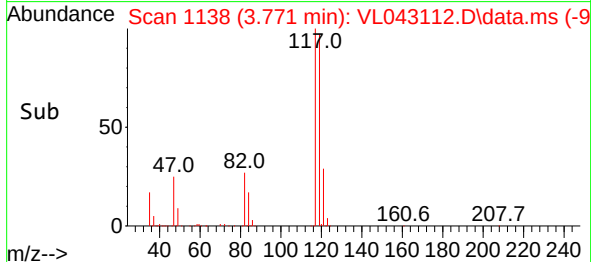
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



Tgt Ion: 117 Resp: 217678
Ion Ratio Lower Upper
117 100
119 96.6 74.1 111.1
121 28.7 22.2 33.2

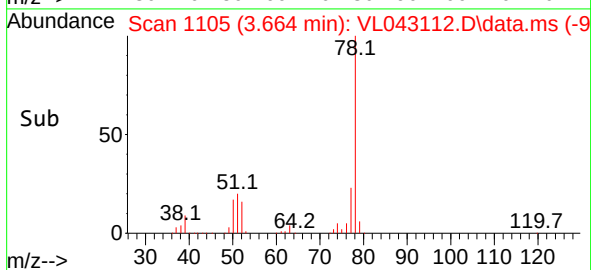
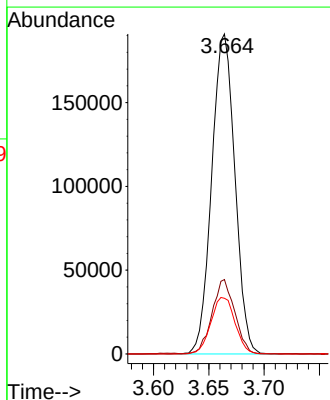
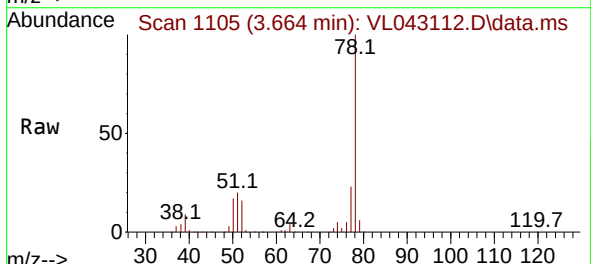
Manual Integrations
APPROVED

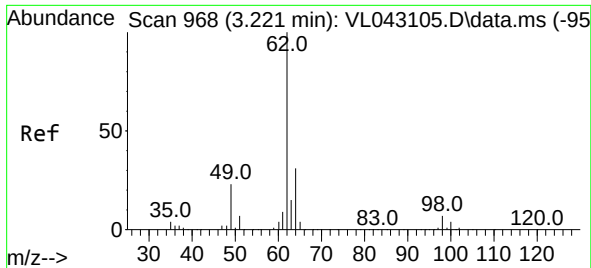
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 9.077 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365
Ion Ratio Lower Upper
78 100
77 23.2 17.0 25.6
50 17.4 14.6 22.0





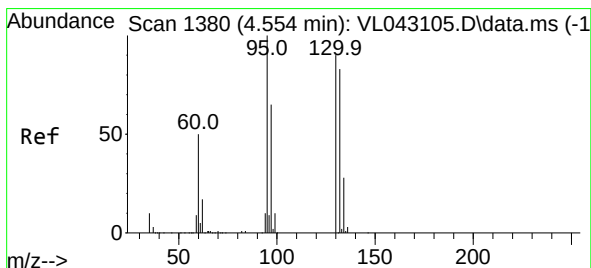
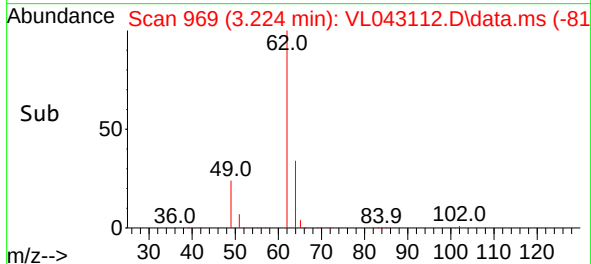
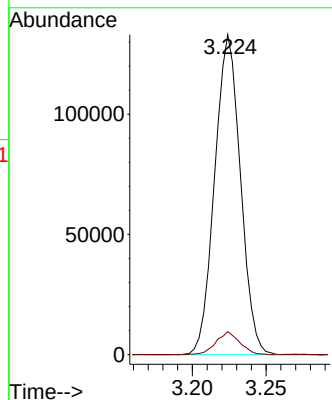
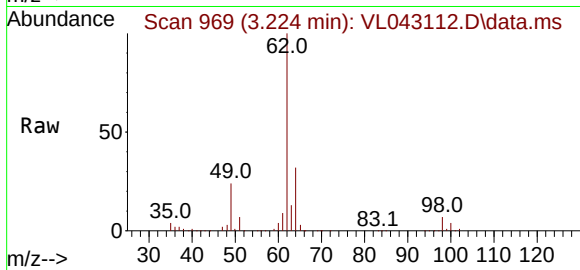
#37
1,2-Dichloroethane
Concen: 9.156 ppbv
RT: 3.224 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 62 Resp: 161750
Ion Ratio Lower Upper
62 100
98 6.7 5.8 8.6

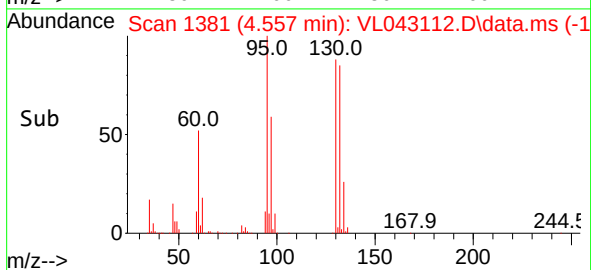
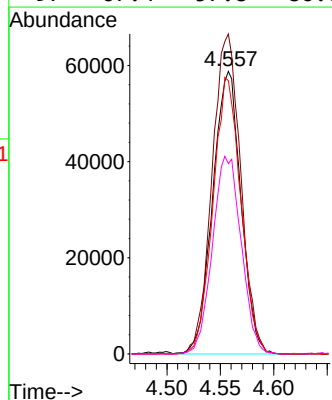
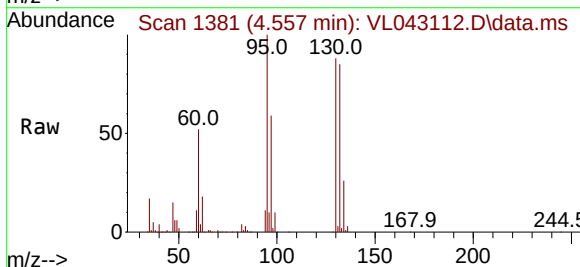
Manual Integrations
APPROVED

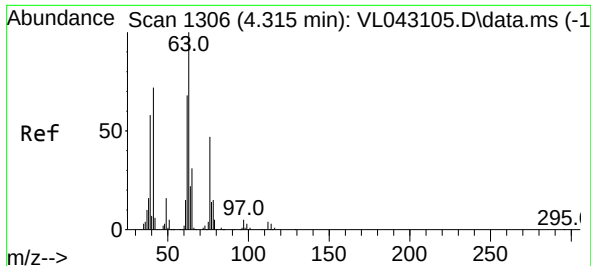
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 8.453 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261
Ion Ratio Lower Upper
130 100
95 113.2 88.6 133.0
132 96.7 73.4 110.0
97 67.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.971 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043112.D

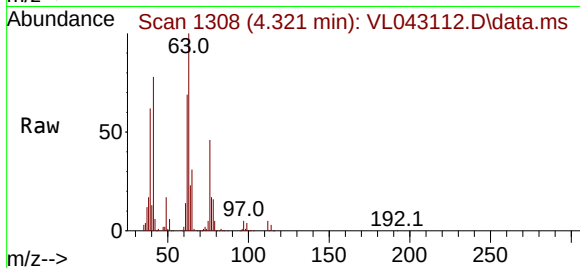
Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425



Tgt Ion: 63 Resp: 100580

Ion Ratio Lower Upper

63 100

41 78.0 58.0 87.0

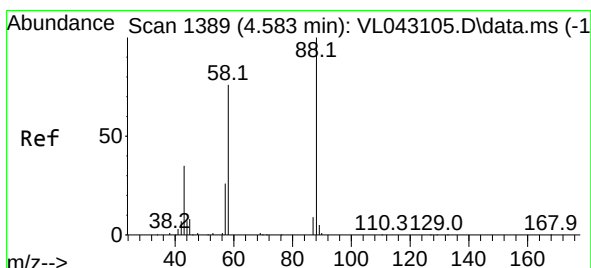
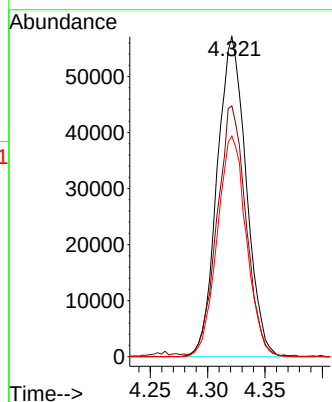
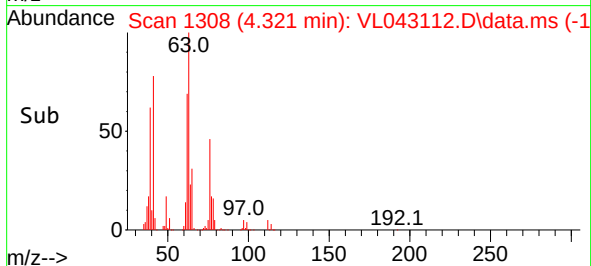
62 69.0 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 8.265 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

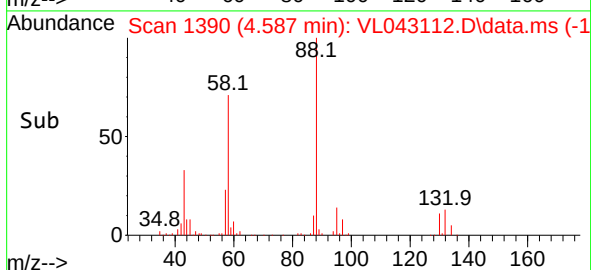
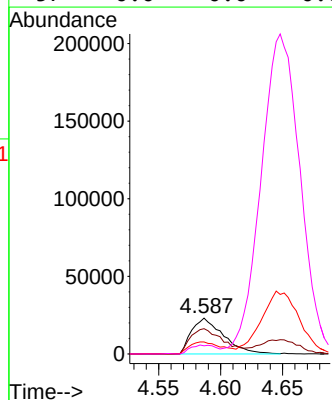
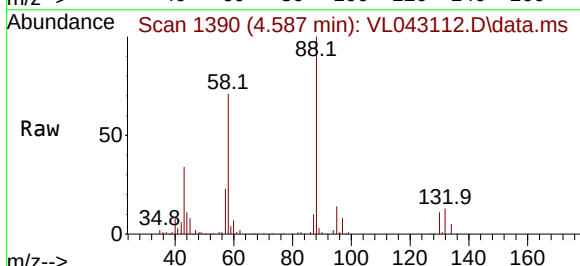
Ion Ratio Lower Upper

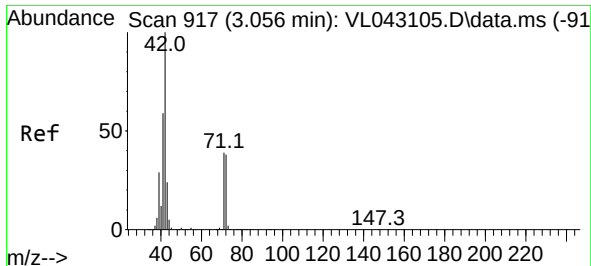
88 100

58 74.2 61.1 91.7

43 35.4 24.0 36.0

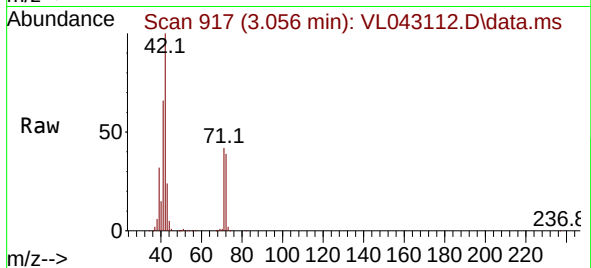
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.553 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

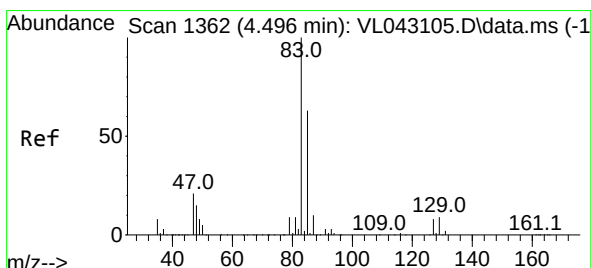
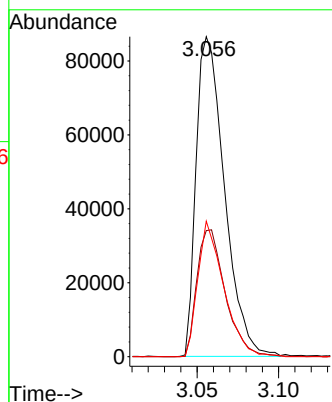
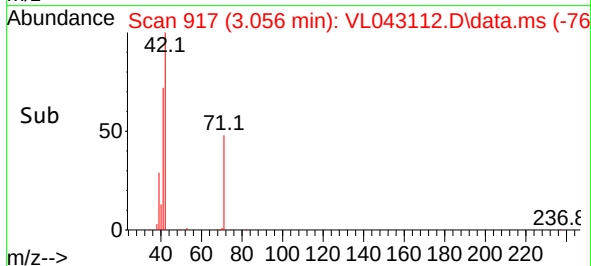
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



Tgt Ion: 42 Resp: 10470
Ion Ratio Lower Upper
42 100
72 39.8 31.3 46.9
71 38.8 30.4 45.6

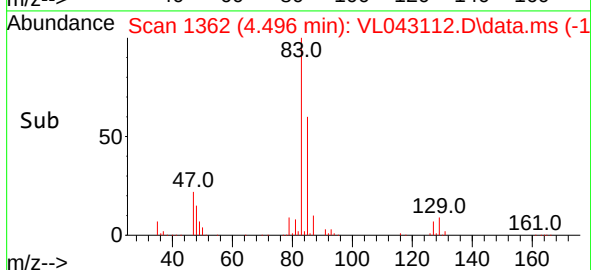
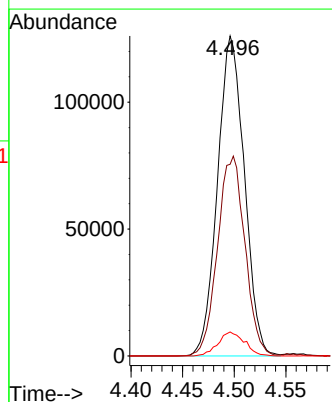
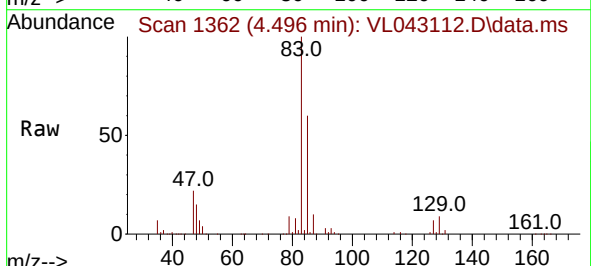
Manual Integrations
APPROVED

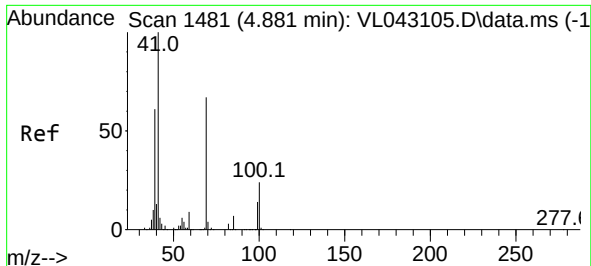
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 9.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

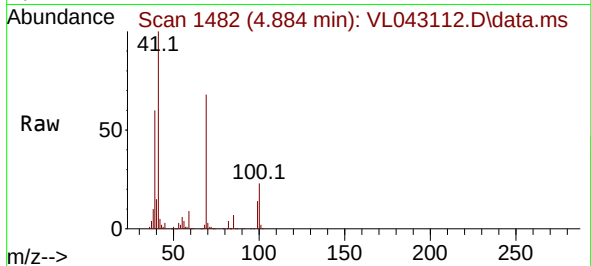
Tgt Ion: 83 Resp: 228288
Ion Ratio Lower Upper
83 100
85 59.8 50.6 75.8
127 7.5 6.3 9.5





#43
Methyl Methacrylate
Concen: 8.898 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

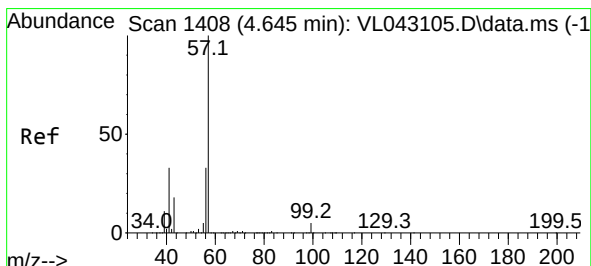
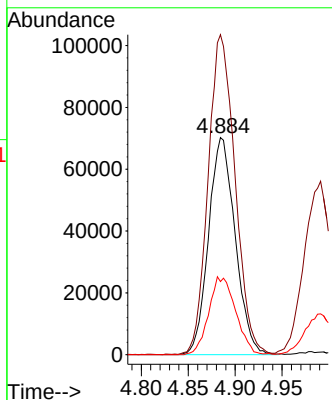
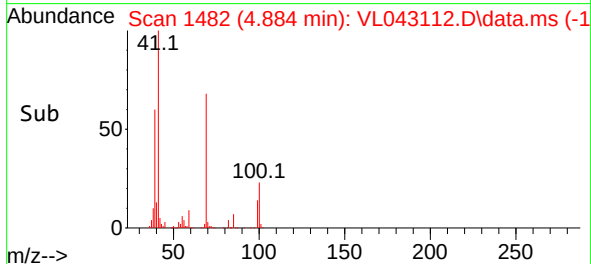
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



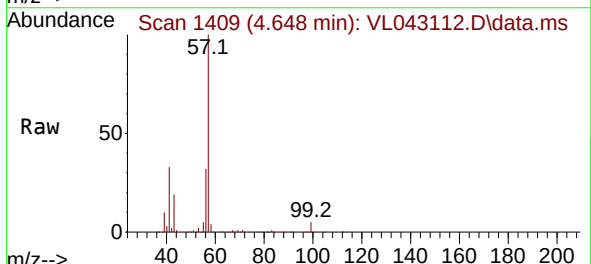
Tgt Ion: 69 Resp: 13859
Ion Ratio Lower Upper
69 100
41 149.1 120.5 180.7
100 36.3 29.0 43.4

Manual Integrations
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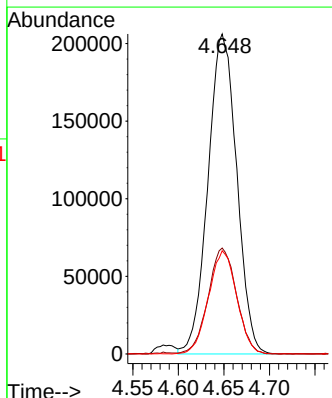
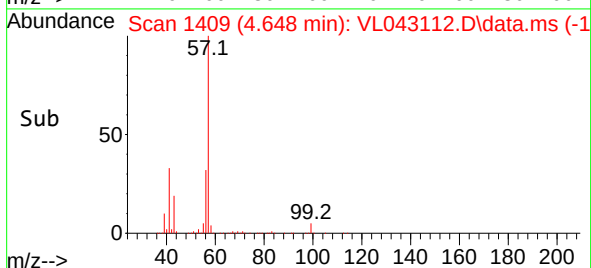
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

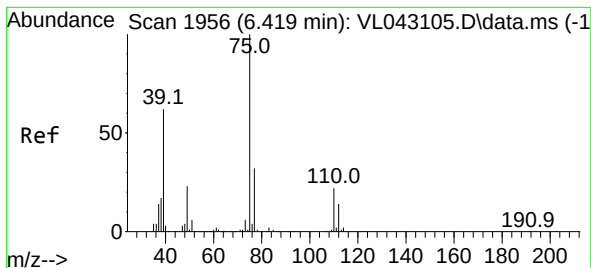


#44
2,2,4-Trimethylpentane
Concen: 8.738 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion: 57 Resp: 452117
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.6 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.146 ppbv

RT: 6.422 min Scan# 1956

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_1

ClientSampleId :

ICVVL101425

Tgt Ion: 75 Resp: 142964

Ion Ratio Lower Upper

75 100

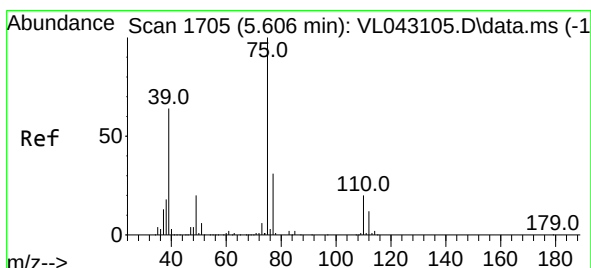
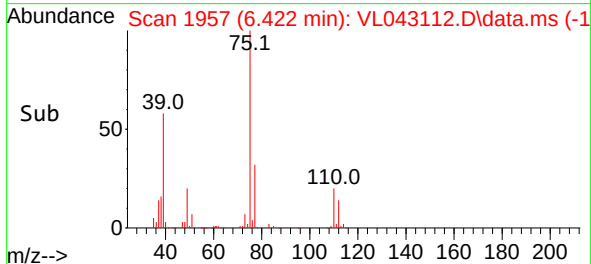
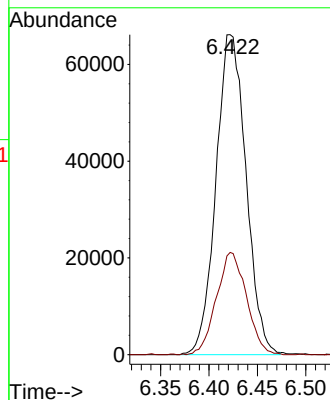
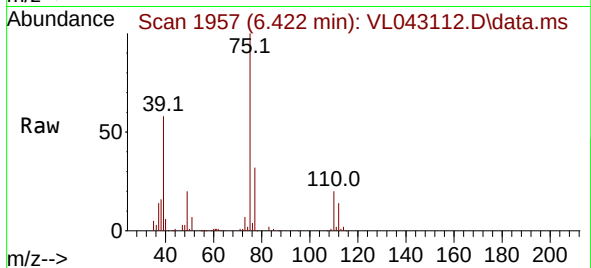
77 32.0 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

cis-1,3-Dichloropropene

Concen: 9.106 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

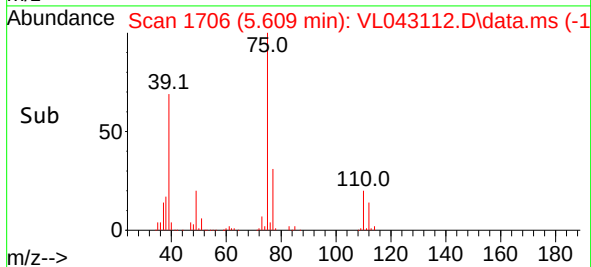
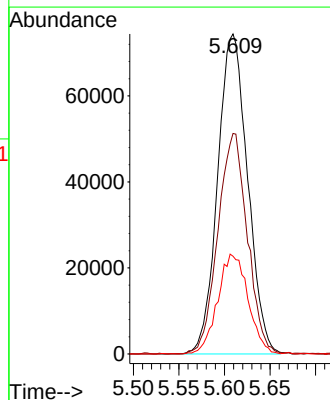
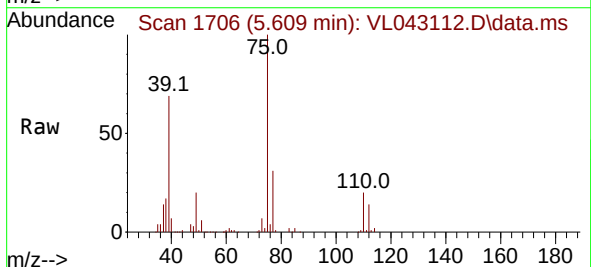
Tgt Ion: 75 Resp: 170038

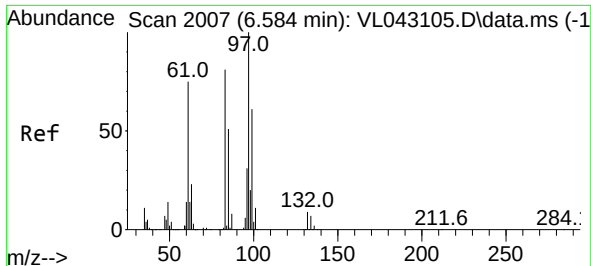
Ion Ratio Lower Upper

75 100

39 68.8 51.0 76.6

77 30.5 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.000 ppbv

RT: 6.590 min Scan# 2007

Delta R.T. 0.006 min

Lab File: VL043112.D

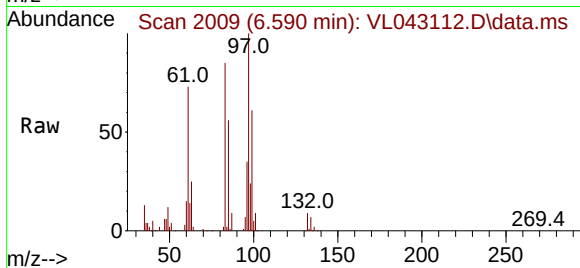
Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425



Tgt Ion: 97 Resp: 10896

Ion Ratio Lower Upper

97 100

83 84.8 64.6 96.8

85 55.8 40.6 60.8

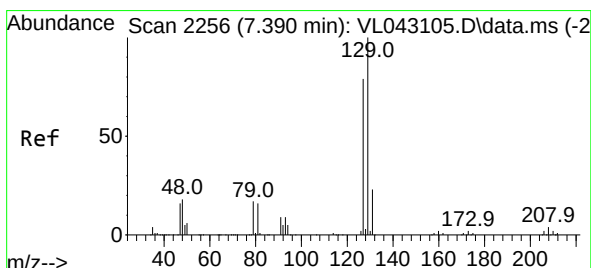
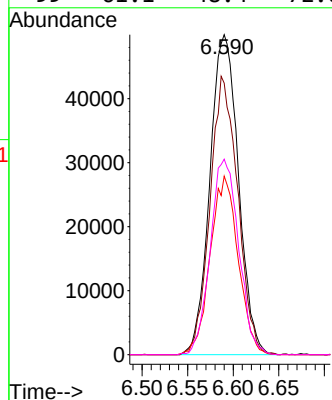
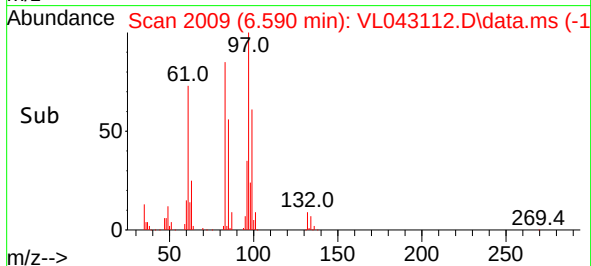
99 61.1 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 9.127 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.006 min

Lab File: VL043112.D

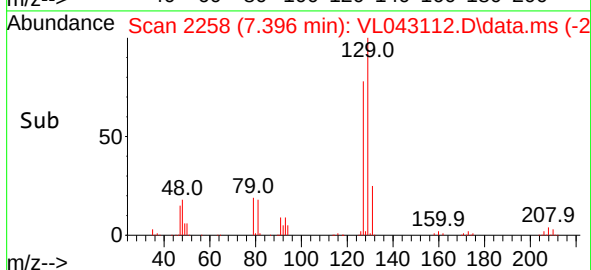
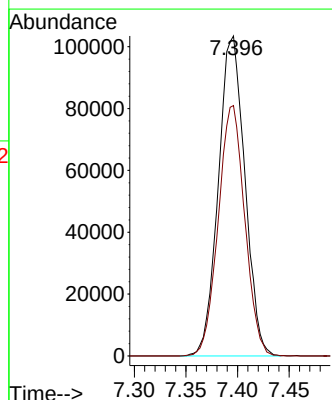
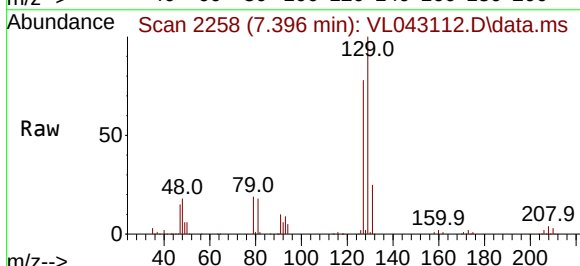
Acq: 14 Oct 2025 14:51

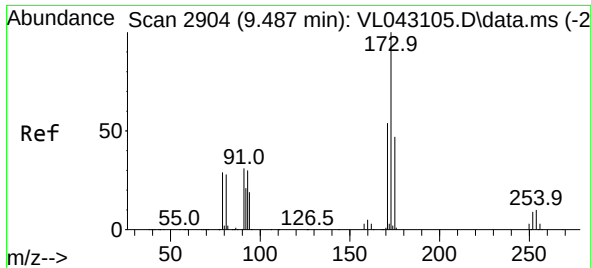
Tgt Ion:129 Resp: 184757

Ion Ratio Lower Upper

129 100

127 78.3 39.3 117.9





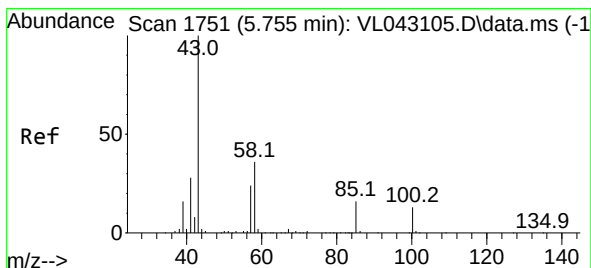
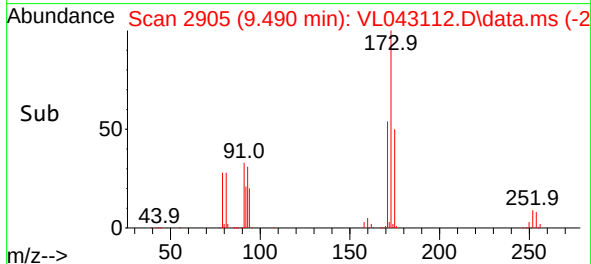
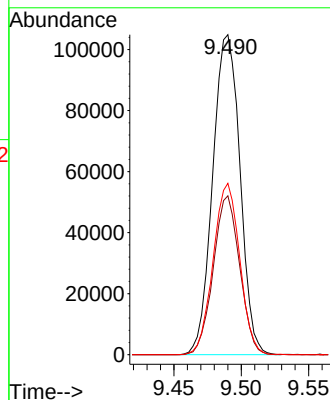
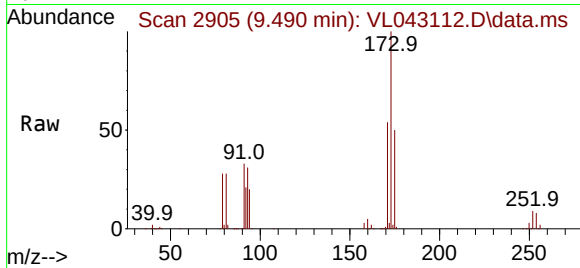
#49
Bromoform
Concen: 8.980 ppbv
RT: 9.490 min Scan# 2904
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:173 Resp: 14775
Ion Ratio Lower Upper
173 100
175 48.0 38.8 58.2
171 52.1 41.7 62.5

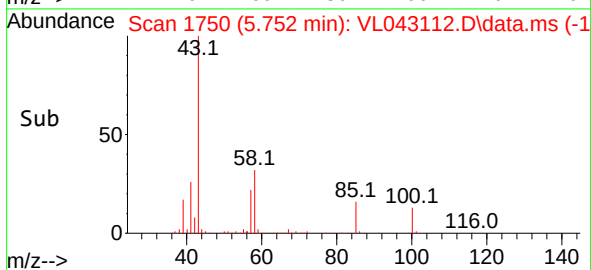
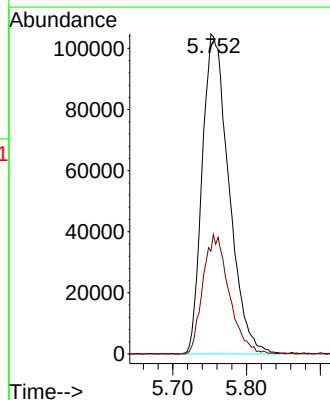
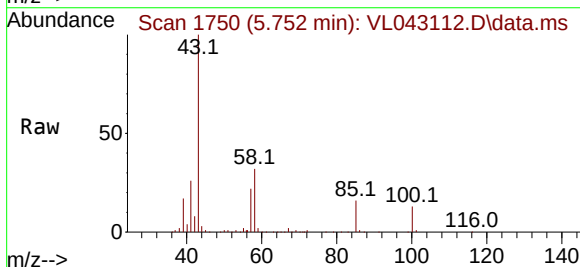
Manual Integrations
APPROVED

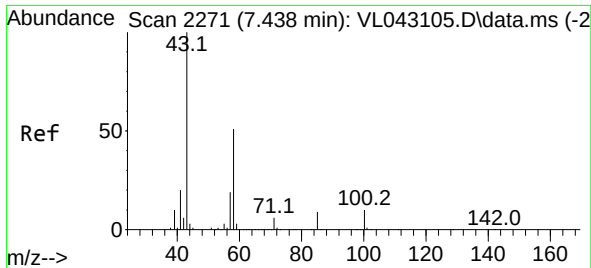
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50
4-Methyl-2-Pentanone
Concen: 8.709 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

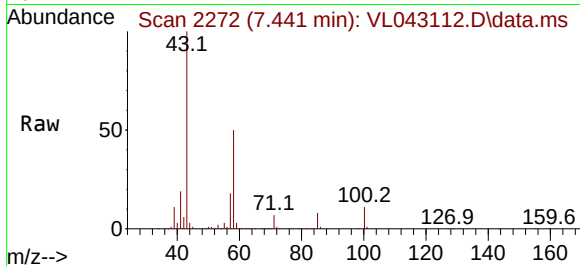
Tgt Ion: 43 Resp: 263070
Ion Ratio Lower Upper
43 100
58 36.6 29.1 43.7





#51
2-Hexanone
Concen: 8.999 ppbv
RT: 7.441 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

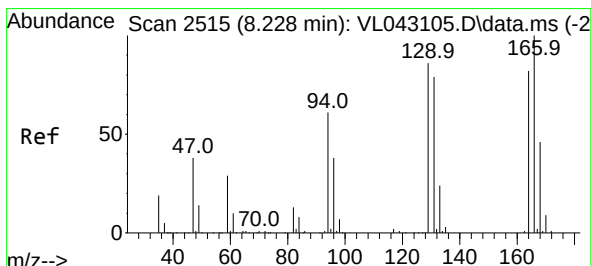
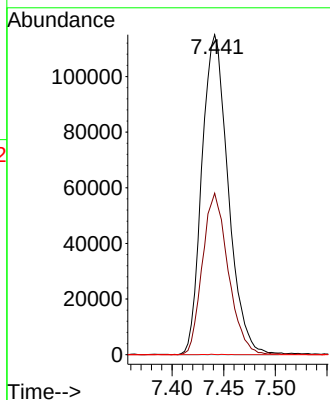
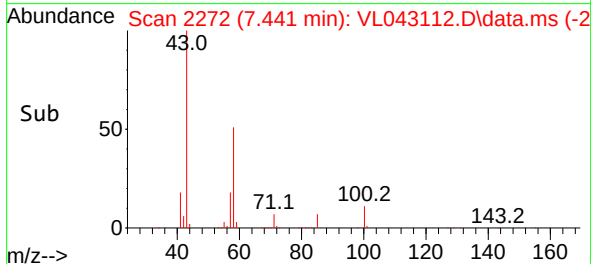
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



Tgt Ion: 43 Resp: 203870
Ion Ratio Lower Upper
43 100
58 49.6 40.4 60.6
98 0.1 0.1 0.1

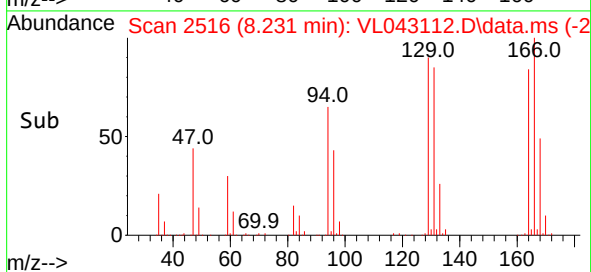
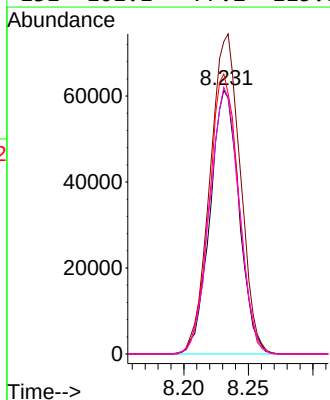
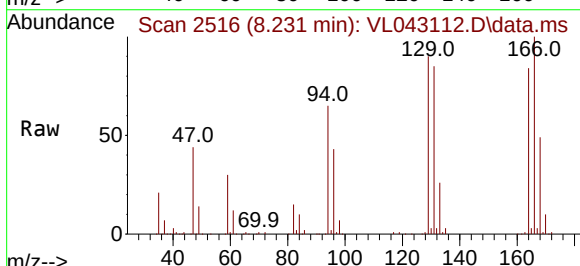
Manual Integrations
APPROVED

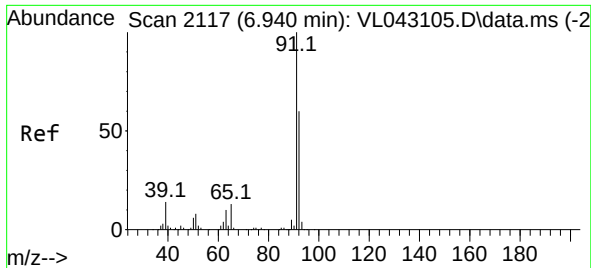
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 8.681 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

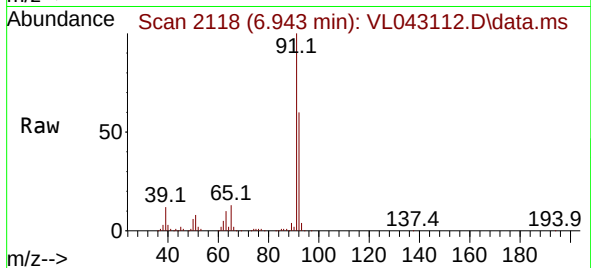
Tgt Ion:164 Resp: 96000
Ion Ratio Lower Upper
164 100
166 118.4 97.6 146.4
129 106.2 84.5 126.7
131 101.1 77.2 115.8





#53
Toluene
Concen: 8.928 ppbv
RT: 6.943 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

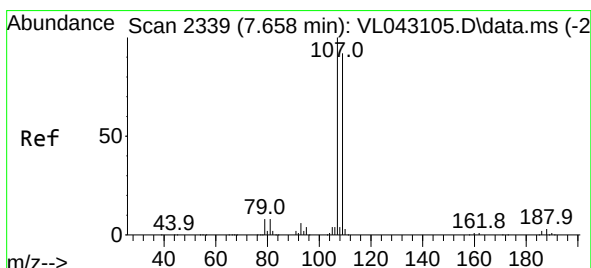
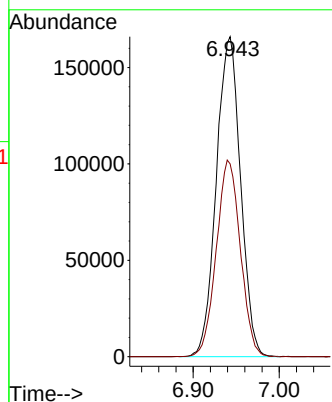
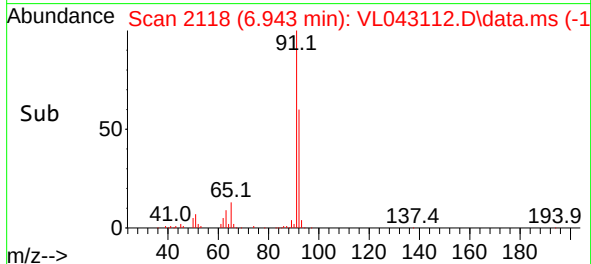
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



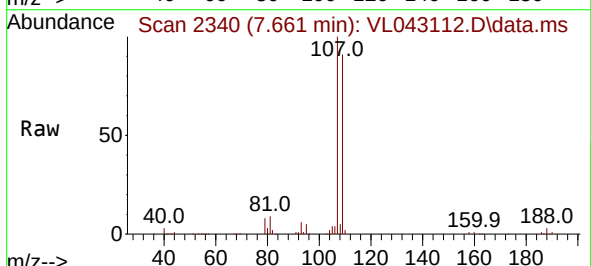
Tgt Ion: 91 Resp: 324944
Ion Ratio Lower Upper
91 100
92 61.0 48.8 73.2

Manual Integrations
APPROVED

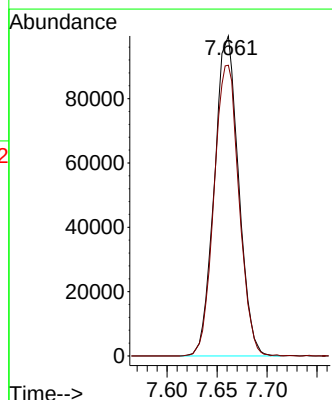
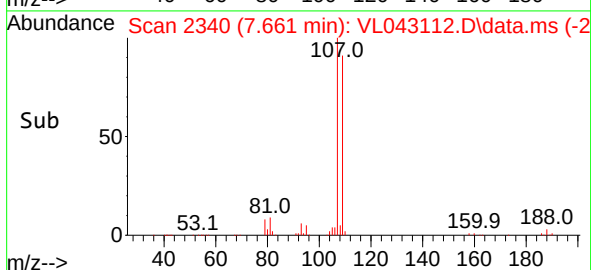
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

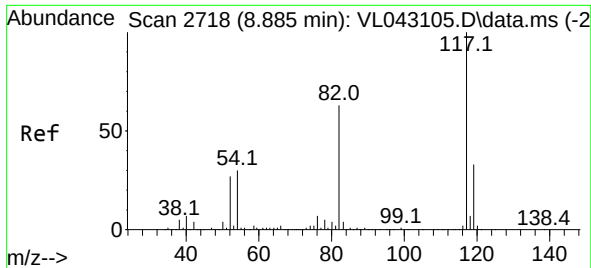


#54
1,2-Dibromoethane
Concen: 8.856 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



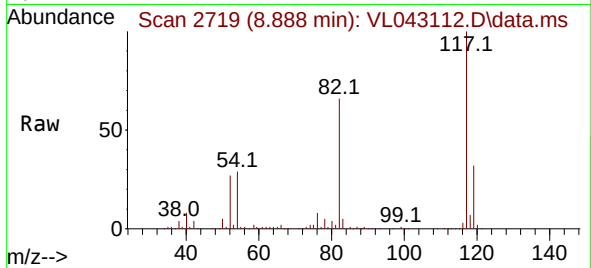
Tgt Ion:107 Resp: 167936
Ion Ratio Lower Upper
107 100
109 90.9 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

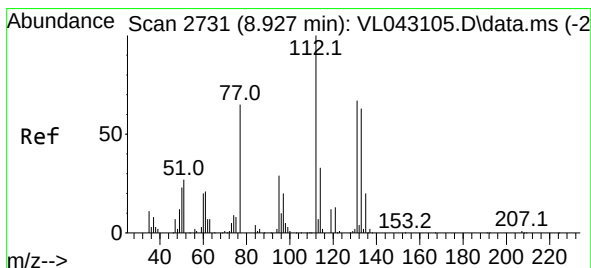
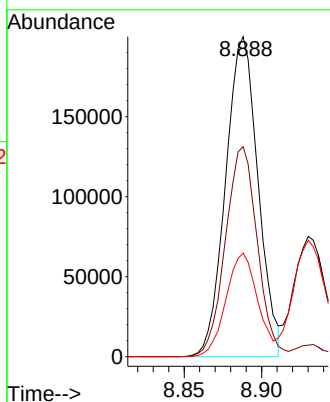
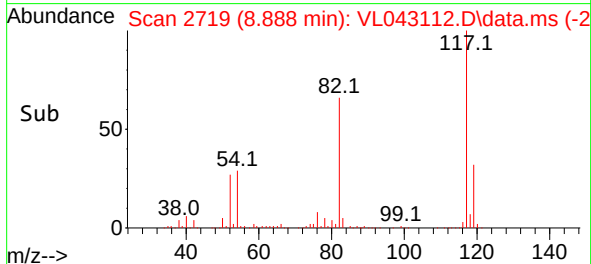
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



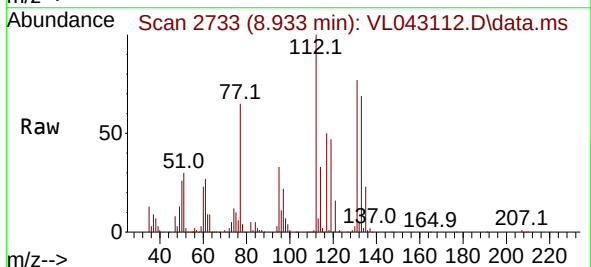
Tgt Ion:117 Resp: 291670
Ion Ratio Lower Upper
117 100
82 67.8 53.8 80.8
119 31.5 25.4 38.0

Manual Integrations
APPROVED

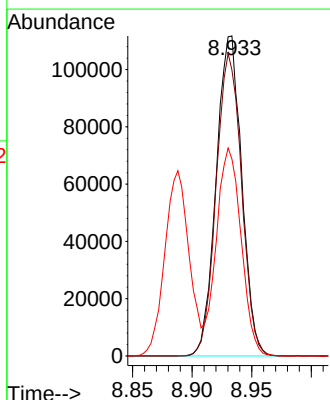
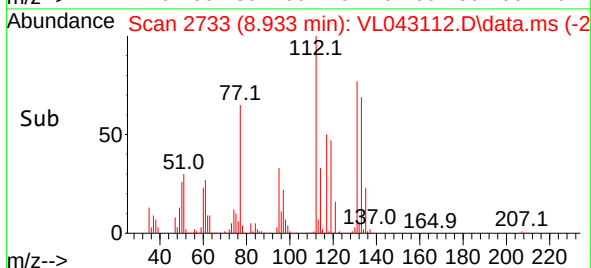
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

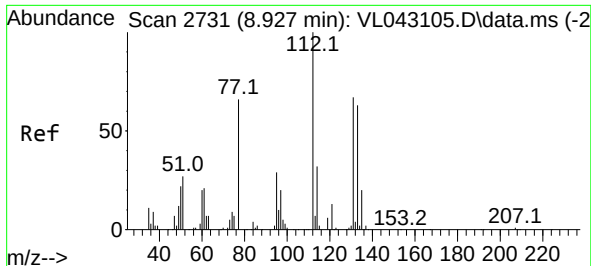


#56
1,1,1,2-Tetrachloroethane
Concen: 9.031 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



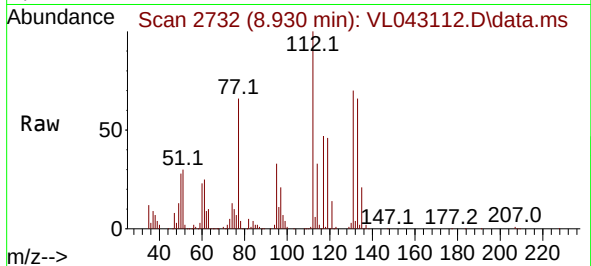
Tgt Ion:131 Resp: 166059
Ion Ratio Lower Upper
131 100
133 94.2 75.7 113.5
119 60.4 50.6 76.0





#57
Chlorobenzene
Concen: 8.770 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

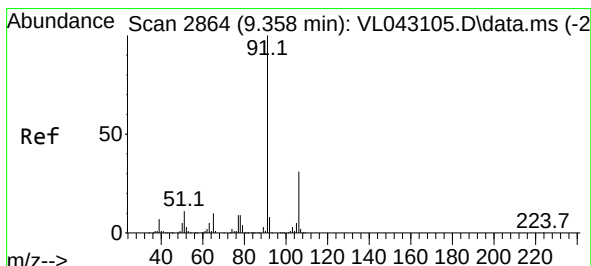
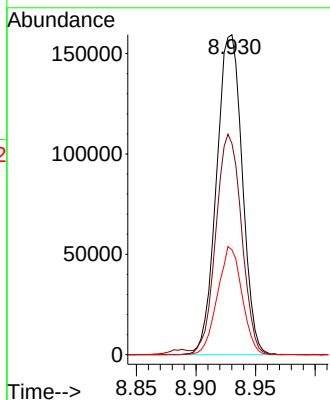
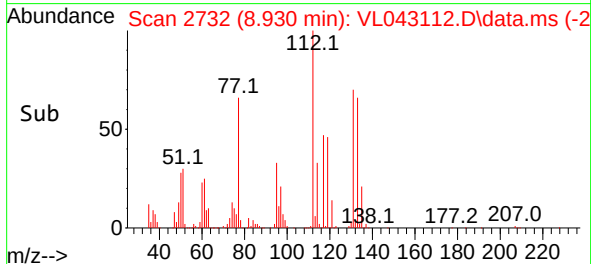
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion:112 Resp: 239309
Ion Ratio Lower Upper
112 100
77 65.9 53.3 79.9
114 32.7 29.3 35.8

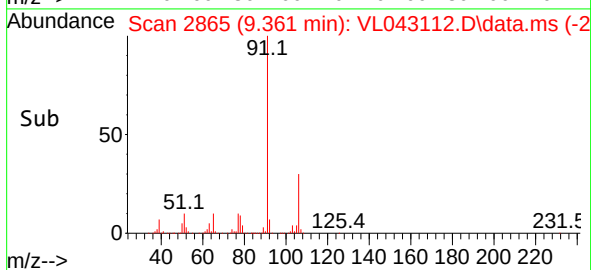
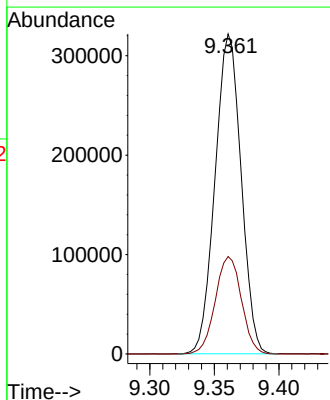
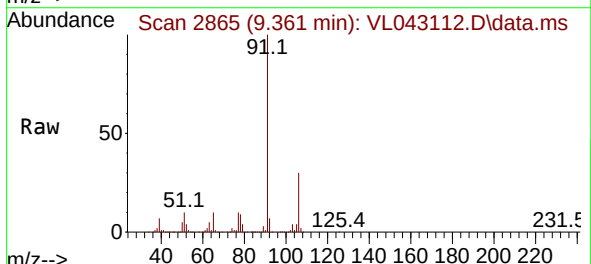
Manual Integrations
APPROVED

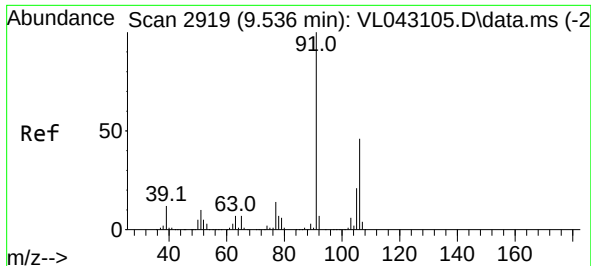
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 8.990 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029
Ion Ratio Lower Upper
91 100
106 30.5 24.8 37.2





#59

m/p-Xylene

Concen: 17.913 ppbv m

RT: 9.558 min Scan# 2919

Delta R.T. 0.022 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion: 91 Resp: 71519

Ion Ratio Lower Upper

91 100

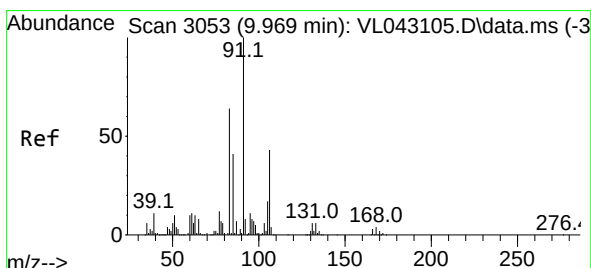
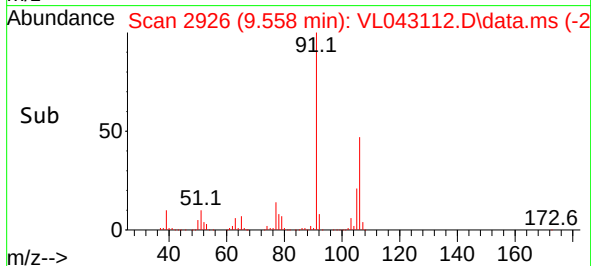
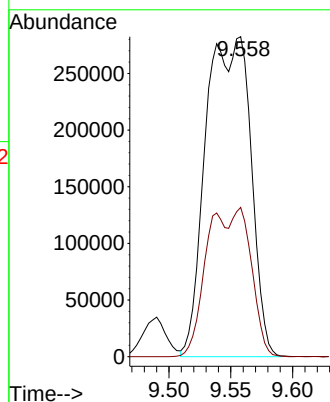
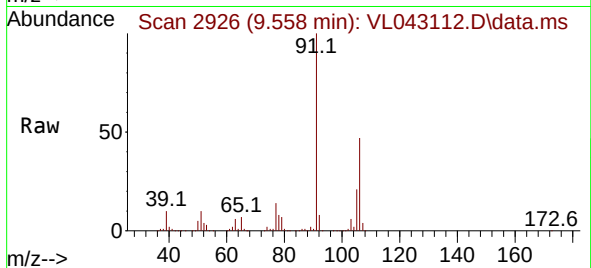
106 0.0 38.0 57.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#60

o-Xylene

Concen: 8.834 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043112.D

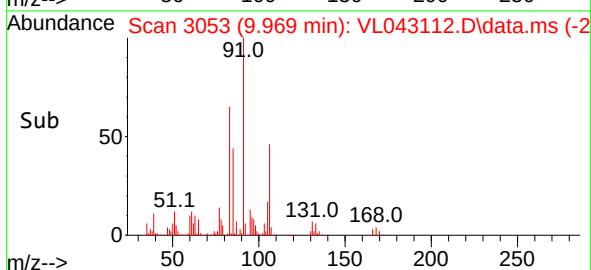
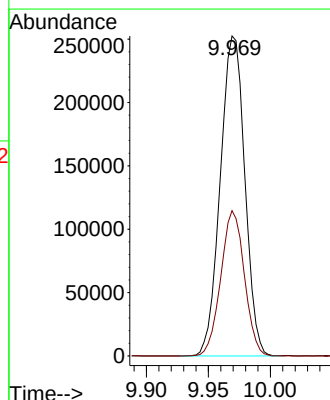
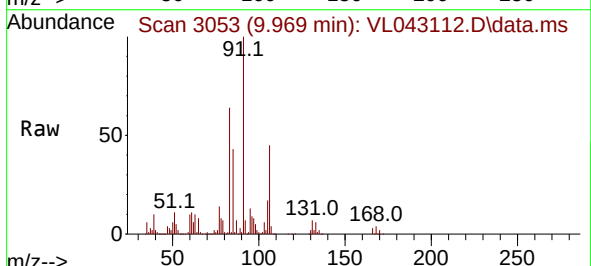
Acq: 14 Oct 2025 14:51

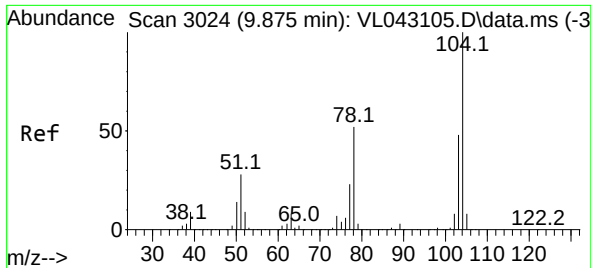
Tgt Ion: 91 Resp: 348346

Ion Ratio Lower Upper

91 100

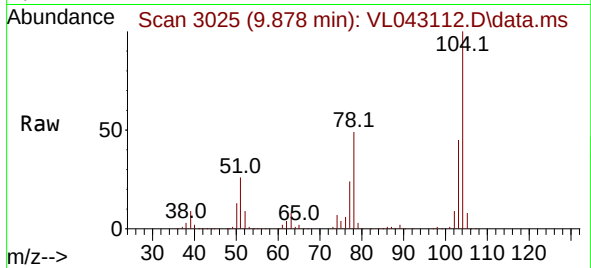
106 43.7 21.9 65.8





#61
Styrene
Concen: 9.099 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

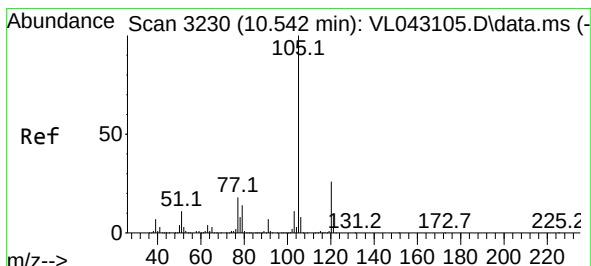
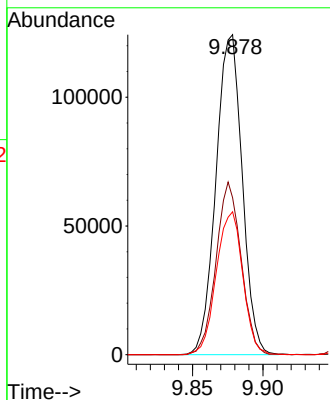
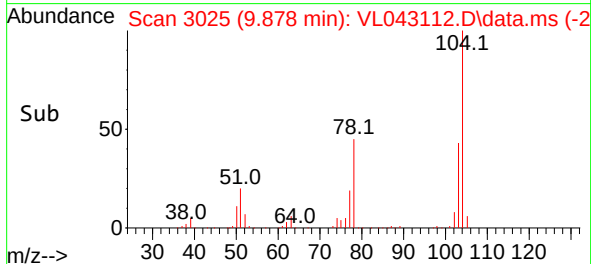
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



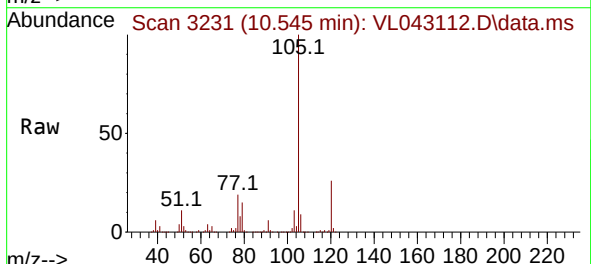
Tgt Ion:104 Resp: 161979
Ion Ratio Lower Upper
104 100
78 51.4 40.2 60.2
103 45.0 36.9 55.3

Manual Integrations
APPROVED

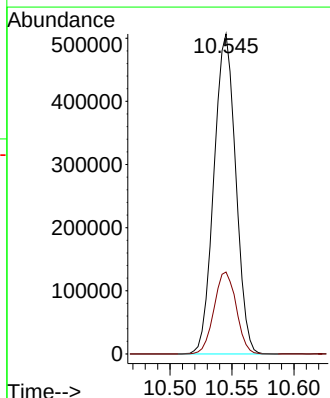
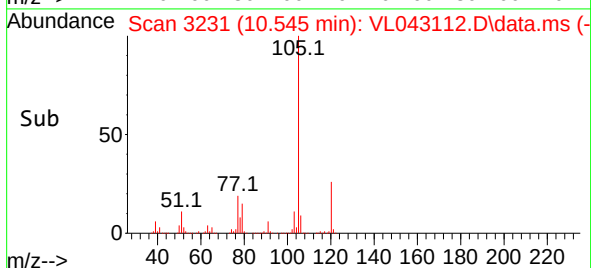
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

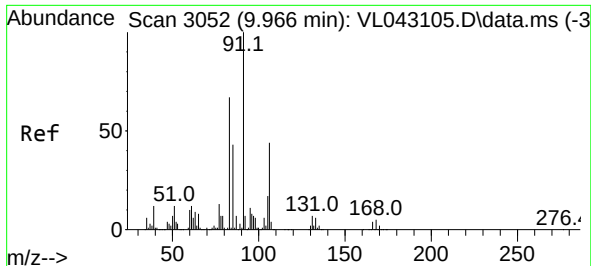


#62
Isopropylbenzene
Concen: 8.726 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



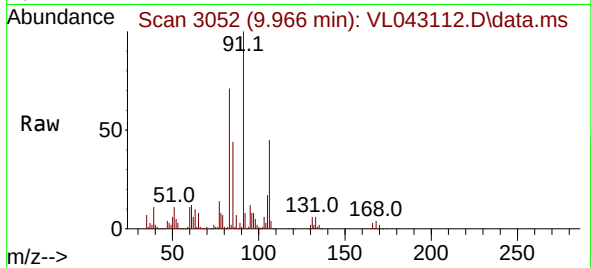
Tgt Ion:105 Resp: 621758
Ion Ratio Lower Upper
105 100
120 26.0 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.177 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

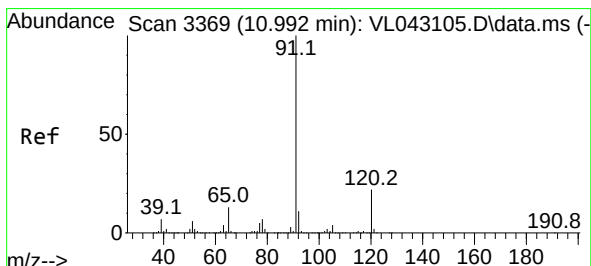
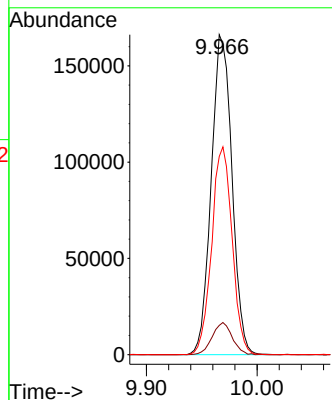
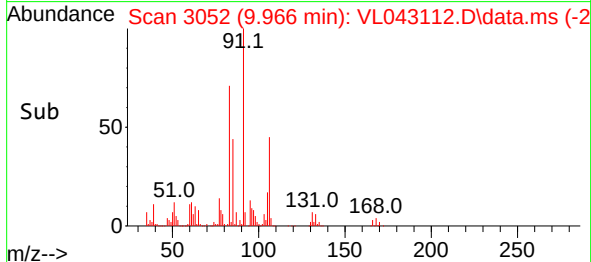
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



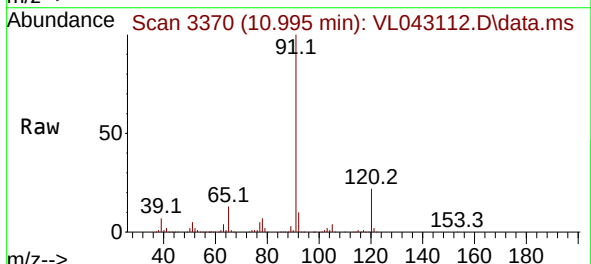
Tgt Ion: 83 Resp: 21591
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 64.1 32.0 96.0

Manual Integrations
APPROVED

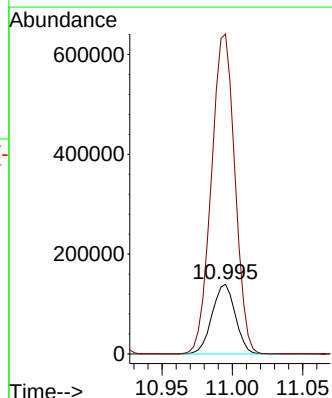
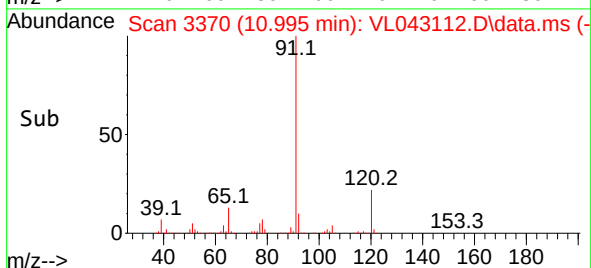
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

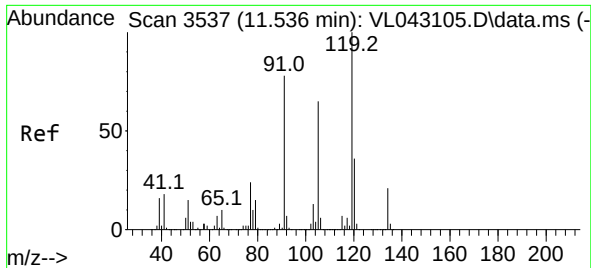


#64
n-propylbenzene
Concen: 8.503 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



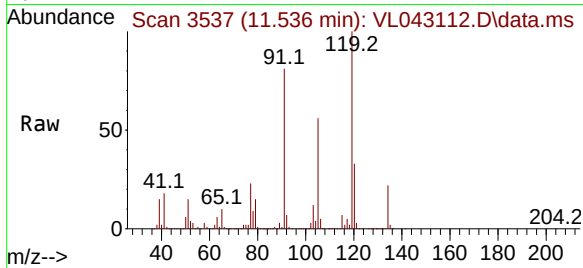
Tgt Ion:120 Resp: 160411
Ion Ratio Lower Upper
120 100
91 467.8 361.6 542.4





#65
tert-Butylbenzene
Concen: 8.464 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

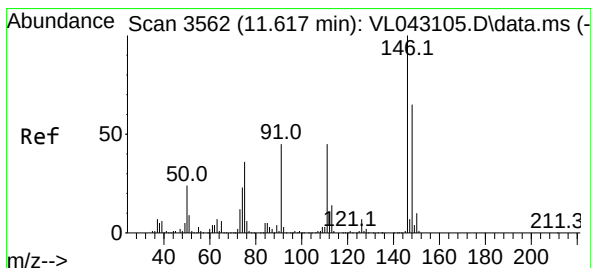
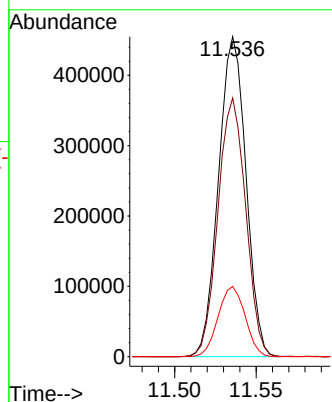
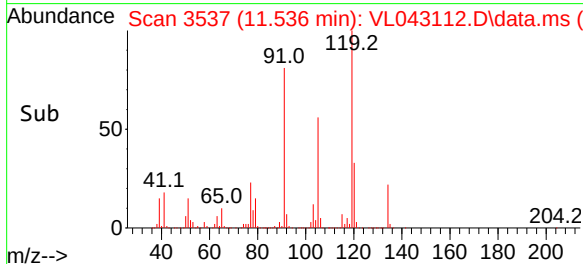
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



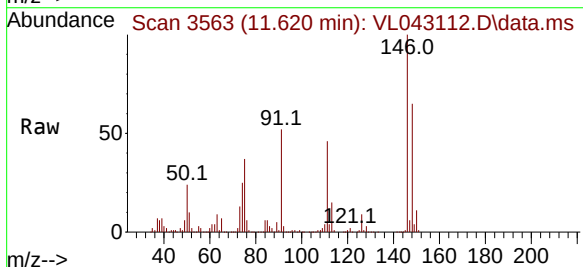
Tgt Ion: 119 Resp: 532570
Ion Ratio Lower Upper
119 100
91 81.6 63.4 95.0
134 21.6 17.3 25.9

Manual Integrations
APPROVED

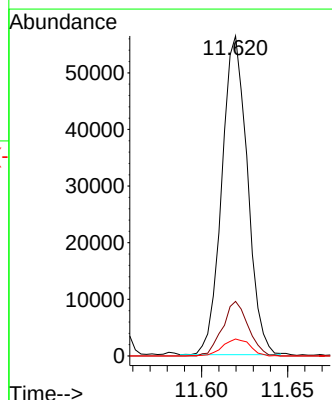
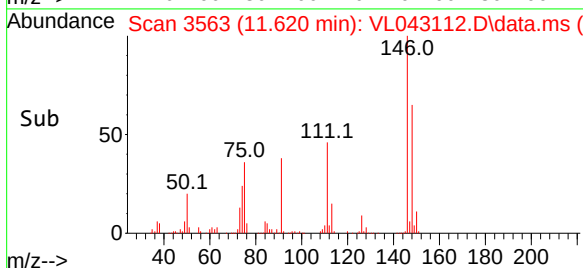
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

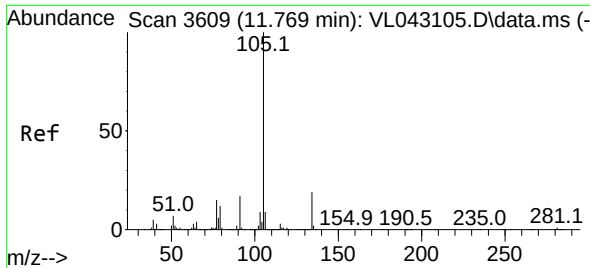


#66
Benzyl Chloride
Concen: 8.306 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



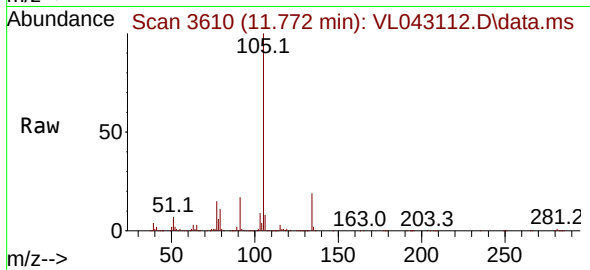
Tgt Ion: 91 Resp: 58169
Ion Ratio Lower Upper
91 100
126 17.2 14.6 22.0
128 5.8 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 8.541 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

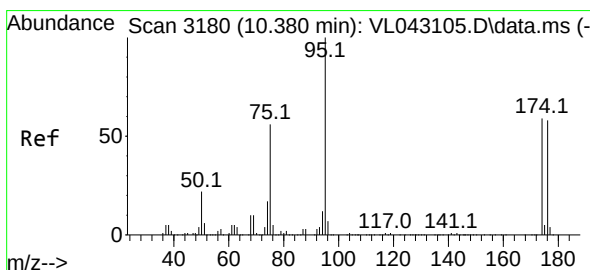
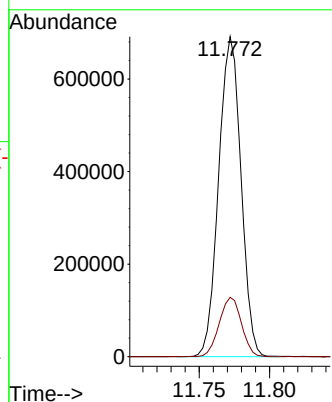
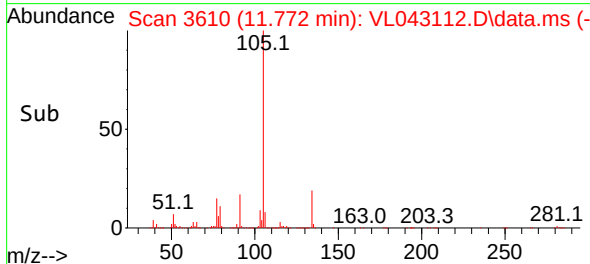
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



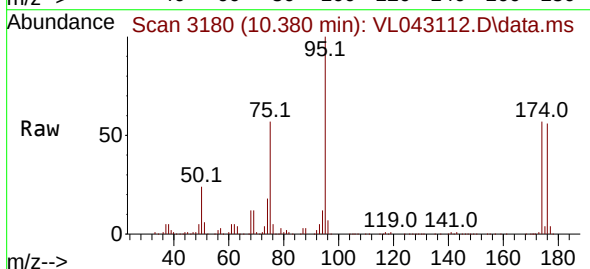
Tgt Ion:105 Resp: 76271
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3

Manual Integrations
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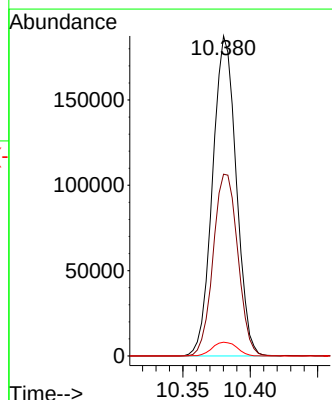
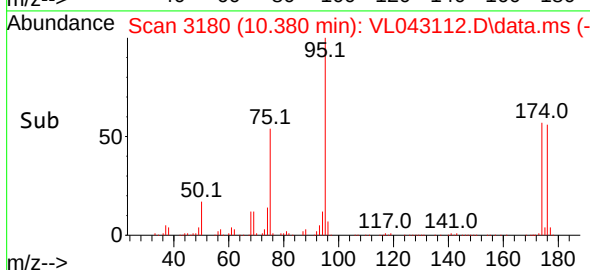
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

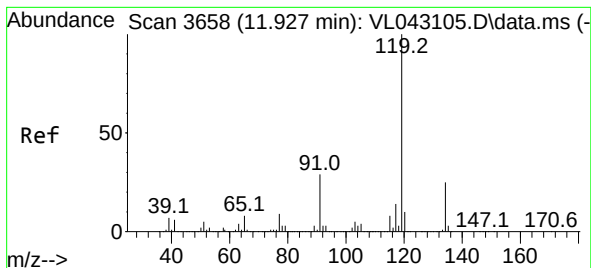


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.101 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



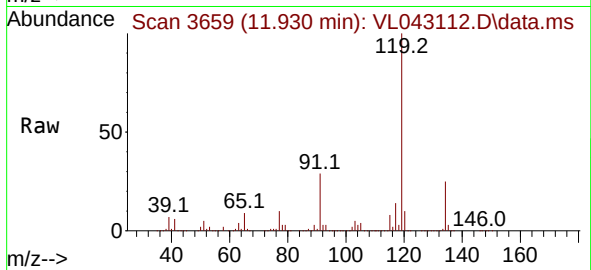
Tgt Ion: 95 Resp: 229010
 Ion Ratio Lower Upper
 95 100
 174 59.2 48.3 72.5
 175 4.6 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.411 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

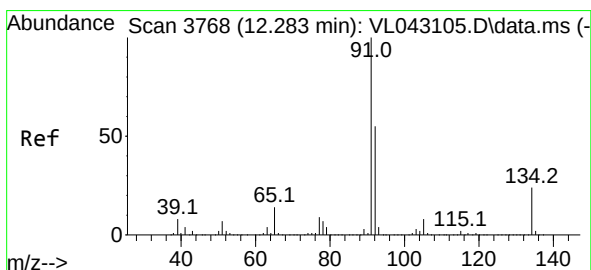
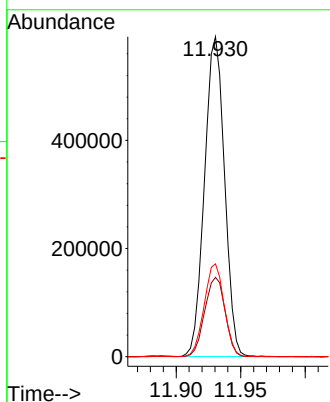
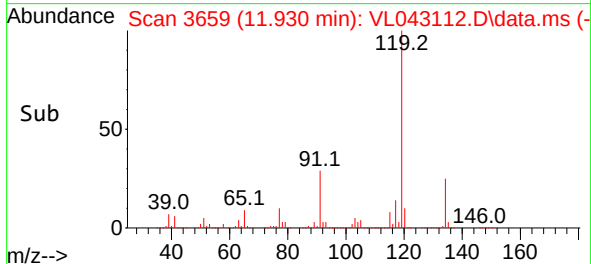
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 119 Resp: 63826
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 29.0 22.6 33.8

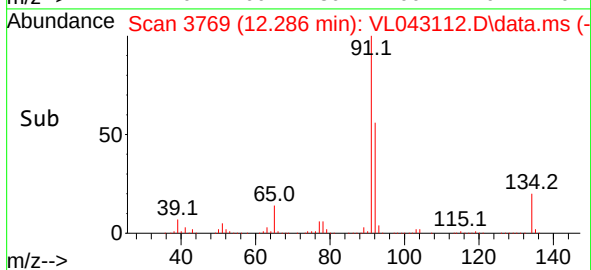
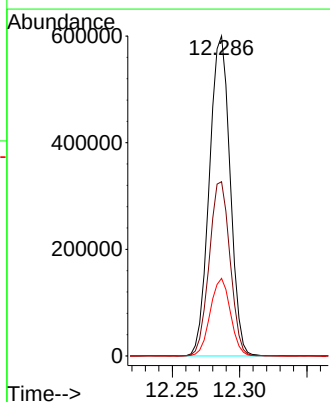
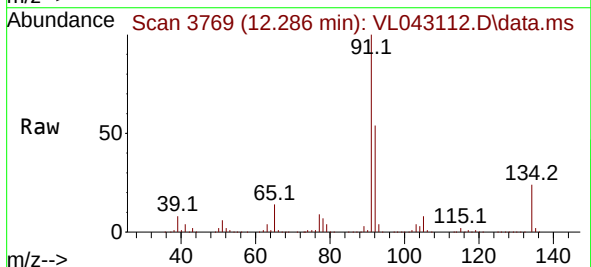
Manual Integrations
APPROVED

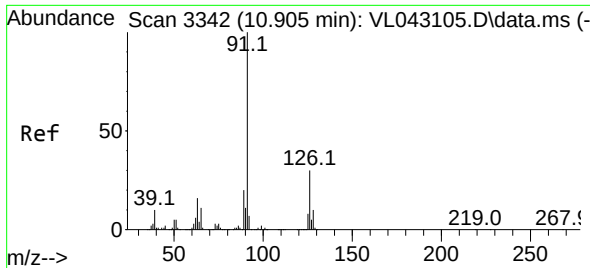
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
n-Butylbenzene
Concen: 8.579 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 641547
Ion Ratio Lower Upper
91 100
92 54.8 44.5 66.7
134 23.7 19.3 28.9





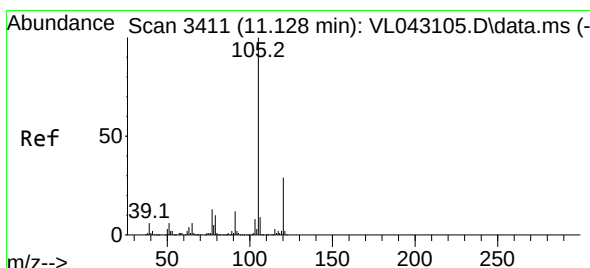
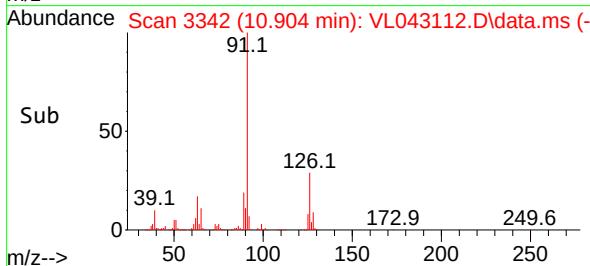
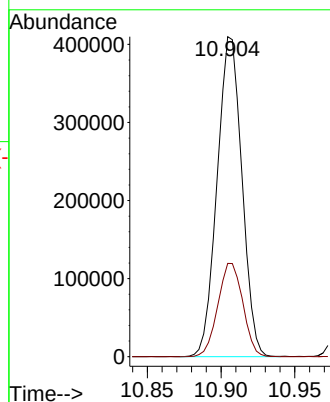
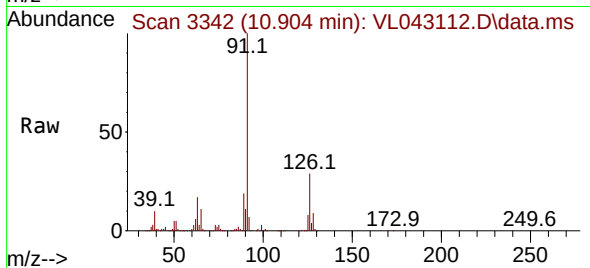
#71
2-Chlorotoluene
Concen: 8.828 ppbv
RT: 10.904 min Scan# 3342
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 91 Resp: 479799
Ion Ratio Lower Upper
91 100
126 29.3 12.0 48.0

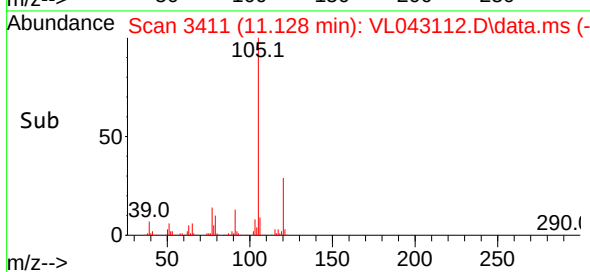
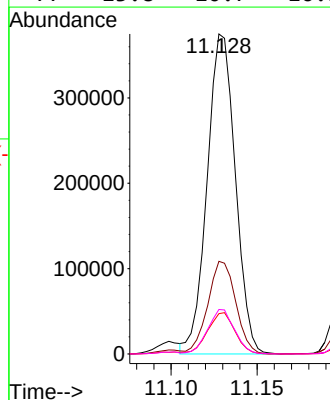
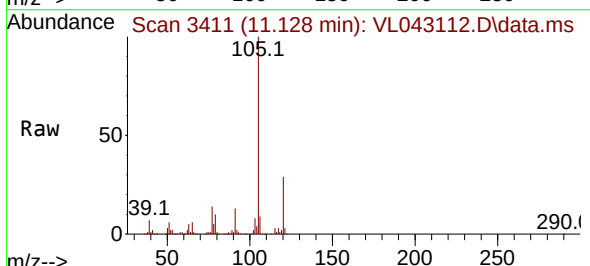
Manual Integrations
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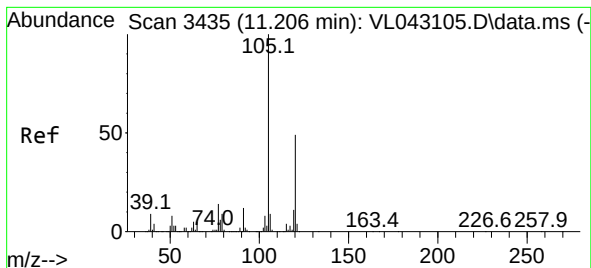
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 8.807 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 427034
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 13.1 10.0 15.0
77 13.8 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 8.874 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion:105 Resp: 354875

Ion Ratio Lower Upper

105 100

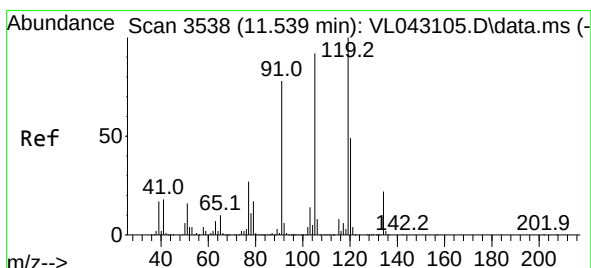
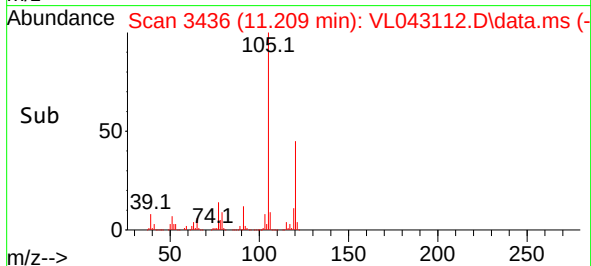
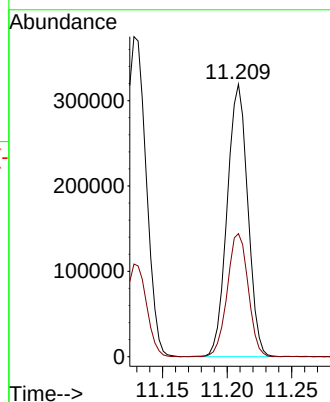
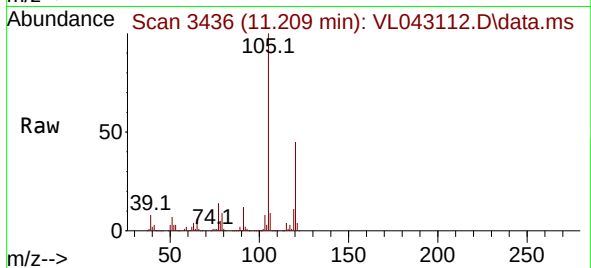
120 45.2 39.0 58.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.324 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506

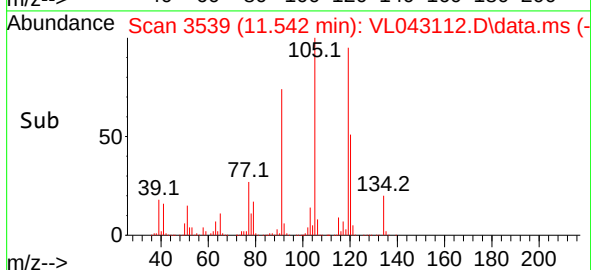
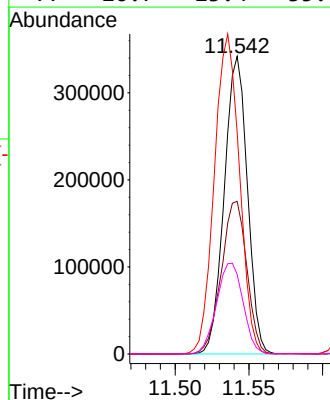
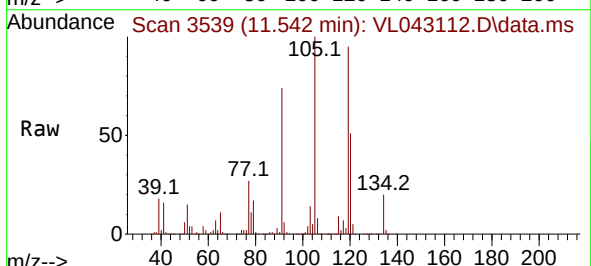
Ion Ratio Lower Upper

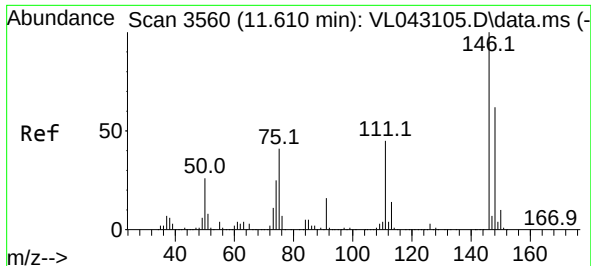
105 100

120 51.3 42.8 64.2

91 74.4 68.3 102.5

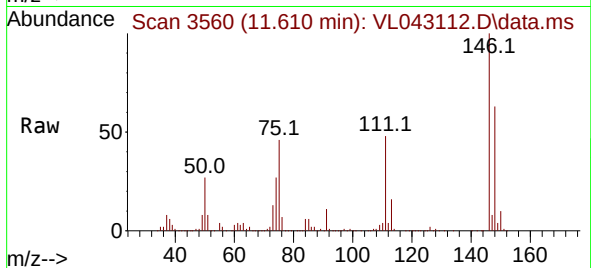
77 26.7 23.4 35.0





#75
1,3-Dichlorobenzene
Concen: 8.454 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

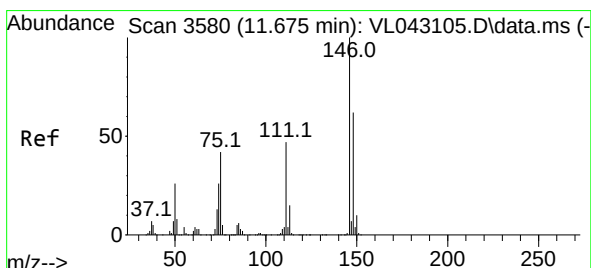
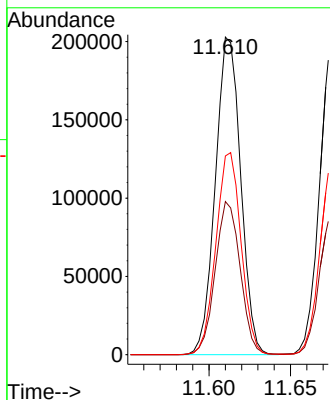
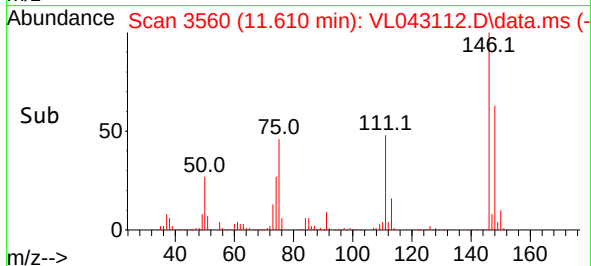
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425



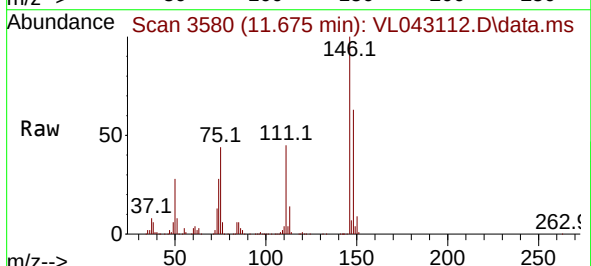
Tgt Ion:146 Resp: 21942
Ion Ratio Lower Upper
146 100
111 47.6 23.3 69.9
148 63.3 31.6 95.0

Manual Integrations
APPROVED

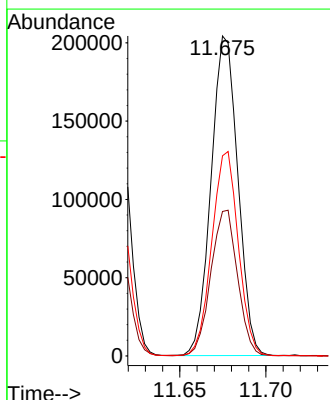
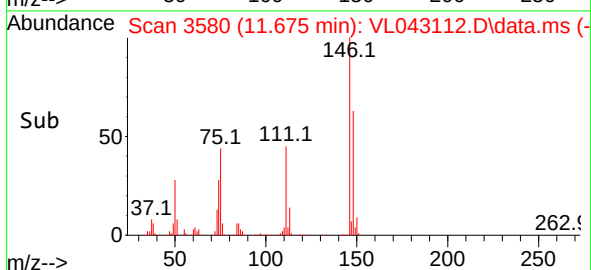
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

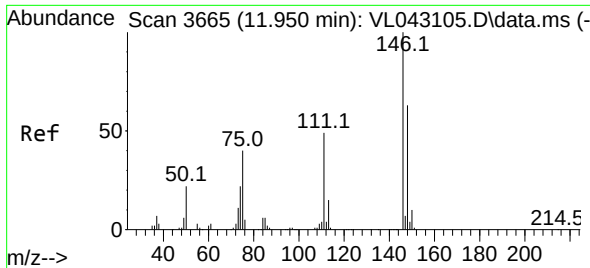


#76
1,4-Dichlorobenzene
Concen: 8.458 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



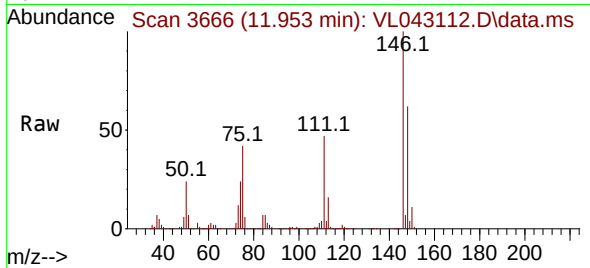
Tgt Ion:146 Resp: 221364
Ion Ratio Lower Upper
146 100
111 45.7 22.4 67.0
148 63.6 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 8.132 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

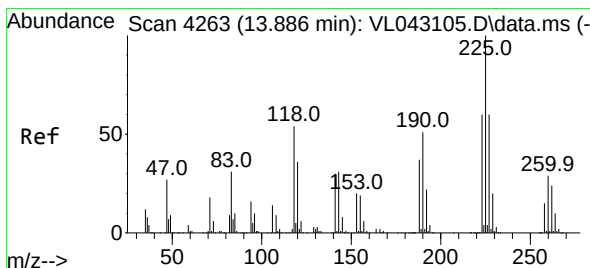
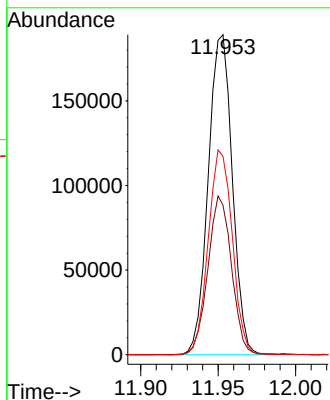
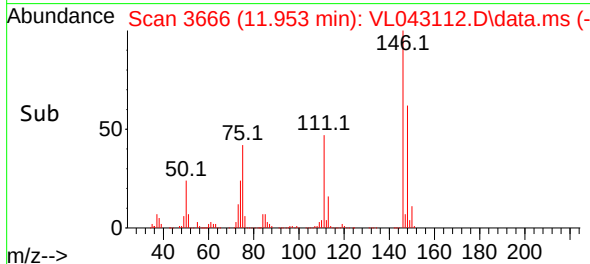
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



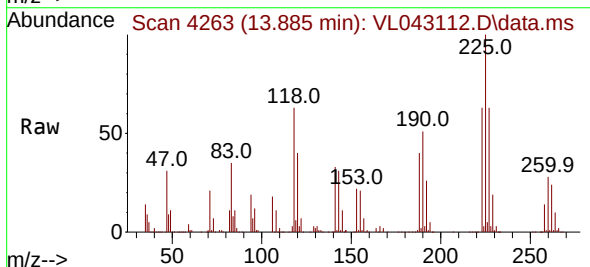
Tgt Ion:146 Resp: 204178
Ion Ratio Lower Upper
146 100
111 48.8 24.0 72.0
148 64.1 31.1 93.3

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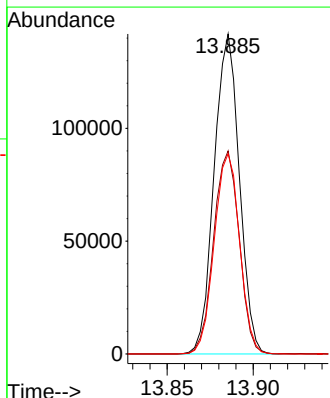
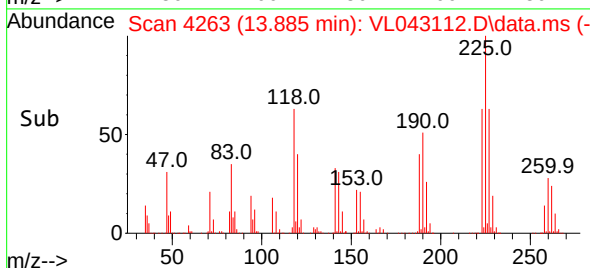
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

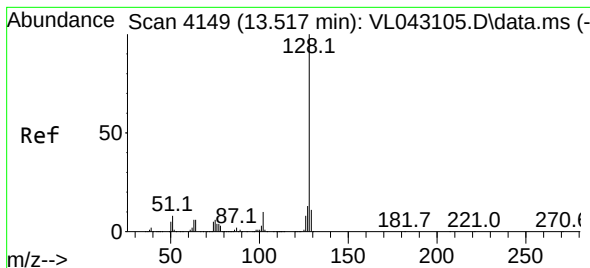


#78
Hexachloro-1,3-Butadiene
Concen: 7.440 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion:225 Resp: 144646
Ion Ratio Lower Upper
225 100
223 64.1 50.2 75.4
227 62.9 49.6 74.4





#79

Naphthalene

Concen: 8.334 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

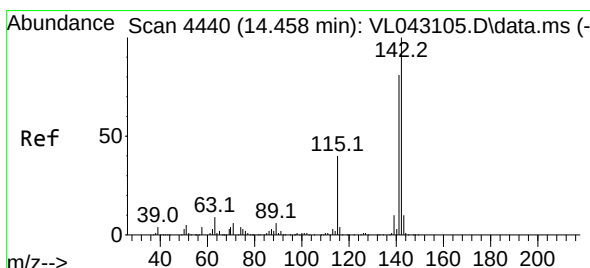
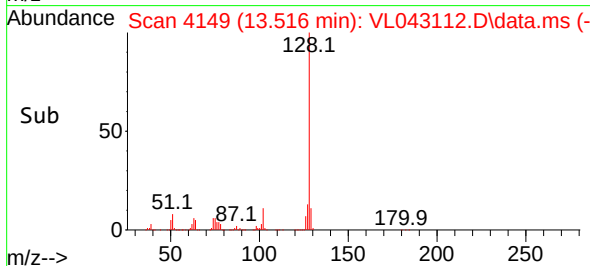
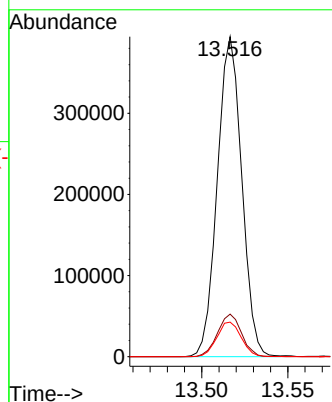
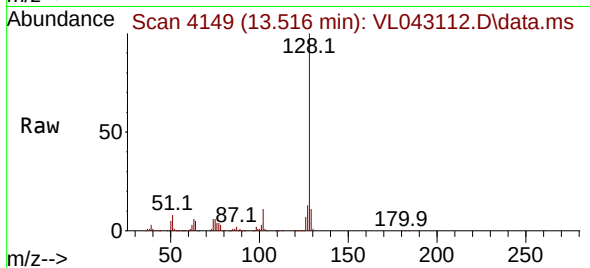
Tgt Ion:128 Resp: 389814

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.8	9.1	13.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 10.146 ppbv

RT: 14.458 min Scan# 4440

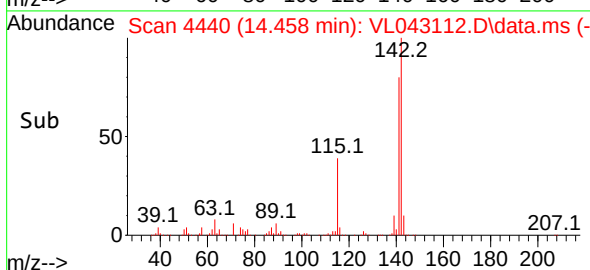
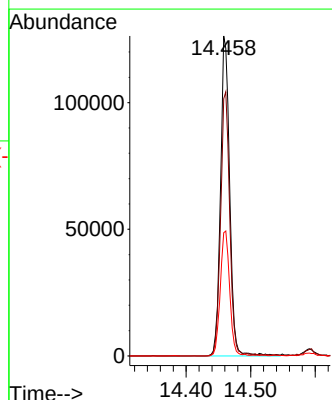
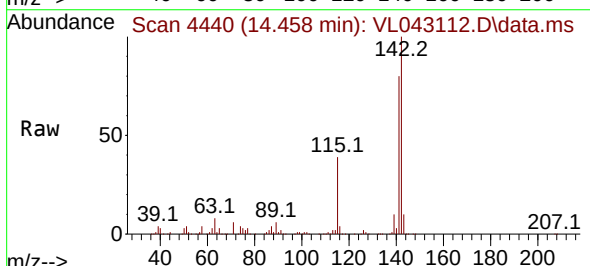
Delta R.T. -0.000 min

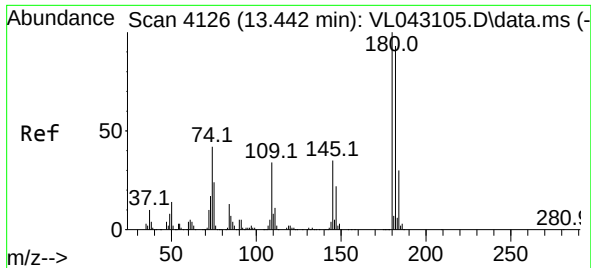
Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion:142 Resp: 123632

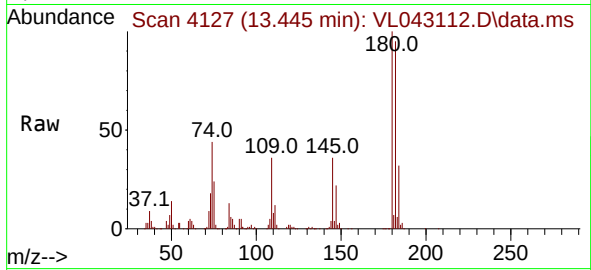
Ion	Ratio	Lower	Upper
142	100		
141	83.1	64.6	97.0
115	40.3	30.2	45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.373 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

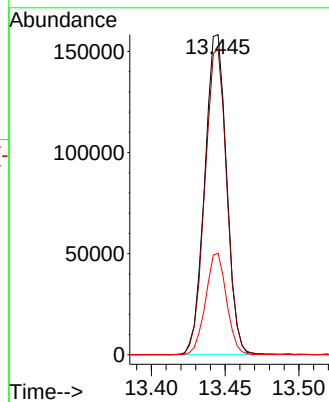
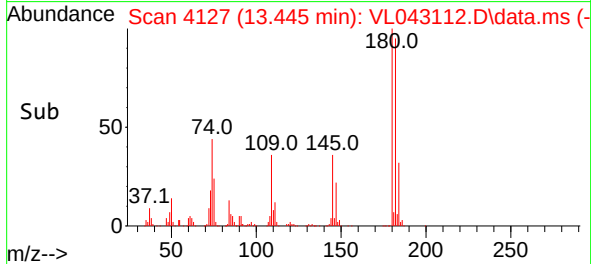
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



Tgt Ion:180 Resp: 16255
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.5 113.3
 184 30.4 23.9 35.9

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	94	0.00
2 T	Dichlorodifluoromethane	1.422	1.340	5.8	98	0.00
3	Chlorodifluoromethane	1.538	1.424	7.4	92	0.00
4	Chloromethane	0.563	0.499	11.4	94	0.00
5 T	Vinyl Chloride	0.552	0.482	12.7	94	0.00
6 T	Bromomethane	0.303	0.270	10.9	97	0.00
7	Chloroethane	0.226	0.196	13.3	96	0.00
8 T	Dichlorotetrafluoroethane	1.149	1.098	4.4	99	0.00
9 T	Propene	0.682	0.608	10.9	87	0.00
10 T	Heptane	1.964	1.695	13.7	88	0.00
11 T	Trichlorofluoromethane	1.391	1.358	2.4	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.120	1.050	6.3	101	0.00
13	Ethanol	0.252	0.181	28.2	88	0.00
14 T	Bromoethene	0.416	0.388	6.7	98	0.00
15 T	Acetone	1.348	1.107	17.9	95	0.00
16 T	1,3-Butadiene	0.642	0.569	11.4	97	0.00
17	tert-Butyl alcohol	1.850	1.667	9.9	93	0.00
18 T	1,1-Dichloroethene	0.488	0.477	2.3	102	0.00
19 T	Isopropyl Alcohol	0.839	0.692	17.5	90	0.00
20 T	Methylene Chloride	0.533	0.413	22.5	96	0.00
21 T	Allyl Chloride	0.993	0.912	8.2	94	0.00
22 T	trans-1,2-Dichloroethene	0.583	0.526	9.8	97	0.00
23 T	Vinyl Acetate	1.974	1.900	3.7	110	0.00
24 T	1,1-Dichloroethane	1.127	1.054	6.5	96	0.00
25 T	Ethyl Acetate	3.342	2.997	10.3	90	0.00
26 T	Hexane	1.540	1.388	9.9	93	0.00
27 T	Carbon Disulfide	1.411	1.343	4.8	96	0.00
28 T	Methyl tert-Butyl Ether	0.701	0.689	1.7	110	0.00
29 T	Chloroform	2.232	2.100	5.9	97	0.00
30 T	Cyclohexane	1.344	1.223	9.0	95	0.00
31 T	cis-1,2-Dichloroethene	1.471	1.409	4.2	94	0.00
32 T	1,1,1-Trichloroethane	2.324	2.246	3.4	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34 T	2-Butanone	0.672	0.580	13.7	91	0.00
35 T	Carbon Tetrachloride	0.719	0.669	7.0	98	0.00
36 T	Benzene	0.942	0.855	9.2	94	0.00
37 T	1,2-Dichloroethane	0.543	0.497	8.5	97	0.00
38 T	Trichloroethene	0.393	0.332	15.5	93	0.00
39 T	1,2-Dichloropropane	0.344	0.309	10.2	93	0.00
40 T	1,4-Dioxane	0.154	0.127	17.5	86	0.00
41 T	Tetrahydrofuran	0.376	0.322	14.4	89	0.00
42 T	Bromodichloromethane	0.751	0.701	6.7	96	0.00
43	Methyl Methacrylate	0.478	0.426	10.9	90	0.00
44 T	2,2,4-Trimethylpentane	1.589	1.389	12.6	91	0.00
45 T	t-1,3-Dichloropropene	0.480	0.439	8.5	91	0.00
46 T	cis-1,3-Dichloropropene	0.573	0.522	8.9	91	0.00
47 T	1,1,2-Trichloroethane	0.372	0.335	9.9	94	0.00
48 T	Dibromochloromethane	0.622	0.567	8.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	0.505	0.454	10.1	89	0.00
50 T	4-Methyl-2-Pentanone	0.928	0.808	12.9	88	0.00
51 T	2-Hexanone	0.696	0.626	10.1	86	0.00
52 T	Tetrachloroethene	0.340	0.295	13.2	90	0.00
53 T	Toluene	1.118	0.998	10.7	92	0.00
54 T	1,2-Dibromoethane	0.582	0.516	11.3	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.630	0.569	9.7	91	0.00
57 T	Chlorobenzene	0.936	0.820	12.4	91	0.00
58 T	Ethyl Benzene	1.716	1.543	10.1	91	0.00
59 T	m/p-Xylene	1.369	1.226	10.4	93	0.02
60 T	o-Xylene	1.352	1.194	11.7	92	0.00
61 T	Styrene	0.610	0.555	9.0	91	0.00
62	Isopropylbenzene	2.443	2.132	12.7	90	0.00
63 T	1,1,2,2-Tetrachloroethane	0.905	0.740	18.2	90	0.00
64	n-propylbenzene	0.647	0.550	15.0	88	0.00
65	tert-Butylbenzene	2.157	1.826	15.3	91	0.00
66 T	Benzyl Chloride	0.240	0.199	17.1	78	0.00
67	sec-Butylbenzene	3.062	2.615	14.6	91	0.00
68 S	1-Bromo-4-Fluorobenzene	0.777	0.785	-1.0	95	0.00
69	p-Isopropyltoluene	2.602	2.188	15.9	89	0.00
70	n-Butylbenzene	2.564	2.200	14.2	89	0.00
71	2-Chlorotoluene	1.863	1.645	11.7	91	0.00
72 T	4-Ethyltoluene	1.662	1.464	11.9	90	0.00
73 T	1,3,5-Trimethylbenzene	1.371	1.217	11.2	91	0.00
74 T	1,2,4-Trimethylbenzene	1.534	1.277	16.8	90	0.00
75 T	1,3-Dichlorobenzene	0.890	0.752	15.5	87	0.00
76 T	1,4-Dichlorobenzene	0.897	0.759	15.4	87	0.00
77 T	1,2-Dichlorobenzene	0.861	0.700	18.7	86	0.00
78 T	Hexachloro-1,3-Butadiene	0.667	0.496	25.6	84	0.00
79 T	Naphthalene	1.604	1.336	16.7	80	0.00
80 T	Naphthalene,2-methyl-	0.418	0.424	-1.4	84	0.00
81 T	1,2,4-Trichlorobenzene	0.666	0.557	16.4	82	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	94	0.00
2 T	Dichlorodifluoromethane	10.000	9.425	5.7	98	0.00
3	Chlorodifluoromethane	10.000	9.260	7.4	92	0.00
4	Chloromethane	10.000	8.867	11.3	94	0.00
5 T	Vinyl Chloride	10.000	8.722	12.8	94	0.00
6 T	Bromomethane	10.000	8.901	11.0	97	0.00
7	Chloroethane	10.000	8.685	13.1	96	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.558	4.4	99	0.00
9 T	Propene	10.000	8.908	10.9	87	0.00
10 T	Heptane	10.000	8.629	13.7	88	0.00
11 T	Trichlorofluoromethane	10.000	9.762	2.4	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.380	6.2	101	0.00
13	Ethanol	10.000	7.173	28.3	88	0.00
14 T	Bromoethene	10.000	9.324	6.8	98	0.00
15 T	Acetone	10.000	8.214	17.9	95	0.00
16 T	1,3-Butadiene	10.000	8.855	11.4	97	0.00
17	tert-Butyl alcohol	10.000	9.012	9.9	93	0.00
18 T	1,1-Dichloroethene	10.000	9.774	2.3	102	0.00
19 T	Isopropyl Alcohol	10.000	8.248	17.5	90	0.00
20 T	Methylene Chloride	10.000	7.757	22.4	96	0.00
21 T	Allyl Chloride	10.000	9.181	8.2	94	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.011	9.9	97	0.00
23 T	Vinyl Acetate	10.000	9.621	3.8	110	0.00
24 T	1,1-Dichloroethane	10.000	9.355	6.4	96	0.00
25 T	Ethyl Acetate	10.000	8.966	10.3	90	0.00
26 T	Hexane	10.000	9.015	9.8	93	0.00
27 T	Carbon Disulfide	10.000	9.520	4.8	96	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.839	1.6	110	0.00
29 T	Chloroform	10.000	9.412	5.9	97	0.00
30 T	Cyclohexane	10.000	9.096	9.0	95	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.580	4.2	94	0.00
32 T	1,1,1-Trichloroethane	10.000	9.666	3.3	99	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	95	0.00
34 T	2-Butanone	10.000	8.624	13.8	91	0.00
35 T	Carbon Tetrachloride	10.000	9.298	7.0	98	0.00
36 T	Benzene	10.000	9.077	9.2	94	0.00
37 T	1,2-Dichloroethane	10.000	9.156	8.4	97	0.00
38 T	Trichloroethene	10.000	8.453	15.5	93	0.00
39 T	1,2-Dichloropropane	10.000	8.971	10.3	93	0.00
40 T	1,4-Dioxane	10.000	8.265	17.3	86	0.00
41 T	Tetrahydrofuran	10.000	8.553	14.5	89	0.00
42 T	Bromodichloromethane	10.000	9.336	6.6	96	0.00
43	Methyl Methacrylate	10.000	8.898	11.0	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	8.738	12.6	91	0.00
45 T	t-1,3-Dichloropropene	10.000	9.146	8.5	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.106	8.9	91	0.00
47 T	1,1,2-Trichloroethane	10.000	9.000	10.0	94	0.00
48 T	Dibromochloromethane	10.000	9.127	8.7	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	8.980	10.2	89	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.709	12.9	88	0.00
51 T	2-Hexanone	10.000	8.999	10.0	86	0.00
52 T	Tetrachloroethene	10.000	8.681	13.2	90	0.00
53 T	Toluene	10.000	8.928	10.7	92	0.00
54 T	1,2-Dibromoethane	10.000	8.856	11.4	92	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.031	9.7	91	0.00
57 T	Chlorobenzene	10.000	8.770	12.3	91	0.00
58 T	Ethyl Benzene	10.000	8.990	10.1	91	0.00
59 T	m/p-Xylene	20.000	17.913	10.4	93	0.02
60 T	o-Xylene	10.000	8.834	11.7	92	0.00
61 T	Styrene	10.000	9.099	9.0	91	0.00
62	Isopropylbenzene	10.000	8.726	12.7	90	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.177	18.2	90	0.00
64	n-propylbenzene	10.000	8.503	15.0	88	0.00
65	tert-Butylbenzene	10.000	8.464	15.4	91	0.00
66 T	Benzyl Chloride	10.000	8.306	16.9	78	0.00
67	sec-Butylbenzene	10.000	8.541	14.6	91	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.101	-1.0	95	0.00
69	p-Isopropyltoluene	10.000	8.411	15.9	89	0.00
70	n-Butylbenzene	10.000	8.579	14.2	89	0.00
71	2-Chlorotoluene	10.000	8.828	11.7	91	0.00
72 T	4-Ethyltoluene	10.000	8.807	11.9	90	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.874	11.3	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.324	16.8	90	0.00
75 T	1,3-Dichlorobenzene	10.000	8.454	15.5	87	0.00
76 T	1,4-Dichlorobenzene	10.000	8.458	15.4	87	0.00
77 T	1,2-Dichlorobenzene	10.000	8.132	18.7	86	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.440	25.6	84	0.00
79 T	Naphthalene	10.000	8.334	16.7	80	0.00
80 T	Naphthalene,2-methyl-	10.000	10.146	-1.5	84	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.373	16.3	82	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>RTPE01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3557</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>11/06/2025 07:19</u>
Lab File ID:	<u>VL043155.D</u>	Init. Calib. Date(s):	<u>10/14/2025 10/14/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>10:31 14:18</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.422	1.540		8.3	30
Chloromethane	0.563	0.511		-9.24	30
Vinyl Chloride	0.552	0.514		-6.88	30
Bromomethane	0.303	0.317		4.62	30
Chloroethane	0.226	0.206		-8.85	30
Tetrahydrofuran	0.376	0.348		-7.45	30
Trichlorofluoromethane	1.391	1.658		19.19	30
1,1,2-Trichlorotrifluoroethane	1.120	1.290		15.18	30
Dichlorotetrafluoroethane	1.149	1.236		7.57	30
tert-Butyl alcohol	1.850	1.830		-1.08	30
Heptane	1.964	1.685		-14.21	30
1,1-Dichloroethene	0.488	0.538		10.25	30
Acetone	1.348	1.223		-9.27	30
Carbon Disulfide	1.411	1.508		6.88	30
Methyl tert-Butyl Ether	0.701	0.712		1.57	30
Methylene Chloride	0.533	0.467		-12.38	30
trans-1,2-Dichloroethene	0.583	0.623		6.86	30
1,1-Dichloroethane	1.127	1.188		5.41	30
Cyclohexane	1.344	1.256		-6.55	30
2-Butanone	0.672	0.688		2.38	30
Carbon Tetrachloride	0.719	0.852		18.5	30
cis-1,2-Dichloroethene	1.471	1.509		2.58	30
Chloroform	2.232	2.437		9.19	30
1,1,1-Trichloroethane	2.324	2.520		8.43	30
2,2,4-Trimethylpentane	1.589	1.566		-1.45	30
Benzene	0.942	0.956		1.49	30
1,2-Dichloroethane	0.543	0.624		14.92	30
Trichloroethene	0.393	0.379		-3.56	30
1,2-Dichloropropane	0.344	0.343		-0.29	30
Bromodichloromethane	0.751	0.853		13.58	30
4-Methyl-2-Pentanone	0.928	0.866		-6.68	30
Toluene	1.118	1.096		-1.97	30
t-1,3-Dichloropropene	0.480	0.492		2.5	30
cis-1,3-Dichloropropene	0.573	0.578		0.87	30
1,1,2-Trichloroethane	0.372	0.382		2.69	30
Dibromochloromethane	0.622	0.699		12.38	30
1,2-Dibromoethane	0.582	0.602		3.44	30
Tetrachloroethene	0.340	0.353		3.82	30

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>RTPE01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3557</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>11/06/2025</u> <u>07:19</u>
Lab File ID:	<u>VL043155.D</u>	Init. Calib. Date(s):	<u>10/14/2025</u> <u>10/14/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>10:31</u> <u>14:18</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.936	0.957		2.24	30
Ethyl Benzene	1.716	1.761		2.62	30
m/p-Xylene	1.369	1.442		5.33	30
o-Xylene	1.352	1.428		5.62	30
Styrene	0.610	0.601		-1.48	30
Bromoform	0.505	0.603		19.41	30
1,1,2,2-Tetrachloroethane	0.905	0.913		0.88	30
2-Chlorotoluene	1.863	1.949		4.62	30
1,3,5-Trimethylbenzene	1.371	1.463		6.71	30
1,2,4-Trimethylbenzene	1.534	1.599		4.24	30
1,3-Dichlorobenzene	0.890	0.974		9.44	30
1,4-Dichlorobenzene	0.897	0.976		8.81	30
1,2-Dichlorobenzene	0.861	0.919		6.74	30
1,2,4-Trichlorobenzene	0.666	0.715		7.36	30
Hexachloro-1,3-Butadiene	0.667	0.694		4.05	30
1,3-Butadiene	0.642	0.564		-12.15	30
Naphthalene	1.604	1.622		1.12	30
4-Ethyltoluene	1.662	1.778		6.98	30
1-Bromo-4-Fluorobenzene	0.777	0.822		5.79	30
Hexane	1.540	1.464		-4.93	30
Allyl Chloride	0.993	0.925		-6.85	30
1,4-Dioxane	154.080	147.512		-4.26	30
Methyl Methacrylate	0.478	0.460		-3.77	30

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:16:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	111679	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	299829	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 246332 10.570 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	171973	10.832	ppbv	97
3) Chlorodifluoromethane	1.479	51	173652	10.109	ppbv	96
4) Chloromethane	1.534	50	57078	9.075	ppbv	97
5) Vinyl Chloride	1.583	62	57398	9.304	ppbv	98
6) Bromomethane	1.670	94	35458	10.482	ppbv	99
7) Chloroethane	1.706	64	23010	9.123	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	137989	10.753	ppbv	91
9) Propene	1.486	41	63768	8.370	ppbv	99
10) Heptane	4.985	43	188172	8.579	ppbv	97
11) Trichlorofluoromethane	1.881	101	185190	11.925	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.143	101	144020	11.519	ppbv	99
13) Ethanol	1.722	45	20822	7.389	ppbv	98
14) Bromoethene	1.784	108	49929	10.750	ppbv	99
15) Acetone	1.835	43	136553	9.072	ppbv	100
16) 1,3-Butadiene	1.612	39	63019	8.785	ppbv	99
17) tert-Butyl alcohol	2.043	59	204329	9.889	ppbv	100
18) 1,1-Dichloroethene	2.036	96	60122	11.030	ppbv	93
19) Isopropyl Alcohol	1.887	45	81900	8.736	ppbv	93
20) Methylene Chloride	2.065	84	52206	8.774	ppbv	96
21) Allyl Chloride	2.098	41	103255	9.309	ppbv	92
22) trans-1,2-Dichloroethene	2.344	96	69627	10.686	ppbv	96
23) Vinyl Acetate	2.463	43	236500	10.726	ppbv	98
24) 1,1-Dichloroethane	2.412	63	132624	10.535	ppbv	99
25) Ethyl Acetate	2.836	43	352821	9.452	ppbv	99
26) Hexane	2.829	57	163545	9.508	ppbv	97
27) Carbon Disulfide	2.153	76	168378	10.684	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	79492	10.158	ppbv	94
29) Chloroform	2.852	83	272134	10.919	ppbv	100
30) Cyclohexane	3.862	84	140232	9.341	ppbv	93
31) cis-1,2-Dichloroethene	2.725	61	168571	10.263	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	281440	10.844	ppbv	99
34) 2-Butanone	2.557	43	235359	10.242	ppbv	98
35) Carbon Tetrachloride	3.768	117	291148	11.845	ppbv	99
36) Benzene	3.661	78	326769	10.148	ppbv	96
37) 1,2-Dichloroethane	3.221	62	213185	11.493	ppbv	98
38) Trichloroethene	4.554	130	129566	9.635	ppbv	94
39) 1,2-Dichloropropane	4.318	63	117127	9.950	ppbv	95
40) 1,4-Dioxane	4.580	88	50431	9.574	ppbv #	96
41) Tetrahydrofuran	3.056	42	119118	9.267	ppbv	97
42) Bromodichloromethane	4.496	83	291618	11.359	ppbv	100
43) Methyl Methacrylate	4.884	69	157399	9.624	ppbv	97
44) 2,2,4-Trimethylpentane	4.648	57	535251	9.853	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	168113	10.243	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:16:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

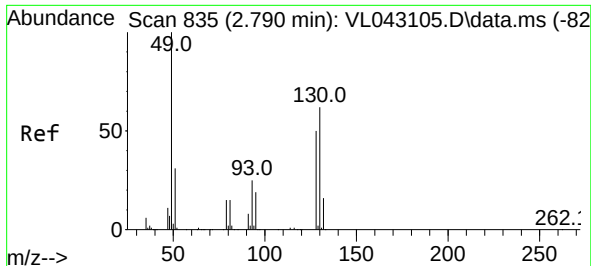
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

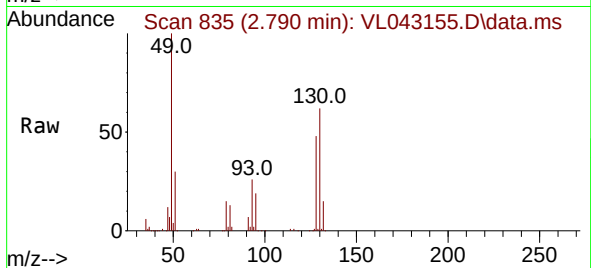
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	197738	10.086	ppbv	95
47) 1,1,2-Trichloroethane	6.584	97	130602	10.274	ppbv	94
48) Dibromochloromethane	7.389	129	238917	11.241	ppbv	98
49) Bromoform	9.487	173	206162	11.933	ppbv	98
50) 4-Methyl-2-Pentanone	5.748	43	295948	9.331	ppbv	100
51) 2-Hexanone	7.435	43	225625	9.485	ppbv #	98
52) Tetrachloroethene	8.231	164	120713	10.396	ppbv	98
53) Toluene	6.936	91	374714	9.805	ppbv	98
54) 1,2-Dibromoethane	7.655	107	205679	10.330	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	216010	11.429	ppbv	97
57) Chlorobenzene	8.924	112	286894	10.228	ppbv	100
58) Ethyl Benzene	9.357	91	527991	10.261	ppbv	100
59) m/p-Xylene	9.555	91	864452m	21.062	ppbv	
60) o-Xylene	9.966	91	428248	10.565	ppbv	98
61) Styrene	9.872	104	180052	9.839	ppbv	99
62) Isopropylbenzene	10.542	105	773742	10.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	273835	10.089	ppbv	99
64) n-propylbenzene	10.992	120	202414	10.438	ppbv	96
65) tert-Butylbenzene	11.532	119	664024	10.266	ppbv	97
66) Benzyl Chloride	11.620	91	66651	9.258	ppbv	98
67) sec-Butylbenzene	11.769	105	948023	10.327	ppbv	99
69) p-Isopropyltoluene	11.927	119	798570	10.237	ppbv	98
70) n-Butylbenzene	12.283	91	800217	10.410	ppbv	99
71) 2-Chlorotoluene	10.901	91	584421	10.461	ppbv	99
72) 4-Ethyltoluene	11.128	105	532971	10.693	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	438651	10.671	ppbv	93
74) 1,2,4-Trimethylbenzene	11.539	105	479281	10.419	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	291949	10.943	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	292491	10.872	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	275403	10.670	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	208179	10.417	ppbv	99
79) Naphthalene	13.516	128	486229	10.113	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	137059	10.942	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	214527	10.750	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

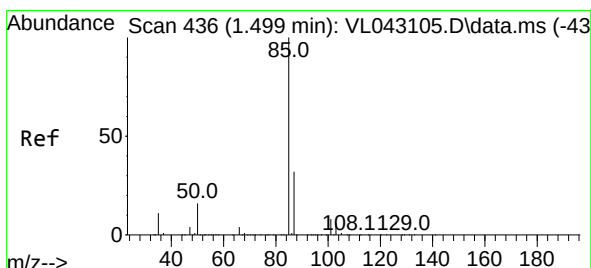
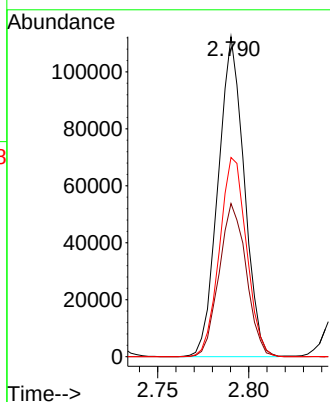
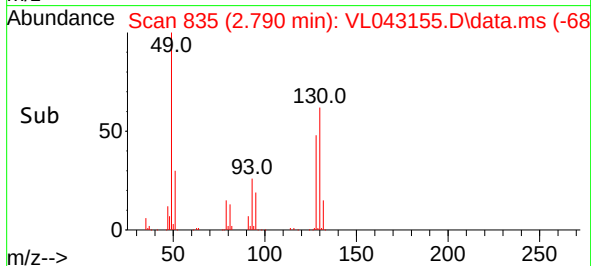
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



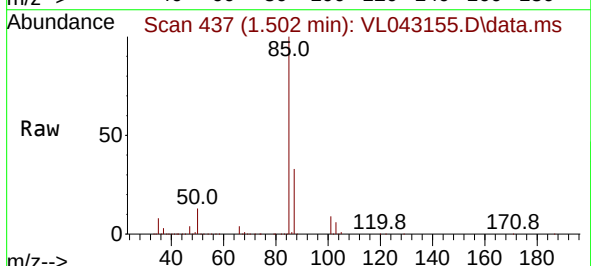
Tgt Ion: 49 Resp: 111679
Ion Ratio Lower Upper
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128 49.7 24.4 73.4
130 64.6 31.0 93.0

Manual Integrations
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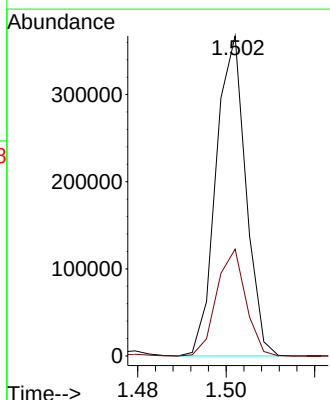
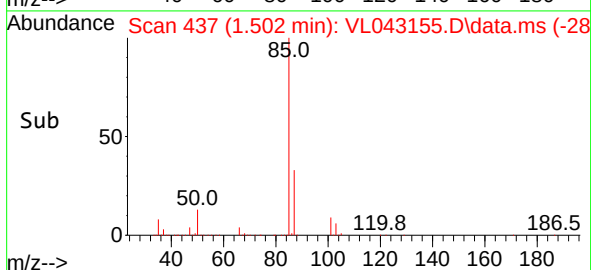
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

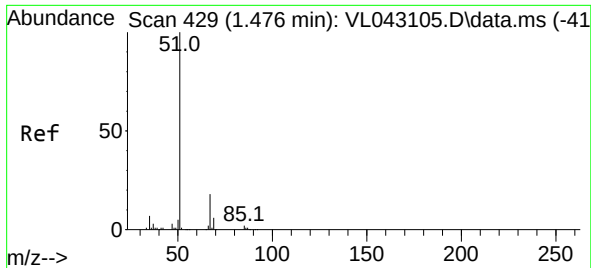


#2
Dichlorodifluoromethane
Concen: 10.832 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19



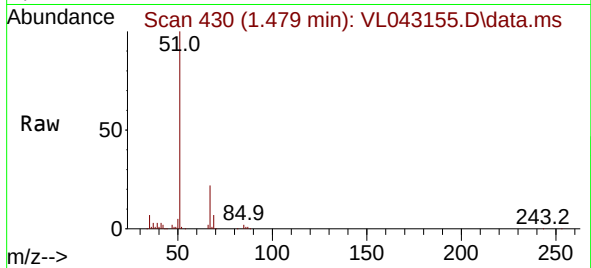
Tgt Ion: 85 Resp: 171973
Ion Ratio Lower Upper
85 100
87 33.4 25.3 37.9





#3
Chlorodifluoromethane
Concen: 10.109 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

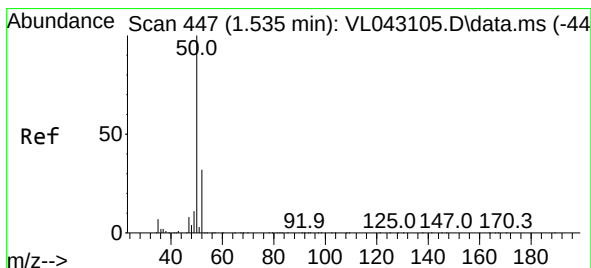
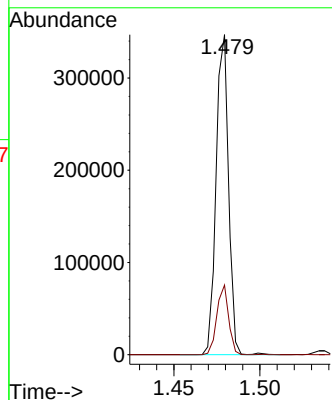
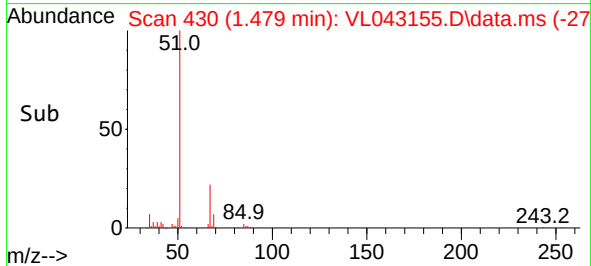
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 51 Resp: 173652
Ion Ratio Lower Upper
51 100
67 20.7 15.1 22.7

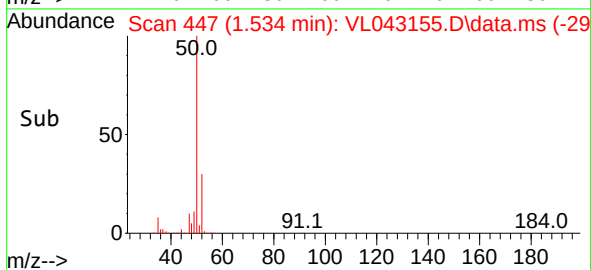
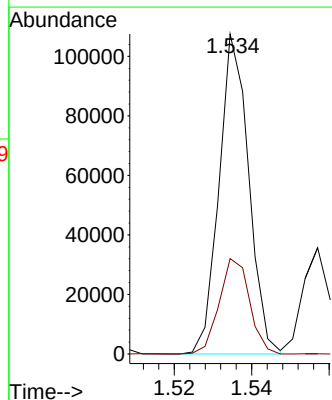
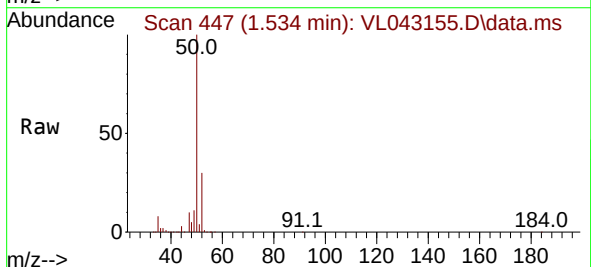
Manual Integrations
APPROVED

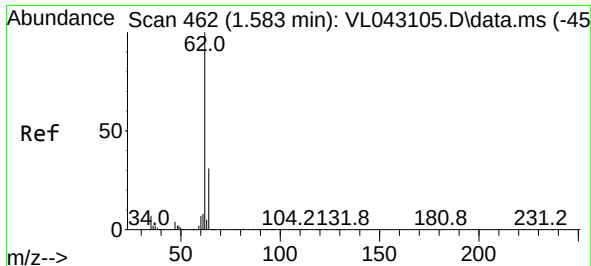
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 9.075 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

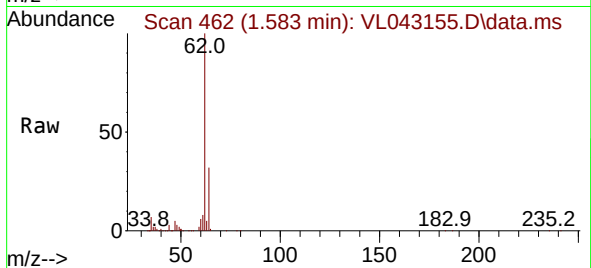
Tgt Ion: 50 Resp: 57078
Ion Ratio Lower Upper
50 100
52 29.8 25.2 37.8





#5
 Vinyl Chloride
 Concen: 9.304 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

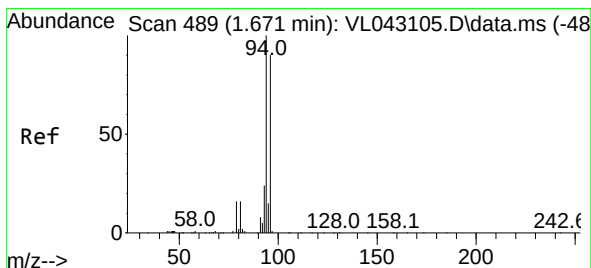
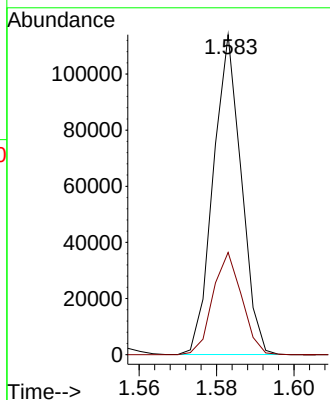
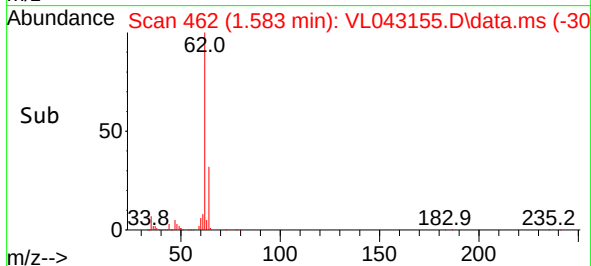
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



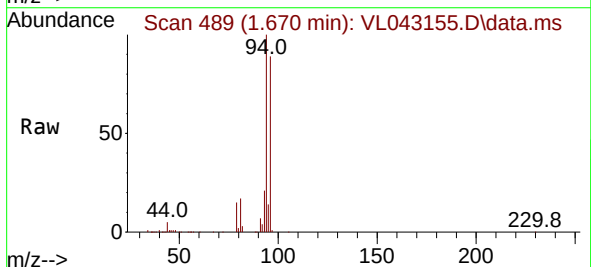
Tgt Ion: 62 Resp: 57398
 Ion Ratio Lower Upper
 62 100
 64 32.0 24.6 36.8

Manual Integrations
 APPROVED

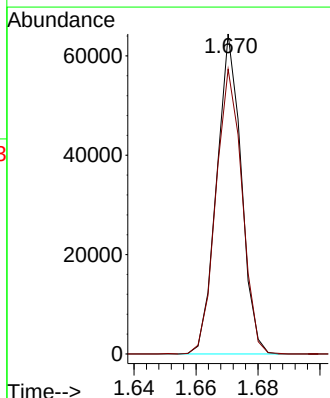
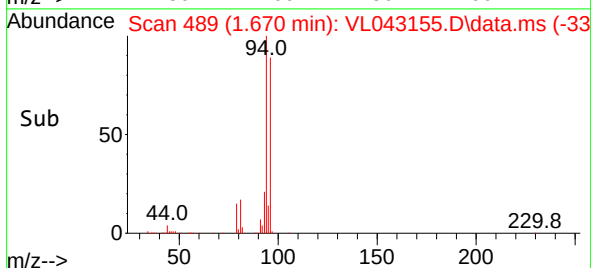
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

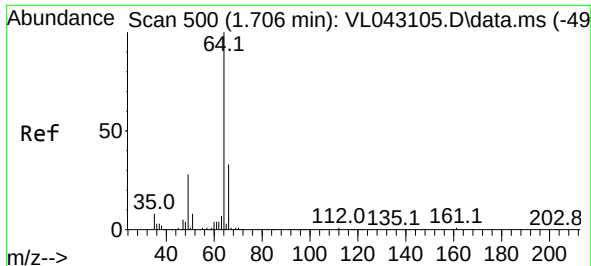


#6
 Bromomethane
 Concen: 10.482 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19



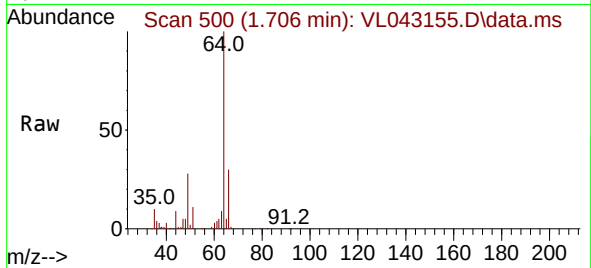
Tgt Ion: 94 Resp: 35458
 Ion Ratio Lower Upper
 94 100
 96 89.0 72.2 108.4





#7
Chloroethane
Concen: 9.123 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

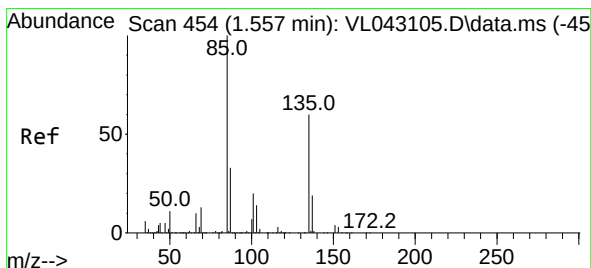
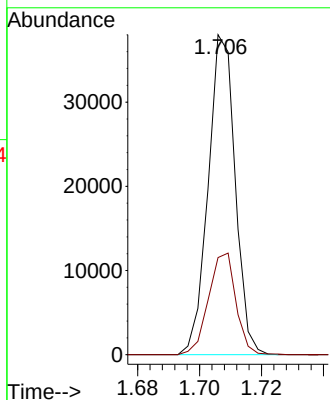
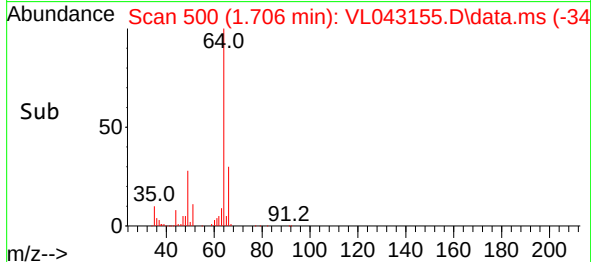
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 64 Resp: 23010
Ion Ratio Lower Upper
64 100
66 30.4 26.0 39.0

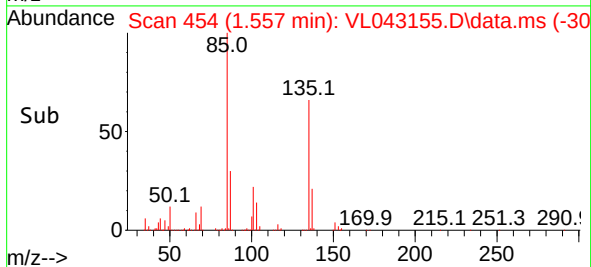
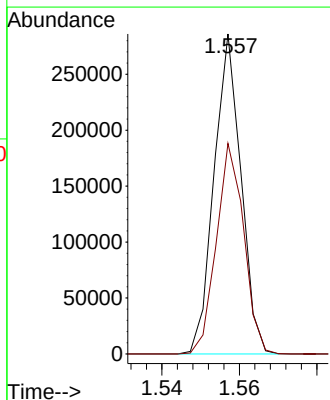
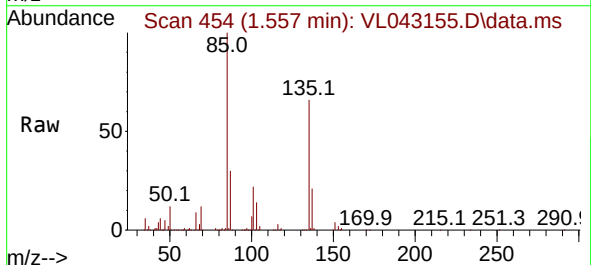
Manual Integrations
APPROVED

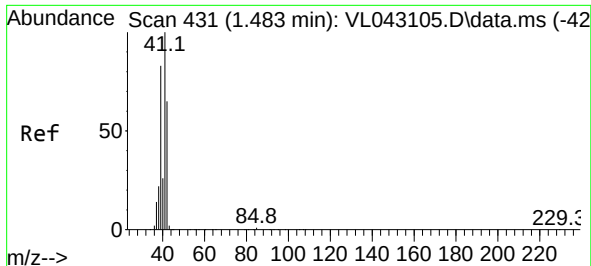
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#8
Dichlorotetrafluoroethane
Concen: 10.753 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 85 Resp: 137989
Ion Ratio Lower Upper
85 100
135 67.0 48.2 72.4





#9

Propene

Concen: 8.370 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 63768

Ion Ratio Lower Upper

41 100

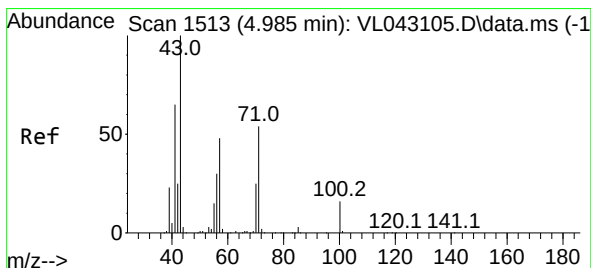
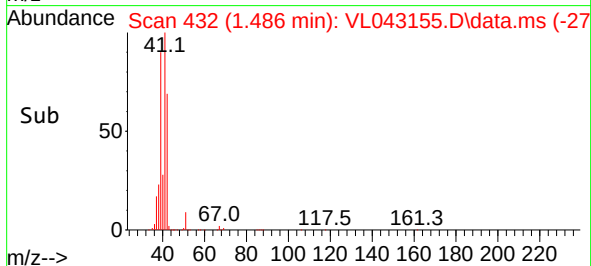
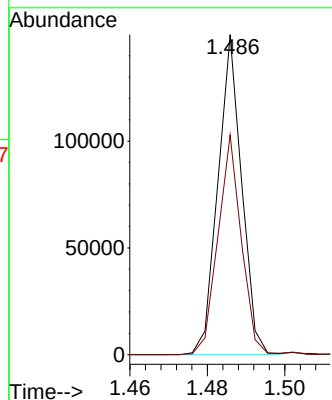
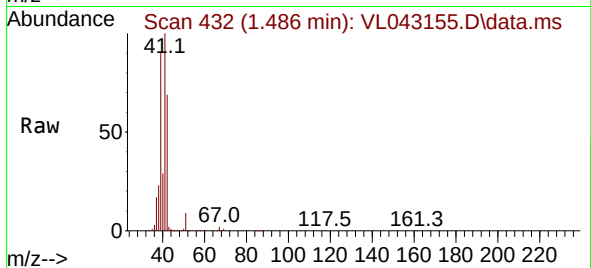
42 68.3 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#10

Heptane

Concen: 8.579 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043155.D

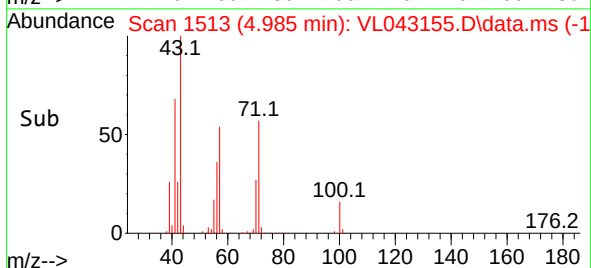
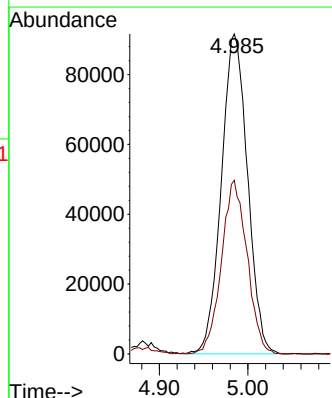
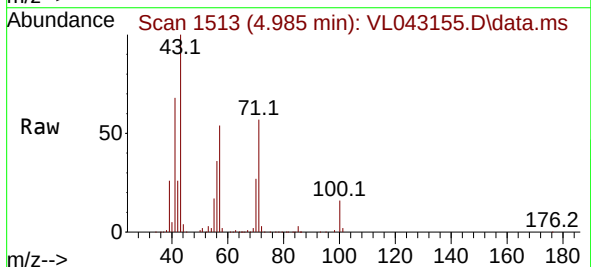
Acq: 06 Nov 2025 07:19

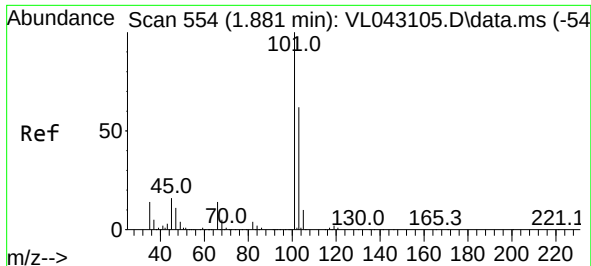
Tgt Ion: 43 Resp: 188172

Ion Ratio Lower Upper

43 100

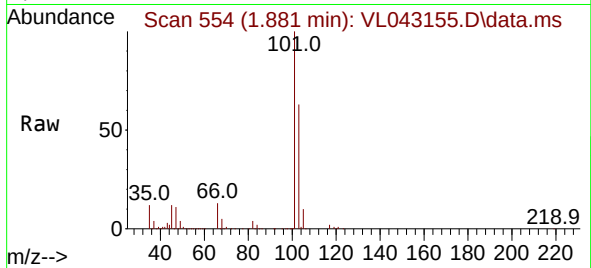
57 53.2 40.8 61.2





#11
 Trichlorofluoromethane
 Concen: 11.925 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

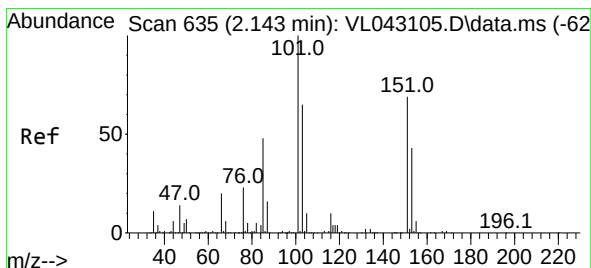
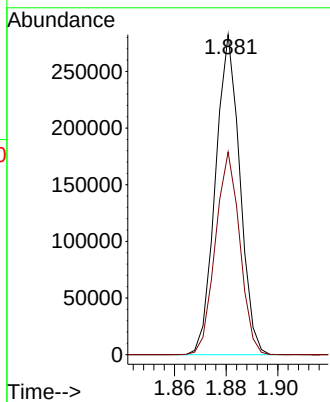
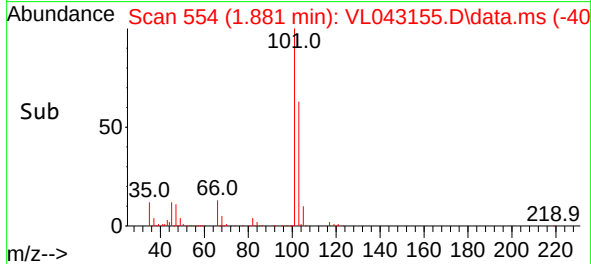
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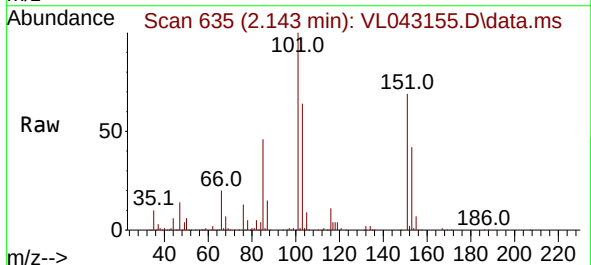
Tgt Ion:101 Resp: 185190
 Ion Ratio Lower Upper
 101 100
 103 63.3 49.3 73.9

Manual Integrations
 APPROVED

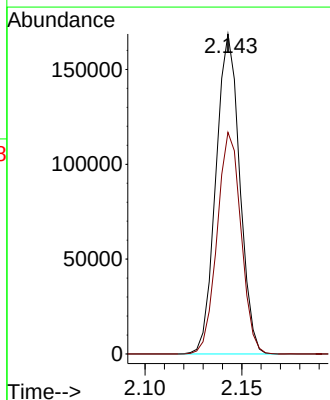
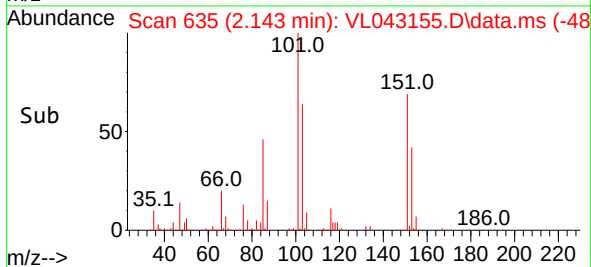
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

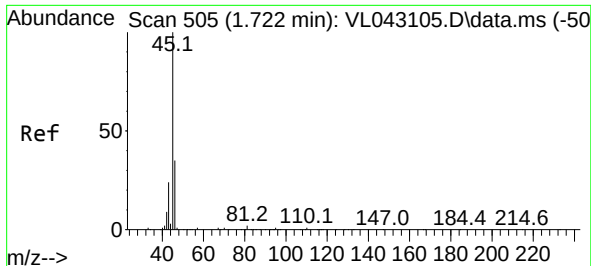


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.519 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19



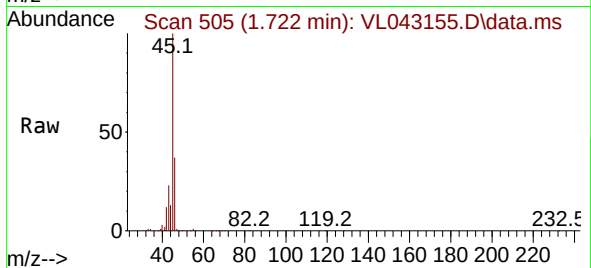
Tgt Ion:101 Resp: 144020
 Ion Ratio Lower Upper
 101 100
 151 69.5 54.7 82.1





#13
Ethanol
Concen: 7.389 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

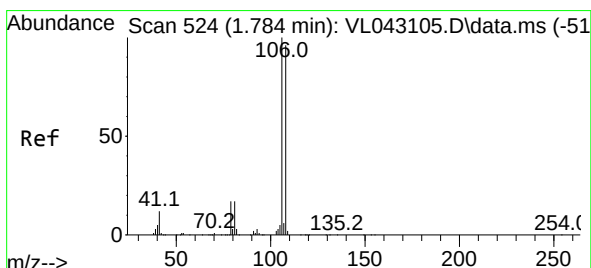
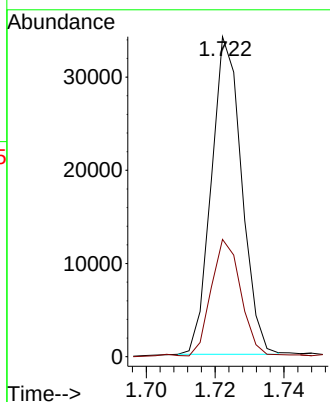
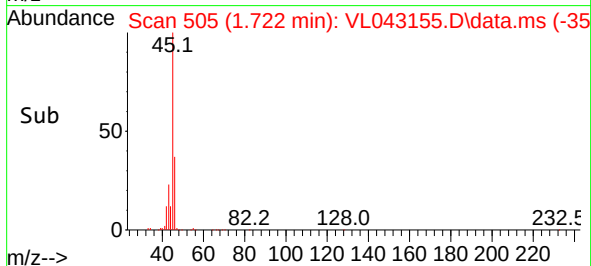
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



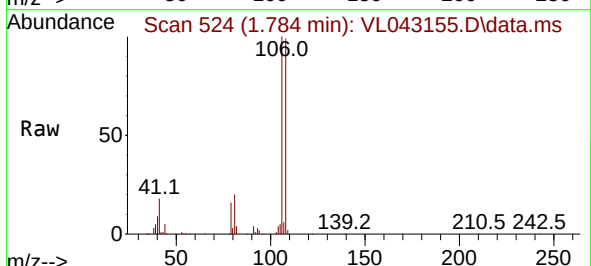
Tgt Ion: 45 Resp: 2082
Ion Ratio Lower Upper
45 100
46 38.0 14.7 58.9

Manual Integrations
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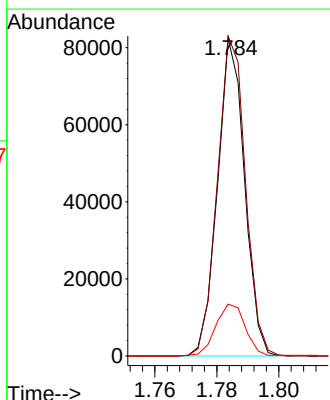
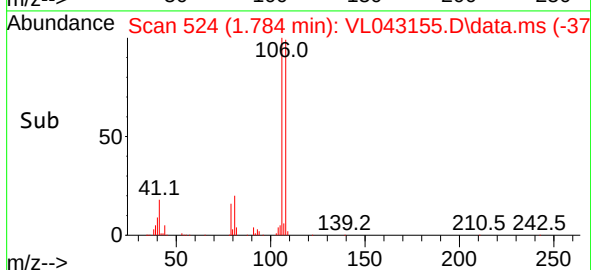
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

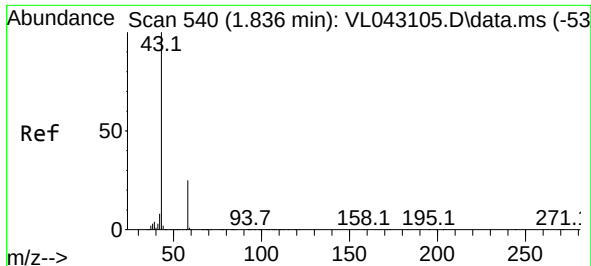


#14
Bromoethene
Concen: 10.750 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19



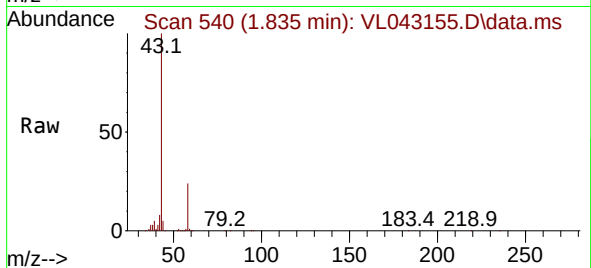
Tgt Ion:108 Resp: 49929
Ion Ratio Lower Upper
108 100
106 104.4 84.4 126.6
79 18.3 15.3 22.9





#15
Acetone
Concen: 9.072 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

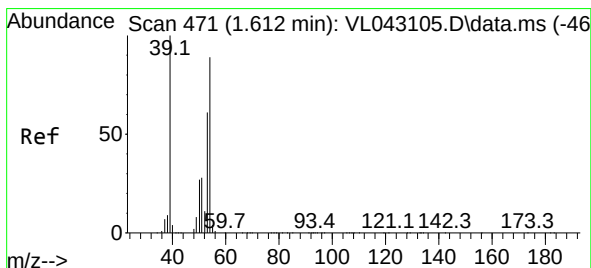
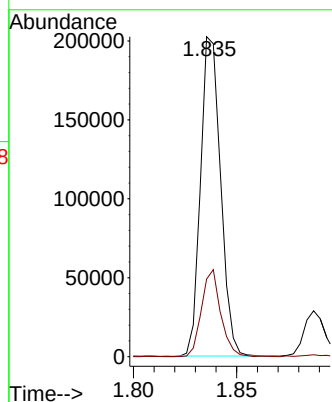
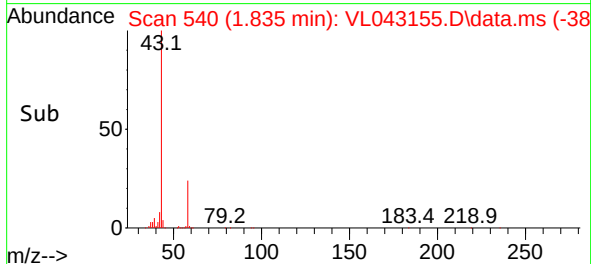
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 13655
Ion Ratio Lower Upper
43 100
58 26.2 20.8 31.2

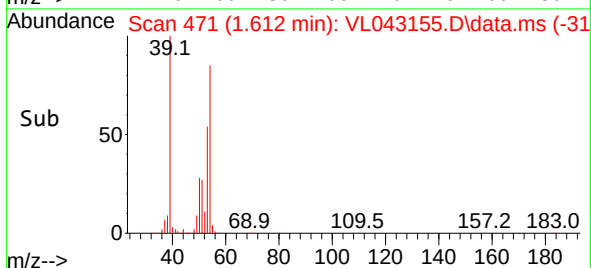
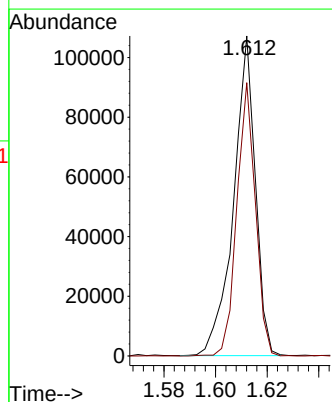
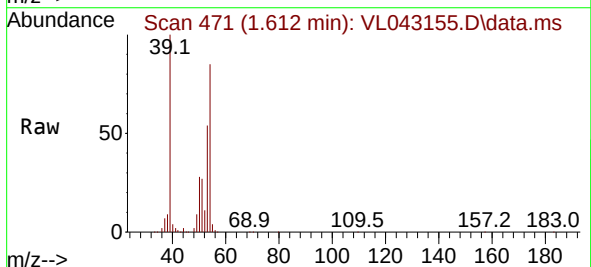
Manual Integrations
APPROVED

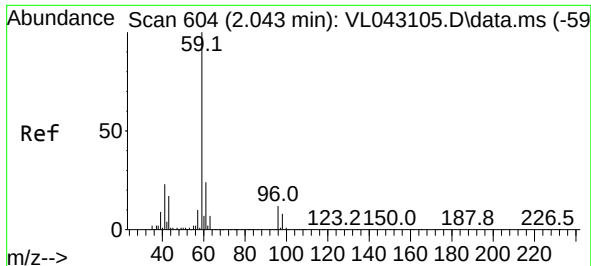
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#16
1,3-Butadiene
Concen: 8.785 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

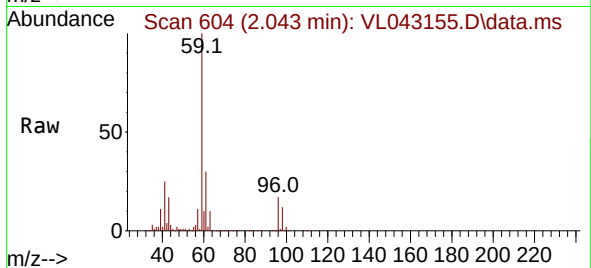
Tgt Ion: 39 Resp: 63019
Ion Ratio Lower Upper
39 100
54 72.9 59.0 88.4





#17
tert-Butyl alcohol
Concen: 9.889 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

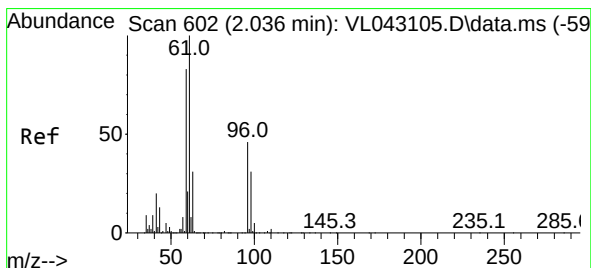
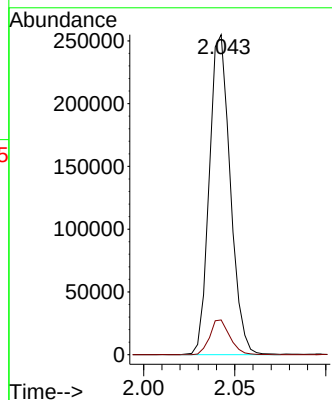
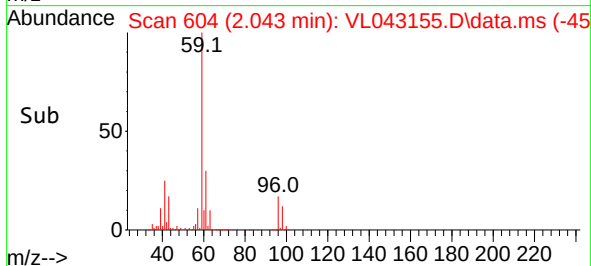
Instrument : MSVOA_L
Client Sample Id : VSTDCCC010



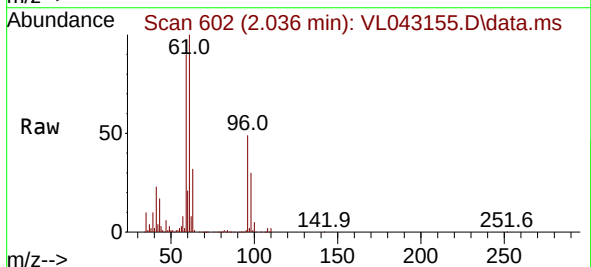
Tgt Ion: 59 Resp: 204329
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.4

Manual Integrations
APPROVED

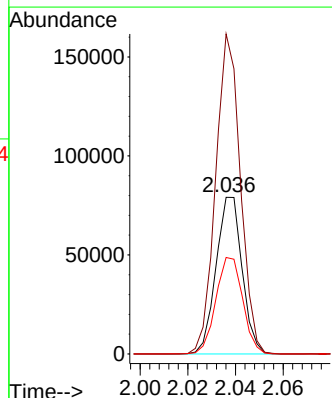
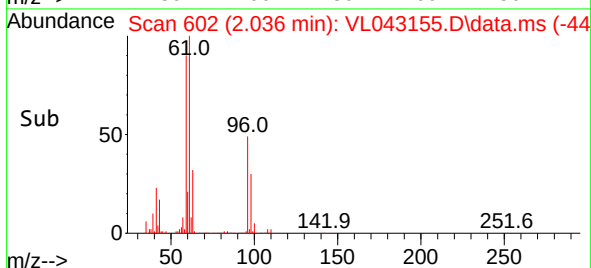
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

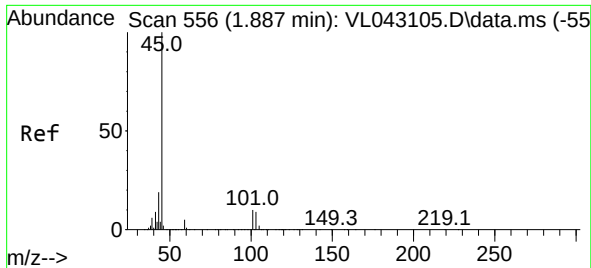


#18
1,1-Dichloroethene
Concen: 11.030 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19



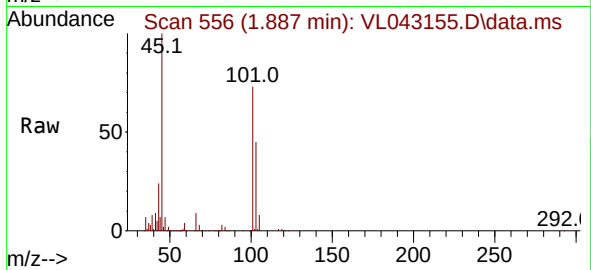
Tgt Ion: 96 Resp: 60122
Ion Ratio Lower Upper
96 100
61 204.3 173.4 260.0
98 61.6 53.2 79.8





#19
Isopropyl Alcohol
Concen: 8.736 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

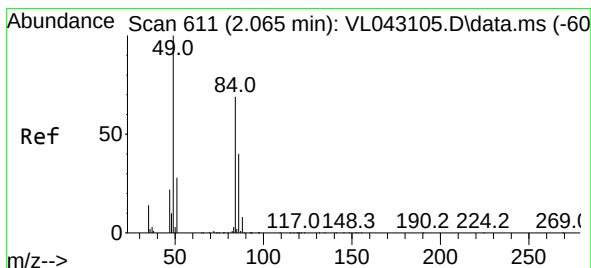
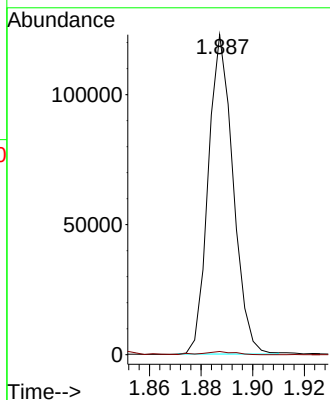
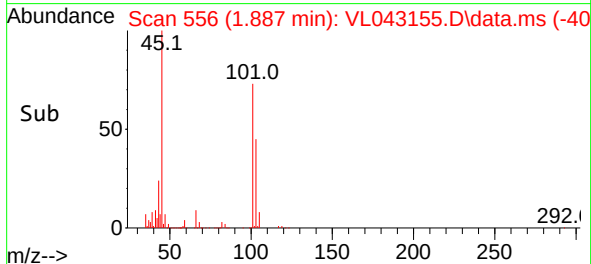
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



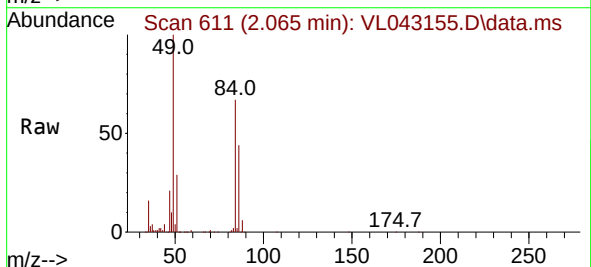
Tgt Ion: 45 Resp: 81900
Ion Ratio Lower Upper
45 100
58 43.6 31.3 46.9

Manual Integrations
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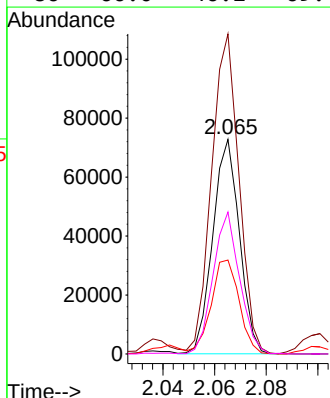
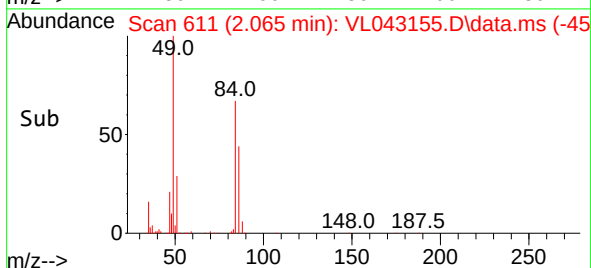
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

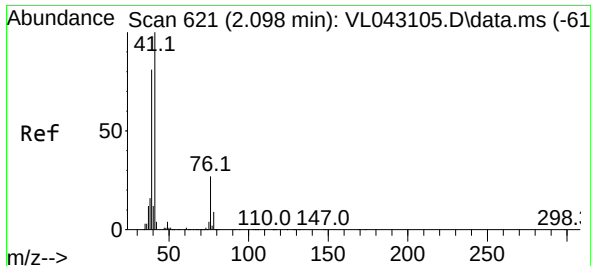


#20
Methylene Chloride
Concen: 8.774 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19



Tgt Ion: 84 Resp: 52206
Ion Ratio Lower Upper
84 100
49 149.2 116.6 175.0
51 43.7 34.8 52.2
86 66.0 46.2 69.4





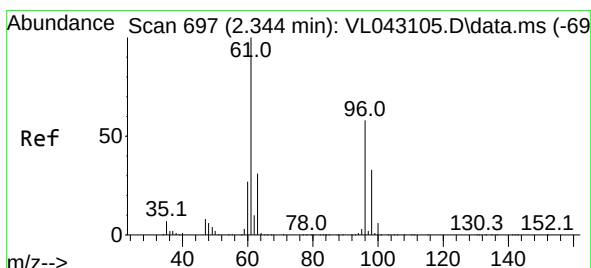
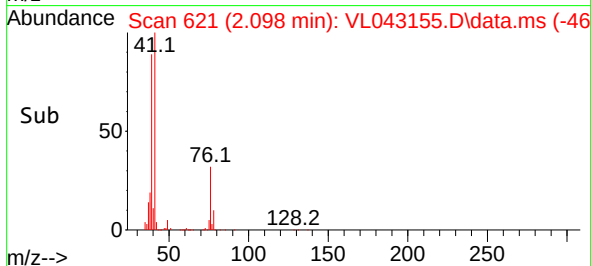
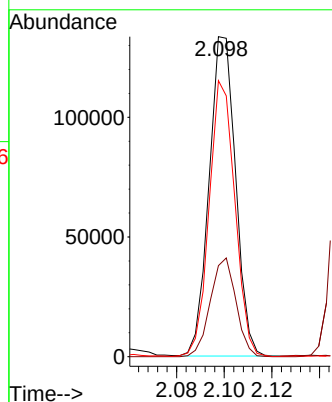
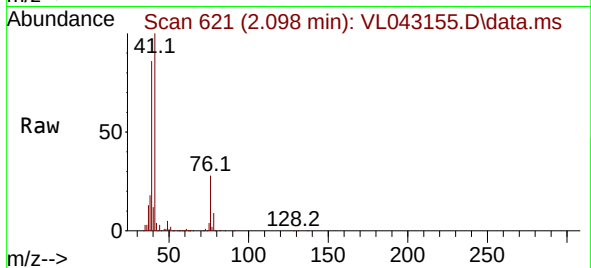
#21
 Allyl Chloride
 Concen: 9.309 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 41 Resp: 10325
 Ion Ratio Lower Upper
 41 100
 76 29.9 21.5 32.3
 39 83.3 60.8 91.2

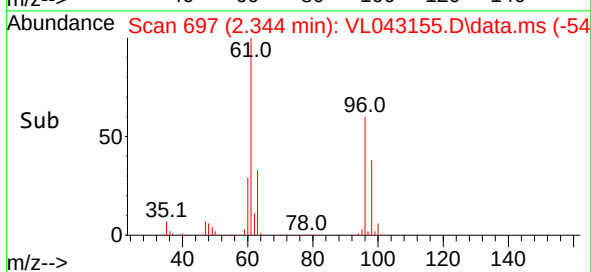
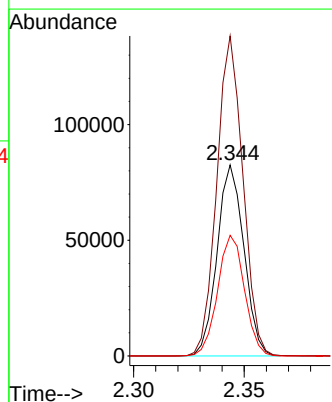
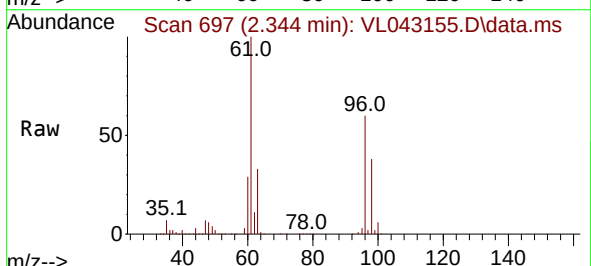
Manual Integrations
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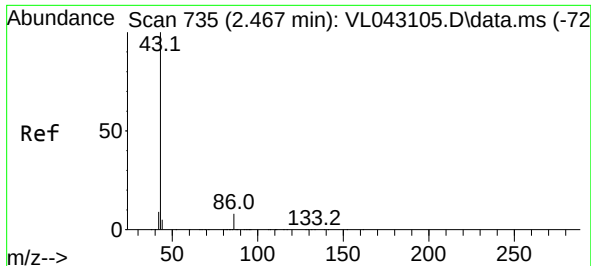
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#22
 trans-1,2-Dichloroethene
 Concen: 10.686 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

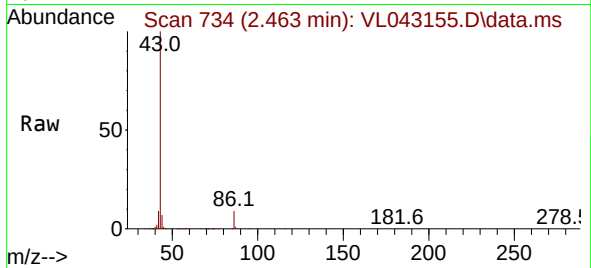
Tgt Ion: 96 Resp: 69627
 Ion Ratio Lower Upper
 96 100
 61 167.5 137.0 205.6
 98 63.2 45.5 68.3





#23
 Vinyl Acetate
 Concen: 10.726 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

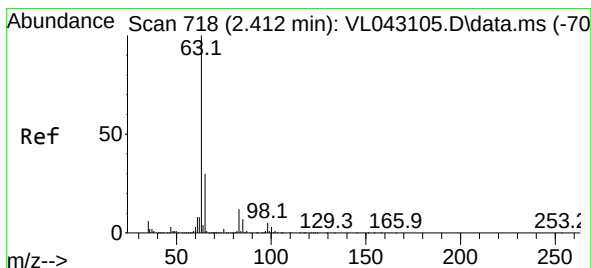
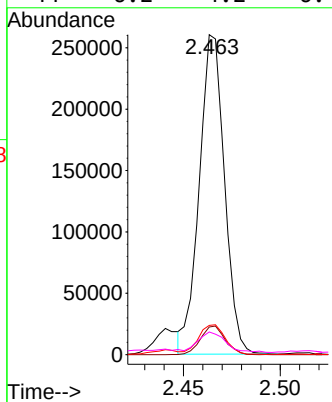
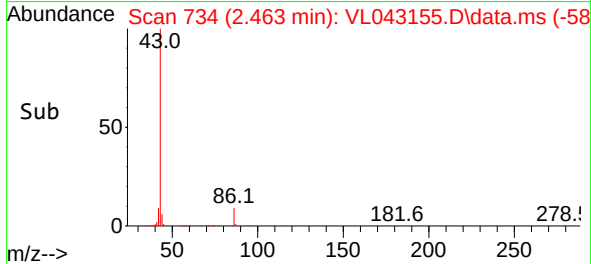
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



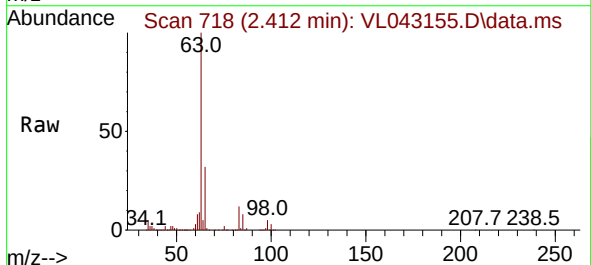
Tgt Ion: 43 Resp: 236500
 Ion Ratio Lower Upper
 43 100
 86 8.7 6.2 9.2
 42 9.1 7.6 11.4
 44 6.2 4.2 6.4

Manual Integrations
 APPROVED

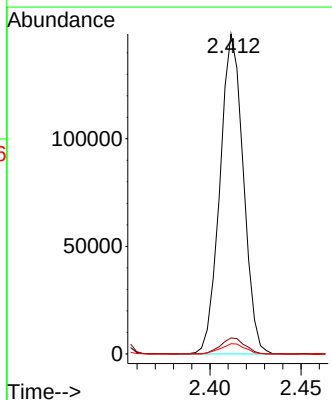
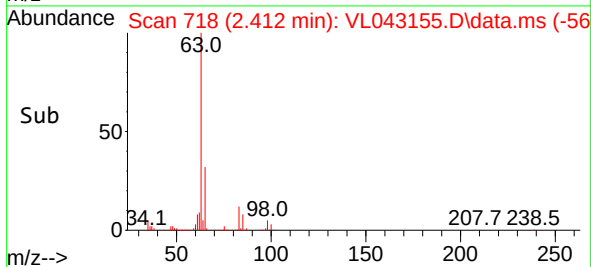
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

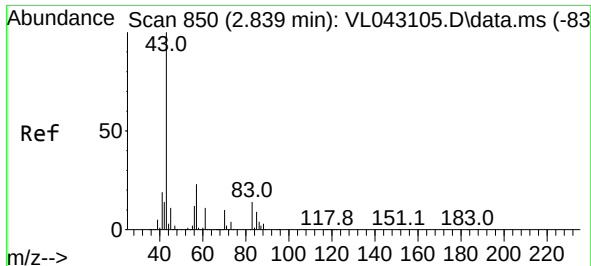


#24
 1,1-Dichloroethane
 Concen: 10.535 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19



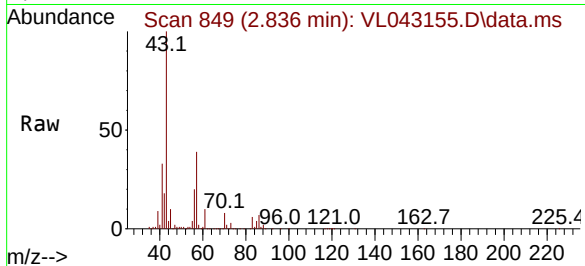
Tgt Ion: 63 Resp: 132624
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.6 7.8
 100 3.2 1.5 4.4





#25
Ethyl Acetate
Concen: 9.452 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

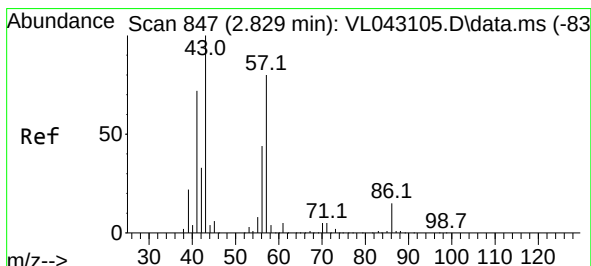
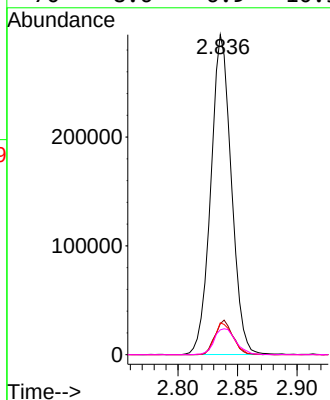
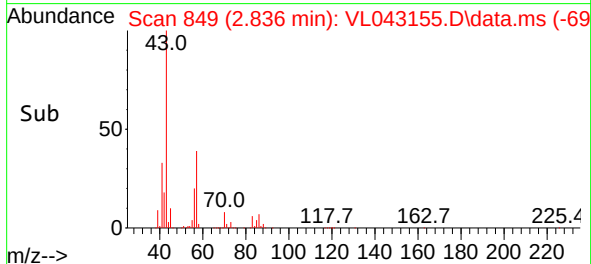
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



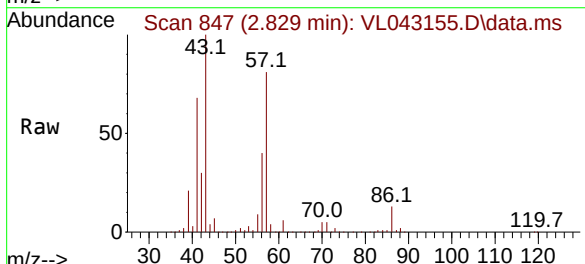
Tgt Ion:	43	Resp:	35282
Ion Ratio	100	Lower	Upper
43	100		
45	9.4	7.8	11.8
61	9.0	7.0	10.6
70	8.6	6.9	10.3

Manual Integrations
APPROVED

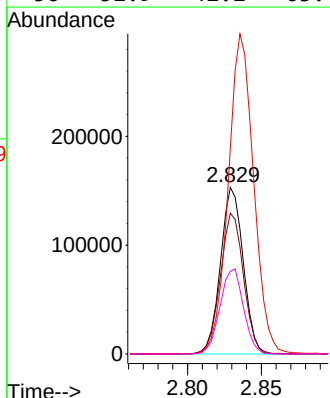
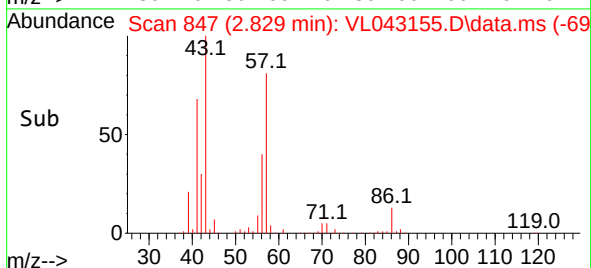
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

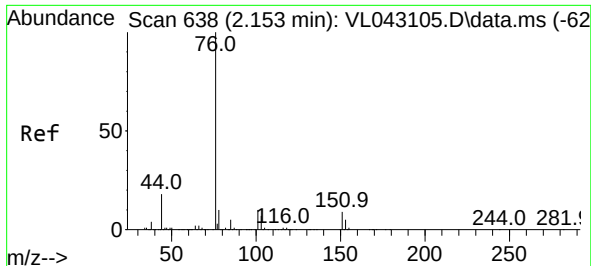


#26
Hexane
Concen: 9.508 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19



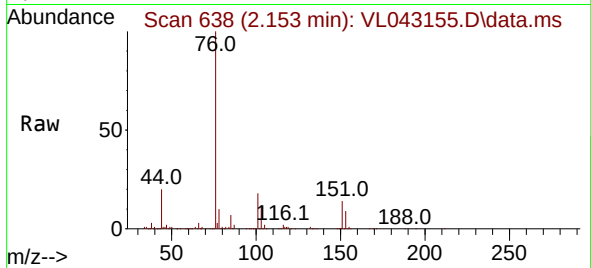
Tgt Ion:	57	Resp:	163545
Ion Ratio	100	Lower	Upper
57	100		
41	87.0	71.4	107.0
43	216.3	178.5	267.7
56	52.9	42.2	63.4





#27
Carbon Disulfide
Concen: 10.684 ppbv
RT: 2.153 min Scan# 638
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

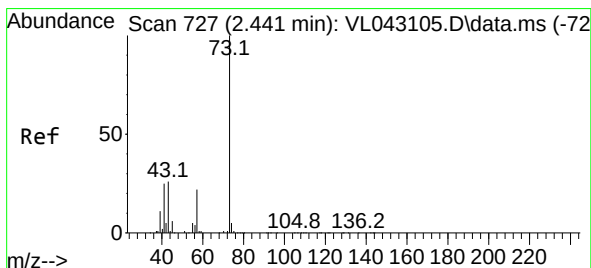
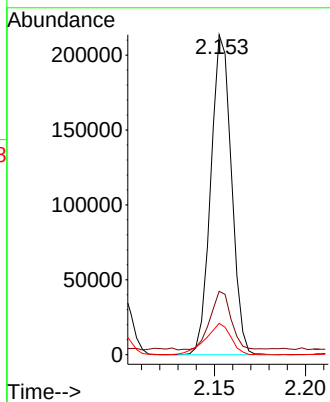
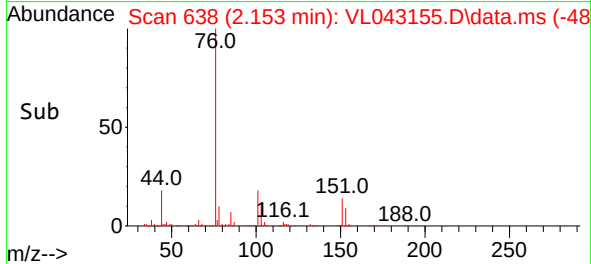
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 76 Resp: 168378
Ion Ratio Lower Upper
76 100
44 19.4 16.7 25.1
78 12.0 9.3 13.9

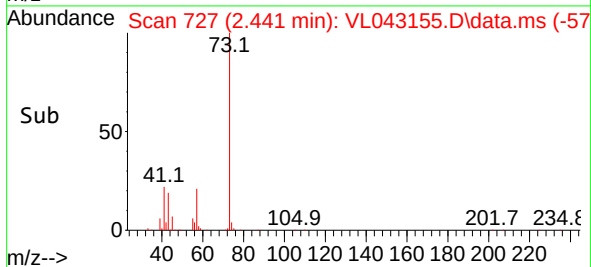
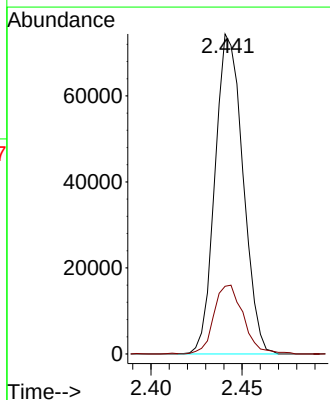
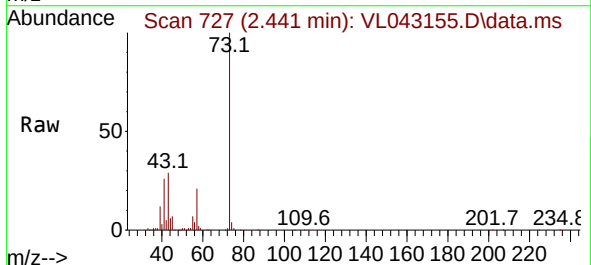
Manual Integrations
APPROVED

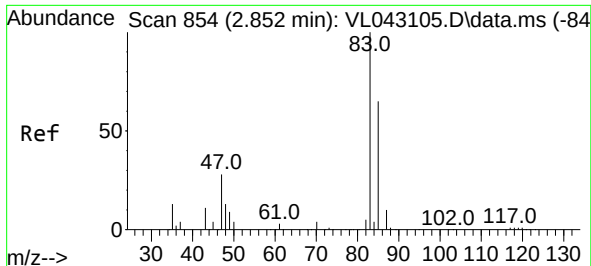
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#28
Methyl tert-Butyl Ether
Concen: 10.158 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 73 Resp: 79492
Ion Ratio Lower Upper
73 100
57 22.8 20.5 30.7





#29

Chloroform

Concen: 10.919 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 272134

Ion Ratio Lower Upper

83 100

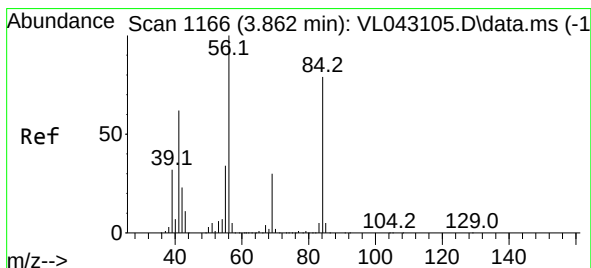
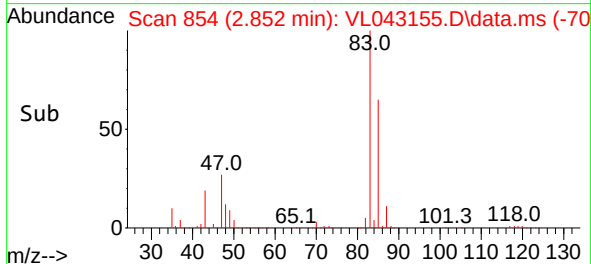
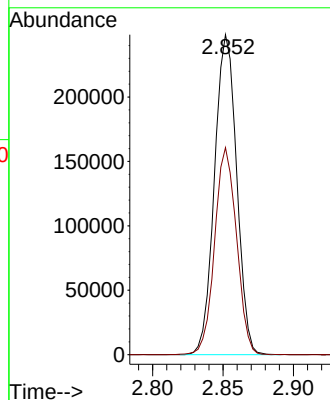
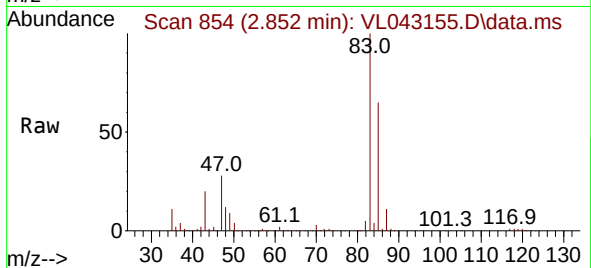
85 64.7 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#30

Cyclohexane

Concen: 9.341 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

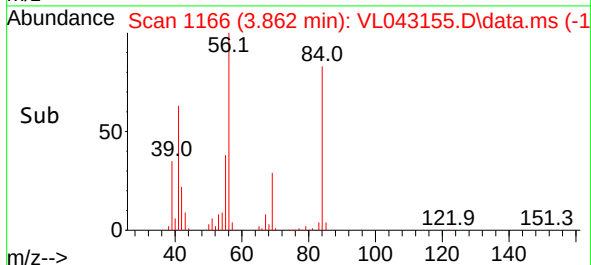
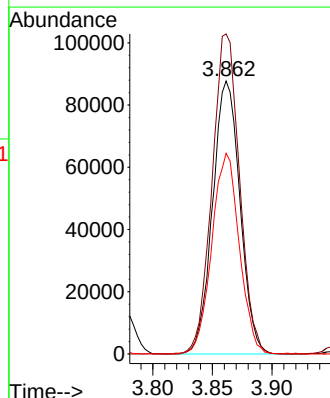
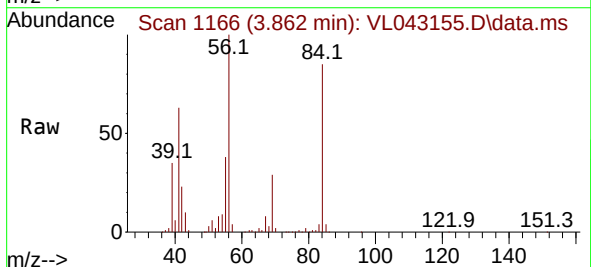
Tgt Ion: 84 Resp: 140232

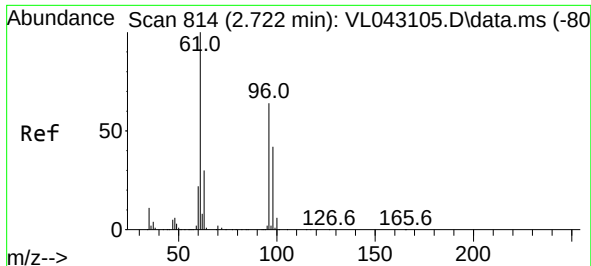
Ion Ratio Lower Upper

84 100

56 117.5 100.9 151.3

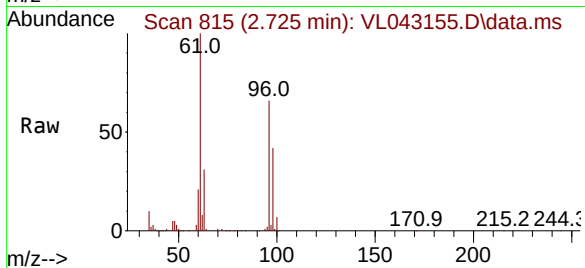
41 73.7 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 10.263 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

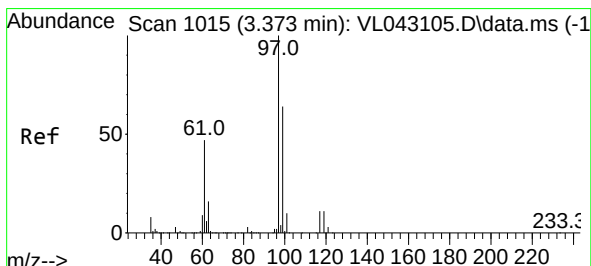
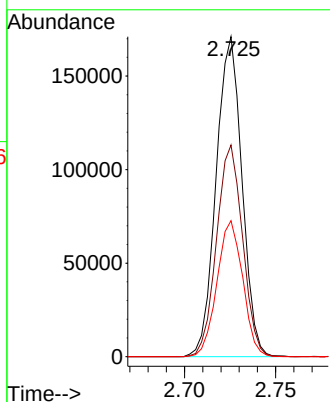
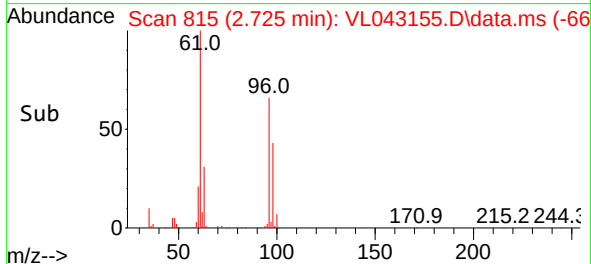
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



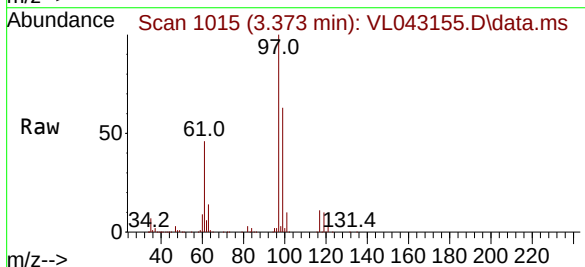
Tgt Ion: 61 Resp: 16857
 Ion Ratio Lower Upper
 61 100
 96 66.1 51.0 76.6
 98 42.5 33.5 50.3

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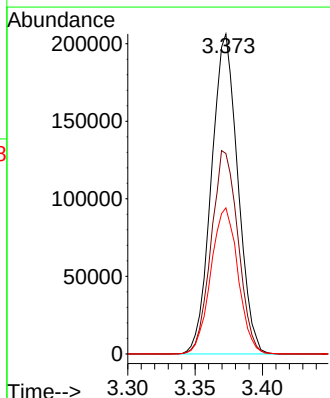
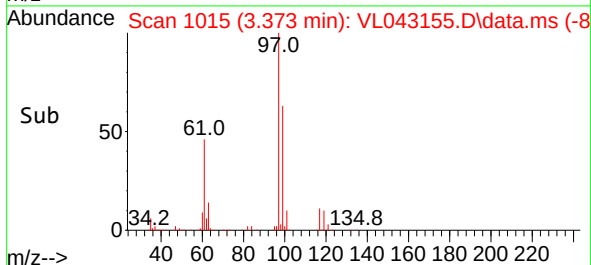
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

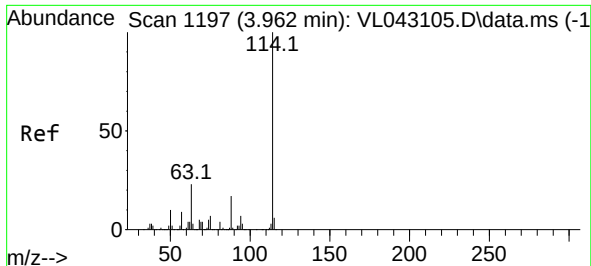


#32
 1,1,1-Trichloroethane
 Concen: 10.844 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19



Tgt Ion: 97 Resp: 281440
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.3 76.9
 61 47.1 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

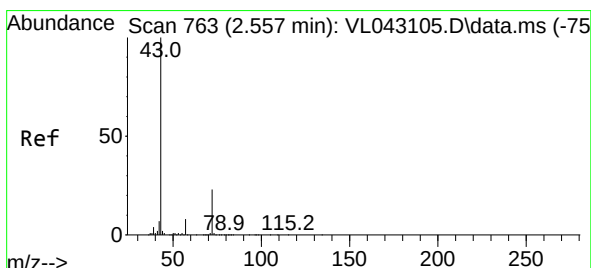
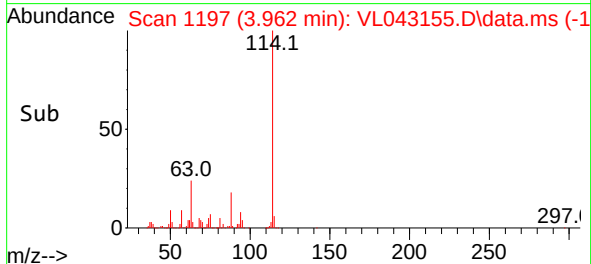
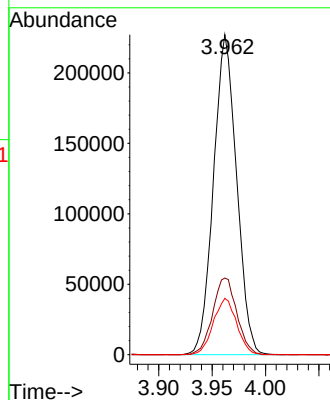
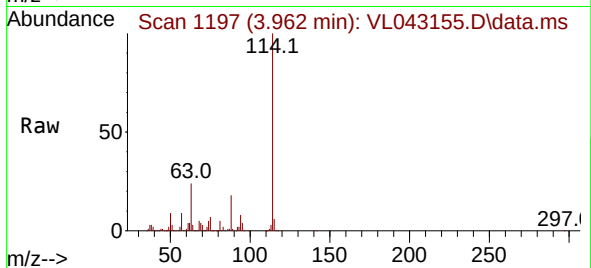
Tgt Ion:114 Resp: 34187

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	17.8	13.9	20.9

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#34

2-Butanone

Concen: 10.242 ppbv

RT: 2.557 min Scan# 763

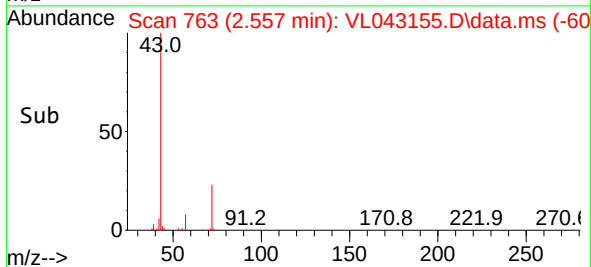
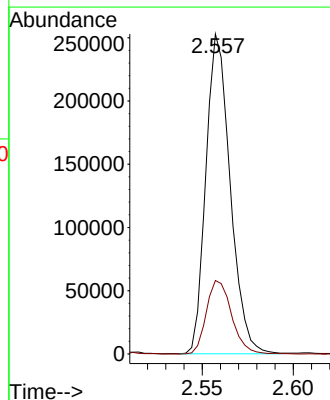
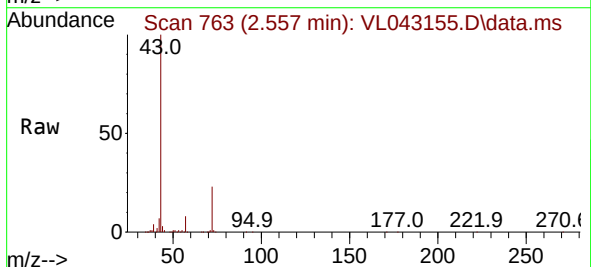
Delta R.T. -0.000 min

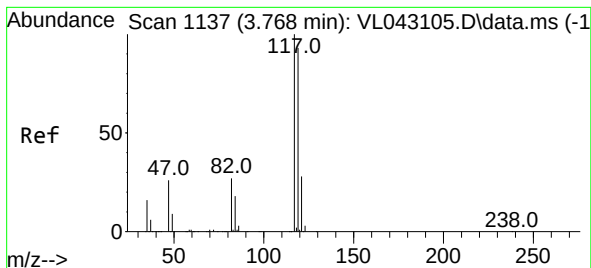
Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 43 Resp: 235359

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.4	27.6





#35

Carbon Tetrachloride

Concen: 11.845 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

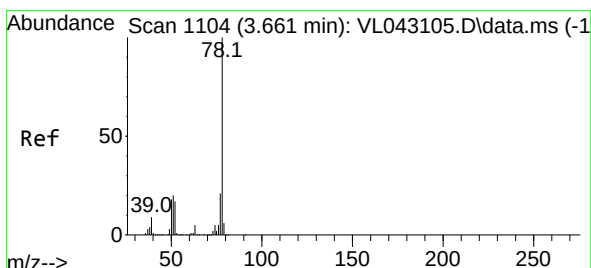
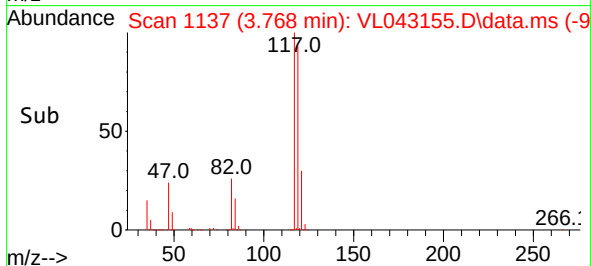
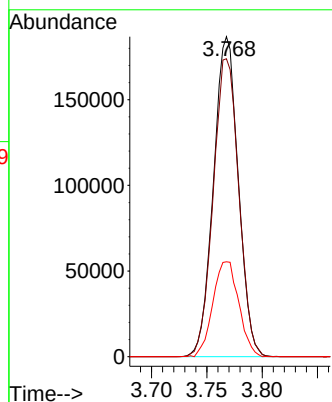
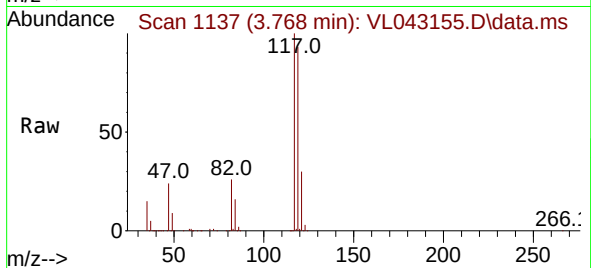
Tgt Ion:117 Resp: 29114

Ion	Ratio	Lower	Upper
117	100		
119	93.1	74.1	111.1
121	29.6	22.2	33.2

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#36

Benzene

Concen: 10.148 ppbv

RT: 3.661 min Scan# 1104

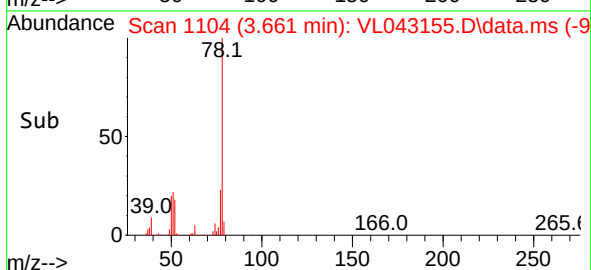
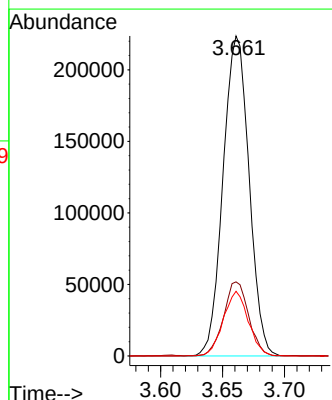
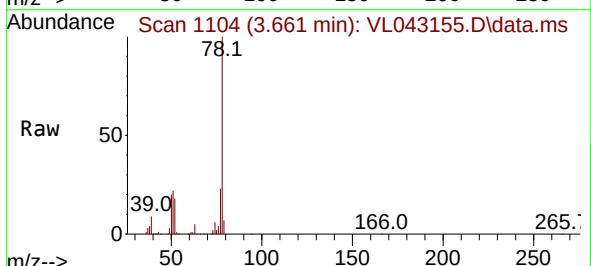
Delta R.T. -0.000 min

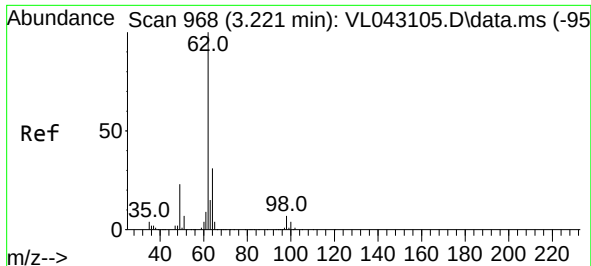
Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 78 Resp: 326769

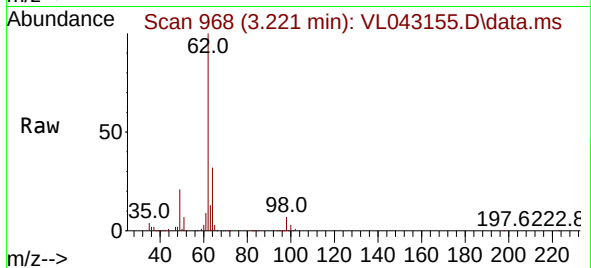
Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.0	25.6
50	20.2	14.6	22.0





#37
1,2-Dichloroethane
Concen: 11.493 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

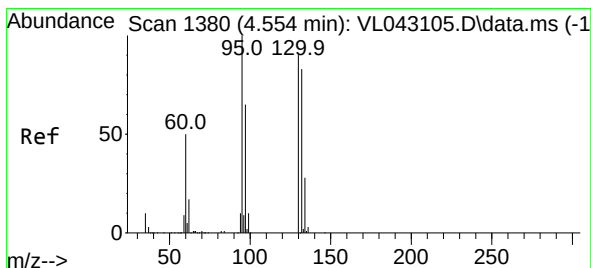
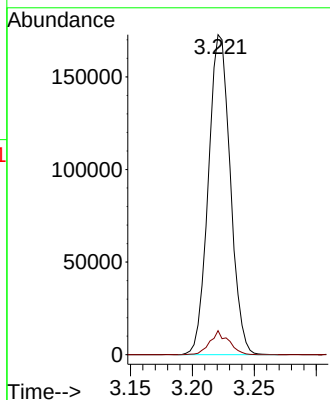
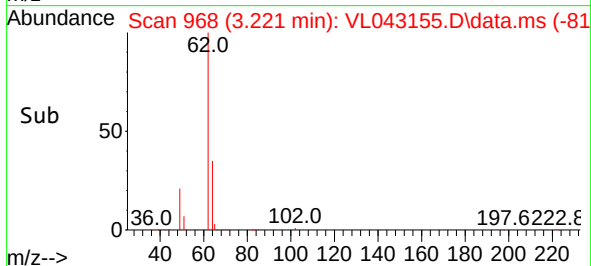
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 62 Resp: 21318
Ion Ratio Lower Upper
62 100
98 6.4 5.8 8.6

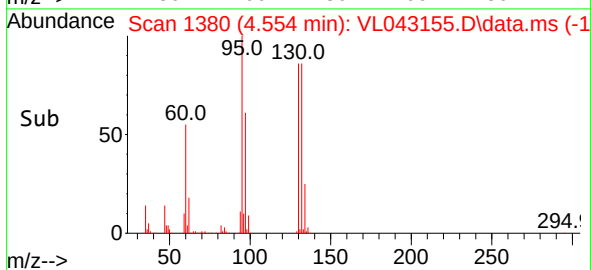
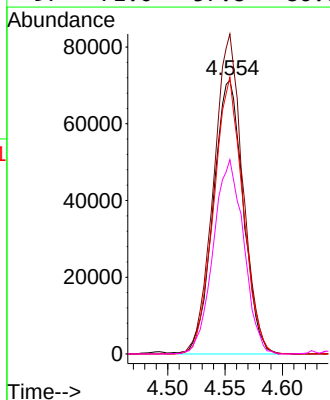
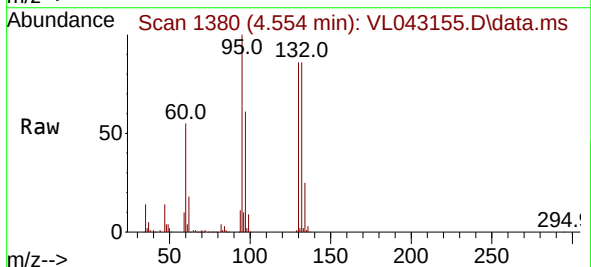
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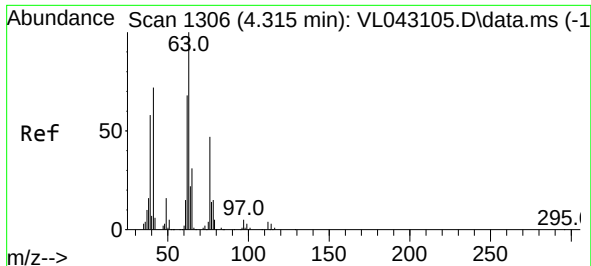
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#38
Trichloroethene
Concen: 9.635 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:130 Resp: 129566
Ion Ratio Lower Upper
130 100
95 116.7 88.6 133.0
132 101.0 73.4 110.0
97 71.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.950 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043155.D

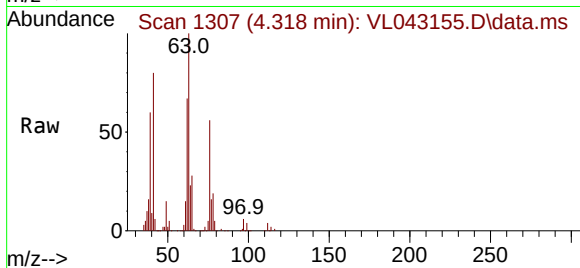
Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 63 Resp: 11712

Ion Ratio Lower Upper

63 100

41 79.6 58.0 87.0

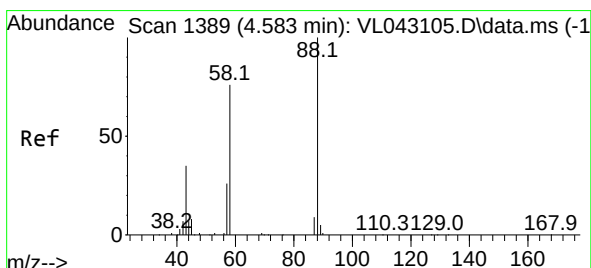
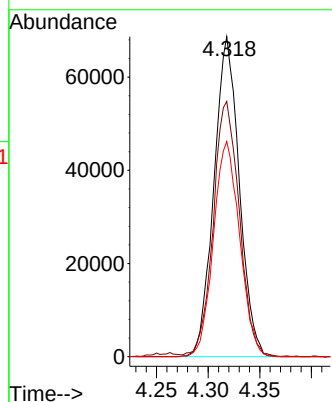
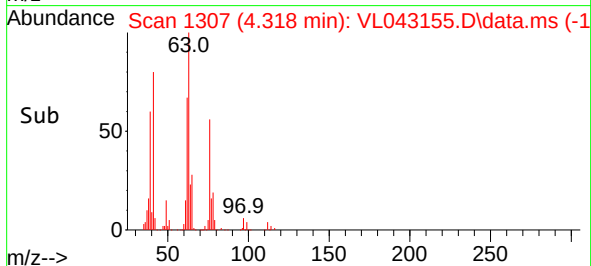
62 67.3 54.7 82.1

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#40

1,4-Dioxane

Concen: 9.574 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 88 Resp: 50431

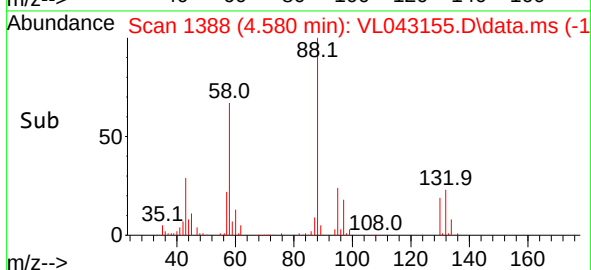
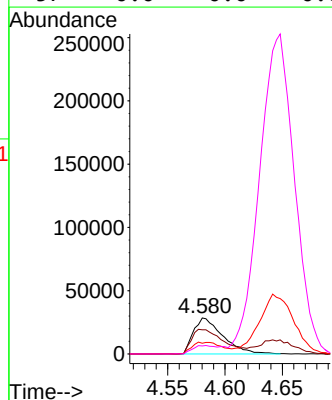
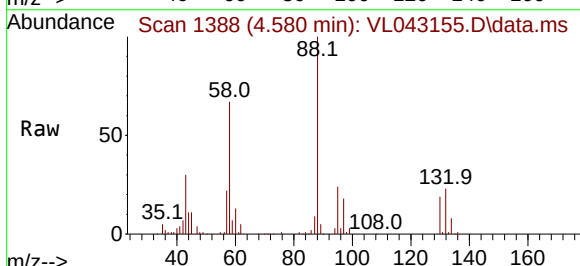
Ion Ratio Lower Upper

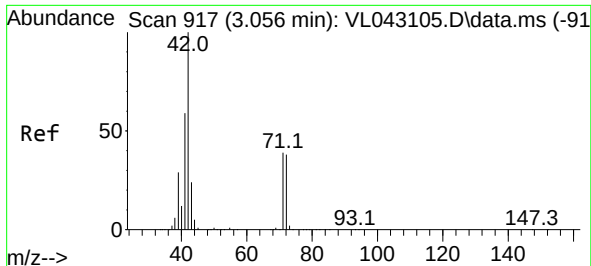
88 100

58 75.0 61.1 91.7

43 35.7 24.0 36.0

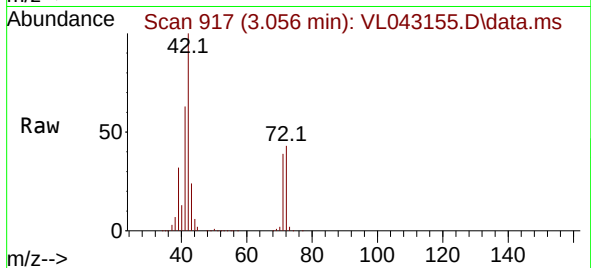
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.267 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

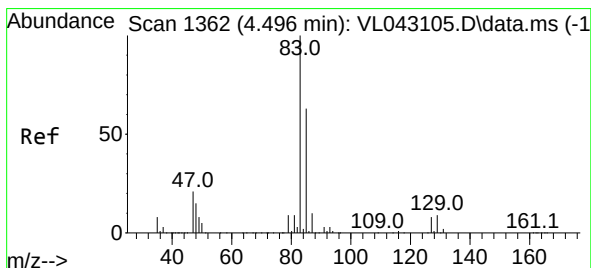
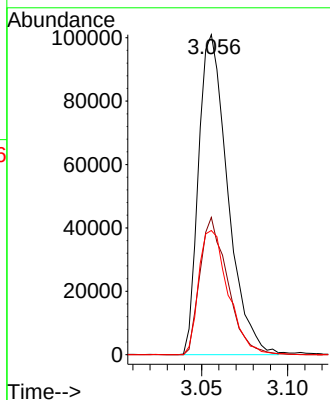
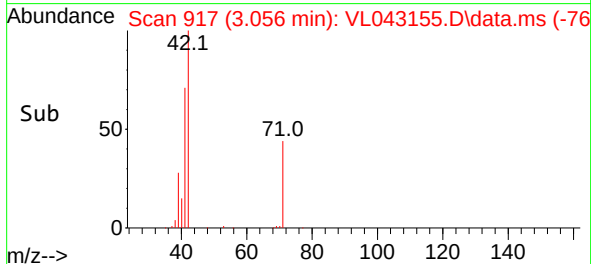
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



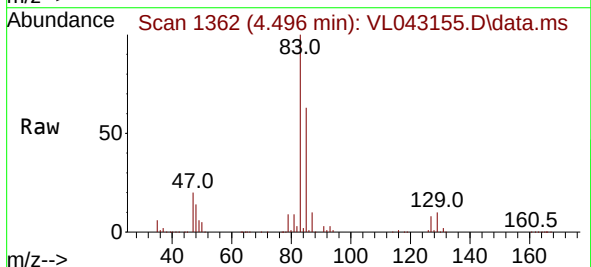
Tgt Ion: 42 Resp: 119118
Ion Ratio Lower Upper
42 100
72 40.9 31.3 46.9
71 39.4 30.4 45.6

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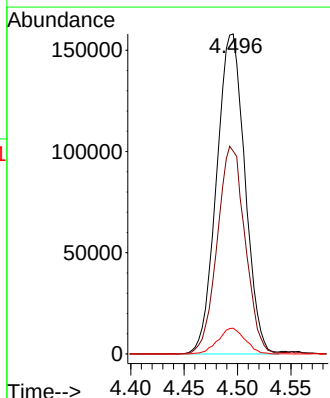
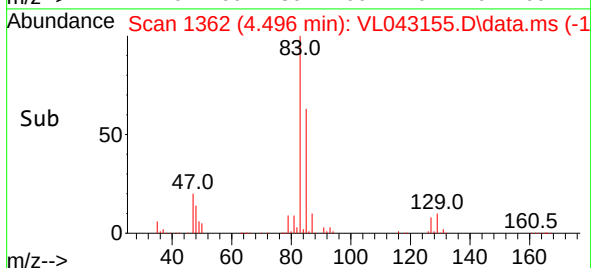
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

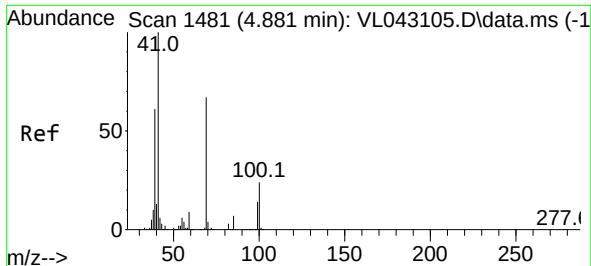


#42
Bromodichloromethane
Concen: 11.359 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19



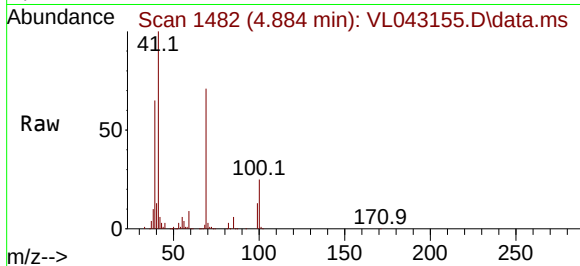
Tgt Ion: 83 Resp: 291618
Ion Ratio Lower Upper
83 100
85 63.4 50.6 75.8
127 8.1 6.3 9.5





#43
Methyl Methacrylate
Concen: 9.624 ppbv
RT: 4.884 min Scan# 1481
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

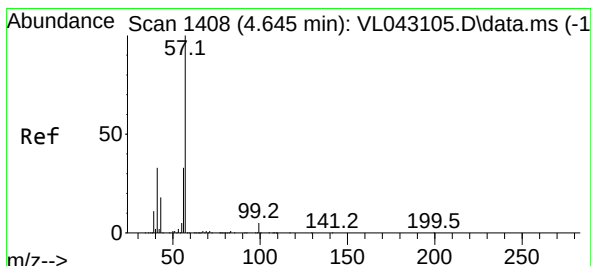
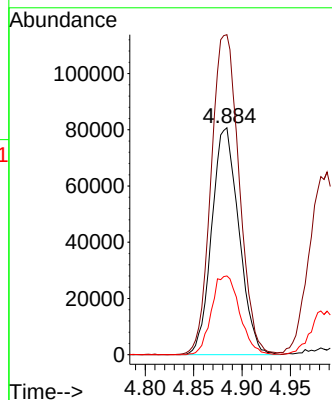
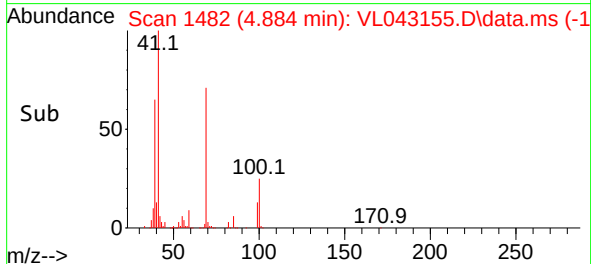
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 69 Resp: 157399
Ion Ratio Lower Upper
69 100
41 145.6 120.5 180.7
100 36.0 29.0 43.4

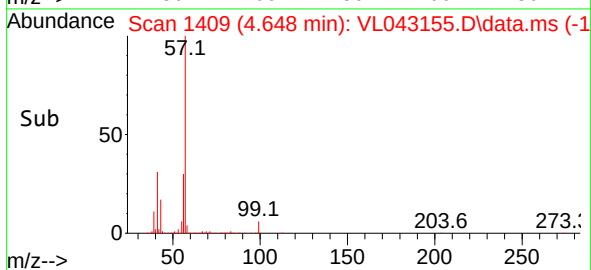
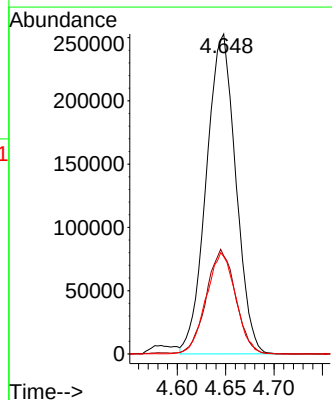
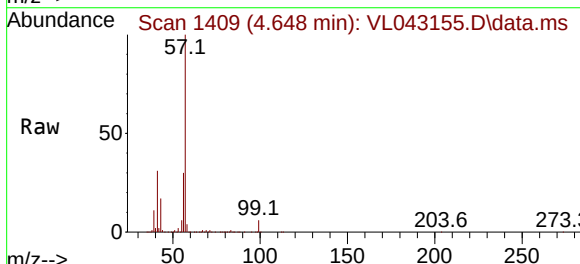
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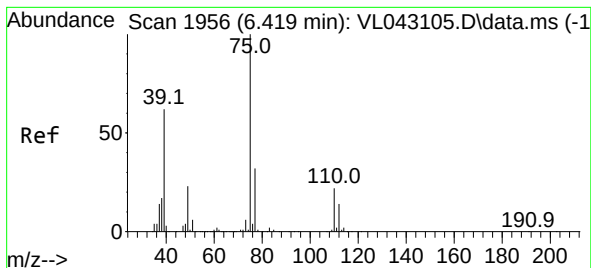
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#44
2,2,4-Trimethylpentane
Concen: 9.853 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 57 Resp: 535251
Ion Ratio Lower Upper
57 100
41 32.9 26.3 39.5
56 31.7 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 10.243 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 75 Resp: 16811

Ion Ratio Lower Upper

75 100

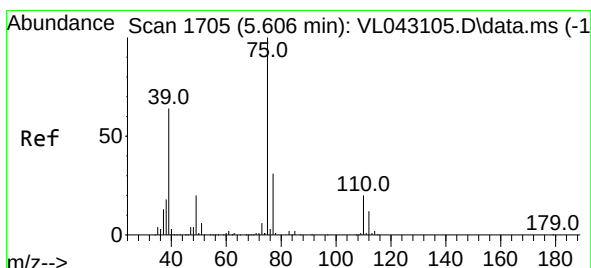
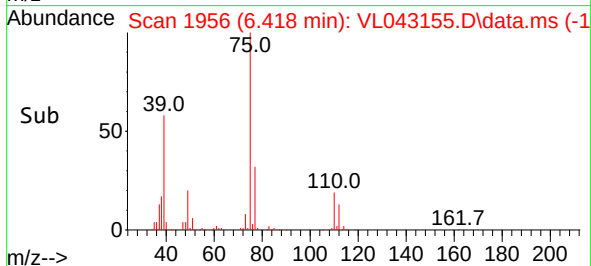
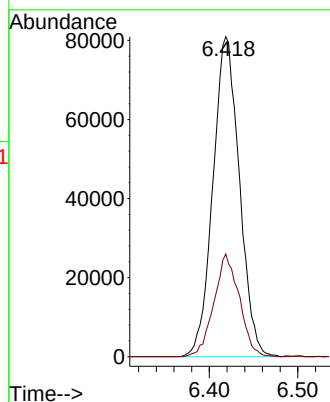
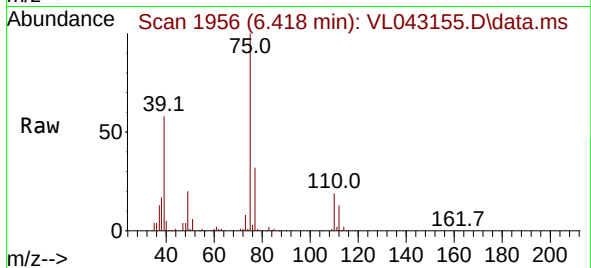
77 32.1 25.4 38.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#46

cis-1,3-Dichloropropene

Concen: 10.086 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

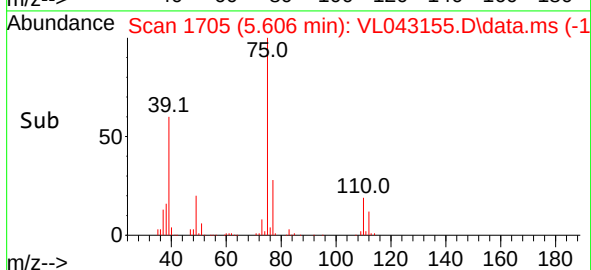
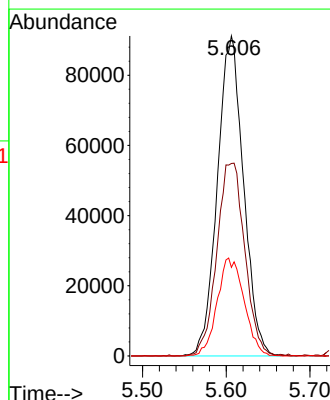
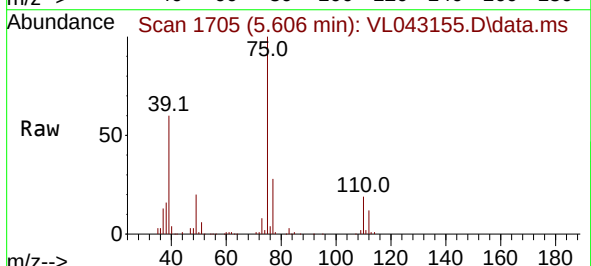
Tgt Ion: 75 Resp: 197738

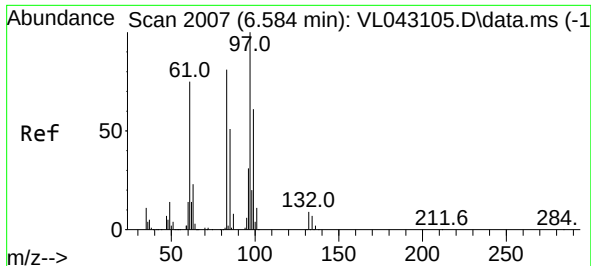
Ion Ratio Lower Upper

75 100

39 60.1 51.0 76.6

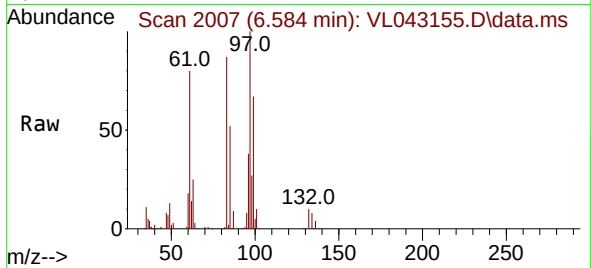
77 27.7 25.0 37.4





#47
1,1,2-Trichloroethane
Concen: 10.274 ppbv
RT: 6.584 min Scan# 2007
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

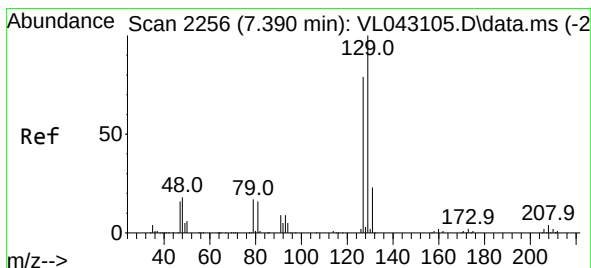
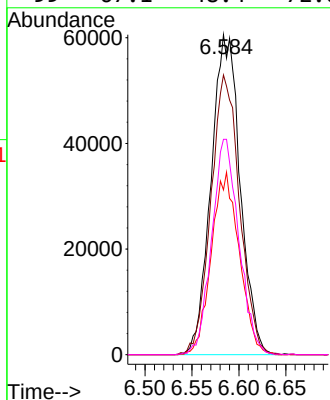
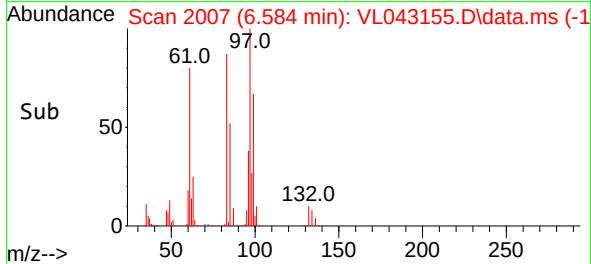
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.2	64.6	96.8
85	51.5	40.6	60.8
99	67.1	48.4	72.6

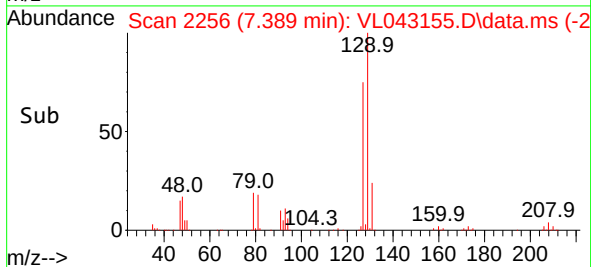
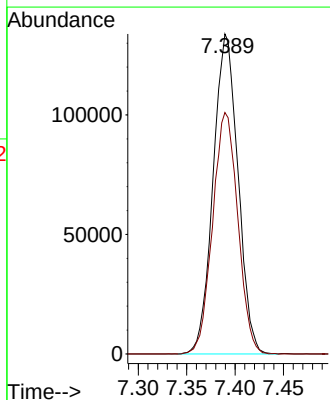
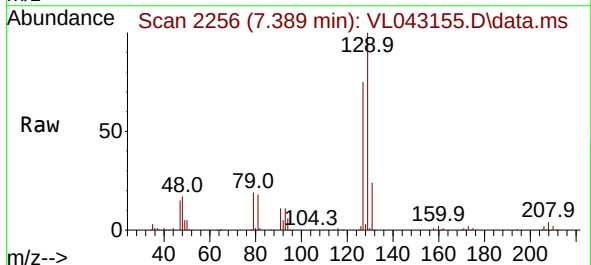
Manual Integrations
APPROVED

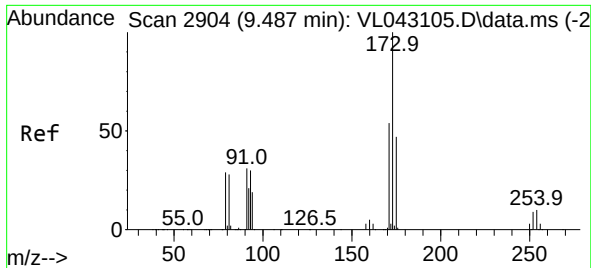
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#48
Dibromochloromethane
Concen: 11.241 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.6	39.3	117.9





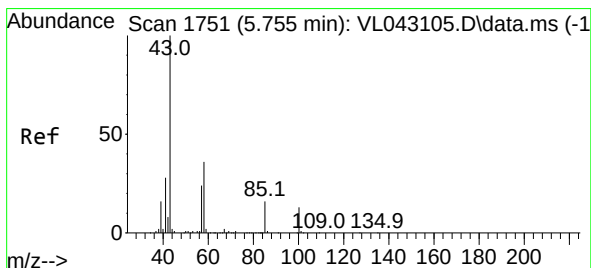
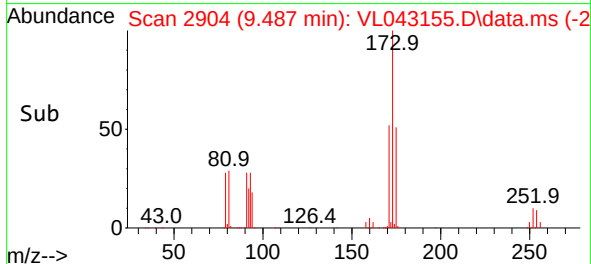
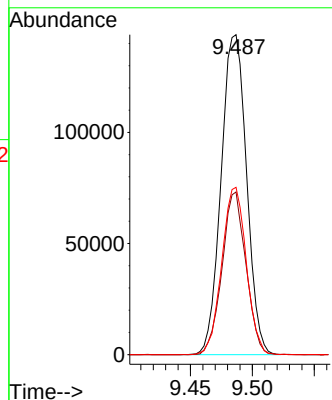
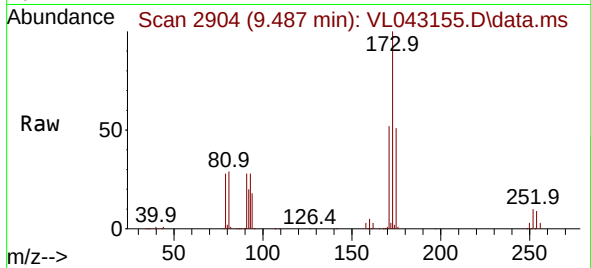
#49
Bromoform
Concen: 11.933 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 206162
Ion Ratio Lower Upper
173 100
175 47.7 38.8 58.2
171 50.3 41.7 62.5

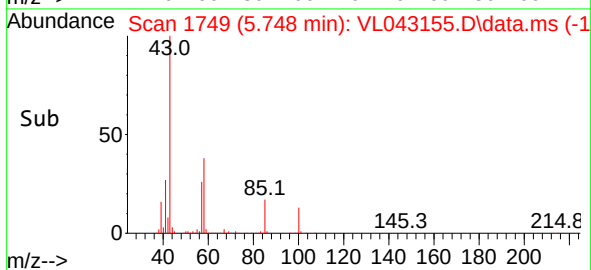
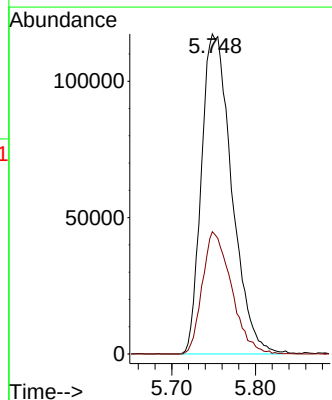
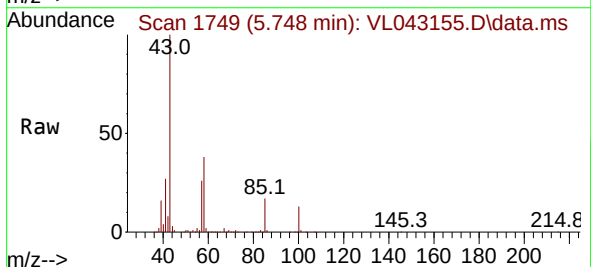
Manual Integrations
APPROVED

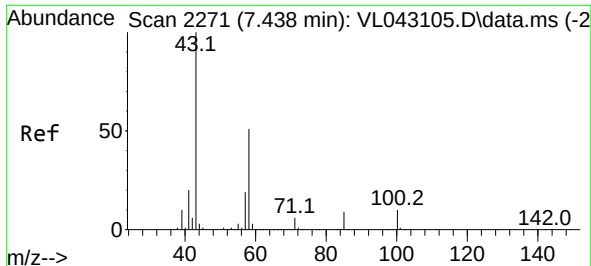
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#50
4-Methyl-2-Pentanone
Concen: 9.331 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.007 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 43 Resp: 295948
Ion Ratio Lower Upper
43 100
58 36.7 29.1 43.7





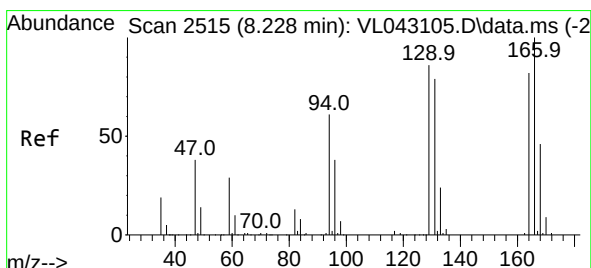
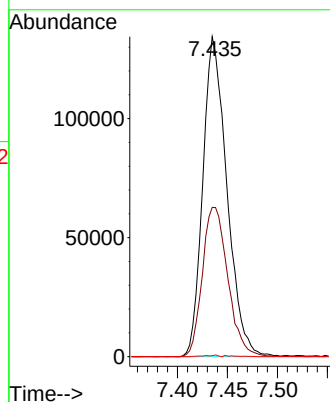
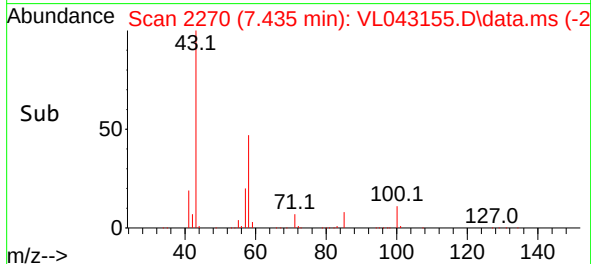
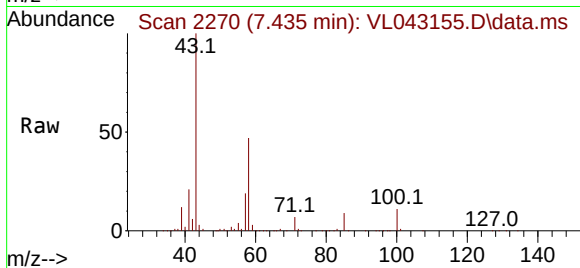
#51
2-Hexanone
Concen: 9.485 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 22562
Ion Ratio Lower Upper
43 100
58 49.4 40.4 60.6
98 0.5 0.1 0.1

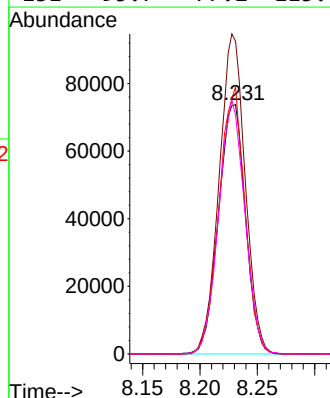
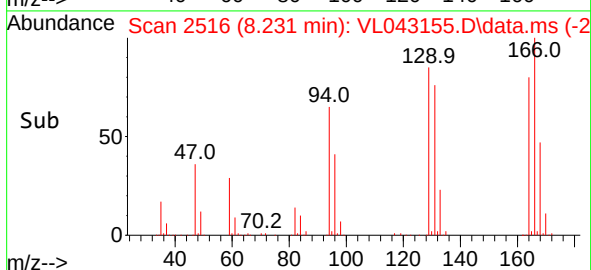
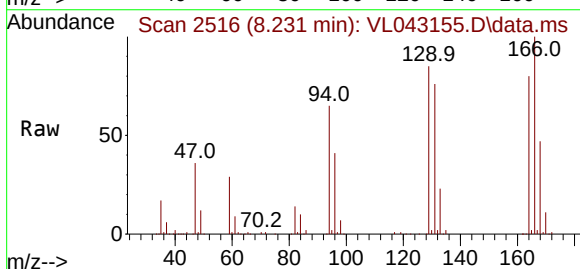
Manual Integrations
APPROVED

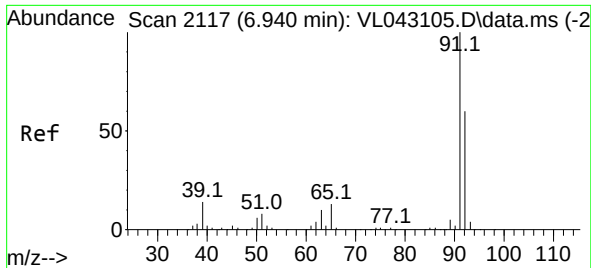
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#52
Tetrachloroethene
Concen: 10.396 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:164 Resp: 120713
Ion Ratio Lower Upper
164 100
166 125.4 97.6 146.4
129 107.1 84.5 126.7
131 95.7 77.2 115.8





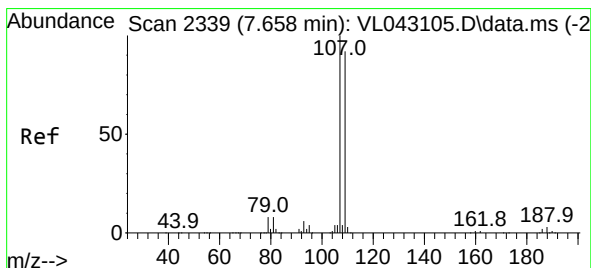
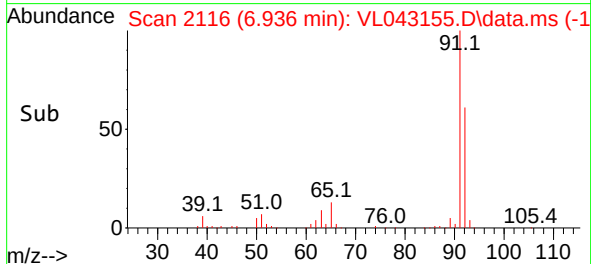
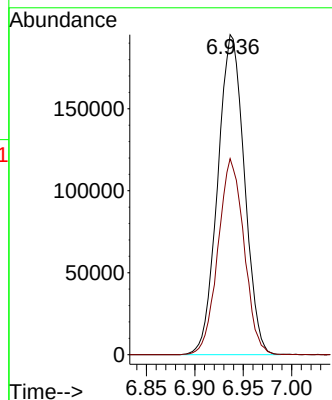
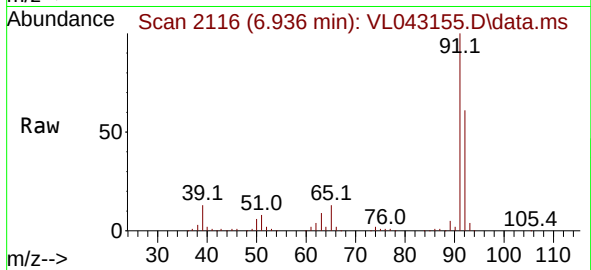
#53
Toluene
Concen: 9.805 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 374714
Ion Ratio Lower Upper
91 100
92 59.7 48.8 73.2

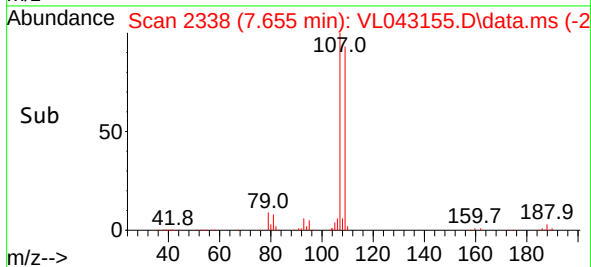
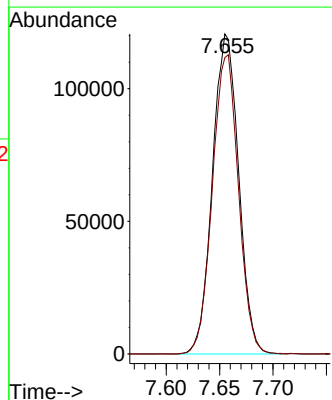
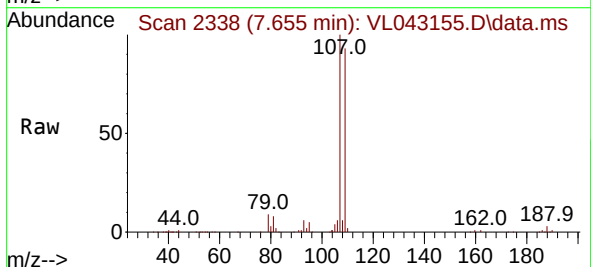
Manual Integrations
APPROVED

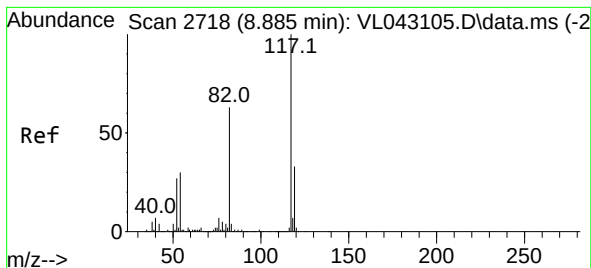
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#54
1,2-Dibromoethane
Concen: 10.330 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:107 Resp: 205679
Ion Ratio Lower Upper
107 100
109 92.4 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

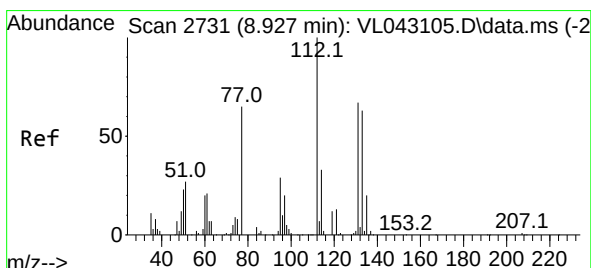
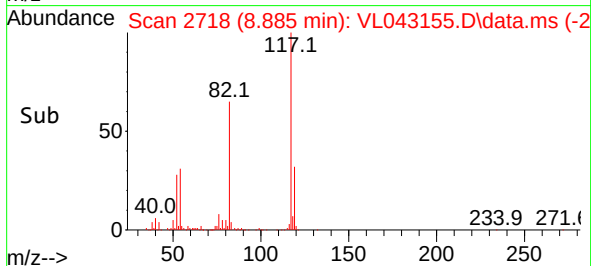
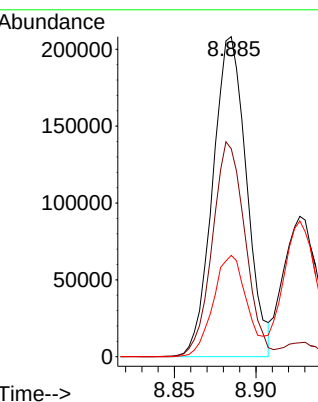
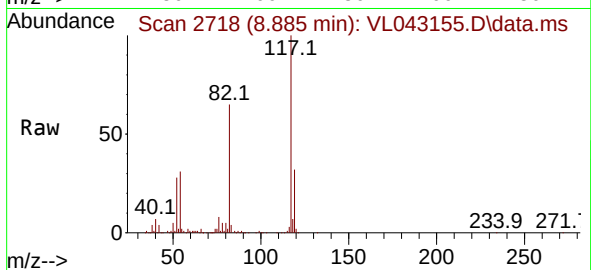
VSTDCCC010

Tgt Ion:	117	Resp:	299829
Ion Ratio	Lower	Upper	
117	100		
82	66.1	53.8	80.8
119	32.3	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 11.429 ppbv

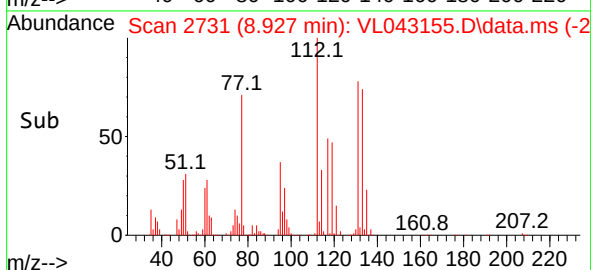
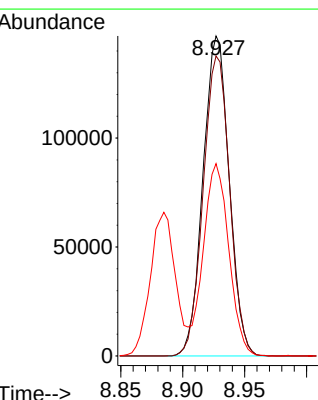
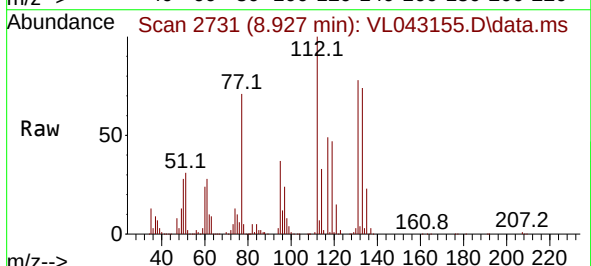
RT: 8.927 min Scan# 2731

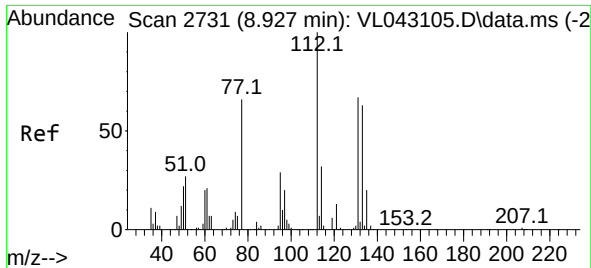
Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion:	131	Resp:	216010
Ion Ratio	Lower	Upper	
131	100		
133	95.1	75.7	113.5
119	58.8	50.6	76.0





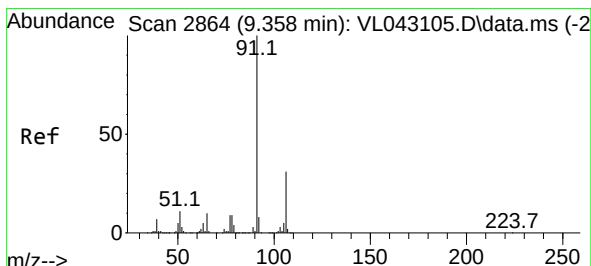
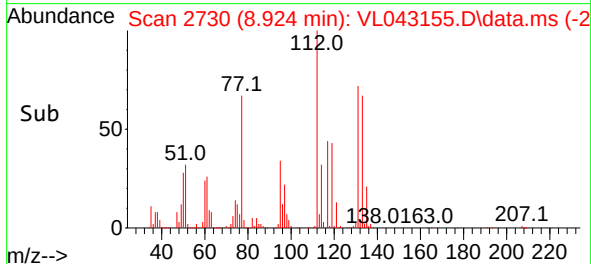
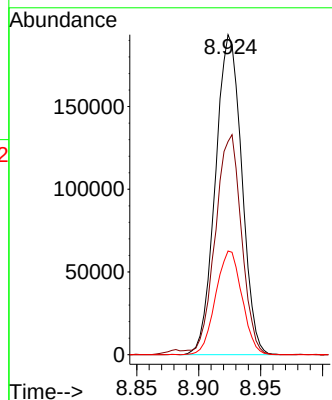
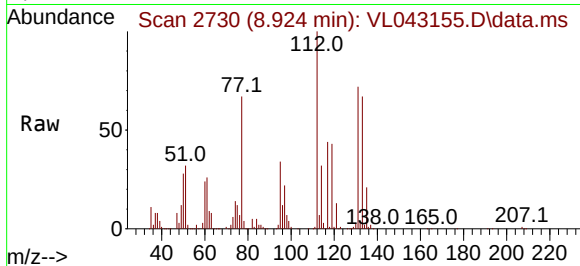
#57
Chlorobenzene
Concen: 10.228 ppbv
RT: 8.924 min Scan# 2731
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 286894
Ion Ratio Lower Upper
112 100
77 66.6 53.3 79.9
114 32.4 29.3 35.8

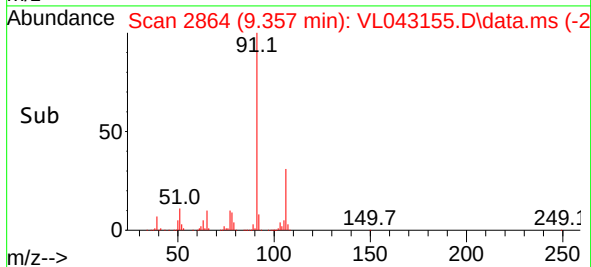
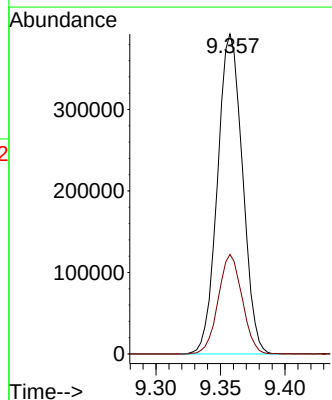
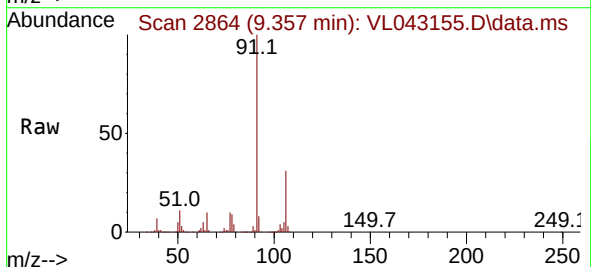
Manual Integrations
APPROVED

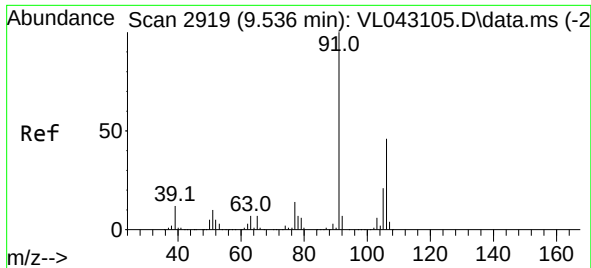
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#58
Ethyl Benzene
Concen: 10.261 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 527991
Ion Ratio Lower Upper
91 100
106 31.1 24.8 37.2





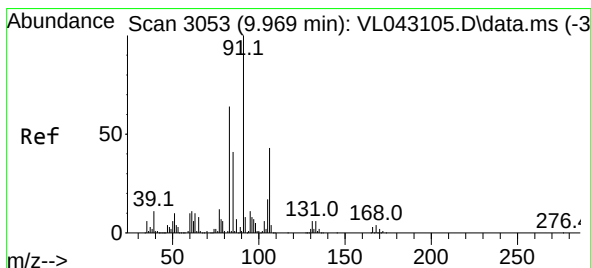
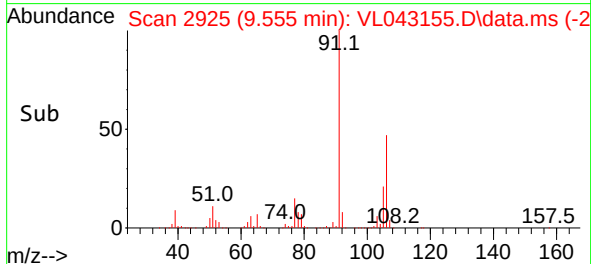
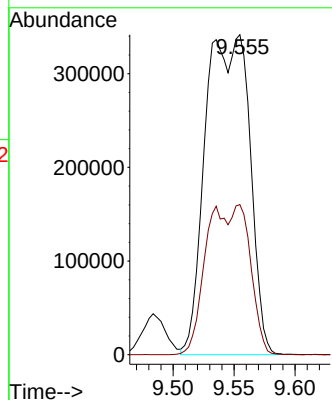
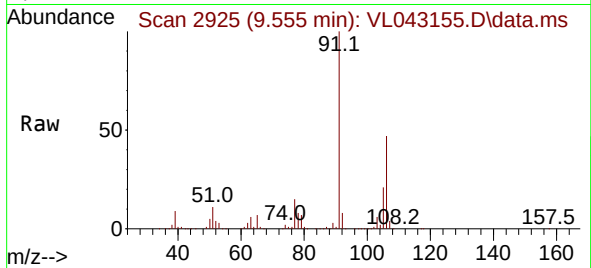
#59
m/p-Xylene
Concen: 21.062 ppbv m
RT: 9.555 min Scan# 2919
Delta R.T. 0.019 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 864452
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

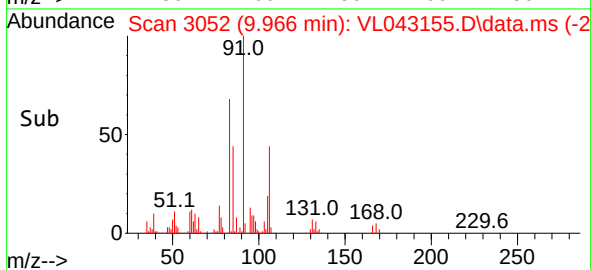
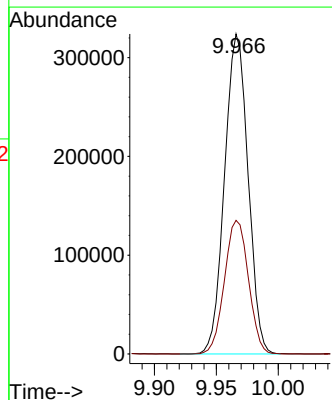
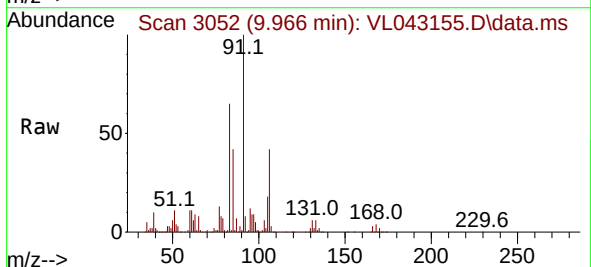
Manual Integrations
APPROVED

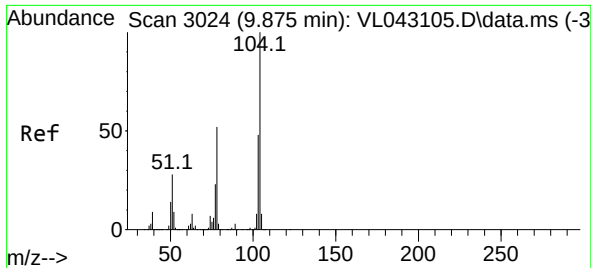
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#60
o-Xylene
Concen: 10.565 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 428248
Ion Ratio Lower Upper
91 100
106 42.7 21.9 65.8





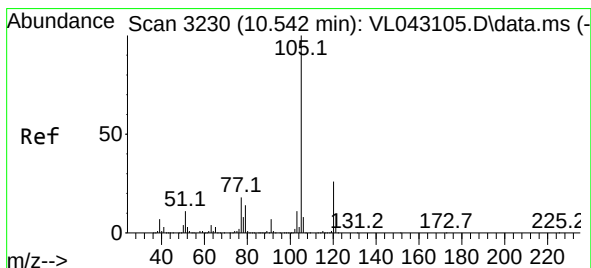
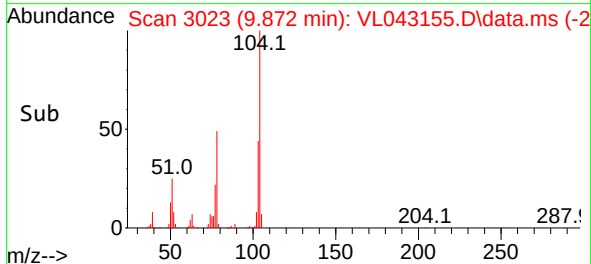
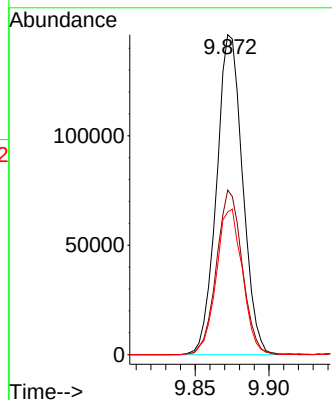
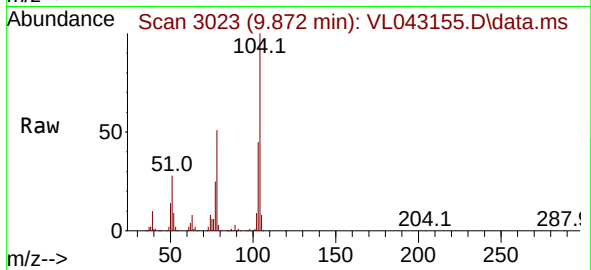
#61
Styrene
Concen: 9.839 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion:104 Resp: 180052
Ion Ratio Lower Upper
104 100
78 50.9 40.2 60.2
103 45.9 36.9 55.3

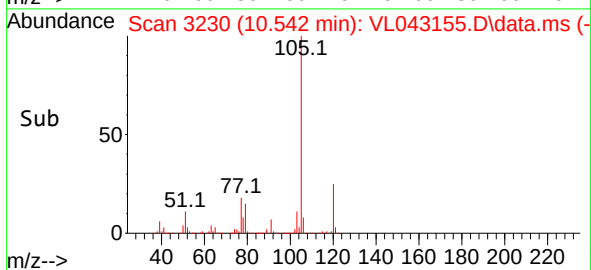
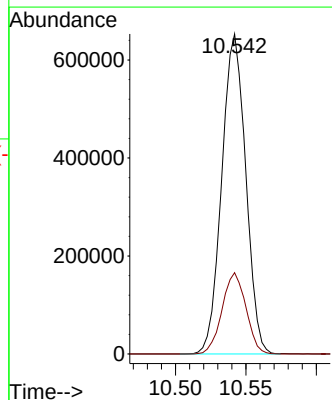
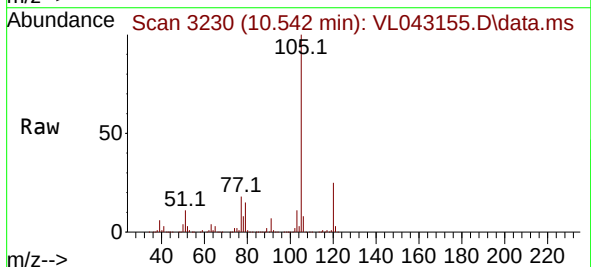
Manual Integrations
APPROVED

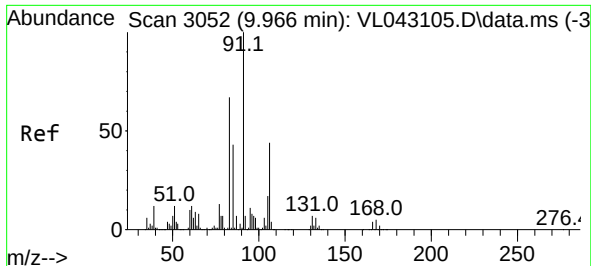
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#62
Isopropylbenzene
Concen: 10.564 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 773742
Ion Ratio Lower Upper
105 100
120 25.2 20.2 30.4





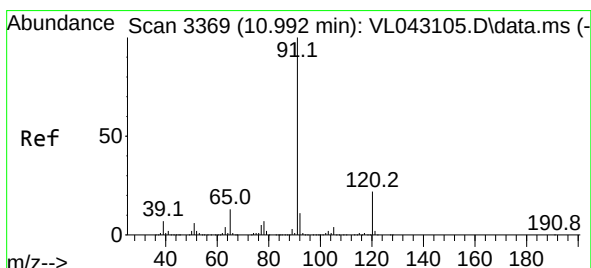
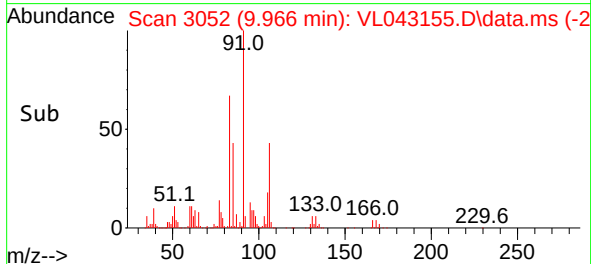
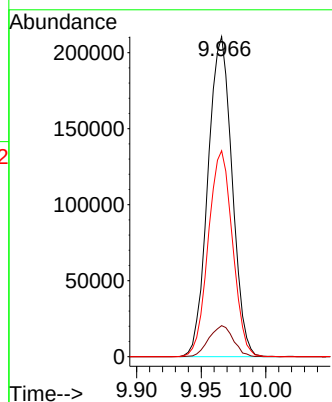
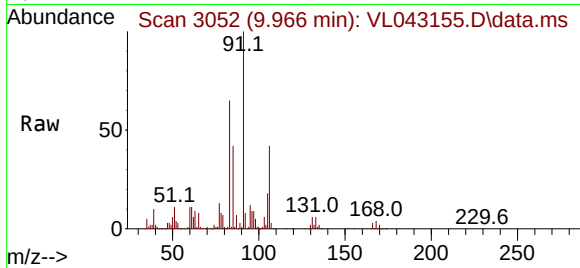
#63
1,1,2,2-Tetrachloroethane
Concen: 10.089 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion: 83 Resp: 27383
Ion Ratio Lower Upper
83 100
131 9.8 4.8 14.3
85 64.6 32.0 96.0

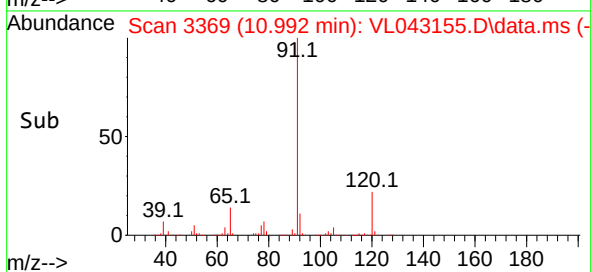
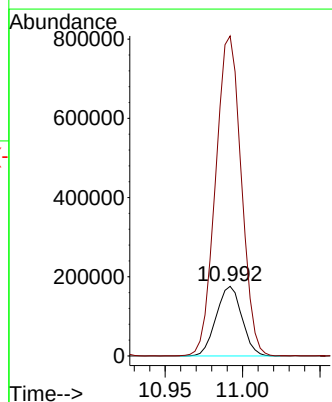
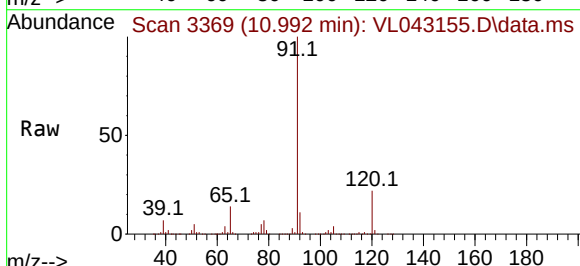
Manual Integrations
APPROVED

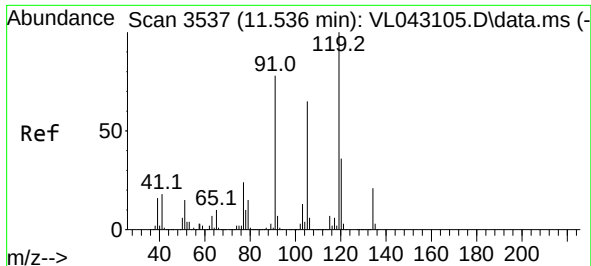
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#64
n-propylbenzene
Concen: 10.438 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:120 Resp: 202414
Ion Ratio Lower Upper
120 100
91 462.2 361.6 542.4





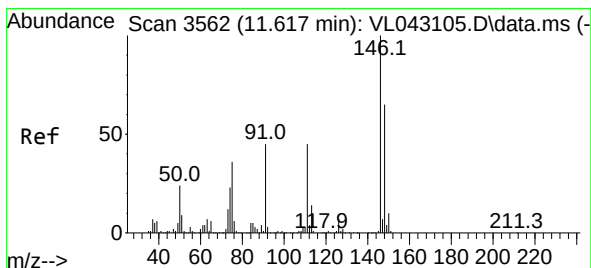
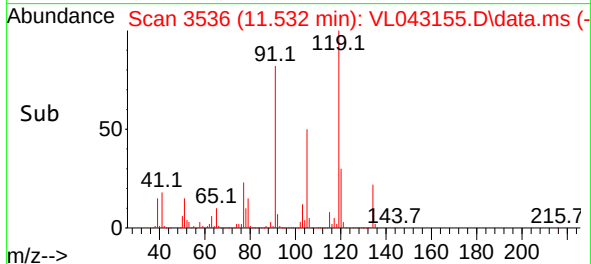
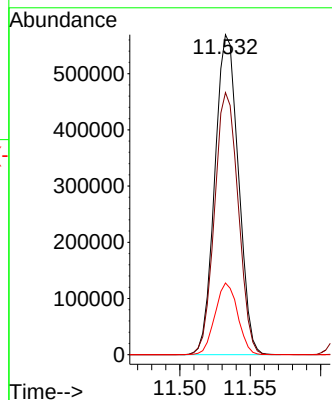
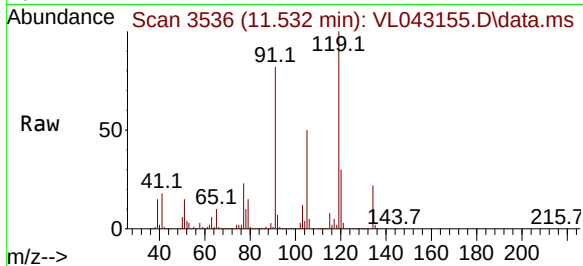
#65
tert-Butylbenzene
Concen: 10.266 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 664024
Ion Ratio Lower Upper
119 100
91 82.1 63.4 95.0
134 21.5 17.3 25.9

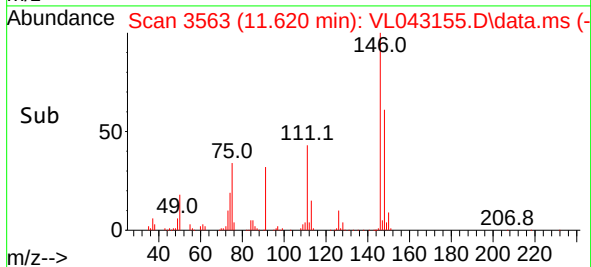
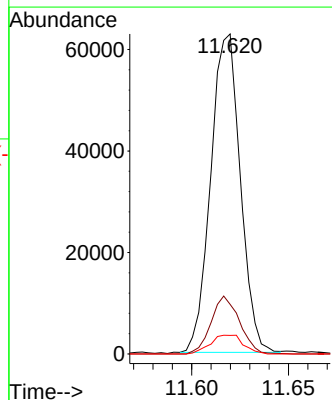
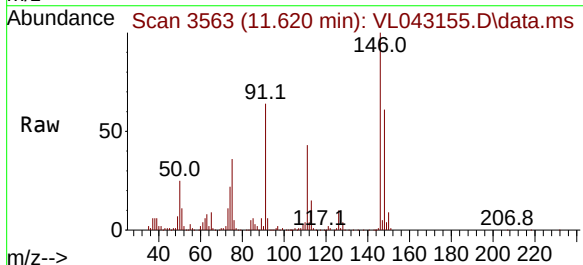
Manual Integrations
APPROVED

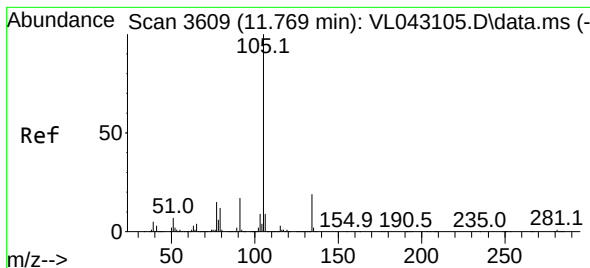
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#66
Benzyl Chloride
Concen: 9.258 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

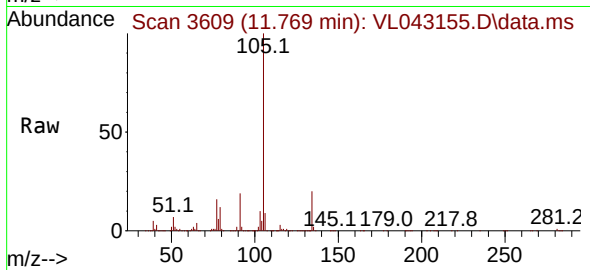
Tgt Ion: 91 Resp: 66651
Ion Ratio Lower Upper
91 100
126 17.5 14.6 22.0
128 6.6 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 10.327 ppbv
 RT: 11.769 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

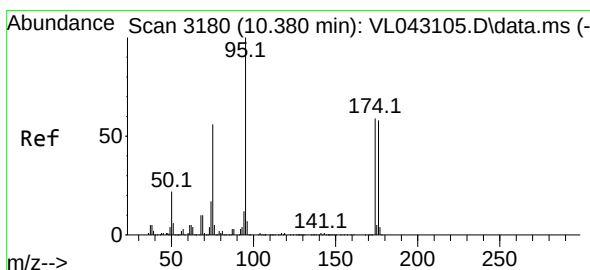
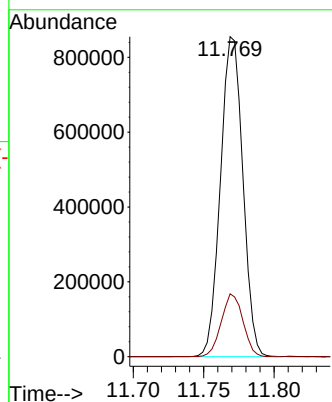
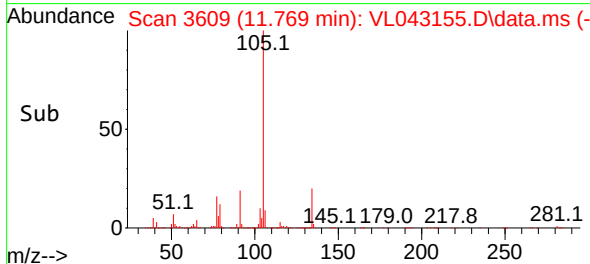
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:105 Resp: 94802
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.5 23.3

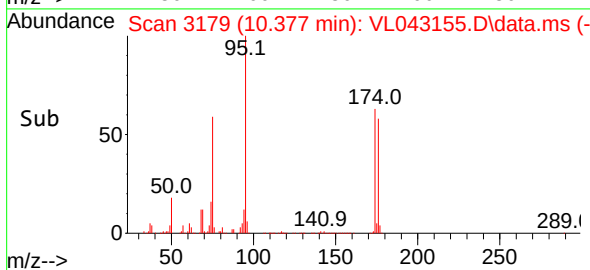
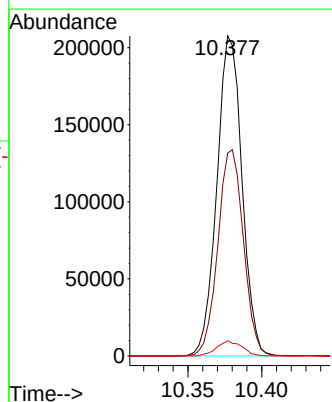
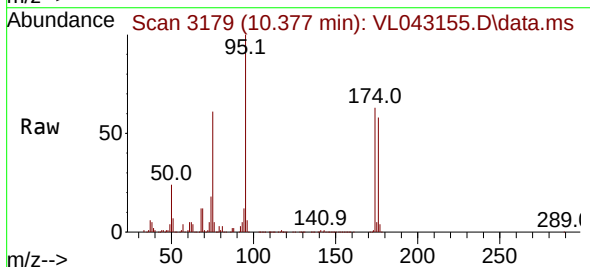
Manual Integrations APPROVED

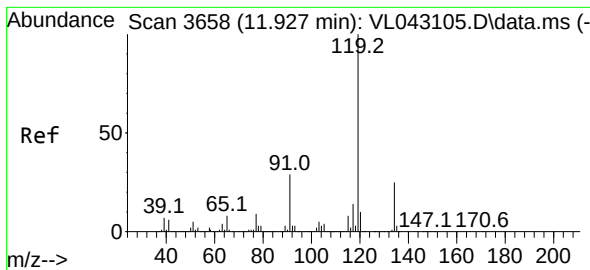
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.570 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion: 95 Resp: 246332
 Ion Ratio Lower Upper
 95 100
 174 65.5 48.3 72.5
 175 4.8 3.8 5.8





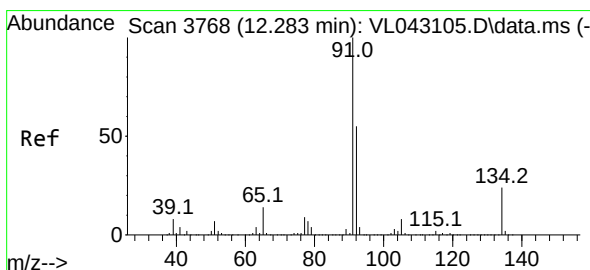
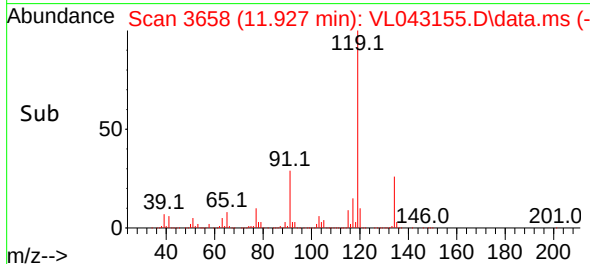
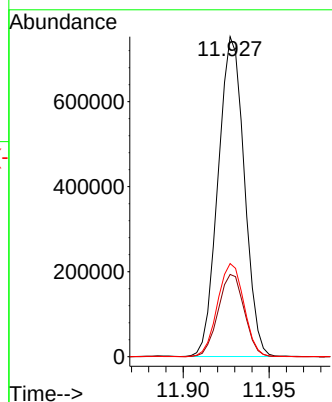
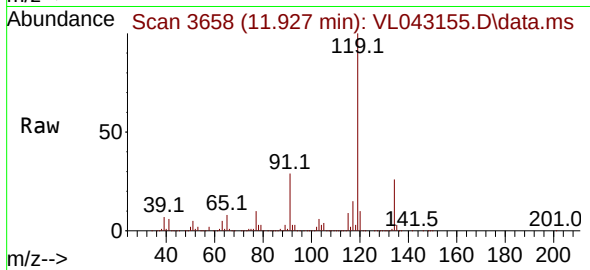
#69
p-Isopropyltoluene
Concen: 10.237 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 798570
Ion Ratio Lower Upper
119 100
134 25.8 20.3 30.5
91 29.5 22.6 33.8

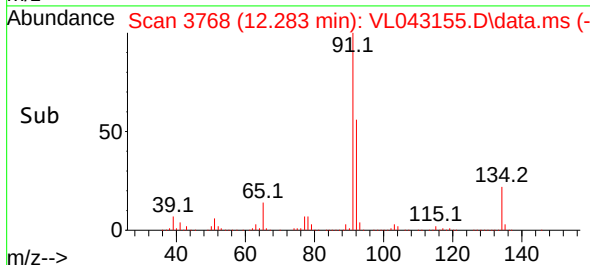
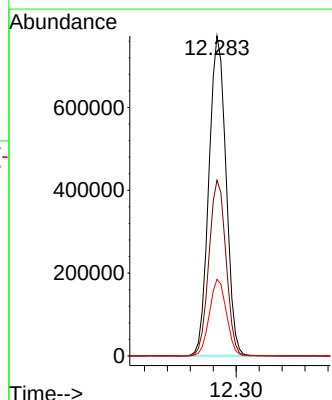
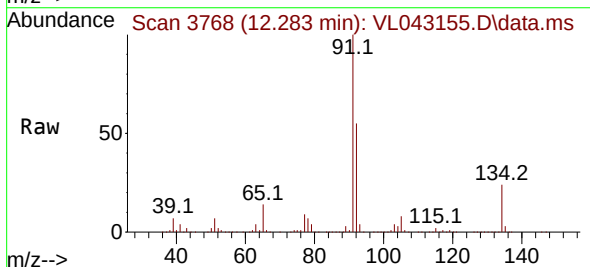
Manual Integrations
APPROVED

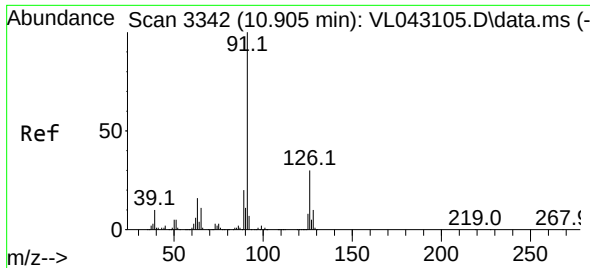
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#70
n-Butylbenzene
Concen: 10.410 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 800217
Ion Ratio Lower Upper
91 100
92 54.6 44.5 66.7
134 23.8 19.3 28.9





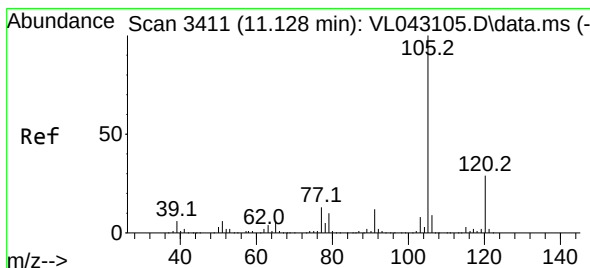
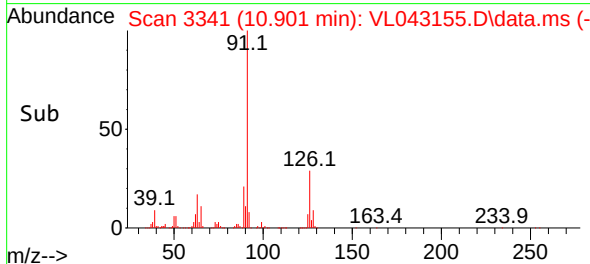
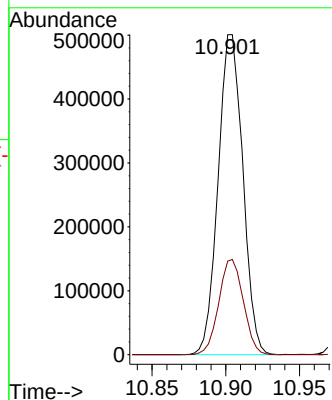
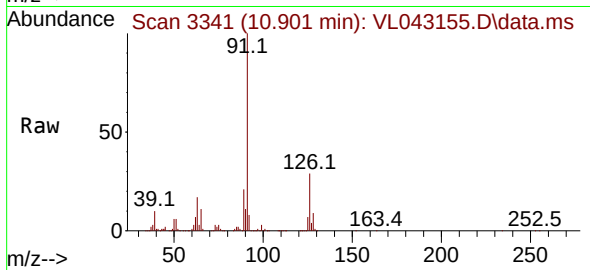
#71
2-Chlorotoluene
Concen: 10.461 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 58442
Ion Ratio Lower Upper
91 100
126 29.5 12.0 48.0

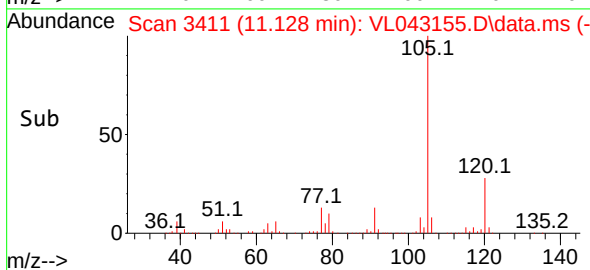
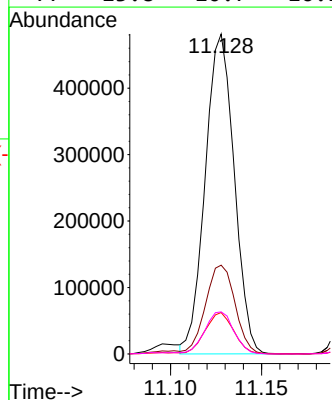
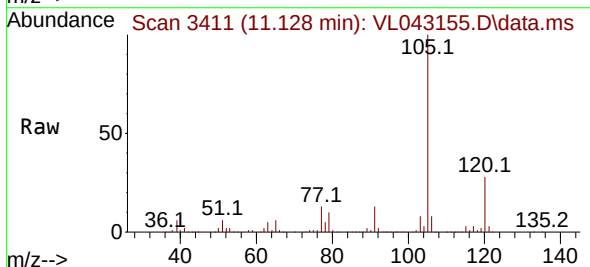
Manual Integrations
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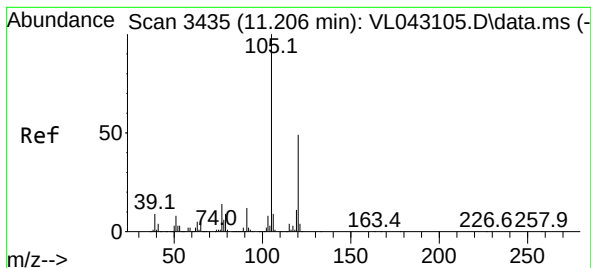
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#72
4-Ethyltoluene
Concen: 10.693 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 532971
Ion Ratio Lower Upper
105 100
120 29.3 24.2 36.4
91 13.3 10.0 15.0
77 13.8 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 10.671 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 43865

Ion Ratio Lower Upper

105 100

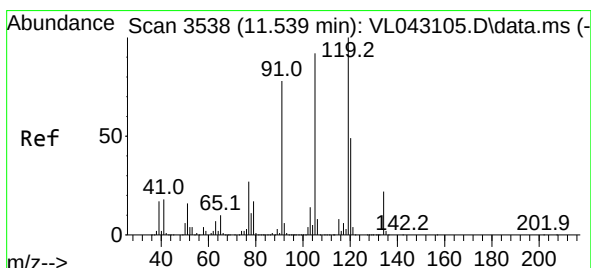
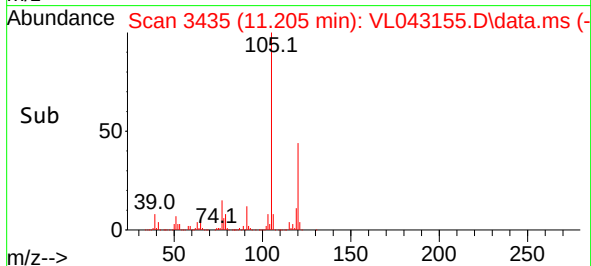
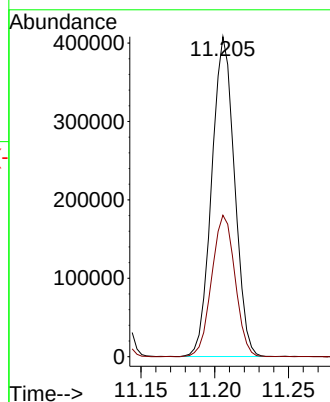
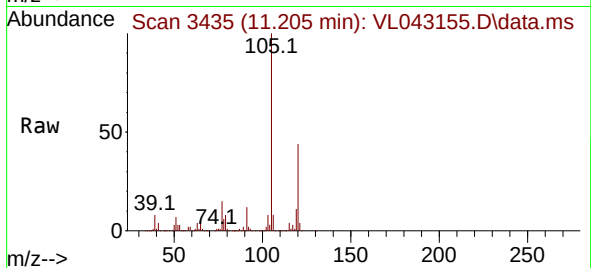
120 44.2 39.0 58.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.419 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 479281

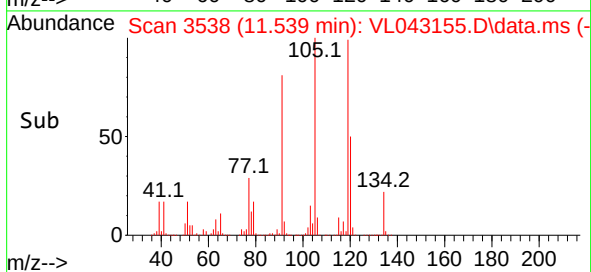
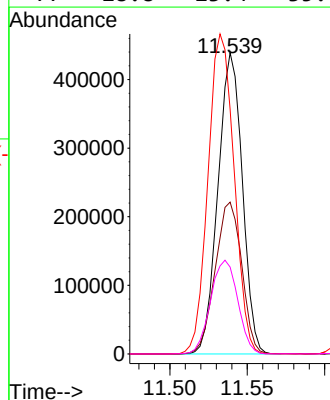
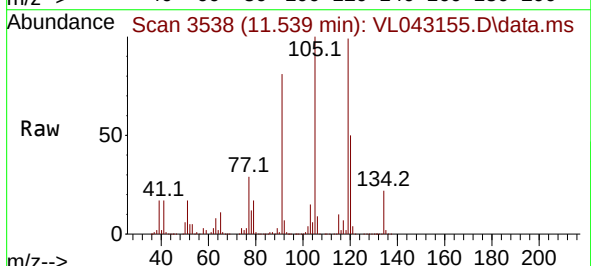
Ion Ratio Lower Upper

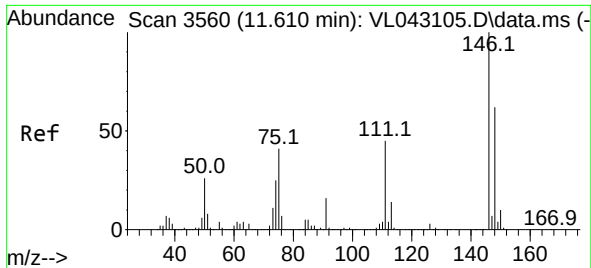
105 100

120 50.4 42.8 64.2

91 81.1 68.3 102.5

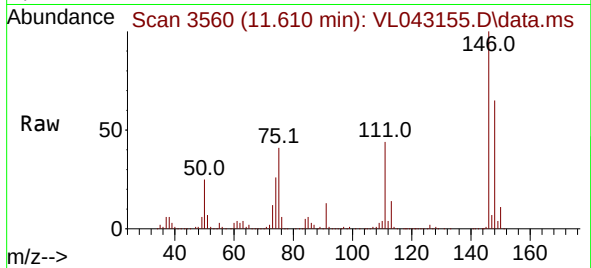
77 28.8 23.4 35.0





#75
1,3-Dichlorobenzene
Concen: 10.943 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

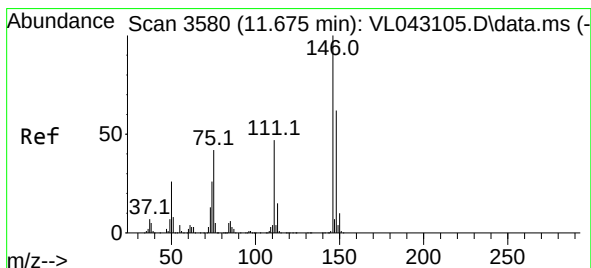
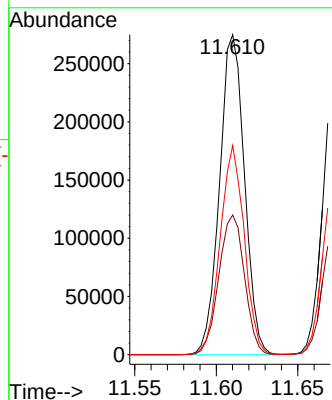
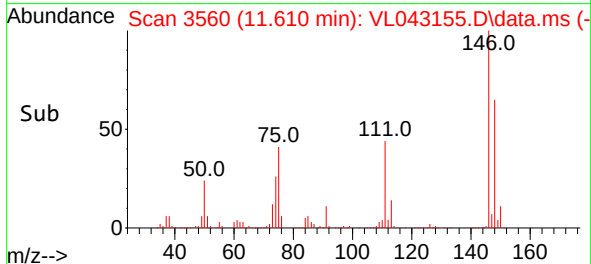
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion:146 Resp: 291949
Ion Ratio Lower Upper
146 100
111 45.0 23.3 69.9
148 63.2 31.6 95.0

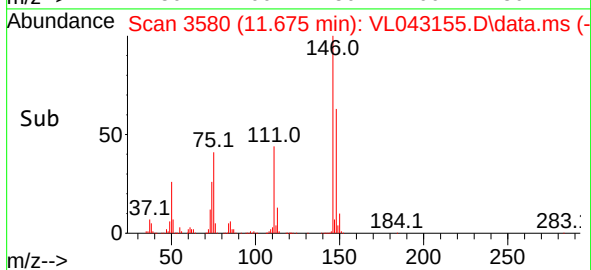
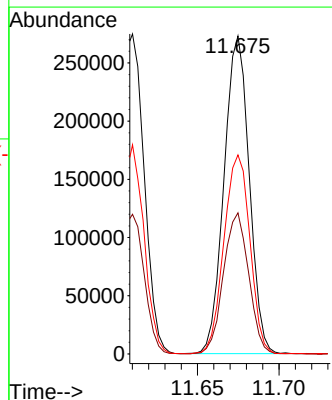
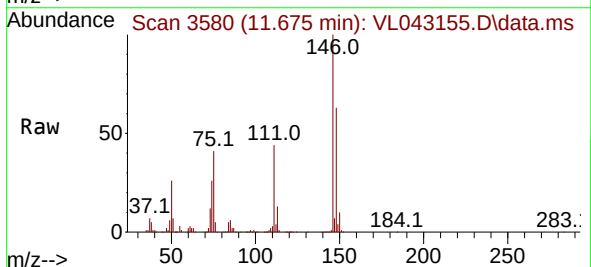
Manual Integrations
APPROVED

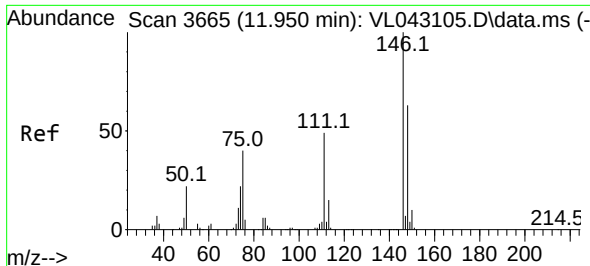
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#76
1,4-Dichlorobenzene
Concen: 10.872 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

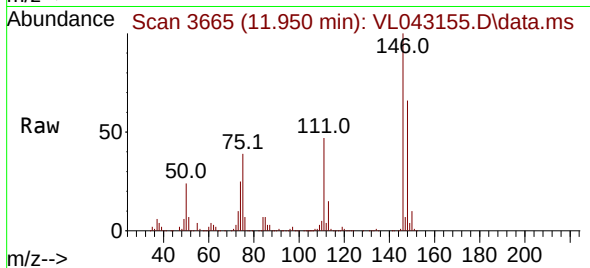
Tgt Ion:146 Resp: 292491
Ion Ratio Lower Upper
146 100
111 44.8 22.4 67.0
148 64.9 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 10.670 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

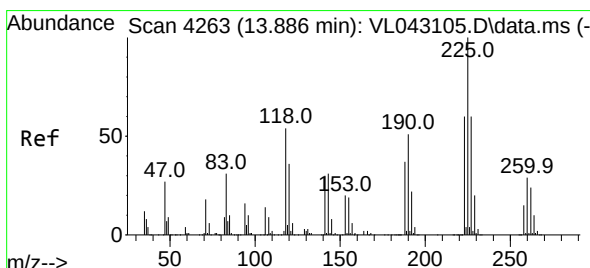
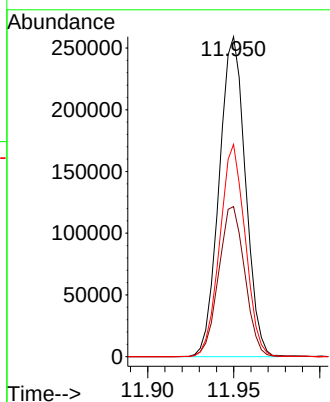
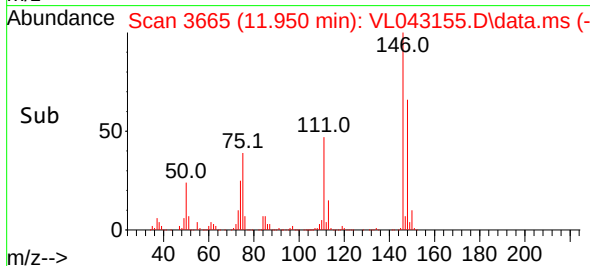
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



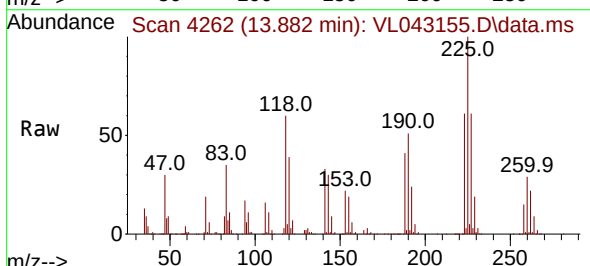
Tgt Ion:146 Resp: 27540
Ion Ratio Lower Upper
146 100
111 46.9 24.0 72.0
148 64.3 31.1 93.3

Manual Integrations
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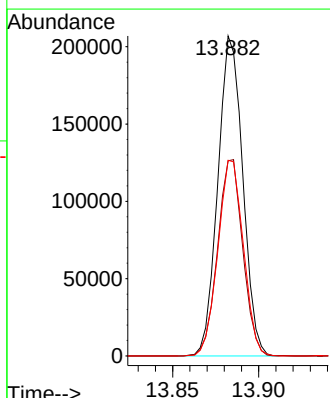
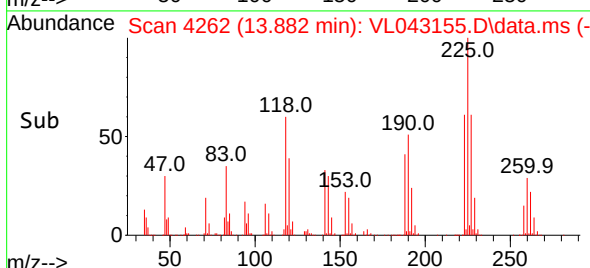
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

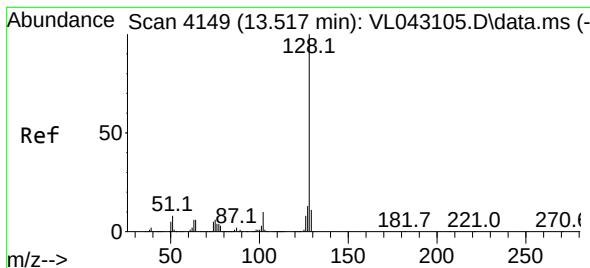


#78
Hexachloro-1,3-Butadiene
Concen: 10.417 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19



Tgt Ion:225 Resp: 208179
Ion Ratio Lower Upper
225 100
223 62.2 50.2 75.4
227 62.5 49.6 74.4





#79

Naphthalene

Concen: 10.113 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

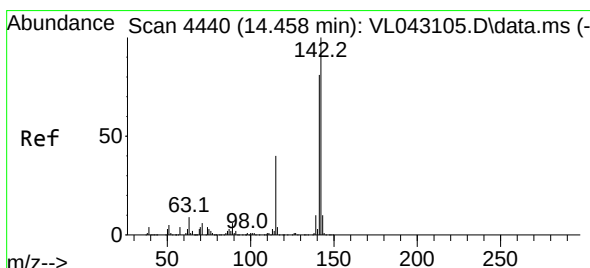
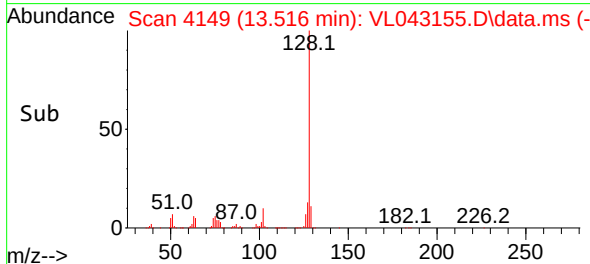
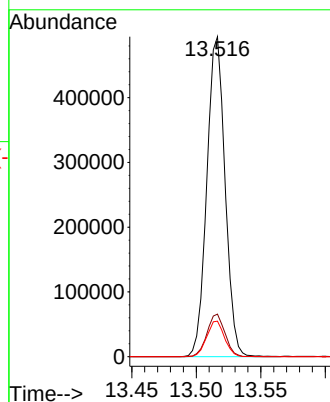
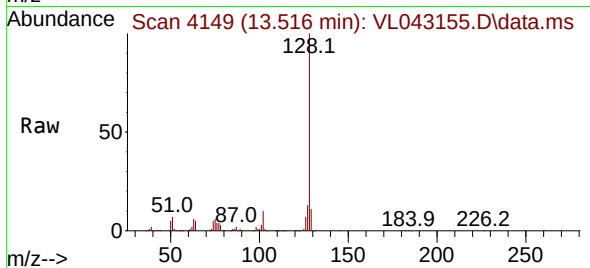
Tgt Ion:128 Resp: 486229

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	11.1	9.1	13.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#80

Naphthalene,2-methyl-

Concen: 10.942 ppbv

RT: 14.462 min Scan# 4441

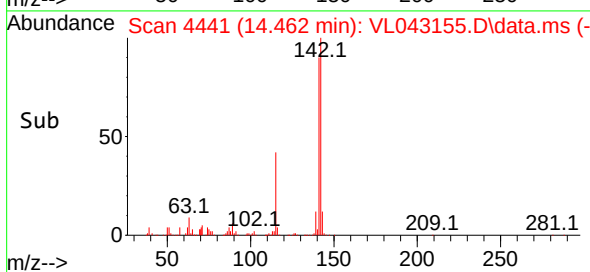
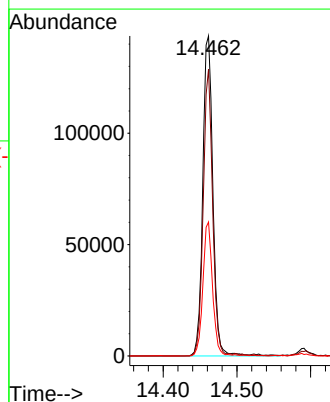
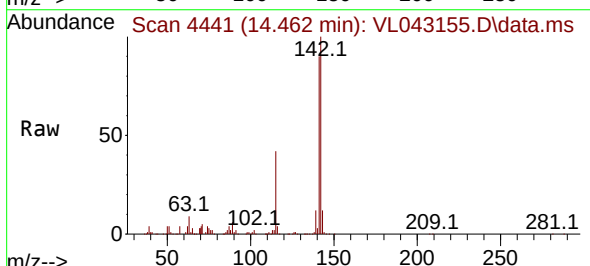
Delta R.T. 0.003 min

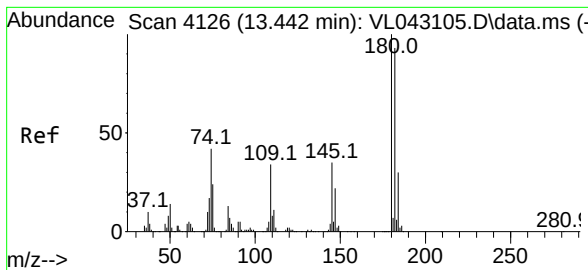
Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion:142 Resp: 137059

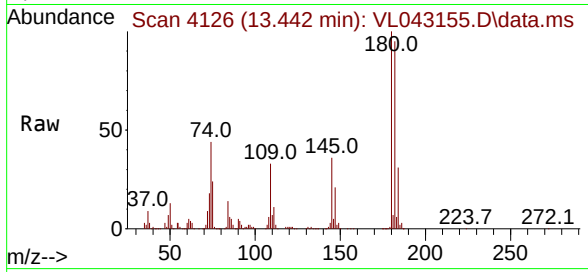
Ion	Ratio	Lower	Upper
142	100		
141	83.9	64.6	97.0
115	40.3	30.2	45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.750 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

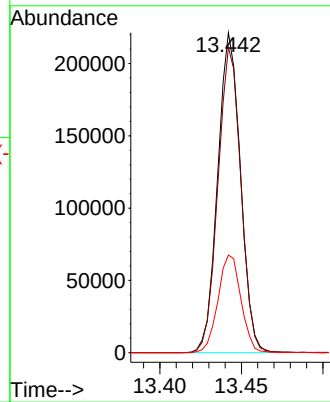
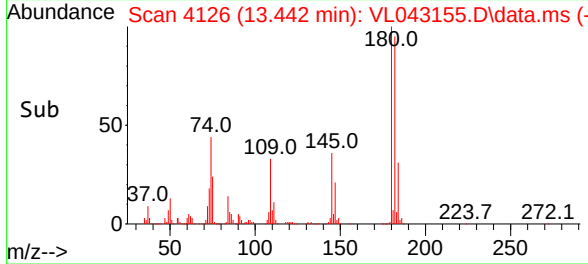
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 21452
 Ion Ratio Lower Upper
 180 100
 182 96.4 75.5 113.3
 184 30.9 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	107	0.00
2 T	Dichlorodifluoromethane	1.422	1.540	-8.3	129	0.00
3	Chlorodifluoromethane	1.538	1.555	-1.1	115	0.00
4	Chloromethane	0.563	0.511	9.2	110	0.00
5 T	Vinyl Chloride	0.552	0.514	6.9	115	0.00
6 T	Bromomethane	0.303	0.317	-4.6	131	0.00
7	Chloroethane	0.226	0.206	8.8	115	0.00
8 T	Dichlorotetrafluoroethane	1.149	1.236	-7.6	128	0.00
9 T	Propene	0.682	0.571	16.3	94	0.00
10 T	Heptane	1.964	1.685	14.2	100	0.00
11 T	Trichlorofluoromethane	1.391	1.658	-19.2	143	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.120	1.290	-15.2	142	0.00
13	Ethanol	0.252	0.186	26.2	104	0.00
14 T	Bromoethene	0.416	0.447	-7.5	130	0.00
15 T	Acetone	1.348	1.223	9.3	120	0.00
16 T	1,3-Butadiene	0.642	0.564	12.1	110	0.00
17	tert-Butyl alcohol	1.850	1.830	1.1	116	0.00
18 T	1,1-Dichloroethene	0.488	0.538	-10.2	132	0.00
19 T	Isopropyl Alcohol	0.839	0.733	12.6	109	0.00
20 T	Methylene Chloride	0.533	0.467	12.4	124	0.00
21 T	Allyl Chloride	0.993	0.925	6.8	109	0.00
22 T	trans-1,2-Dichloroethene	0.583	0.623	-6.9	131	0.00
23 T	Vinyl Acetate	1.974	2.118	-7.3	140	0.00
24 T	1,1-Dichloroethane	1.127	1.188	-5.4	124	0.00
25 T	Ethyl Acetate	3.342	3.159	5.5	108	0.00
26 T	Hexane	1.540	1.464	4.9	112	0.00
27 T	Carbon Disulfide	1.411	1.508	-6.9	123	0.00
28 T	Methyl tert-Butyl Ether	0.701	0.712	-1.6	130	0.00
29 T	Chloroform	2.232	2.437	-9.2	129	0.00
30 T	Cyclohexane	1.344	1.256	6.5	111	0.00
31 T	cis-1,2-Dichloroethene	1.471	1.509	-2.6	115	0.00
32 T	1,1,1-Trichloroethane	2.324	2.520	-8.4	127	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
34 T	2-Butanone	0.672	0.688	-2.4	114	0.00
35 T	Carbon Tetrachloride	0.719	0.852	-18.5	131	0.00
36 T	Benzene	0.942	0.956	-1.5	110	0.00
37 T	1,2-Dichloroethane	0.543	0.624	-14.9	129	0.00
38 T	Trichloroethene	0.393	0.379	3.6	111	0.00
39 T	1,2-Dichloropropane	0.344	0.343	0.3	108	0.00
40 T	1,4-Dioxane	0.154	0.148	3.9	105	0.00
41 T	Tetrahydrofuran	0.376	0.348	7.4	102	0.00
42 T	Bromodichloromethane	0.751	0.853	-13.6	122	0.00
43	Methyl Methacrylate	0.478	0.460	3.8	102	0.00
44 T	2,2,4-Trimethylpentane	1.589	1.566	1.4	107	0.00
45 T	t-1,3-Dichloropropene	0.480	0.492	-2.5	106	0.00
46 T	cis-1,3-Dichloropropene	0.573	0.578	-0.9	106	0.00
47 T	1,1,2-Trichloroethane	0.372	0.382	-2.7	113	0.00
48 T	Dibromochloromethane	0.622	0.699	-12.4	119	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	0.505	0.603	-19.4	124	0.00
50 T	4-Methyl-2-Pentanone	0.928	0.866	6.7	99	0.00
51 T	2-Hexanone	0.696	0.660	5.2	95	0.00
52 T	Tetrachloroethene	0.340	0.353	-3.8	113	0.00
53 T	Toluene	1.118	1.096	2.0	106	0.00
54 T	1,2-Dibromoethane	0.582	0.602	-3.4	113	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.630	0.720	-14.3	118	0.00
57 T	Chlorobenzene	0.936	0.957	-2.2	109	0.00
58 T	Ethyl Benzene	1.716	1.761	-2.6	107	0.00
59 T	m/p-Xylene	1.369	1.442	-5.3	113	0.02
60 T	o-Xylene	1.352	1.428	-5.6	113	0.00
61 T	Styrene	0.610	0.601	1.5	101	0.00
62	Isopropylbenzene	2.443	2.581	-5.6	112	0.00
63 T	1,1,2,2-Tetrachloroethane	0.905	0.913	-0.9	114	0.00
64	n-propylbenzene	0.647	0.675	-4.3	111	0.00
65	tert-Butylbenzene	2.157	2.215	-2.7	113	0.00
66 T	Benzyl Chloride	0.240	0.222	7.5	89	0.00
67	sec-Butylbenzene	3.062	3.162	-3.3	114	0.00
68 S	1-Bromo-4-Fluorobenzene	0.777	0.822	-5.8	102	0.00
69	p-Isopropyltoluene	2.602	2.663	-2.3	111	0.00
70	n-Butylbenzene	2.564	2.669	-4.1	111	0.00
71	2-Chlorotoluene	1.863	1.949	-4.6	111	0.00
72 T	4-Ethyltoluene	1.662	1.778	-7.0	113	0.00
73 T	1,3,5-Trimethylbenzene	1.371	1.463	-6.7	113	0.00
74 T	1,2,4-Trimethylbenzene	1.534	1.599	-4.2	116	0.00
75 T	1,3-Dichlorobenzene	0.890	0.974	-9.4	115	0.00
76 T	1,4-Dichlorobenzene	0.897	0.976	-8.8	115	0.00
77 T	1,2-Dichlorobenzene	0.861	0.919	-6.7	116	0.00
78 T	Hexachloro-1,3-Butadiene	0.667	0.694	-4.0	121	0.00
79 T	Naphthalene	1.604	1.622	-1.1	100	0.00
80 T	Naphthalene,2-methyl-	0.418	0.457	-9.3	93	0.00
81 T	1,2,4-Trichlorobenzene	0.666	0.715	-7.4	109	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	107	0.00
2 T	Dichlorodifluoromethane	10.000	10.832	-8.3	129	0.00
3	Chlorodifluoromethane	10.000	10.109	-1.1	115	0.00
4	Chloromethane	10.000	9.075	9.3	110	0.00
5 T	Vinyl Chloride	10.000	9.304	7.0	115	0.00
6 T	Bromomethane	10.000	10.482	-4.8	131	0.00
7	Chloroethane	10.000	9.123	8.8	115	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.753	-7.5	128	0.00
9 T	Propene	10.000	8.370	16.3	94	0.00
10 T	Heptane	10.000	8.579	14.2	100	0.00
11 T	Trichlorofluoromethane	10.000	11.925	-19.3	143	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	11.519	-15.2	142	0.00
13	Ethanol	10.000	7.389	26.1	104	0.00
14 T	Bromoethene	10.000	10.750	-7.5	130	0.00
15 T	Acetone	10.000	9.072	9.3	120	0.00
16 T	1,3-Butadiene	10.000	8.785	12.1	110	0.00
17	tert-Butyl alcohol	10.000	9.889	1.1	116	0.00
18 T	1,1-Dichloroethene	10.000	11.030	-10.3	132	0.00
19 T	Isopropyl Alcohol	10.000	8.736	12.6	109	0.00
20 T	Methylene Chloride	10.000	8.774	12.3	124	0.00
21 T	Allyl Chloride	10.000	9.309	6.9	109	0.00
22 T	trans-1,2-Dichloroethene	10.000	10.686	-6.9	131	0.00
23 T	Vinyl Acetate	10.000	10.726	-7.3	140	0.00
24 T	1,1-Dichloroethane	10.000	10.535	-5.4	124	0.00
25 T	Ethyl Acetate	10.000	9.452	5.5	108	0.00
26 T	Hexane	10.000	9.508	4.9	112	0.00
27 T	Carbon Disulfide	10.000	10.684	-6.8	123	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.158	-1.6	130	0.00
29 T	Chloroform	10.000	10.919	-9.2	129	0.00
30 T	Cyclohexane	10.000	9.341	6.6	111	0.00
31 T	cis-1,2-Dichloroethene	10.000	10.263	-2.6	115	0.00
32 T	1,1,1-Trichloroethane	10.000	10.844	-8.4	127	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
34 T	2-Butanone	10.000	10.242	-2.4	114	0.00
35 T	Carbon Tetrachloride	10.000	11.845	-18.5	131	0.00
36 T	Benzene	10.000	10.148	-1.5	110	0.00
37 T	1,2-Dichloroethane	10.000	11.493	-14.9	129	0.00
38 T	Trichloroethene	10.000	9.635	3.7	111	0.00
39 T	1,2-Dichloropropane	10.000	9.950	0.5	108	0.00
40 T	1,4-Dioxane	10.000	9.574	4.3	105	0.00
41 T	Tetrahydrofuran	10.000	9.267	7.3	102	0.00
42 T	Bromodichloromethane	10.000	11.359	-13.6	122	0.00
43	Methyl Methacrylate	10.000	9.624	3.8	102	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.853	1.5	107	0.00
45 T	t-1,3-Dichloropropene	10.000	10.243	-2.4	106	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.086	-0.9	106	0.00
47 T	1,1,2-Trichloroethane	10.000	10.274	-2.7	113	0.00
48 T	Dibromochloromethane	10.000	11.241	-12.4	119	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	11.933	-19.3	124	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.331	6.7	99	0.00
51 T	2-Hexanone	10.000	9.485	5.2	95	0.00
52 T	Tetrachloroethene	10.000	10.396	-4.0	113	0.00
53 T	Toluene	10.000	9.805	2.0	106	0.00
54 T	1,2-Dibromoethane	10.000	10.330	-3.3	113	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.429	-14.3	118	0.00
57 T	Chlorobenzene	10.000	10.228	-2.3	109	0.00
58 T	Ethyl Benzene	10.000	10.261	-2.6	107	0.00
59 T	m/p-Xylene	20.000	21.062	-5.3	113	0.02
60 T	o-Xylene	10.000	10.565	-5.6	113	0.00
61 T	Styrene	10.000	9.839	1.6	101	0.00
62	Isopropylbenzene	10.000	10.564	-5.6	112	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.089	-0.9	114	0.00
64	n-propylbenzene	10.000	10.438	-4.4	111	0.00
65	tert-Butylbenzene	10.000	10.266	-2.7	113	0.00
66 T	Benzyl Chloride	10.000	9.258	7.4	89	0.00
67	sec-Butylbenzene	10.000	10.327	-3.3	114	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.570	-5.7	102	0.00
69	p-Isopropyltoluene	10.000	10.237	-2.4	111	0.00
70	n-Butylbenzene	10.000	10.410	-4.1	111	0.00
71	2-Chlorotoluene	10.000	10.461	-4.6	111	0.00
72 T	4-Ethyltoluene	10.000	10.693	-6.9	113	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.671	-6.7	113	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.419	-4.2	116	0.00
75 T	1,3-Dichlorobenzene	10.000	10.943	-9.4	115	0.00
76 T	1,4-Dichlorobenzene	10.000	10.872	-8.7	115	0.00
77 T	1,2-Dichlorobenzene	10.000	10.670	-6.7	116	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	10.417	-4.2	121	0.00
79 T	Naphthalene	10.000	10.113	-1.1	100	0.00
80 T	Naphthalene,2-methyl-	10.000	10.942	-9.4	93	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.750	-7.5	109	0.00

(#) = Out of Range

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



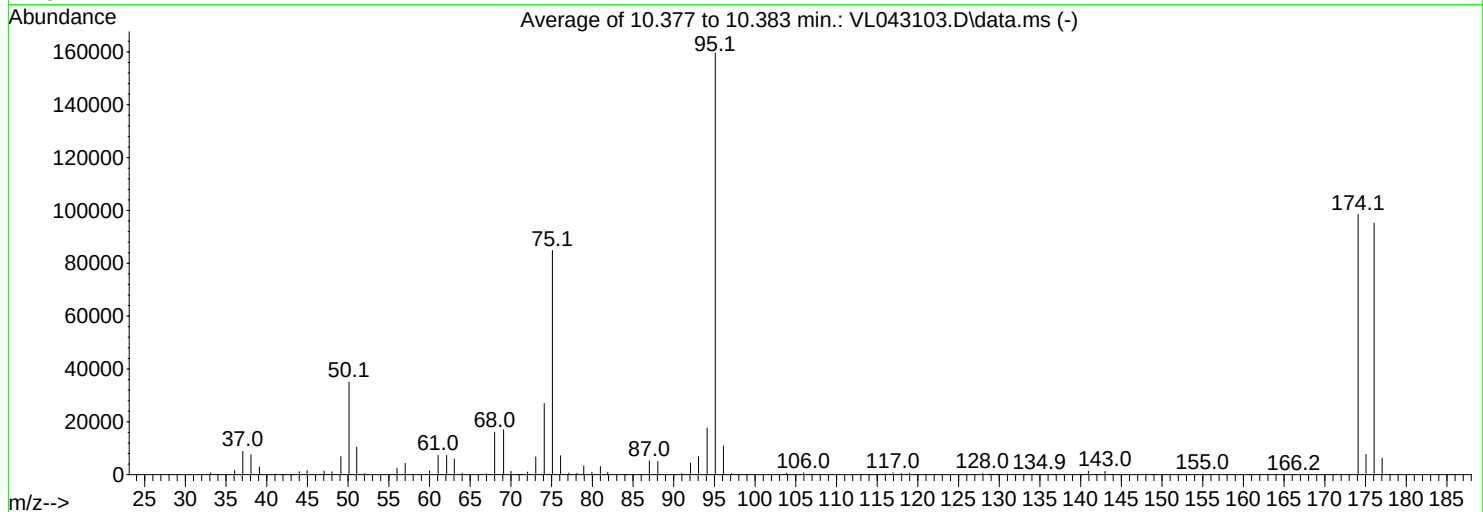
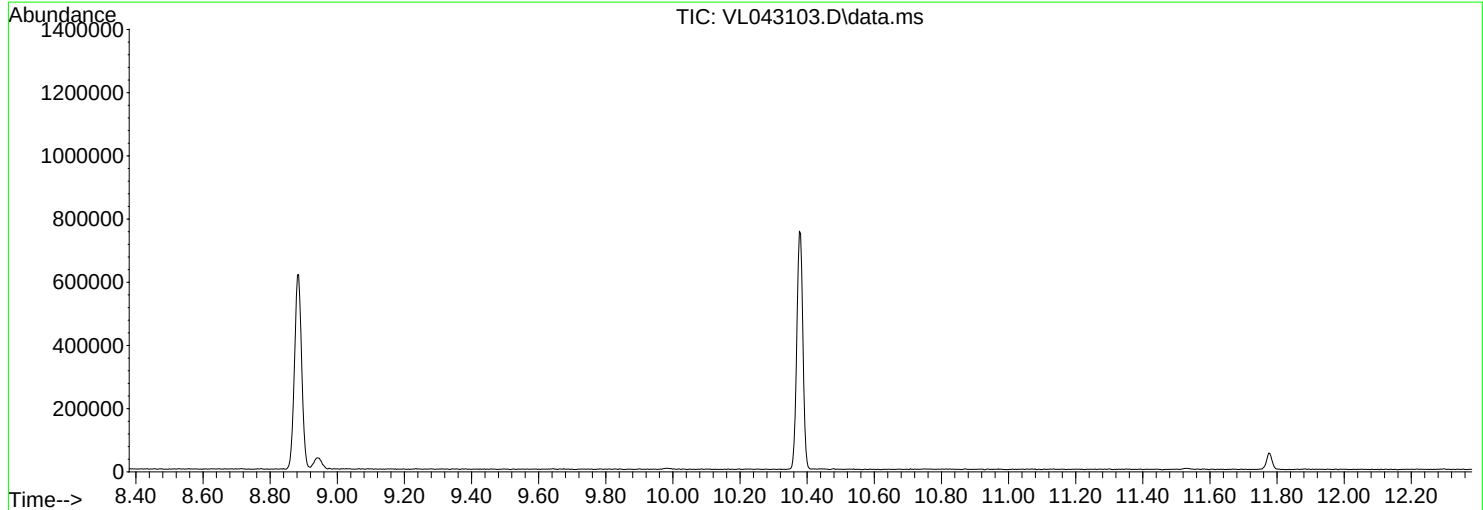
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043103.D
Acq On : 14 Oct 2025 08:42
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\VL101425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3159

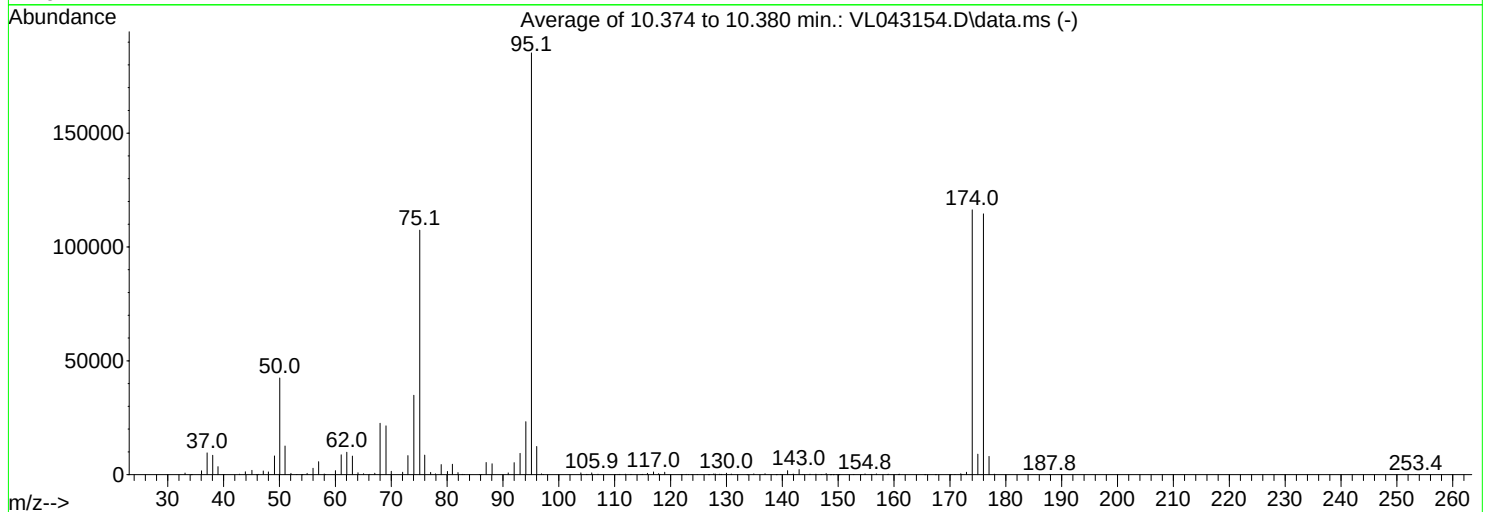
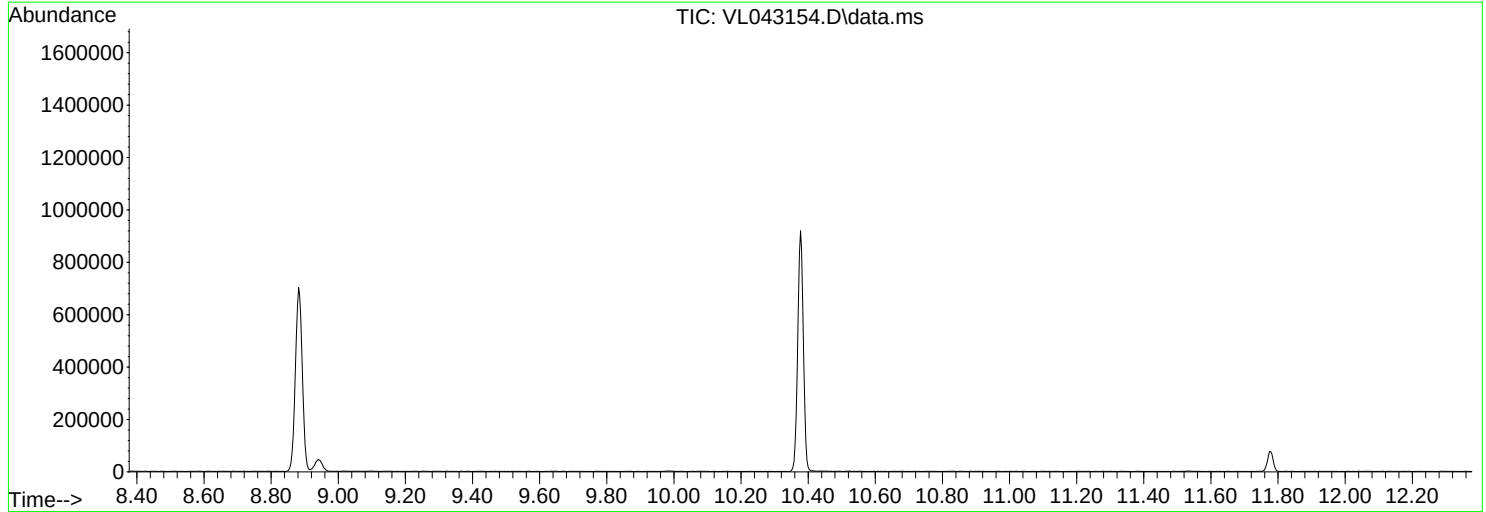
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.9	35021	PASS
75	95	30	66	53.2	84899	PASS
95	95	100	100	100.0	159660	PASS
96	95	5	9	6.8	10862	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	61.7	98536	PASS
175	174	4	9	7.8	7669	PASS
176	174	93	101	96.5	95125	PASS
177	176	5	9	6.6	6237	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043154.D
Acq On : 06 Nov 2025 06:24
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\VL101425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.9	42440	PASS
75	95	30	66	58.0	107403	PASS
95	95	100	100	100.0	185280	PASS
96	95	5	9	6.7	12391	PASS
173	174	0.00	2	0.9	1086	PASS
174	95	50	120	62.8	116309	PASS
175	174	4	9	7.7	9002	PASS
176	174	93	101	98.5	114536	PASS
177	176	5	9	7.0	7990	PASS

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: VL1106ABL01
Lab Sample ID: VL1106ABL01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	1	0.54	2.47	11/06/25 08:02	VL110625
74-87-3	Chloromethane	0.10	0.21	U	1	0.21	1.03	11/06/25 08:02	VL110625
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/06/25 08:02	VL110625
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/06/25 08:02	VL110625
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/06/25 08:02	VL110625
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/06/25 08:02	VL110625
75-69-4	Trichlorofluoromethane	0.17	0.96	U	1	0.96	2.81	11/06/25 08:02	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/06/25 08:02	VL110625
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/06/25 08:02	VL110625
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/06/25 08:02	VL110625
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/06/25 08:02	VL110625
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/06/25 08:02	VL110625
67-64-1	Acetone	0.18	0.43	U	1	0.43	1.19	11/06/25 08:02	VL110625
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/06/25 08:02	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/06/25 08:02	VL110625
75-09-2	Methylene Chloride	0.23	0.80	U	1	0.80	1.74	11/06/25 08:02	VL110625
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/06/25 08:02	VL110625
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/06/25 08:02	VL110625
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/06/25 08:02	VL110625
78-93-3	2-Butanone	0.060	0.18	U	1	0.18	1.47	11/06/25 08:02	VL110625
56-23-5	Carbon Tetrachloride	0.030	0.19	U	1	0.19	0.19	11/06/25 08:02	VL110625
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/06/25 08:02	VL110625
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/06/25 08:02	VL110625
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/06/25 08:02	VL110625
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/06/25 08:02	VL110625
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/06/25 08:02	VL110625
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/06/25 08:02	VL110625
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/06/25 08:02	VL110625
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/06/25 08:02	VL110625
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/06/25 08:02	VL110625
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/06/25 08:02	VL110625
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/06/25 08:02	VL110625
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/06/25 08:02	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/06/25 08:02	VL110625
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/06/25 08:02	VL110625
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/06/25 08:02	VL110625
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/06/25 08:02	VL110625
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/06/25 08:02	VL110625
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/06/25 08:02	VL110625
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/06/25 08:02	VL110625
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/06/25 08:02	VL110625
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/06/25 08:02	VL110625
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/06/25 08:02	VL110625
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/06/25 08:02	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/06/25 08:02	VL110625
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/06/25 08:02	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: VL1106ABL01
Lab Sample ID: VL1106ABL01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 08:02	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 08:02	VL110625
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/06/25 08:02	VL110625
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 08:02	VL110625
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 08:02	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/06/25 08:02	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/06/25 08:02	VL110625
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/06/25 08:02	VL110625
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/06/25 08:02	VL110625
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/06/25 08:02	VL110625
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/06/25 08:02	VL110625
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/06/25 08:02	VL110625
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/06/25 08:02	VL110625
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/06/25 08:02	VL110625

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.80		70 (65) - 130	98%	SPK: 10

INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	111000
540-36-3	1,4-Difluorobenzene	343000
3114-55-4	Chlorobenzene-d5	293000

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\VL110625\
 Data File : VL043156.D
 Acq On : 06 Nov 2025 08:02
 Operator : SY/MD
 Sample : VL1106ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABL01

Quant Time: Nov 07 00:17:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	111463	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	342563	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	292913	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	222345	9.766	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

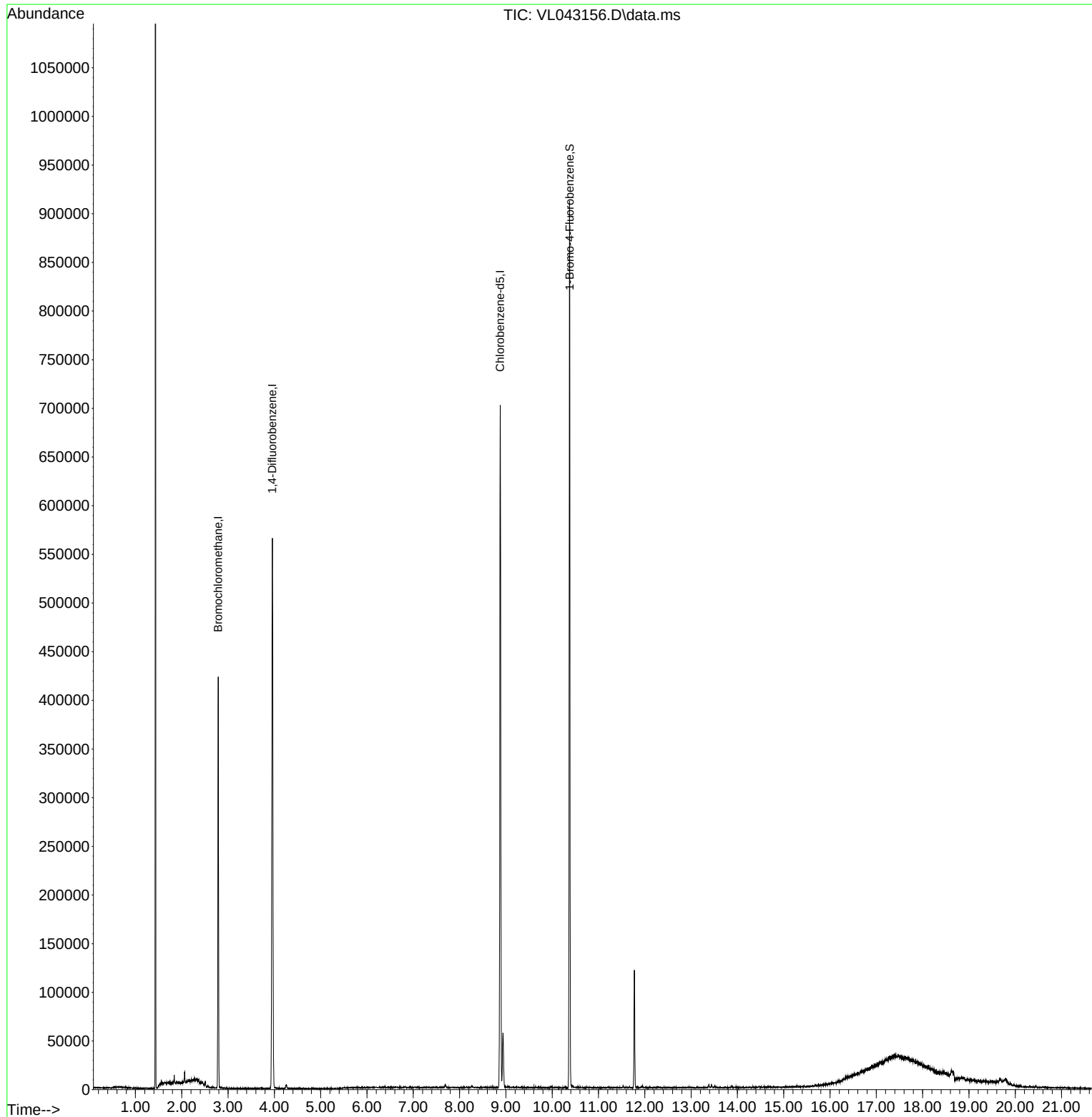
Target Compounds	Qvalue

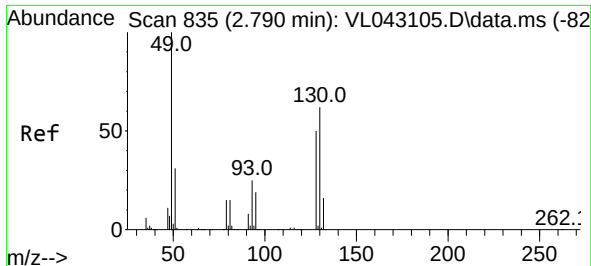
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043156.D
Acq On : 06 Nov 2025 08:02
Operator : SY/MD
Sample : VL1106ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABL01

Quant Time: Nov 07 00:17:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

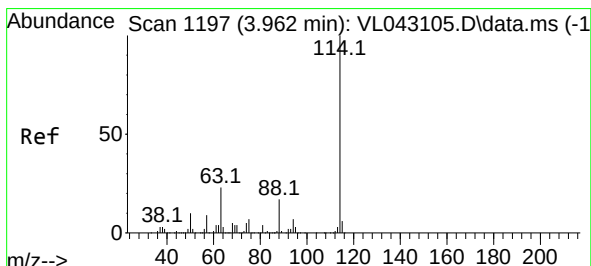
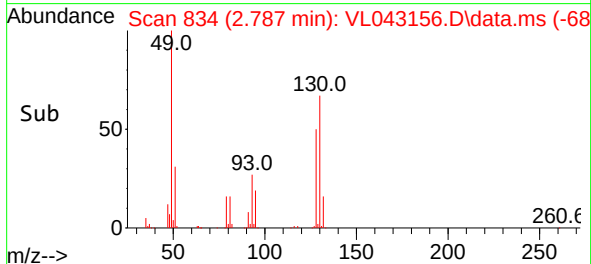
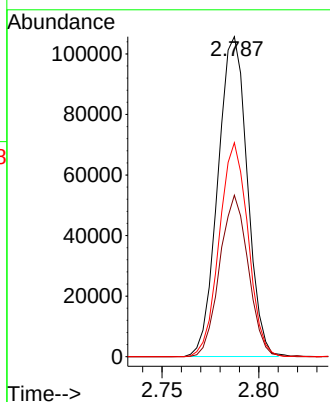
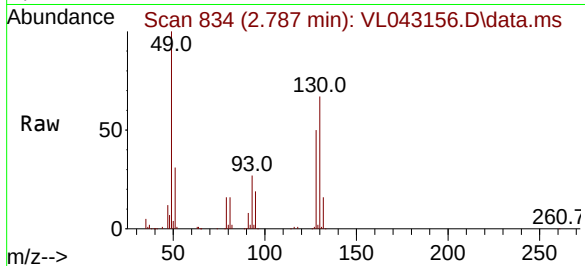




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043156.D
Acq: 06 Nov 2025 08:02

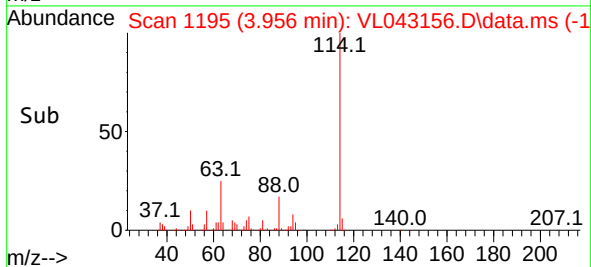
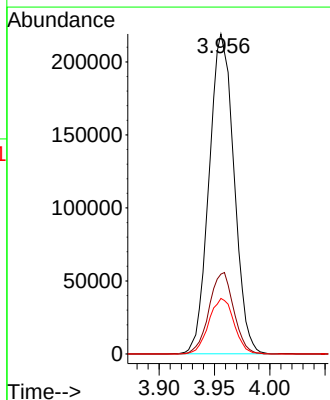
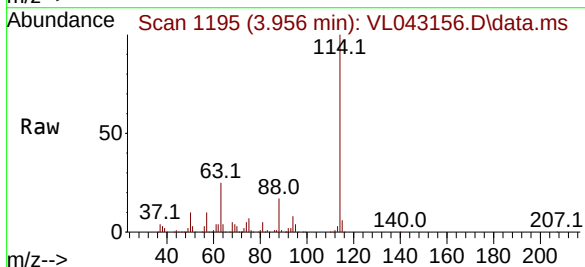
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABL01

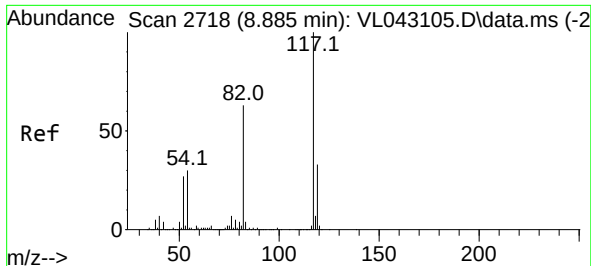
Tgt Ion: 49 Resp: 111463
Ion Ratio Lower Upper
49 100
128 49.0 24.4 73.4
130 65.5 31.0 93.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.006 min
Lab File: VL043156.D
Acq: 06 Nov 2025 08:02

Tgt Ion: 114 Resp: 342563
Ion Ratio Lower Upper
114 100
63 25.3 19.3 28.9
88 17.6 13.9 20.9

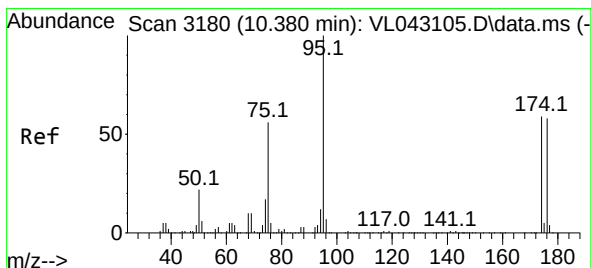
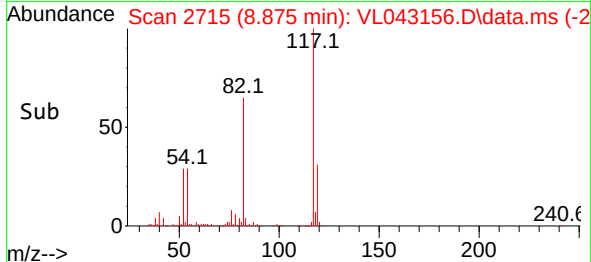
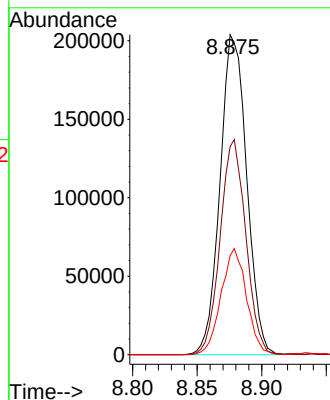
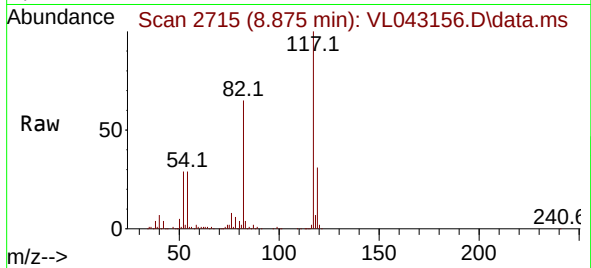




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2117
Delta R.T. -0.010 min
Lab File: VL043156.D
Acq: 06 Nov 2025 08:02

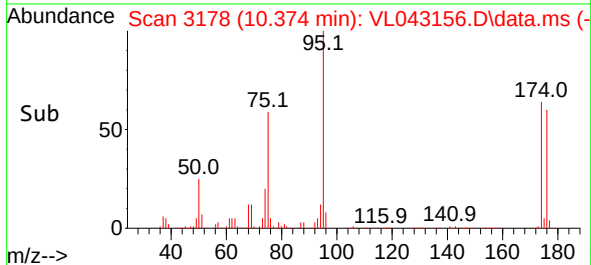
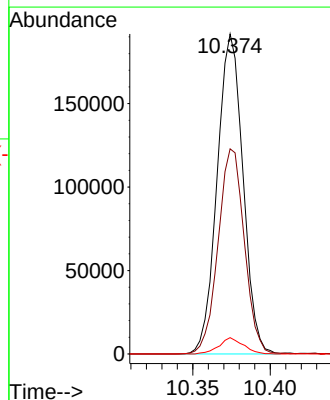
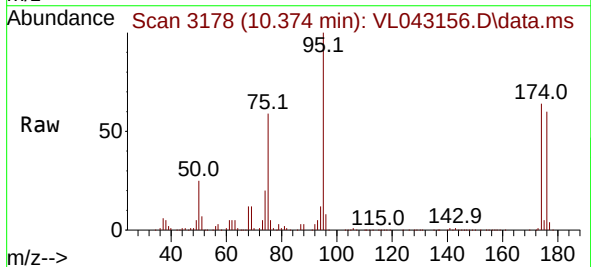
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABL01

Tgt Ion:117 Resp: 292913
Ion Ratio Lower Upper
117 100
82 64.7 53.8 80.8
119 31.8 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.766 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.006 min
Lab File: VL043156.D
Acq: 06 Nov 2025 08:02

Tgt Ion: 95 Resp: 222345
Ion Ratio Lower Upper
95 100
174 65.2 48.3 72.5
175 4.8 3.8 5.8



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: VL1106ABS01
Lab Sample ID: VL1106ABS01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	10.8	53.4		1	0.54	2.47	11/06/25 08:45	VL110625
74-87-3	Chloromethane	9.10	18.8		1	0.21	1.03	11/06/25 08:45	VL110625
75-01-4	Vinyl Chloride	9.10	23.3		1	0.080	0.080	11/06/25 08:45	VL110625
74-83-9	Bromomethane	10.2	39.6		1	0.31	1.94	11/06/25 08:45	VL110625
75-00-3	Chloroethane	9.30	24.5		1	0.40	1.32	11/06/25 08:45	VL110625
109-99-9	Tetrahydrofuran	9.30	27.4		1	0.24	1.47	11/06/25 08:45	VL110625
75-69-4	Trichlorofluoromethane	11.7	65.8		1	0.96	2.81	11/06/25 08:45	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	11.2	85.8		1	1.07	3.83	11/06/25 08:45	VL110625
76-14-2	Dichlorotetrafluoroethane	10.7	74.8		1	1.05	3.49	11/06/25 08:45	VL110625
75-65-0	tert-Butyl alcohol	9.90	30.0		1	0.49	1.52	11/06/25 08:45	VL110625
142-82-5	Heptane	8.70	35.6		1	0.70	2.05	11/06/25 08:45	VL110625
75-35-4	1,1-Dichloroethene	11.0	43.6		1	0.59	1.98	11/06/25 08:45	VL110625
67-64-1	Acetone	8.90	21.1		1	0.43	1.19	11/06/25 08:45	VL110625
75-15-0	Carbon Disulfide	10.7	33.3		1	0.25	1.56	11/06/25 08:45	VL110625
1634-04-4	Methyl tert-Butyl Ether	9.80	35.3		1	0.83	1.80	11/06/25 08:45	VL110625
75-09-2	Methylene Chloride	9.10	31.6		1	0.80	1.74	11/06/25 08:45	VL110625
156-60-5	trans-1,2-Dichloroethene	10.7	42.4		1	0.48	1.98	11/06/25 08:45	VL110625
75-34-3	1,1-Dichloroethane	10.5	42.5		1	0.53	2.02	11/06/25 08:45	VL110625
110-82-7	Cyclohexane	9.30	32.0		1	0.76	1.72	11/06/25 08:45	VL110625
78-93-3	2-Butanone	10.4	30.7		1	0.18	1.47	11/06/25 08:45	VL110625
56-23-5	Carbon Tetrachloride	11.8	74.2		1	0.19	0.19	11/06/25 08:45	VL110625
156-59-2	cis-1,2-Dichloroethene	10.5	41.6		1	0.40	1.98	11/06/25 08:45	VL110625
67-66-3	Chloroform	11.0	53.7		1	0.49	2.44	11/06/25 08:45	VL110625
71-55-6	1,1,1-Trichloroethane	10.7	58.4		1	0.11	0.16	11/06/25 08:45	VL110625
540-84-1	2,2,4-Trimethylpentane	9.80	45.8		1	0.65	2.34	11/06/25 08:45	VL110625
71-43-2	Benzene	10.2	32.6		1	0.26	1.60	11/06/25 08:45	VL110625
107-06-2	1,2-Dichloroethane	11.3	45.7		1	0.36	2.02	11/06/25 08:45	VL110625
79-01-6	Trichloroethene	9.60	51.6		1	0.11	0.16	11/06/25 08:45	VL110625
78-87-5	1,2-Dichloropropane	10.0	46.2		1	0.60	2.31	11/06/25 08:45	VL110625
75-27-4	Bromodichloromethane	11.4	76.4		1	0.40	3.35	11/06/25 08:45	VL110625
108-10-1	4-Methyl-2-Pentanone	9.40	38.5		1	0.41	2.05	11/06/25 08:45	VL110625
108-88-3	Toluene	9.70	36.5		1	0.60	1.88	11/06/25 08:45	VL110625
10061-02-6	t-1,3-Dichloropropene	10.1	45.9		1	0.68	2.27	11/06/25 08:45	VL110625
10061-01-5	cis-1,3-Dichloropropene	10.0	45.4		1	0.50	2.27	11/06/25 08:45	VL110625
79-00-5	1,1,2-Trichloroethane	10.3	56.2		1	0.44	2.73	11/06/25 08:45	VL110625
124-48-1	Dibromochloromethane	11.1	94.6		1	0.77	4.26	11/06/25 08:45	VL110625
106-93-4	1,2-Dibromoethane	10.3	79.2		1	0.69	0.77	11/06/25 08:45	VL110625
127-18-4	Tetrachloroethene	10.3	69.8		1	0.14	0.20	11/06/25 08:45	VL110625
108-90-7	Chlorobenzene	10.2	47.0		1	0.37	2.30	11/06/25 08:45	VL110625
100-41-4	Ethyl Benzene	10.3	44.7		1	0.83	2.17	11/06/25 08:45	VL110625
179601-23-1	m/p-Xylene	20.9	90.8		1	1.78	4.34	11/06/25 08:45	VL110625
95-47-6	o-Xylene	10.4	45.2		1	0.91	2.17	11/06/25 08:45	VL110625
100-42-5	Styrene	9.80	41.7		1	0.68	2.13	11/06/25 08:45	VL110625
75-25-2	Bromoform	11.6	120		1	0.52	5.17	11/06/25 08:45	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	9.90	68.0		1	0.14	0.21	11/06/25 08:45	VL110625
95-49-8	2-Chlorotoluene	10.4	53.9		1	0.88	2.59	11/06/25 08:45	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: VL1106ABS01
Lab Sample ID: VL1106ABS01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	10.7	52.6		1	0.88	2.46	11/06/25 08:45	VL110625
95-63-6	1,2,4-Trimethylbenzene	10.4	51.1		1	0.88	2.46	11/06/25 08:45	VL110625
541-73-1	1,3-Dichlorobenzene	10.9	65.5		1	0.30	3.01	11/06/25 08:45	VL110625
106-46-7	1,4-Dichlorobenzene	10.8	64.9		1	0.78	3.01	11/06/25 08:45	VL110625
95-50-1	1,2-Dichlorobenzene	10.7	64.3		1	0.78	3.01	11/06/25 08:45	VL110625
120-82-1	1,2,4-Trichlorobenzene	10.8	80.2		1	1.56	3.71	11/06/25 08:45	VL110625
87-68-3	Hexachloro-1,3-Butadiene	10.4	111		1	1.39	5.33	11/06/25 08:45	VL110625
106-99-0	1,3-Butadiene	8.80	19.5		1	0.11	1.11	11/06/25 08:45	VL110625
91-20-3	Naphthalene	10.1	53.0		1	0.050	0.52	11/06/25 08:45	VL110625
622-96-8	4-Ethyltoluene	10.7	52.6		1	1.03	2.46	11/06/25 08:45	VL110625
110-54-3	Hexane	9.40	33.1		1	0.56	1.76	11/06/25 08:45	VL110625
107-05-1	Allyl Chloride	9.20	28.8		1	0.34	1.57	11/06/25 08:45	VL110625
123-91-1	1,4-Dioxane	9.40	33.9		1	0.79	1.80	11/06/25 08:45	VL110625
80-62-6	Methyl Methacrylate	9.80	40.1		1	0.57	2.05	11/06/25 08:45	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.2 70 (65) - 130 102% SPK: 10

INTERNAL STANDARDS

	Area Count
74-97-5 Bromochloromethane	111000
540-36-3 1,4-Difluorobenzene	341000
3114-55-4 Chlorobenzene-d5	300000

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\VL110625\
 Data File : VL043157.D
 Acq On : 06 Nov 2025 08:45
 Operator : SY/MD
 Sample : VL1106ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:17:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	111380	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	340583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	299526	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 237797 10.214 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	170728	10.782	ppbv	99
3) Chlorodifluoromethane	1.476	51	171506	10.011	ppbv	97
4) Chloromethane	1.534	50	57299	9.134	ppbv	100
5) Vinyl Chloride	1.580	62	55895	9.085	ppbv	100
6) Bromomethane	1.667	94	34540	10.238	ppbv	96
7) Chloroethane	1.706	64	23501	9.342	ppbv	89
8) Dichlorotetrafluoroethane	1.554	85	136433	10.661	ppbv	92
9) Propene	1.483	41	64760	8.523	ppbv	99
10) Heptane	4.978	43	189938	8.683	ppbv	98
11) Trichlorofluoromethane	1.877	101	181952	11.748	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	139934	11.222	ppbv	96
13) Ethanol	1.719	45	21163	7.530	ppbv	98
14) Bromoethene	1.780	108	49693	10.727	ppbv	99
15) Acetone	1.835	43	134115	8.934	ppbv	99
16) 1,3-Butadiene	1.609	39	62625	8.753	ppbv	98
17) tert-Butyl alcohol	2.039	59	203295	9.865	ppbv	100
18) 1,1-Dichloroethene	2.036	96	59563	10.957	ppbv	84
19) Isopropyl Alcohol	1.884	45	80943	8.657	ppbv	92
20) Methylene Chloride	2.062	84	53912	9.085	ppbv	94
21) Allyl Chloride	2.094	41	101879	9.210	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	69305	10.665	ppbv	93
23) Vinyl Acetate	2.460	43	232125	10.556	ppbv	99
24) 1,1-Dichloroethane	2.408	63	131599	10.482	ppbv	98
25) Ethyl Acetate	2.832	43	354153	9.513	ppbv	100
26) Hexane	2.826	57	161029	9.387	ppbv	98
27) Carbon Disulfide	2.149	76	167737	10.672	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	76290	9.775	ppbv	94
29) Chloroform	2.848	83	272377	10.958	ppbv	100
30) Cyclohexane	3.855	84	139050	9.287	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	171275	10.456	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	276541	10.684	ppbv	100
34) 2-Butanone	2.554	43	237347	10.367	ppbv	100
35) Carbon Tetrachloride	3.761	117	289096	11.806	ppbv	94
36) Benzene	3.654	78	326982	10.193	ppbv	99
37) 1,2-Dichloroethane	3.217	62	208468	11.281	ppbv	98
38) Trichloroethene	4.544	130	129044	9.632	ppbv	96
39) 1,2-Dichloropropane	4.308	63	117166	9.991	ppbv	93
40) 1,4-Dioxane	4.574	88	49474	9.428	ppbv #	96
41) Tetrahydrofuran	3.049	42	118637	9.265	ppbv	97
42) Bromodichloromethane	4.486	83	291226	11.387	ppbv	99
43) Methyl Methacrylate	4.875	69	160012	9.821	ppbv	95
44) 2,2,4-Trimethylpentane	4.638	57	531922	9.828	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	165316	10.111	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043157.D
 Acq On : 06 Nov 2025 08:45
 Operator : SY/MD
 Sample : VL1106ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:17:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	195336	10.001	ppbv	97
47) 1,1,2-Trichloroethane	6.580	97	130064	10.270	ppbv	92
48) Dibromochloromethane	7.383	129	234841	11.091	ppbv	98
49) Bromoform	9.480	173	199190	11.573	ppbv	99
50) 4-Methyl-2-Pentanone	5.739	43	295763	9.361	ppbv	99
51) 2-Hexanone	7.428	43	227473	9.599	ppbv #	99
52) Tetrachloroethene	8.221	164	119279	10.312	ppbv	97
53) Toluene	6.927	91	368487	9.679	ppbv	99
54) 1,2-Dibromoethane	7.648	107	205210	10.345	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	213620	11.314	ppbv	98
57) Chlorobenzene	8.917	112	286347	10.219	ppbv	97
58) Ethyl Benzene	9.351	91	529847	10.307	ppbv	97
59) m/p-Xylene	9.548	91	856422m	20.888	ppbv	
60) o-Xylene	9.963	91	422838	10.442	ppbv	100
61) Styrene	9.865	104	179195	9.802	ppbv	99
62) Isopropylbenzene	10.539	105	762154	10.416	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	269723	9.947	ppbv	98
64) n-propylbenzene	10.989	120	201938	10.424	ppbv	98
65) tert-Butylbenzene	11.529	119	662570	10.254	ppbv	97
66) Benzyl Chloride	11.613	91	64257	8.935	ppbv	99
67) sec-Butylbenzene	11.765	105	957255	10.438	ppbv	99
69) p-Isopropyltoluene	11.924	119	795241	10.205	ppbv	98
70) n-Butylbenzene	12.280	91	798019	10.392	ppbv	99
71) 2-Chlorotoluene	10.898	91	579642	10.386	ppbv	99
72) 4-Ethyltoluene	11.121	105	530791	10.660	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	440663	10.731	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	477453	10.390	ppbv	91
75) 1,3-Dichlorobenzene	11.607	146	290341	10.894	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	291409	10.843	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	276598	10.728	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	207474	10.393	ppbv	99
79) Naphthalene	13.510	128	486413	10.127	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	142500	11.387	ppbv	97
81) 1,2,4-Trichlorobenzene	13.439	180	216292	10.849	ppbv	99

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

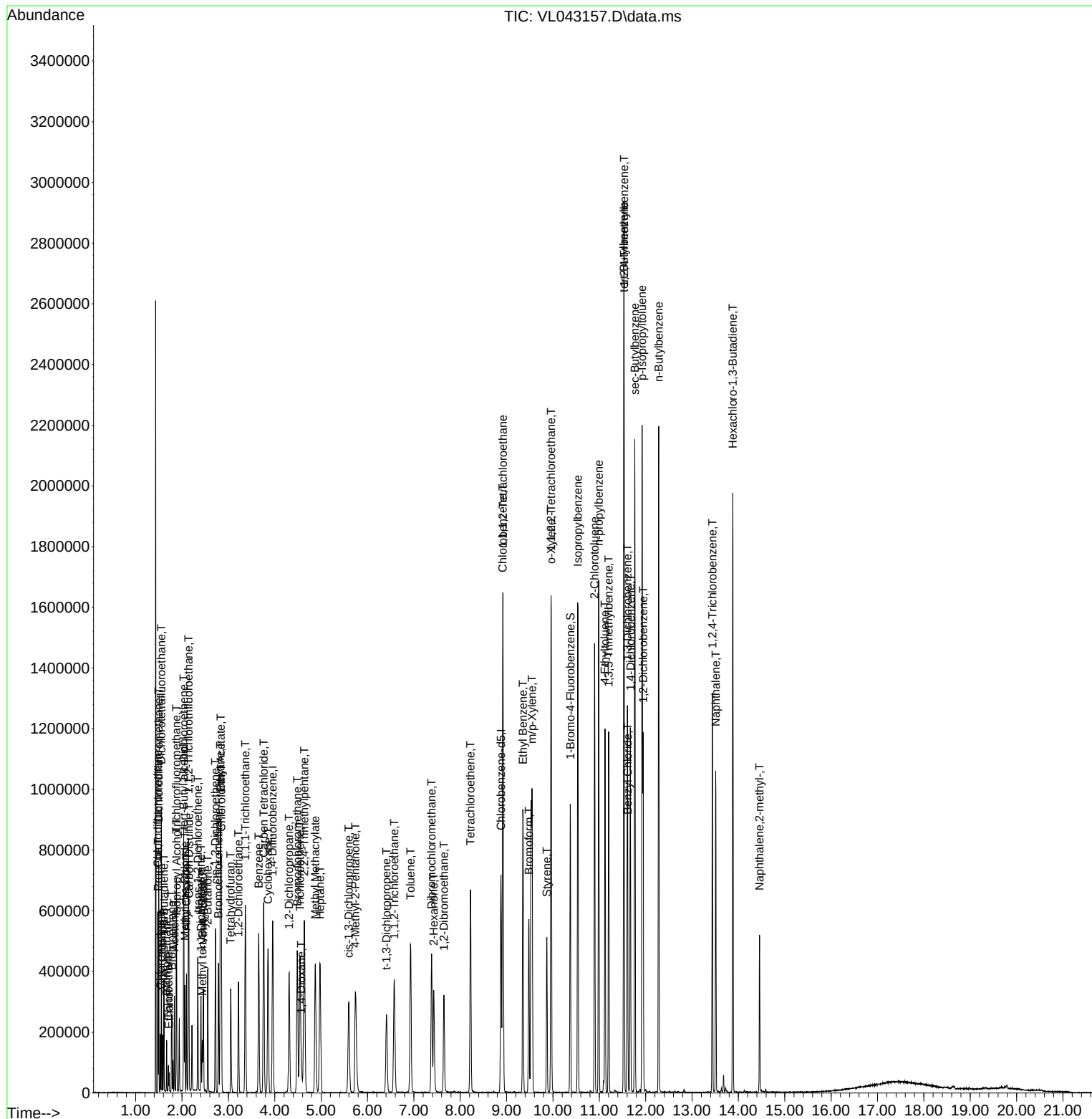
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 Acq On : 06 Nov 2025 08:45
 Operator : SY/MD
 Sample : VL1106ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

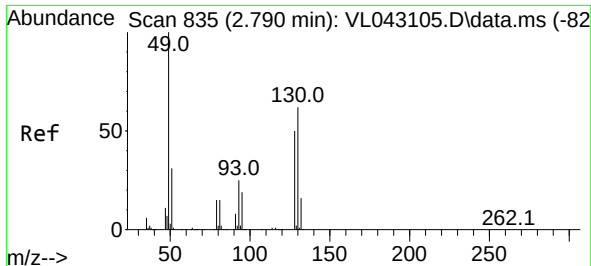
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:17:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration





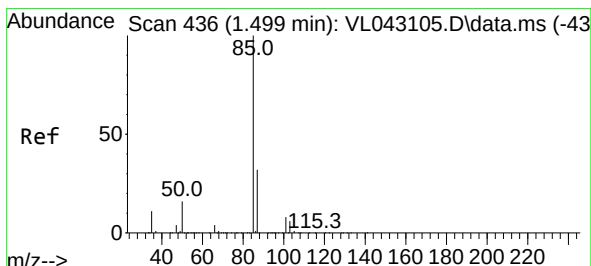
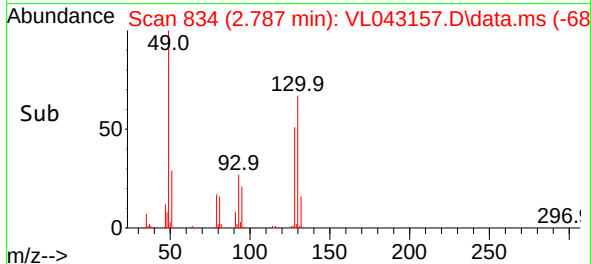
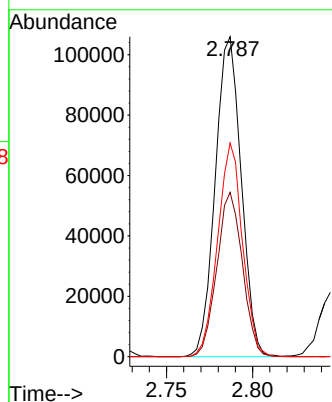
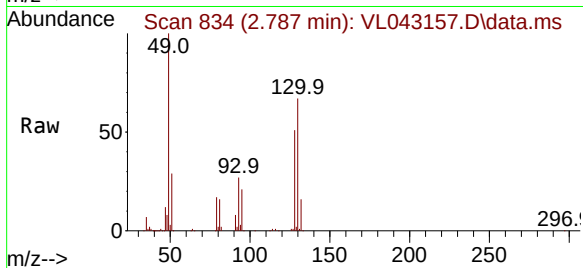
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 49 Resp: 111380
Ion Ratio Lower Upper
49 100
128 50.4 24.4 73.4
130 63.9 31.0 93.0

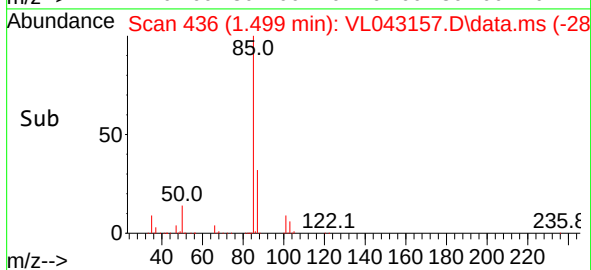
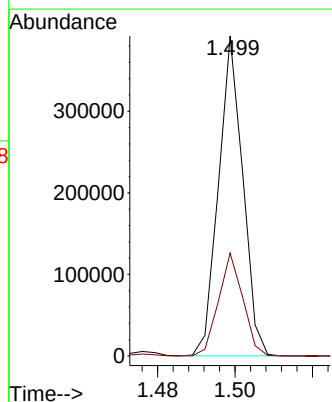
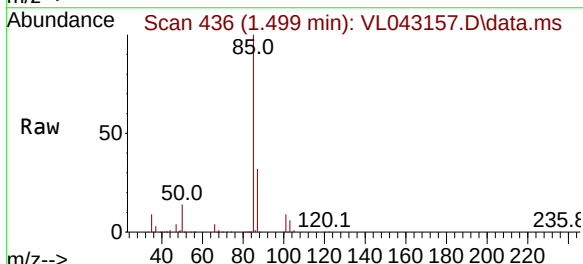
Manual Integrations
APPROVED

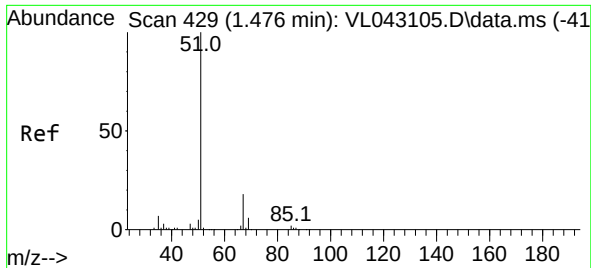
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 10.782 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 170728
Ion Ratio Lower Upper
85 100
87 32.2 25.3 37.9





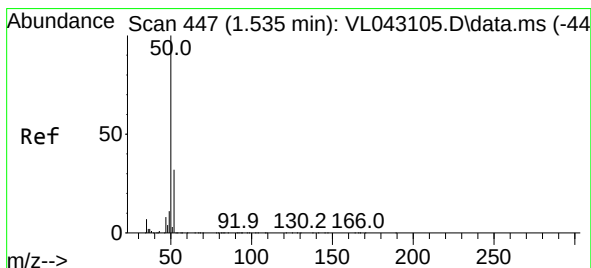
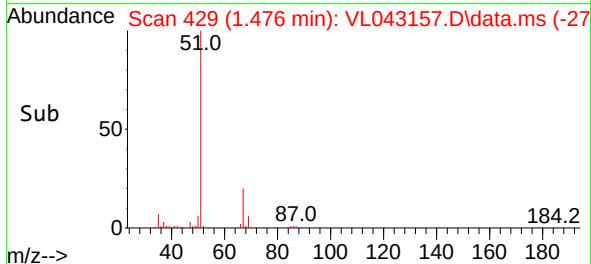
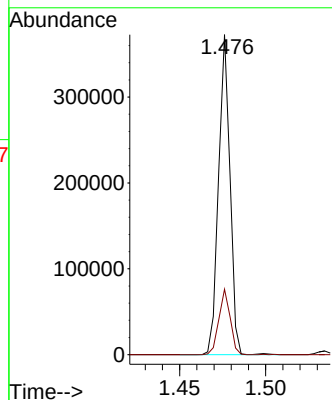
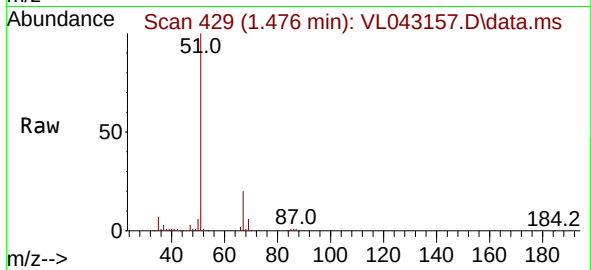
#3
Chlorodifluoromethane
Concen: 10.011 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 51 Resp: 171500
Ion Ratio Lower Upper
51 100
67 20.4 15.1 22.7

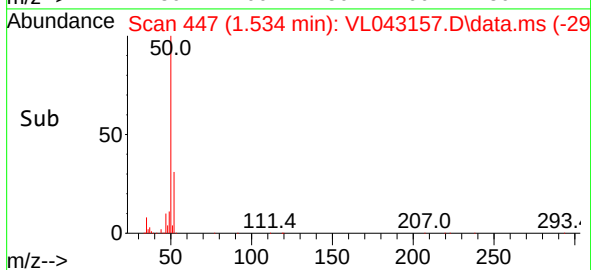
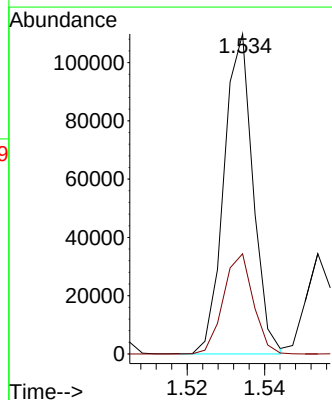
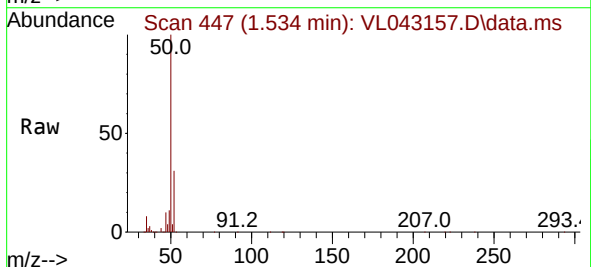
Manual Integrations
APPROVED

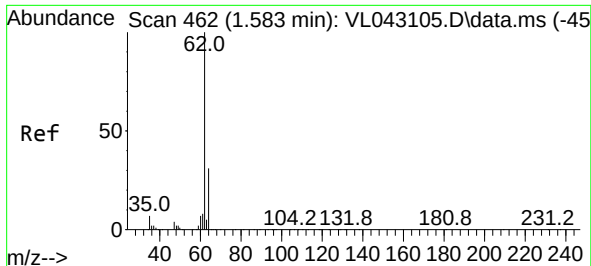
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 9.134 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

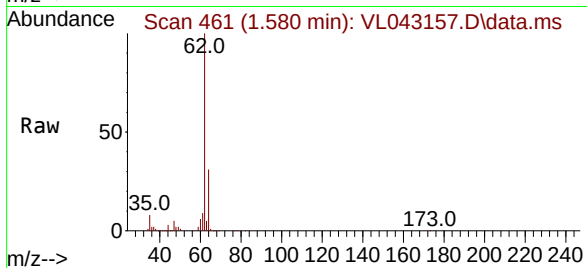
Tgt Ion: 50 Resp: 57299
Ion Ratio Lower Upper
50 100
52 31.3 25.2 37.8





#5
 Vinyl Chloride
 Concen: 9.085 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

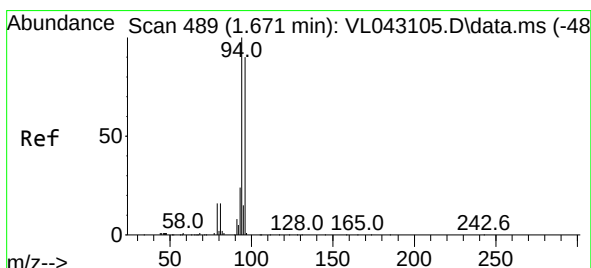
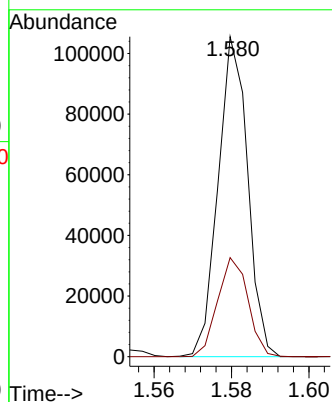
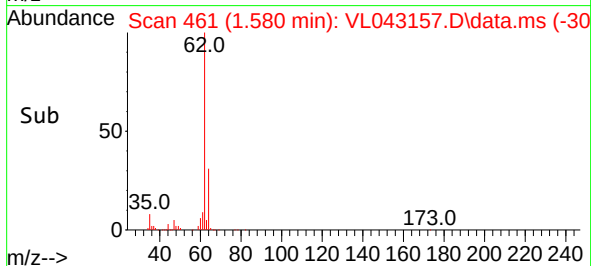
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01



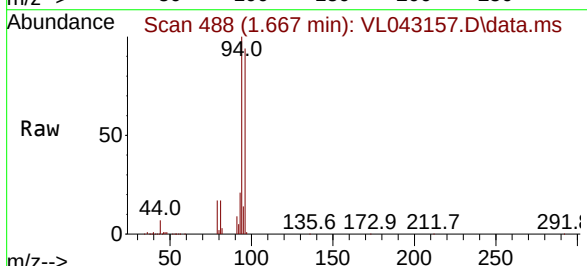
Tgt Ion: 62 Resp: 5589
 Ion Ratio Lower Upper
 62 100
 64 31.0 24.6 36.8

Manual Integrations
 APPROVED

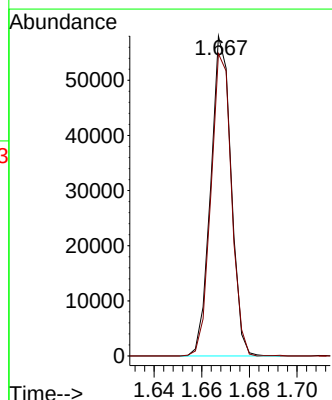
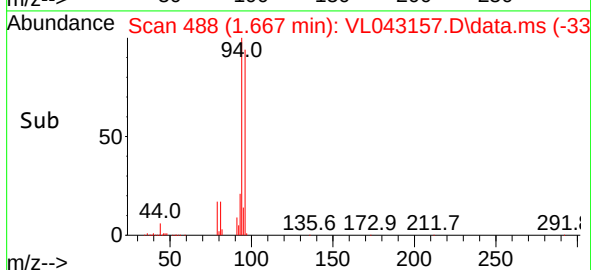
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

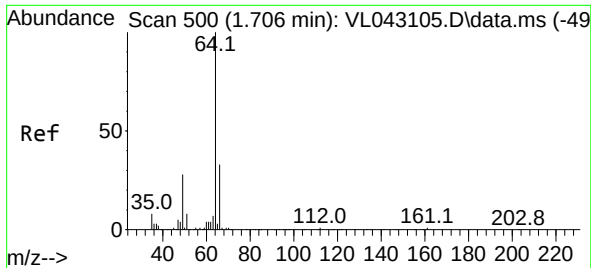


#6
 Bromomethane
 Concen: 10.238 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45



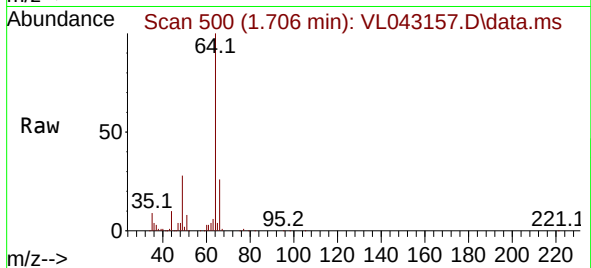
Tgt Ion: 94 Resp: 34540
 Ion Ratio Lower Upper
 94 100
 96 94.5 72.2 108.4





#7
Chloroethane
Concen: 9.342 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

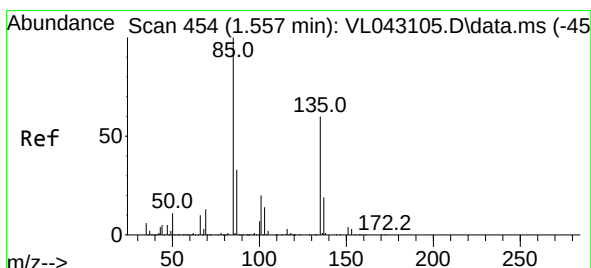
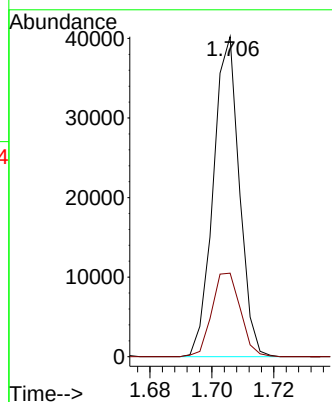
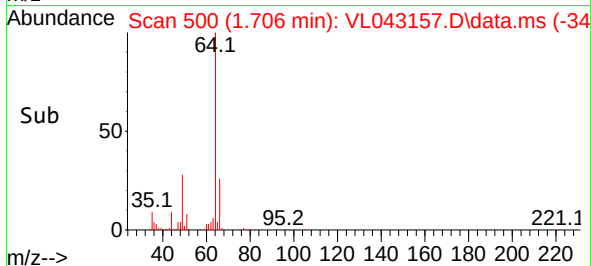
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion: 64 Resp: 2350
Ion Ratio Lower Upper
64 100
66 26.1 26.0 39.0

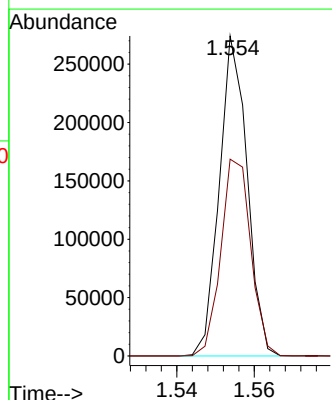
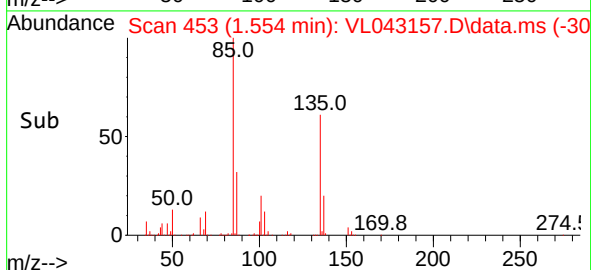
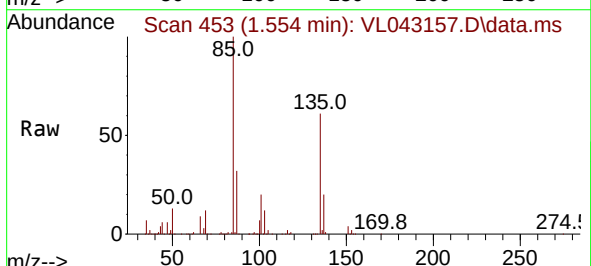
Manual Integrations
APPROVED

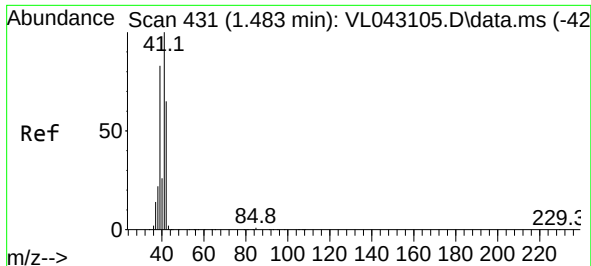
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#8
Dichlorotetrafluoroethane
Concen: 10.661 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 136433
Ion Ratio Lower Upper
85 100
135 66.6 48.2 72.4





#9

Propene

Concen: 8.523 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

VL1106ABS01

Tgt Ion: 41 Resp: 64760

Ion Ratio Lower Upper

41 100

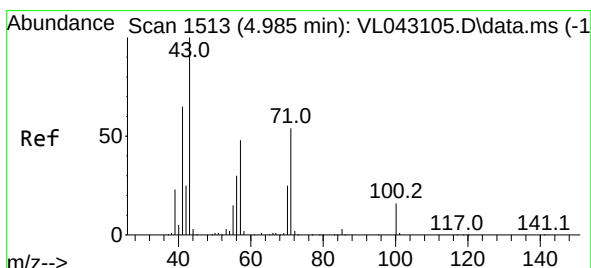
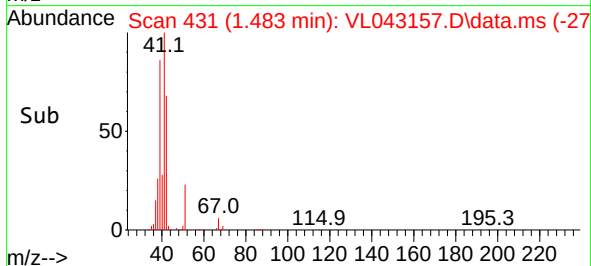
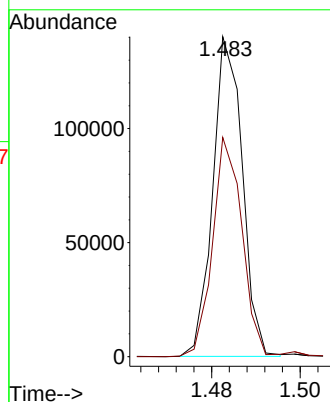
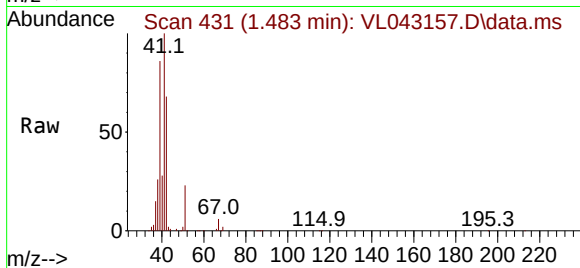
42 69.6 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#10

Heptane

Concen: 8.683 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.007 min

Lab File: VL043157.D

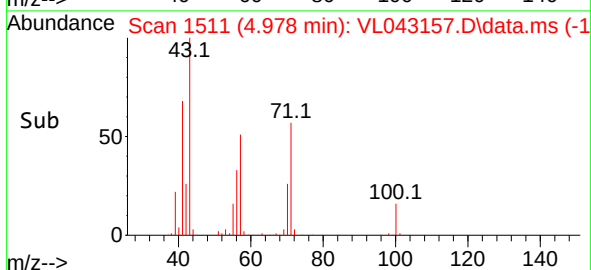
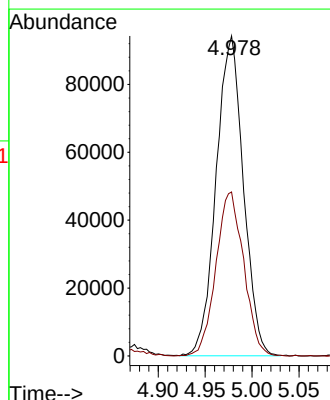
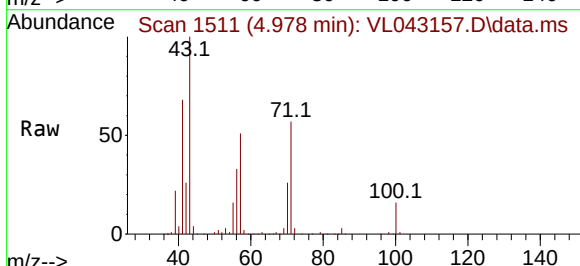
Acq: 06 Nov 2025 08:45

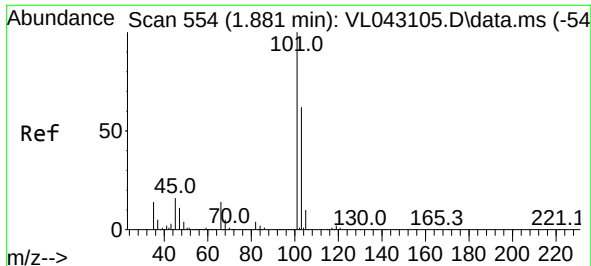
Tgt Ion: 43 Resp: 189938

Ion Ratio Lower Upper

43 100

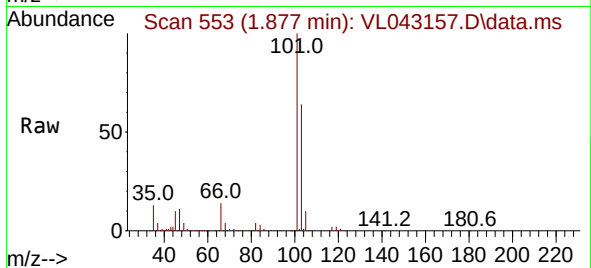
57 52.3 40.8 61.2





#11
Trichlorofluoromethane
Concen: 11.748 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

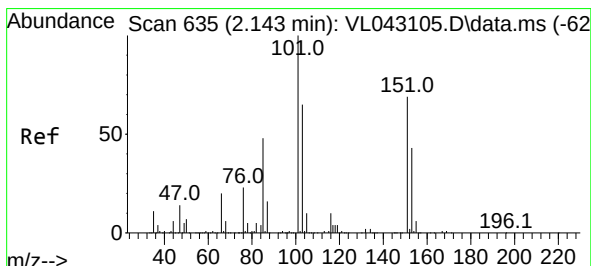
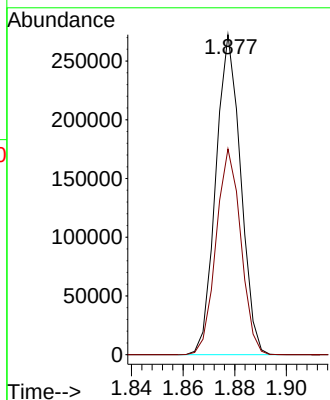
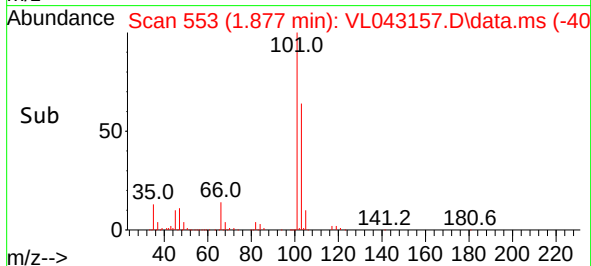
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



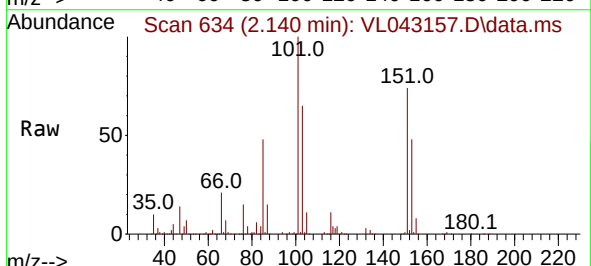
Tgt Ion:101 Resp: 181952
Ion Ratio Lower Upper
101 100
103 64.3 49.3 73.9

Manual Integrations
APPROVED

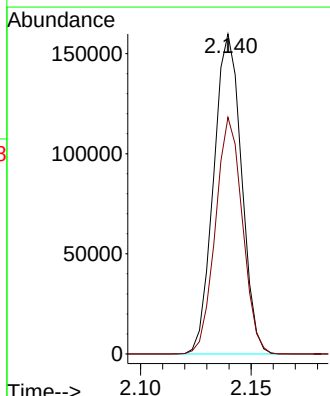
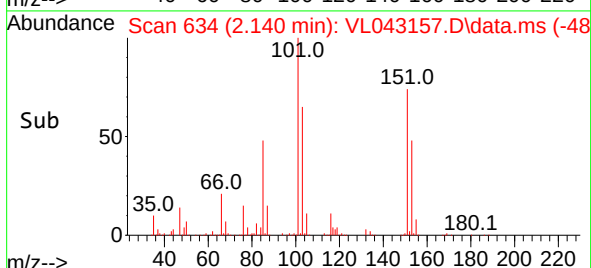
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

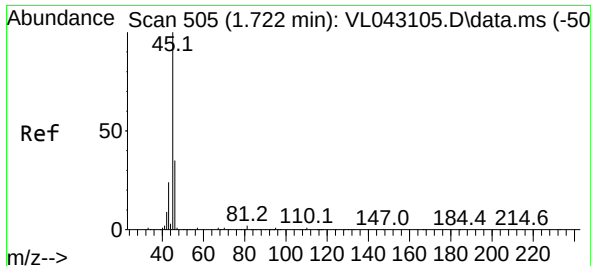


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.222 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45



Tgt Ion:101 Resp: 139934
Ion Ratio Lower Upper
101 100
151 71.7 54.7 82.1





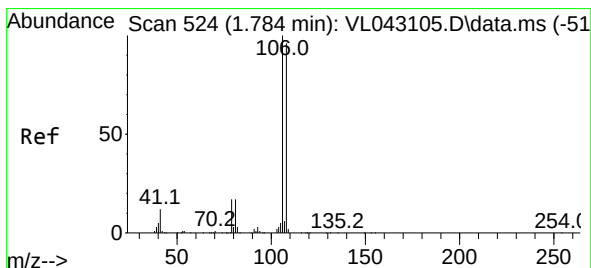
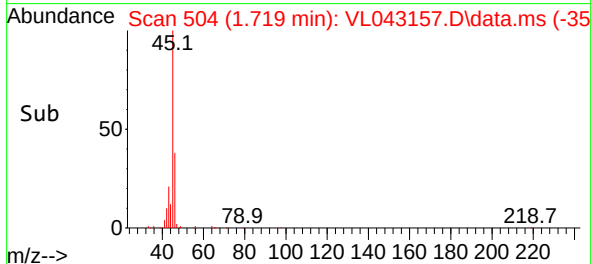
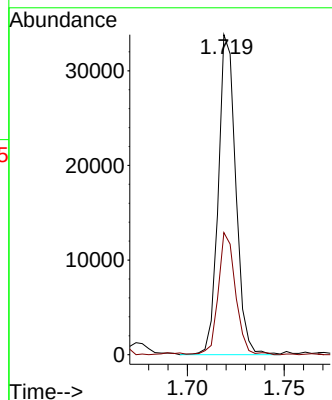
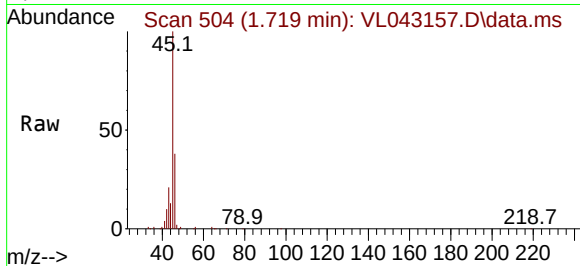
#13
Ethanol
Concen: 7.530 ppbv
RT: 1.719 min Scan# 505
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 45 Resp: 2116
Ion Ratio Lower Upper
45 100
46 38.3 14.7 58.9

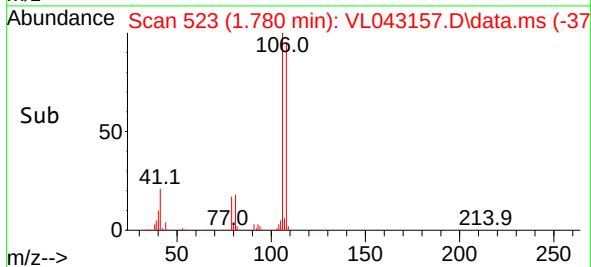
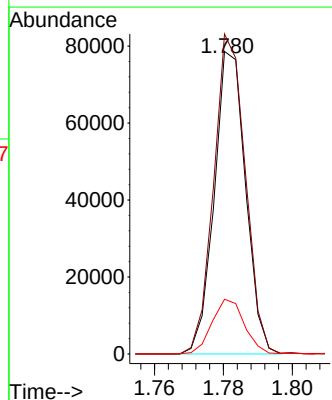
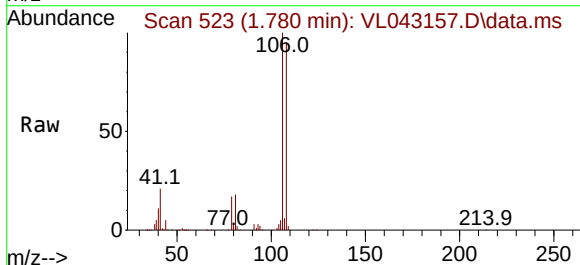
Manual Integrations
APPROVED

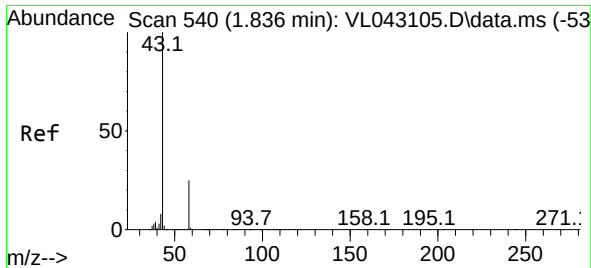
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#14
Bromoethene
Concen: 10.727 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

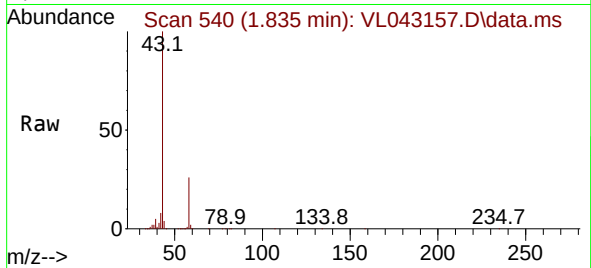
Tgt Ion:108 Resp: 49693
Ion Ratio Lower Upper
108 100
106 106.7 84.4 126.6
79 18.8 15.3 22.9





#15
Acetone
Concen: 8.934 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

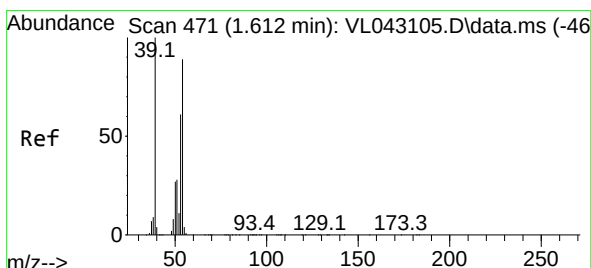
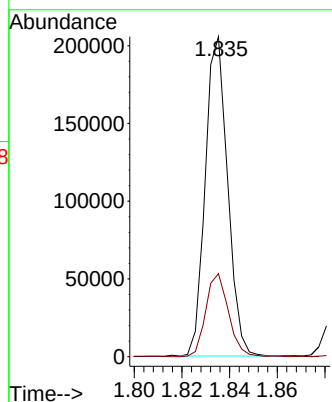
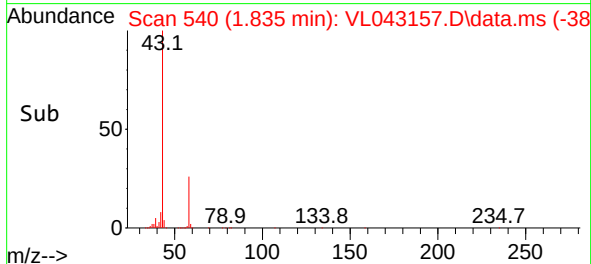
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



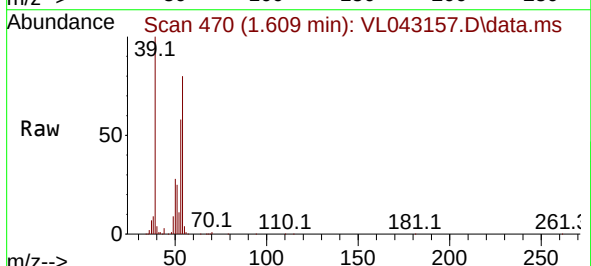
Tgt Ion: 43 Resp: 134115
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2

Manual Integrations
APPROVED

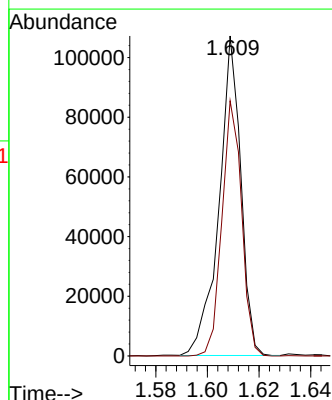
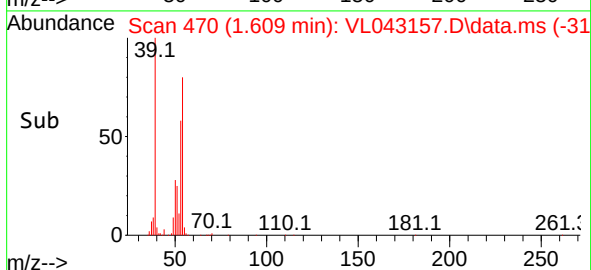
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

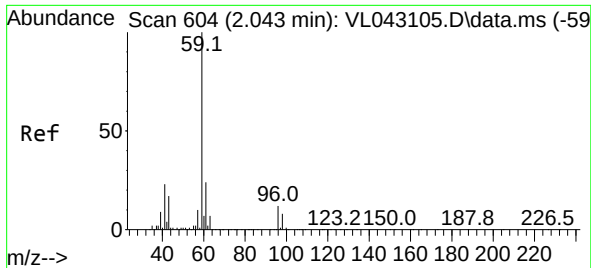


#16
1,3-Butadiene
Concen: 8.753 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45



Tgt Ion: 39 Resp: 62625
Ion Ratio Lower Upper
39 100
54 72.1 59.0 88.4





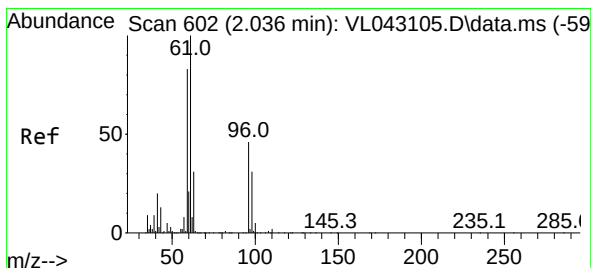
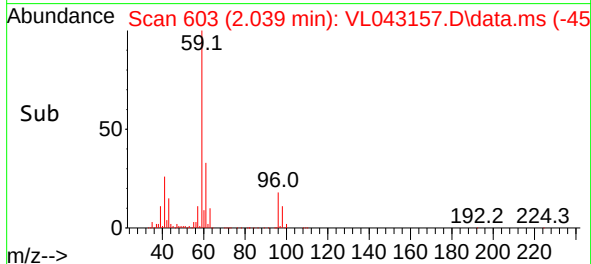
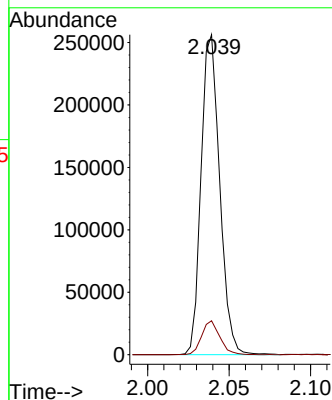
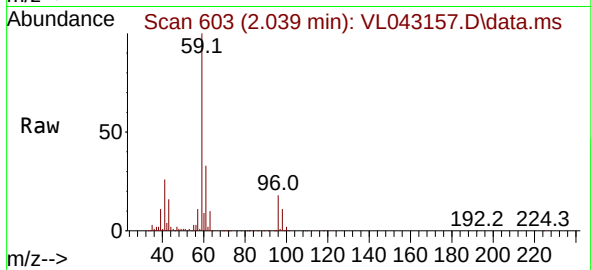
#17
tert-Butyl alcohol
Concen: 9.865 ppbv
RT: 2.039 min Scan# 604
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 59 Resp: 20329
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.4

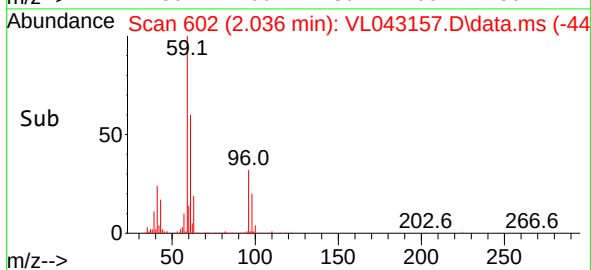
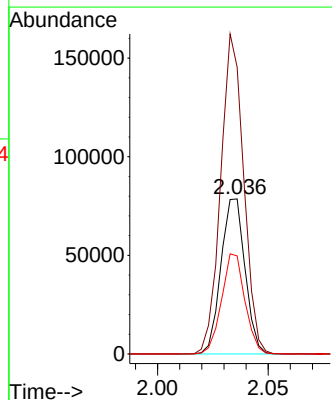
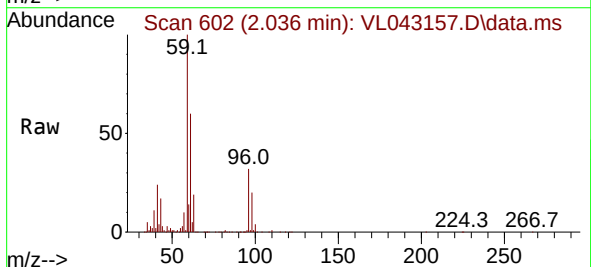
Manual Integrations
APPROVED

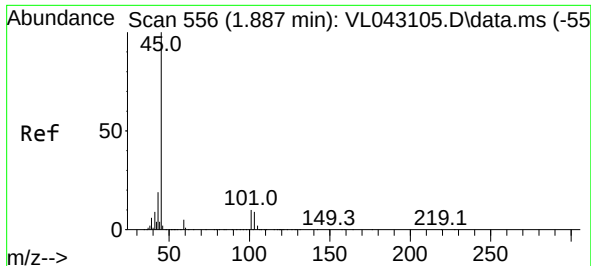
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#18
1,1-Dichloroethene
Concen: 10.957 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

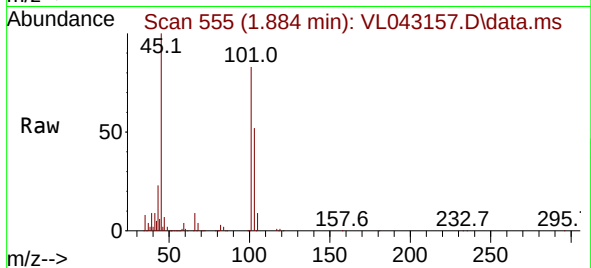
Tgt Ion: 96 Resp: 59563
Ion Ratio Lower Upper
96 100
61 185.0 173.4 260.0
98 63.3 53.2 79.8





#19
Isopropyl Alcohol
Concen: 8.657 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

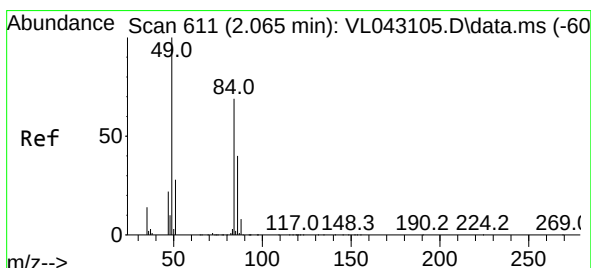
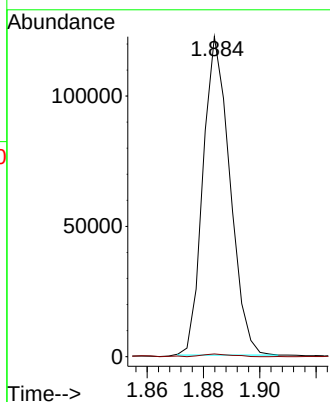
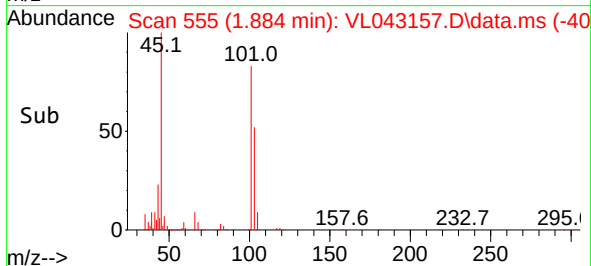
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



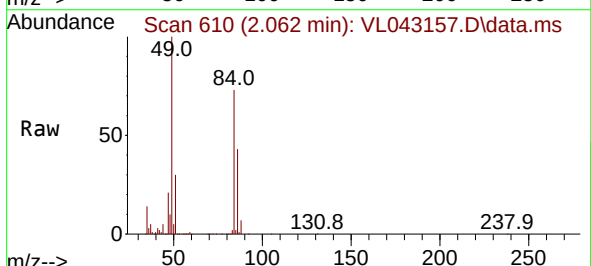
Tgt Ion: 45 Resp: 8094
Ion Ratio Lower Upper
45 100
58 44.1 31.3 46.9

Manual Integrations
APPROVED

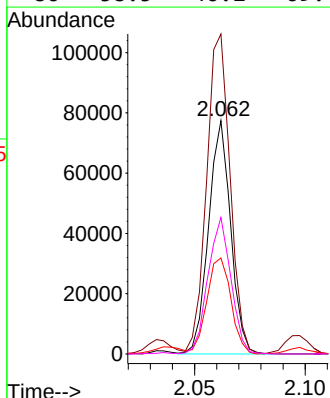
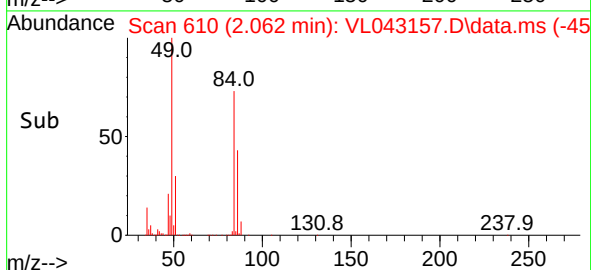
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

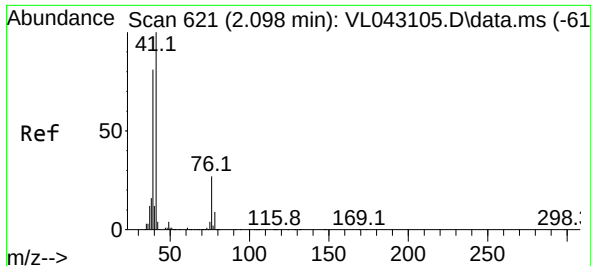


#20
Methylene Chloride
Concen: 9.085 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45



Tgt Ion: 84 Resp: 53912
Ion Ratio Lower Upper
84 100
49 135.7 116.6 175.0
51 40.7 34.8 52.2
86 58.5 46.2 69.4





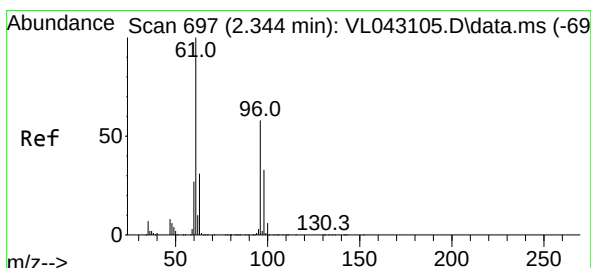
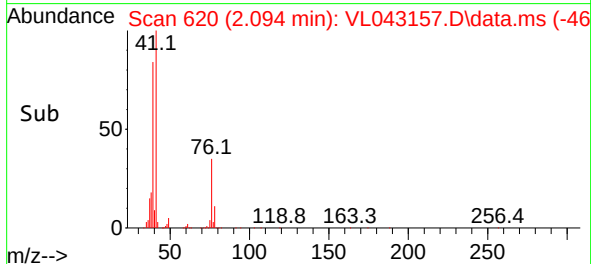
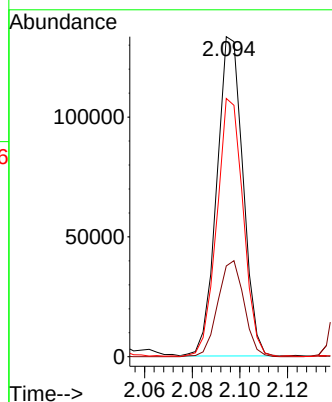
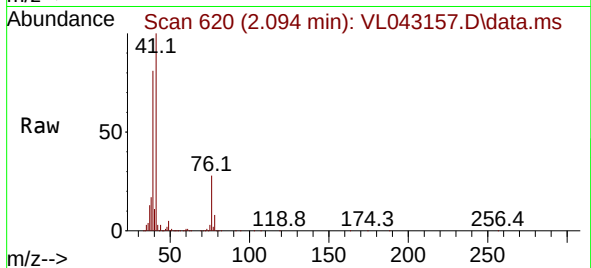
#21
 Allyl Chloride
 Concen: 9.210 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

Tgt Ion: 41 Resp: 101879
 Ion Ratio Lower Upper
 41 100
 76 30.0 21.5 32.3
 39 81.2 60.8 91.2

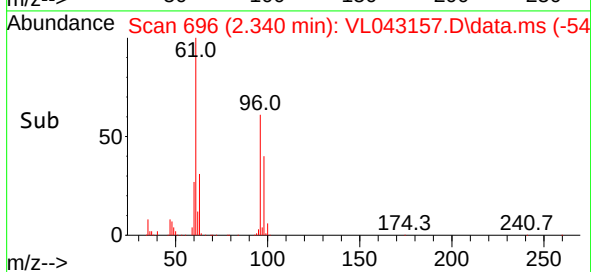
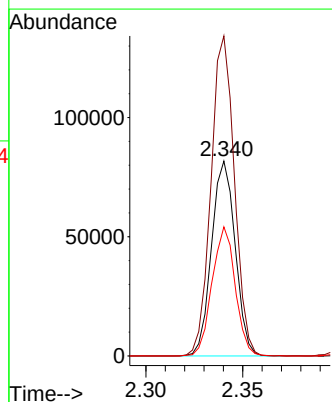
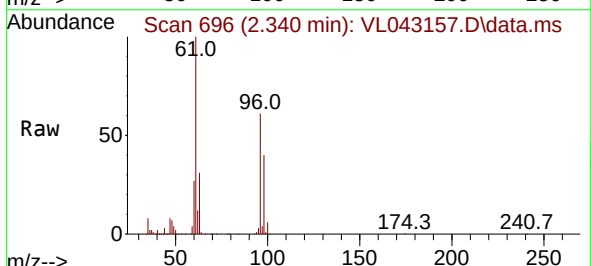
Manual Integrations
 APPROVED

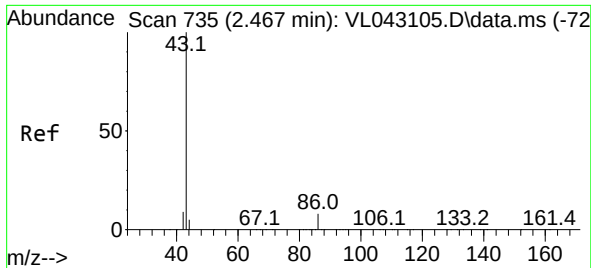
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#22
 trans-1,2-Dichloroethene
 Concen: 10.665 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

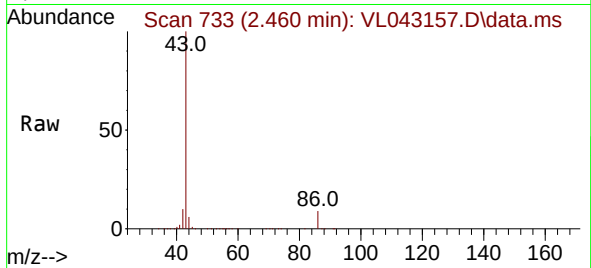
Tgt Ion: 96 Resp: 69305
 Ion Ratio Lower Upper
 96 100
 61 164.1 137.0 205.6
 98 66.3 45.5 68.3





#23
 Vinyl Acetate
 Concen: 10.556 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.007 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

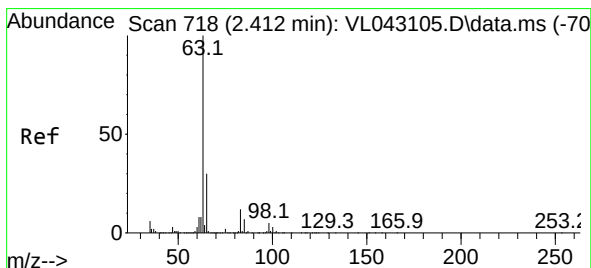
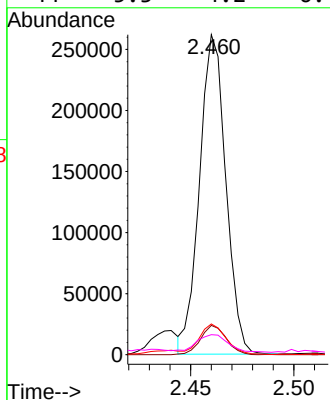
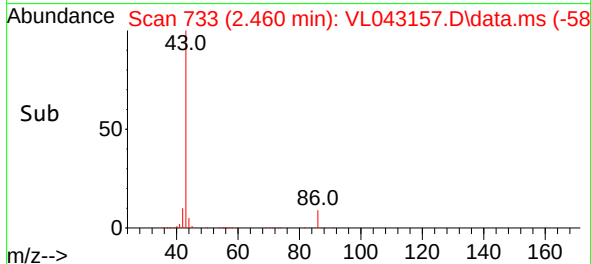
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01



Tgt Ion: 43 Resp: 232125
 Ion Ratio Lower Upper
 43 100
 86 9.2 6.2 9.2
 42 9.5 7.6 11.4
 44 5.3 4.2 6.4

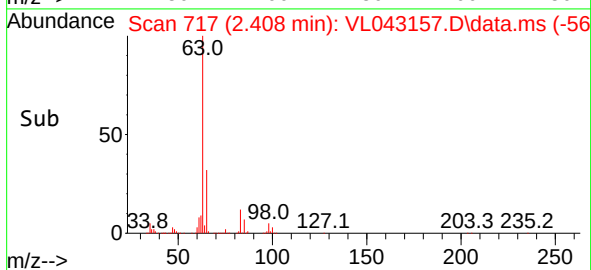
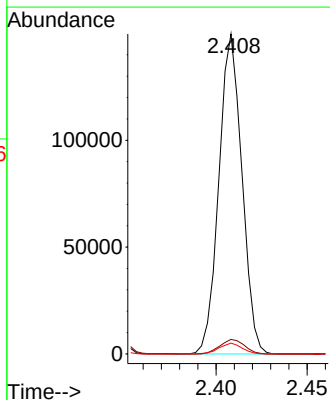
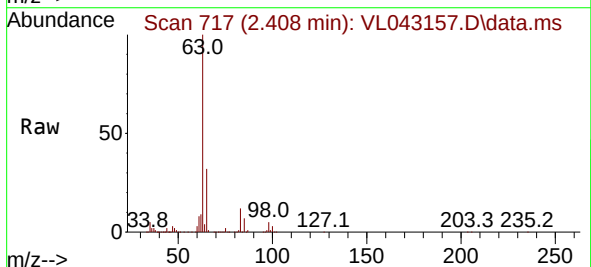
Manual Integrations
 APPROVED

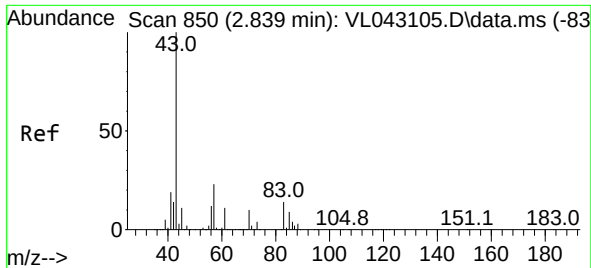
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#24
 1,1-Dichloroethane
 Concen: 10.482 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

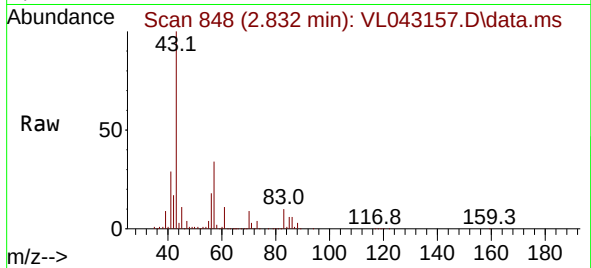
Tgt Ion: 63 Resp: 131599
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.6 7.8
 100 3.4 1.5 4.4





#25
Ethyl Acetate
Concen: 9.513 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

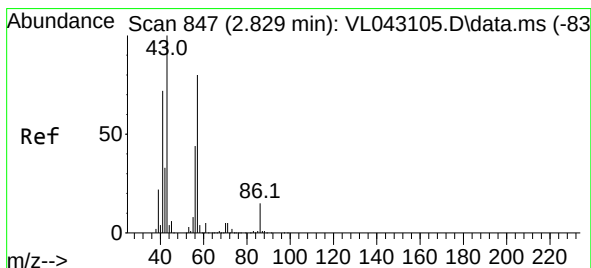
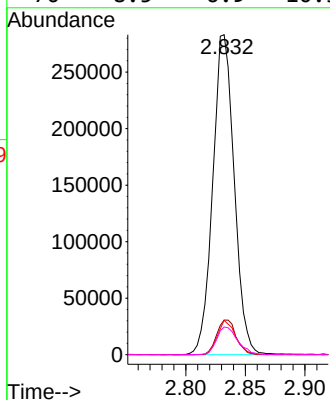
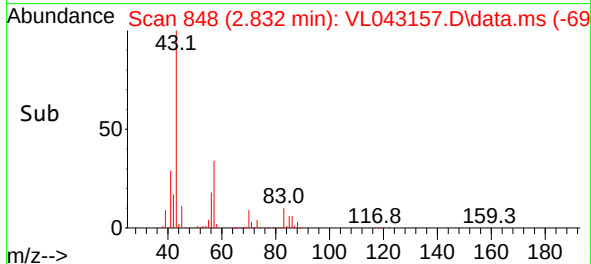
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion: 43 Resp: 35415
Ion Ratio Lower Upper
43 100
45 9.9 7.8 11.8
61 9.0 7.0 10.6
70 8.5 6.9 10.3

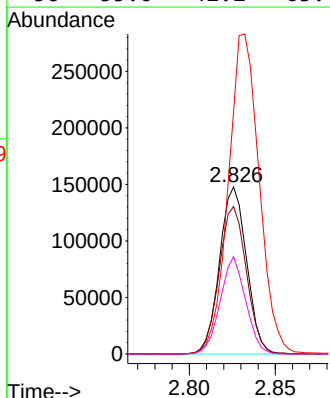
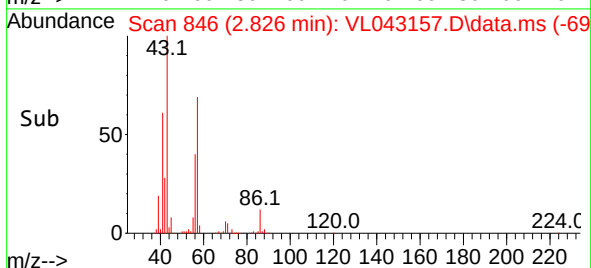
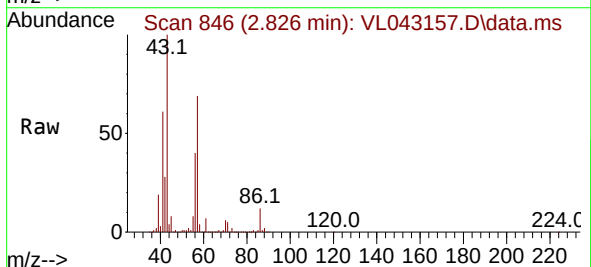
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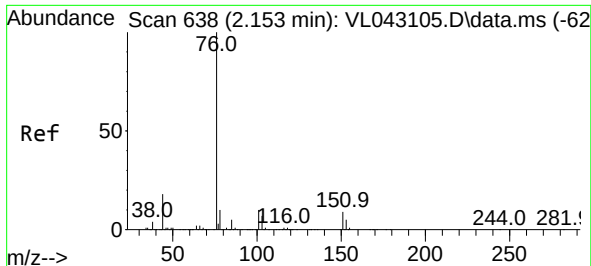
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#26
Hexane
Concen: 9.387 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 57 Resp: 161029
Ion Ratio Lower Upper
57 100
41 90.3 71.4 107.0
43 220.2 178.5 267.7
56 55.0 42.2 63.4





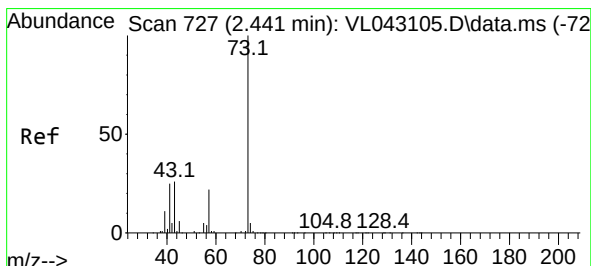
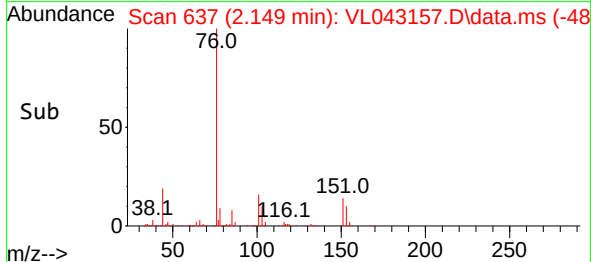
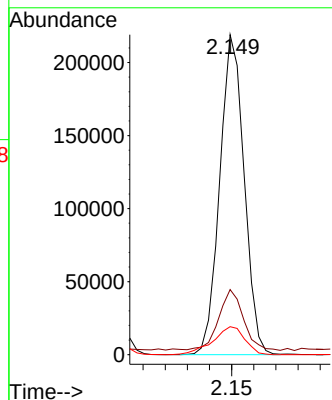
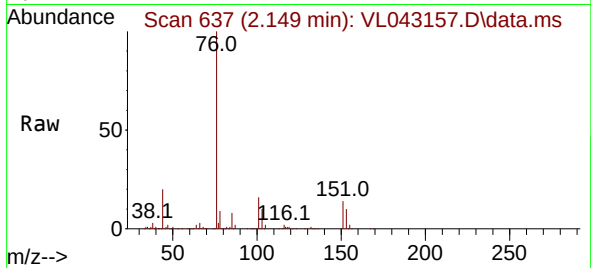
#27
Carbon Disulfide
Concen: 10.672 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 76 Resp: 16773
Ion Ratio Lower Upper
76 100
44 19.4 16.7 25.1
78 11.4 9.3 13.9

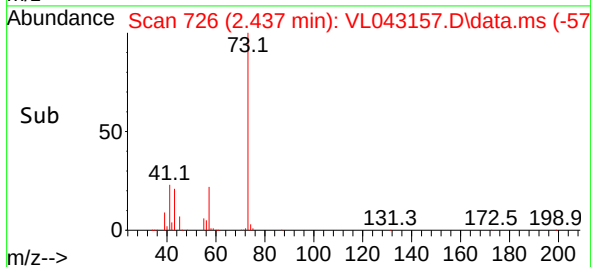
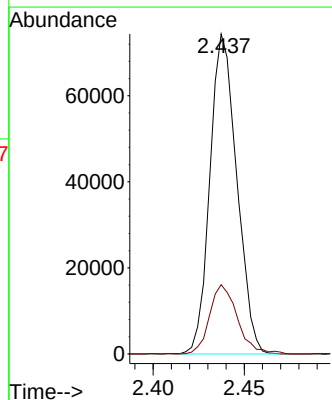
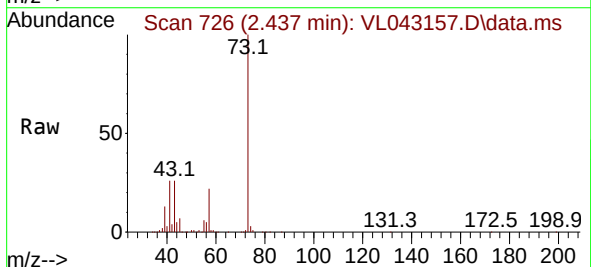
Manual Integrations
APPROVED

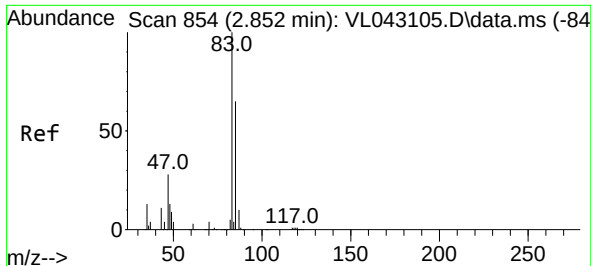
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#28
Methyl tert-Butyl Ether
Concen: 9.775 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 73 Resp: 76290
Ion Ratio Lower Upper
73 100
57 22.4 20.5 30.7





#29

Chloroform

Concen: 10.958 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

VL1106ABS01

Tgt Ion: 83 Resp: 27237

Ion Ratio Lower Upper

83 100

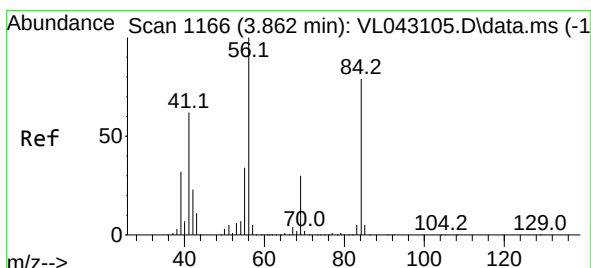
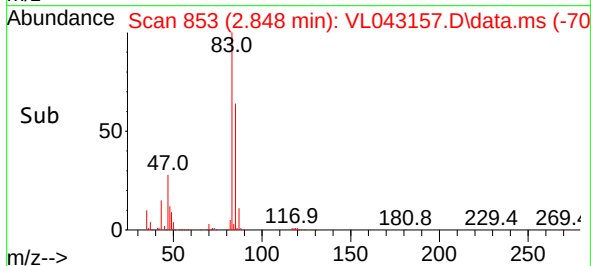
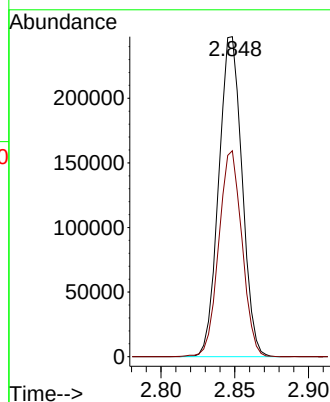
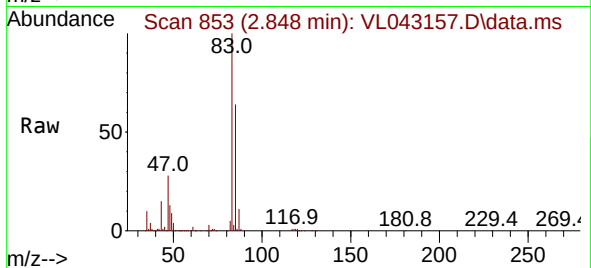
85 64.3 51.8 77.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#30

Cyclohexane

Concen: 9.287 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

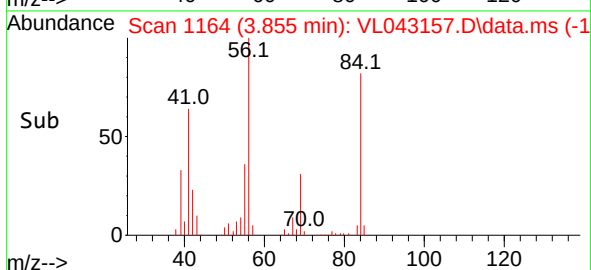
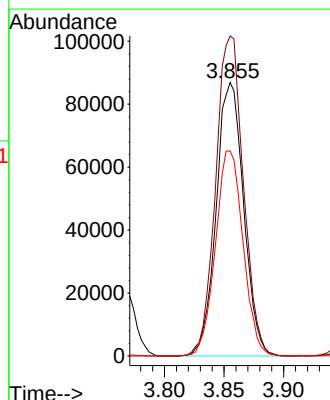
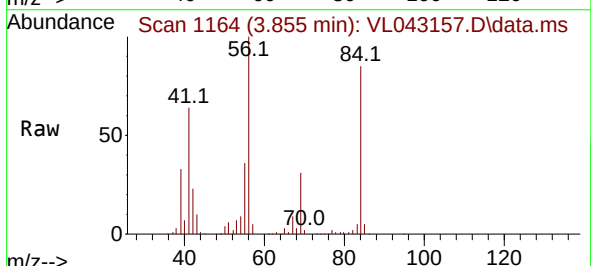
Tgt Ion: 84 Resp: 139050

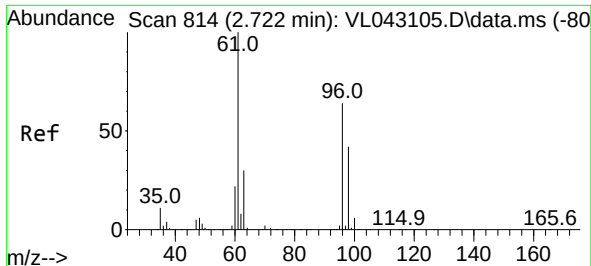
Ion Ratio Lower Upper

84 100

56 118.3 100.9 151.3

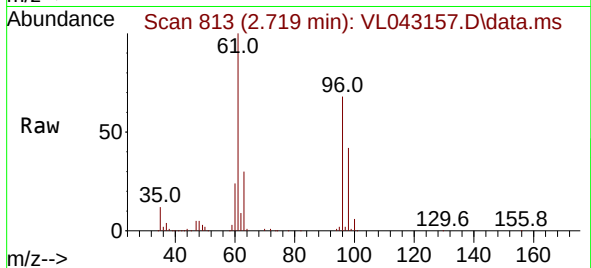
41 75.6 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 10.456 ppbv
 RT: 2.719 min Scan# 814
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

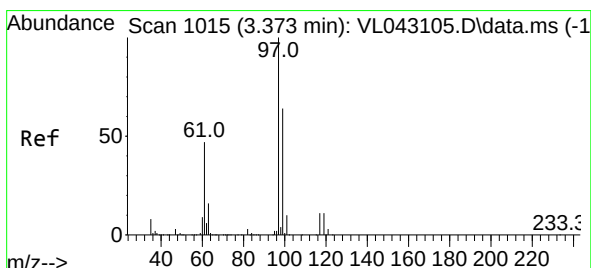
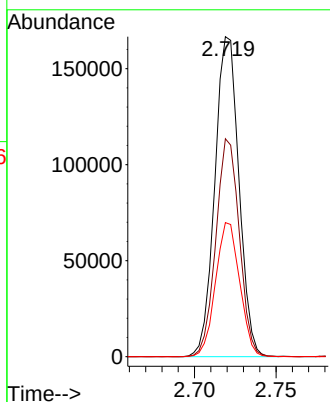
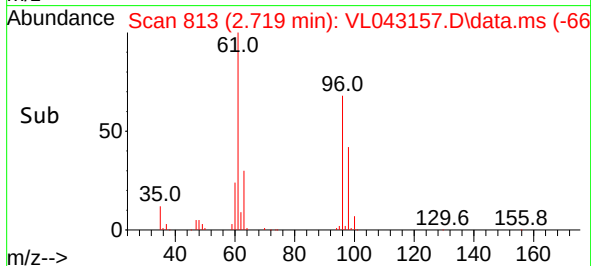
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01



Tgt Ion: 61 Resp: 171279
 Ion Ratio Lower Upper
 61 100
 96 68.1 51.0 76.6
 98 41.9 33.5 50.3

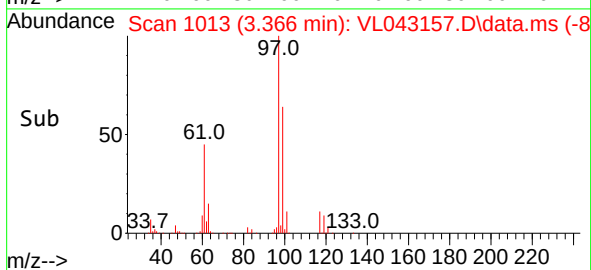
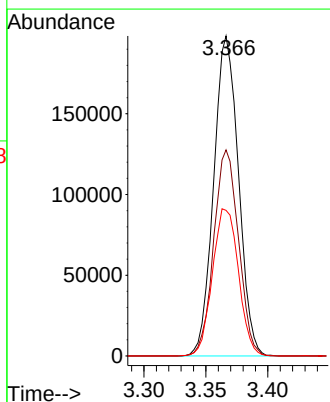
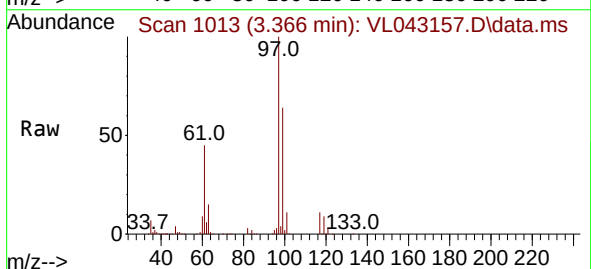
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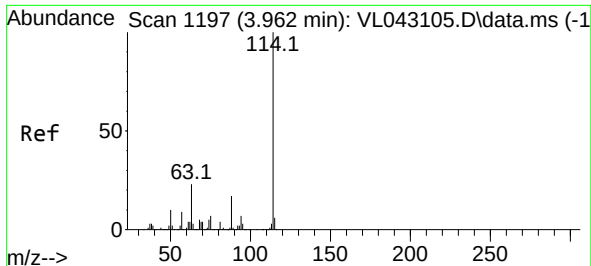
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#32
 1,1,1-Trichloroethane
 Concen: 10.684 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.007 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 97 Resp: 276541
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.3 76.9
 61 48.4 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

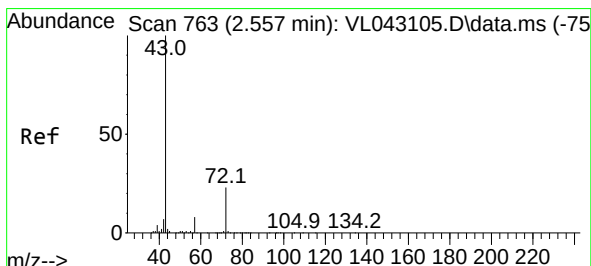
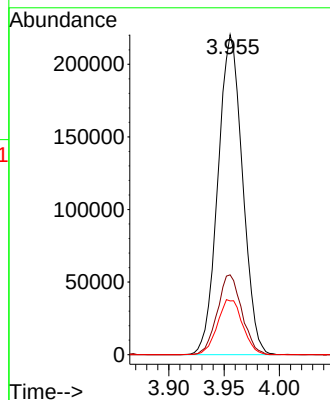
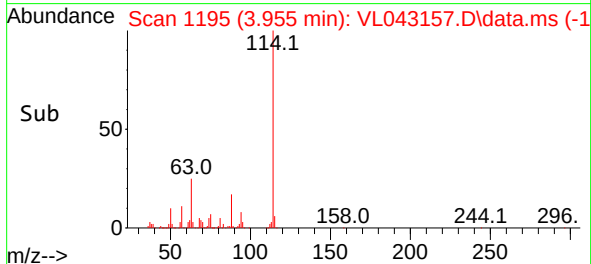
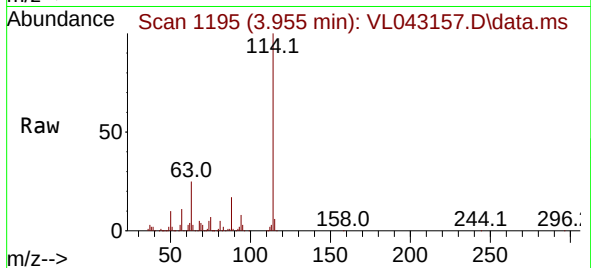
VL1106ABS01

Tgt Ion:	114	Resp:	34058
Ion Ratio	Lower	Upper	
114	100		
63	24.9	19.3	28.9
88	17.6	13.9	20.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#34

2-Butanone

Concen: 10.367 ppbv

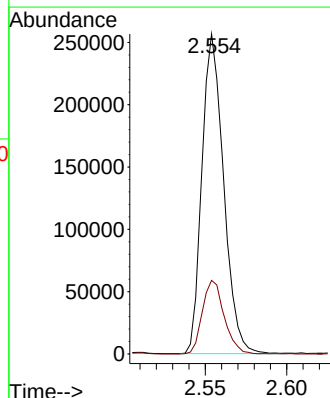
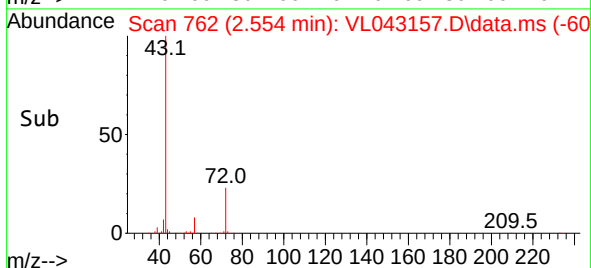
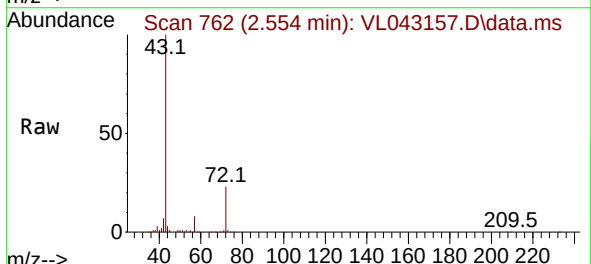
RT: 2.554 min Scan# 762

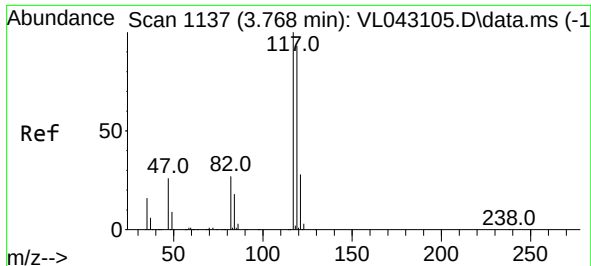
Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

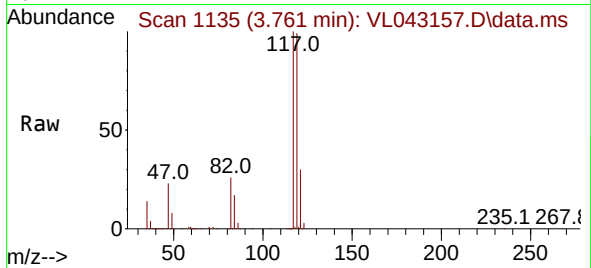
Tgt Ion:	43	Resp:	237347
Ion Ratio	Lower	Upper	
43	100		
72	23.2	18.4	27.6





#35
Carbon Tetrachloride
Concen: 11.806 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

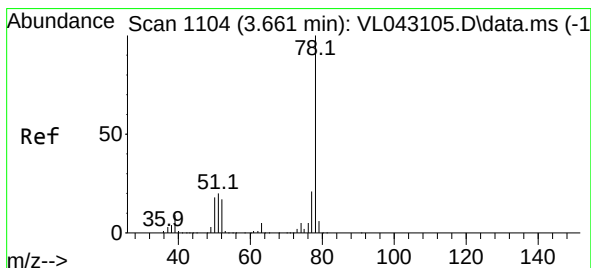
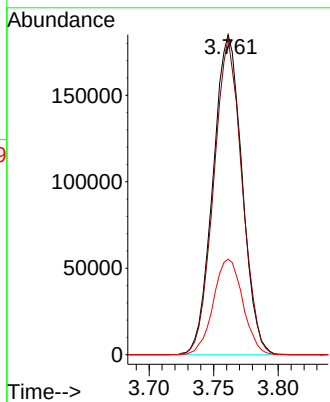
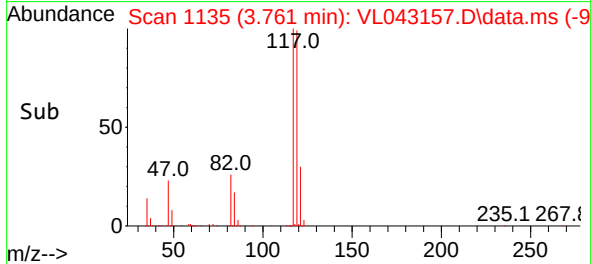
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion:117 Resp: 289090
Ion Ratio Lower Upper
117 100
119 98.9 74.1 111.1
121 29.9 22.2 33.2

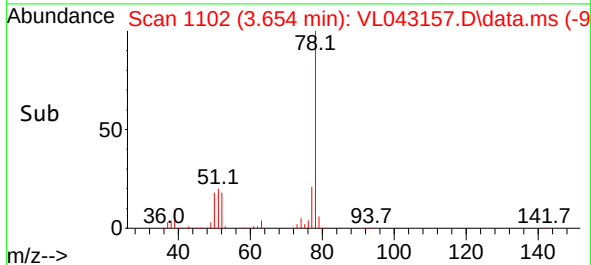
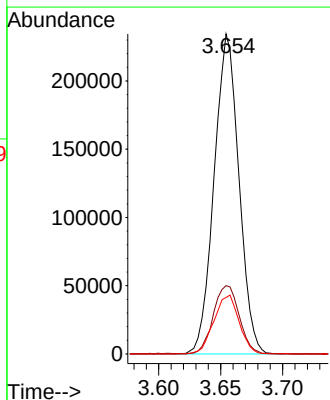
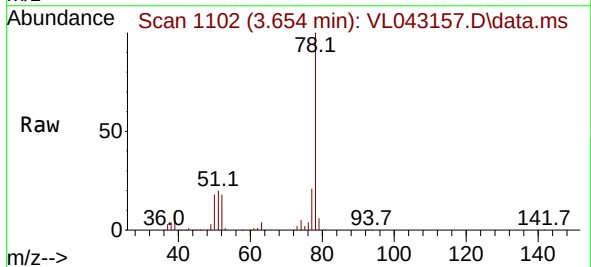
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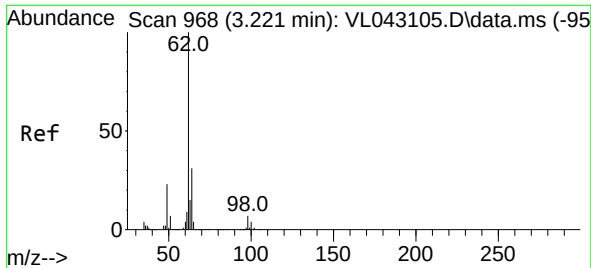
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#36
Benzene
Concen: 10.193 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 78 Resp: 326982
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 17.6 14.6 22.0





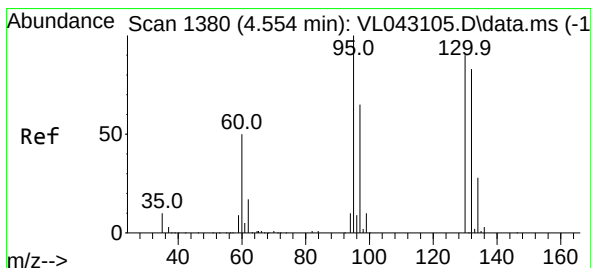
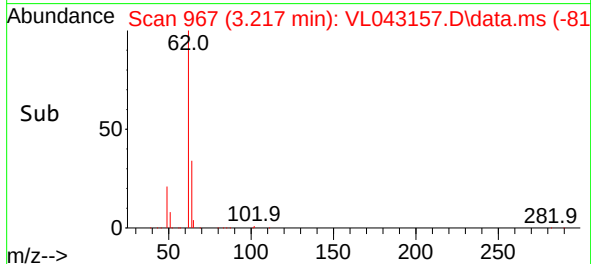
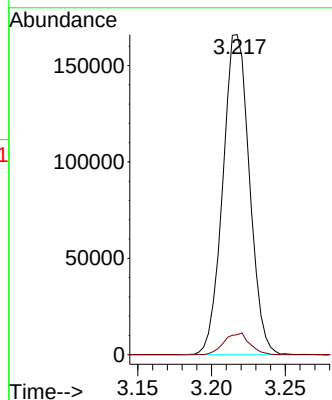
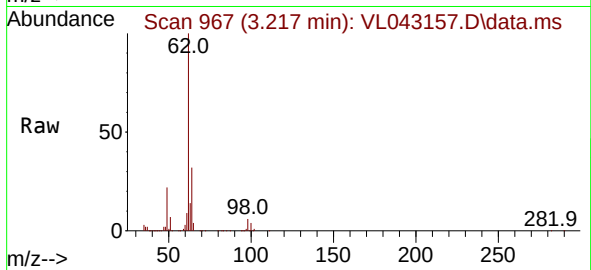
#37
1,2-Dichloroethane
Concen: 11.281 ppbv
RT: 3.217 min Scan# 90
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 62 Resp: 208468
Ion Ratio Lower Upper
62 100
98 6.5 5.8 8.6

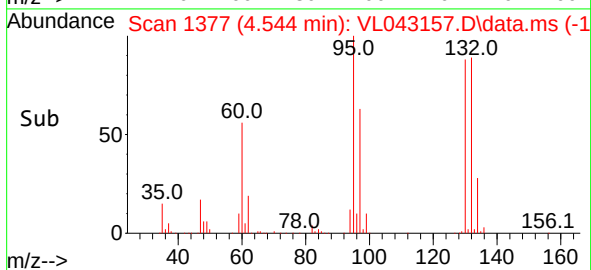
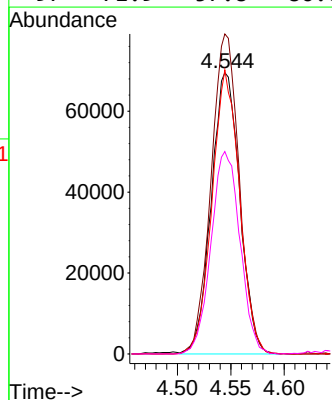
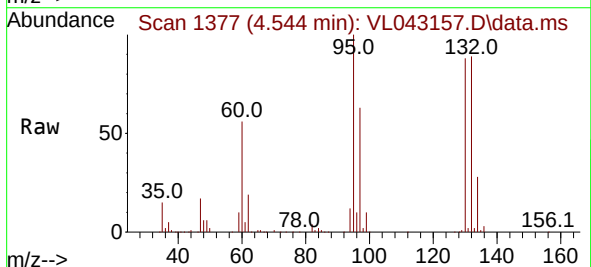
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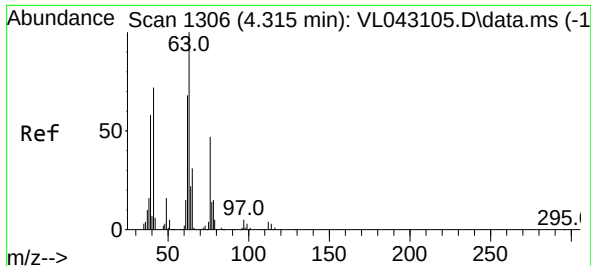
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#38
Trichloroethene
Concen: 9.632 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:130 Resp: 129044
Ion Ratio Lower Upper
130 100
95 113.7 88.6 133.0
132 100.9 73.4 110.0
97 71.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.991 ppbv

RT: 4.308 min Scan# 117160

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

VL1106ABS01

Tgt Ion: 63 Resp: 117160

Ion Ratio Lower Upper

63 100

41 79.8 58.0 87.0

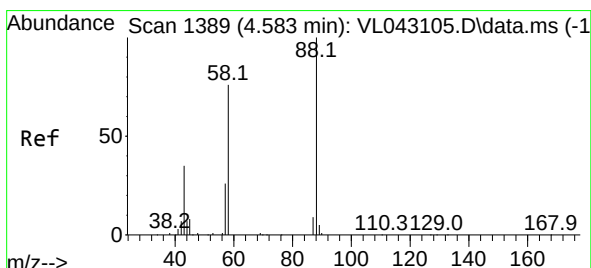
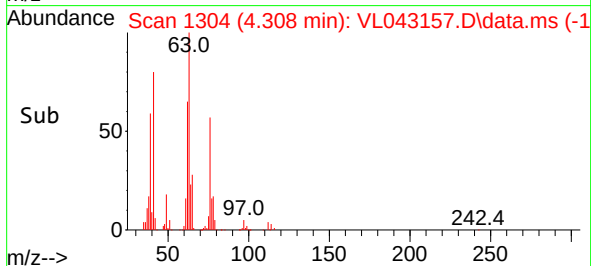
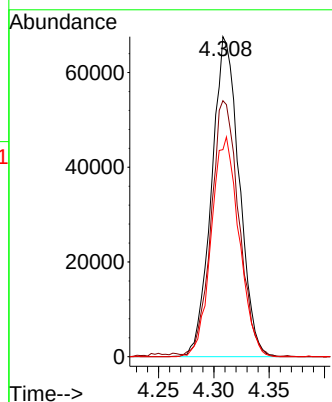
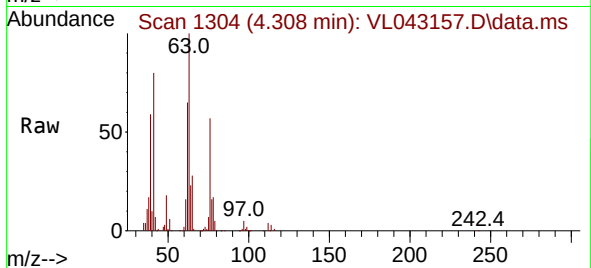
62 64.7 54.7 82.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#40

1,4-Dioxane

Concen: 9.428 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion: 88 Resp: 49474

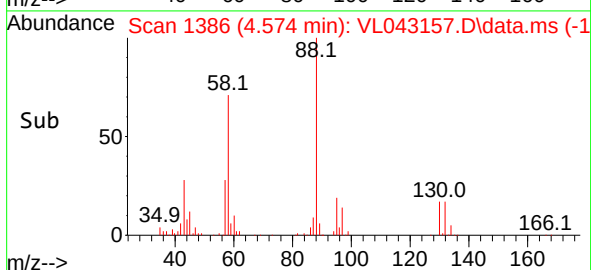
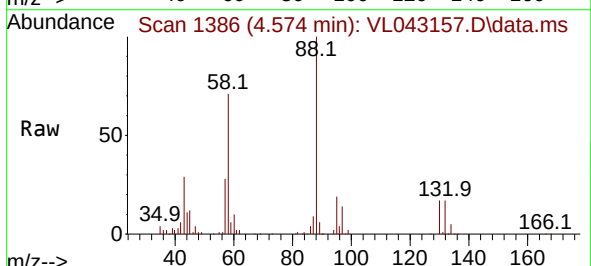
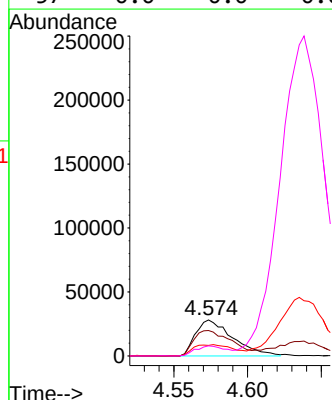
Ion Ratio Lower Upper

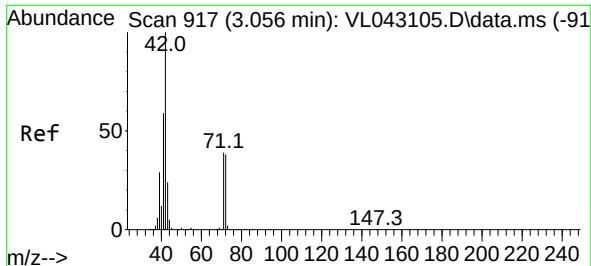
88 100

58 74.4 61.1 91.7

43 35.1 24.0 36.0

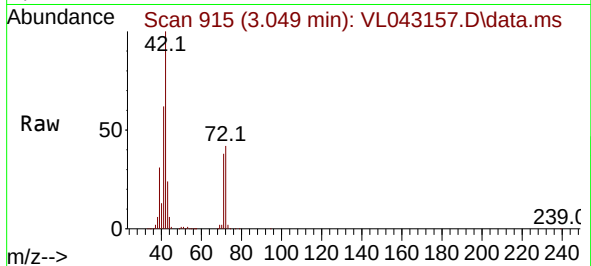
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.265 ppbv
RT: 3.049 min Scan# 917
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

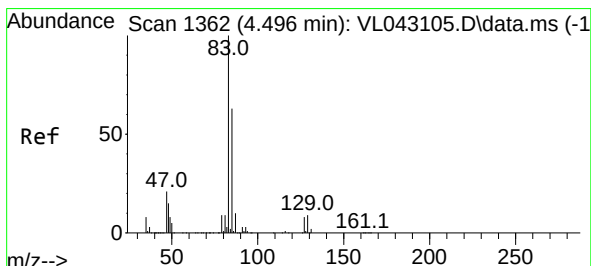
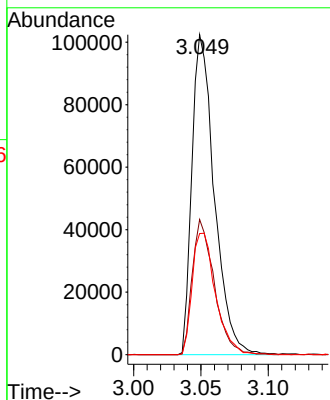
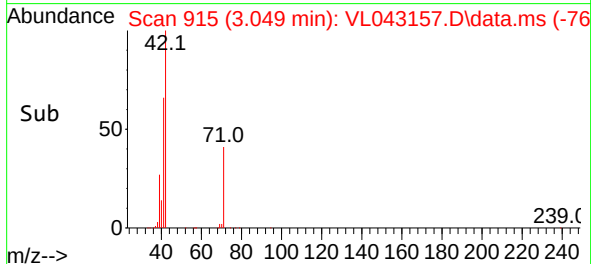
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion: 42 Resp: 11863
Ion Ratio Lower Upper
42 100
72 41.6 31.3 46.9
71 39.6 30.4 45.6

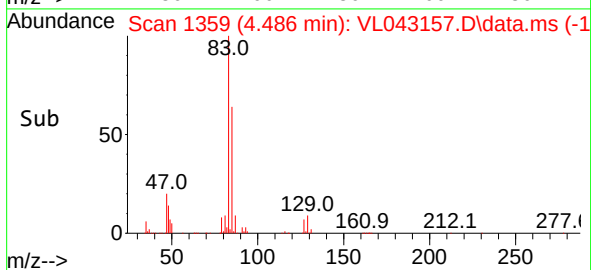
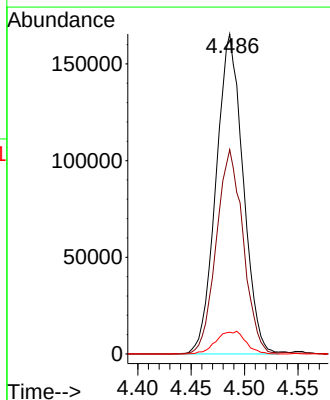
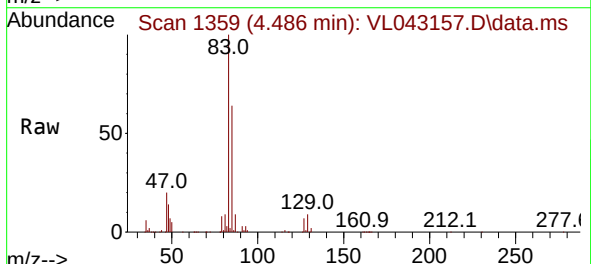
Manual Integrations
APPROVED

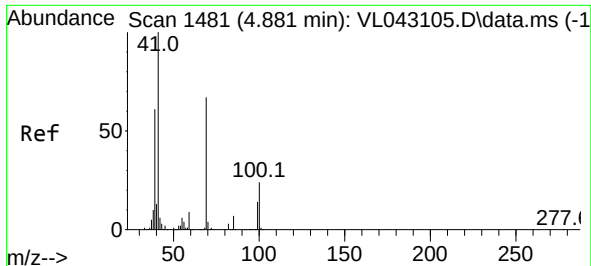
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#42
Bromodichloromethane
Concen: 11.387 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

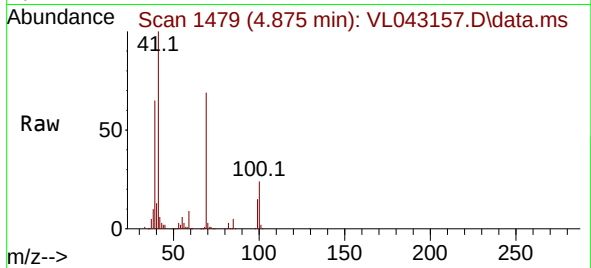
Tgt Ion: 83 Resp: 291226
Ion Ratio Lower Upper
83 100
85 63.8 50.6 75.8
127 6.8 6.3 9.5





#43
Methyl Methacrylate
Concen: 9.821 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

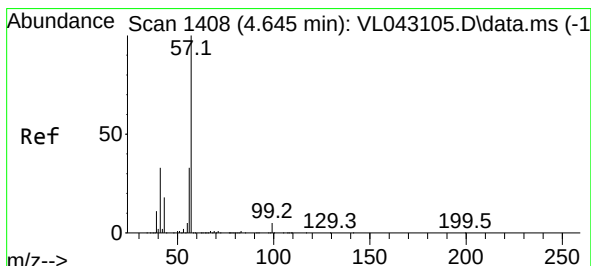
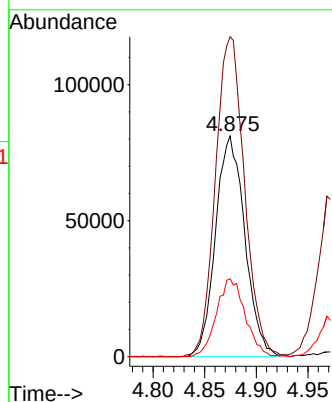
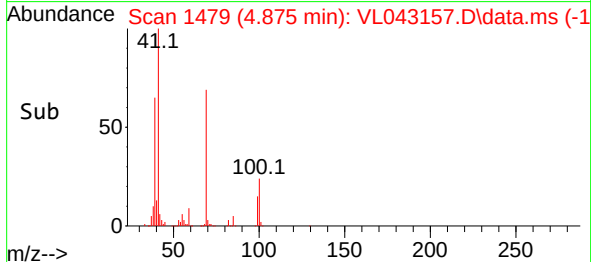
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion: 69 Resp: 160012
Ion Ratio Lower Upper
69 100
41 143.7 120.5 180.7
100 34.6 29.0 43.4

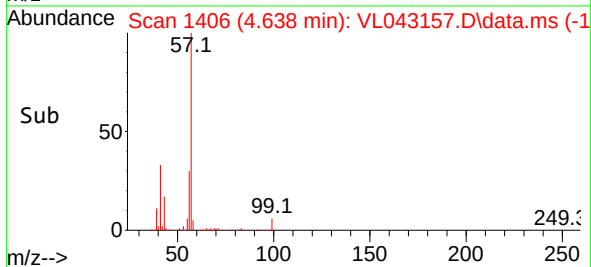
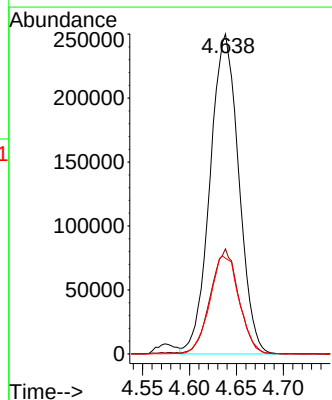
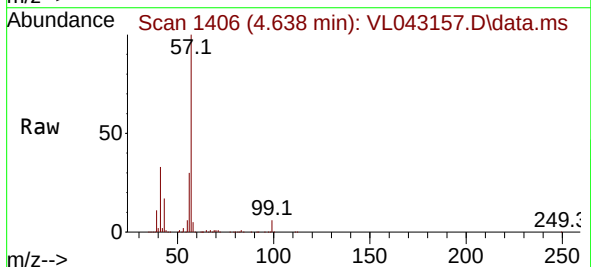
Manual Integrations
APPROVED

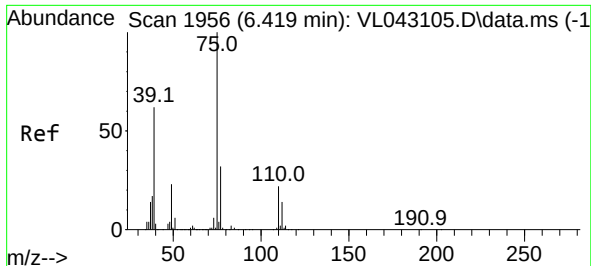
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#44
2,2,4-Trimethylpentane
Concen: 9.828 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 57 Resp: 531922
Ion Ratio Lower Upper
57 100
41 32.6 26.3 39.5
56 31.6 25.9 38.9





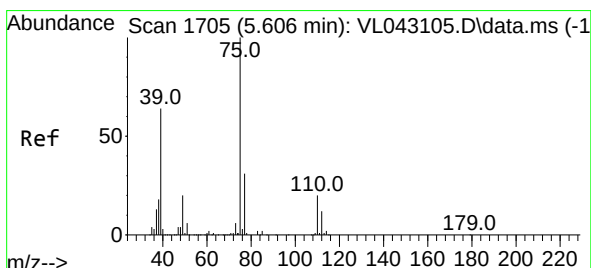
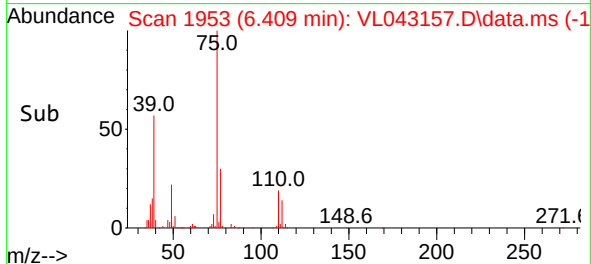
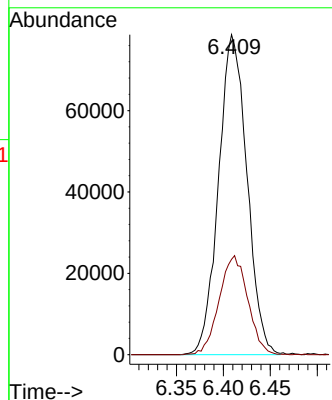
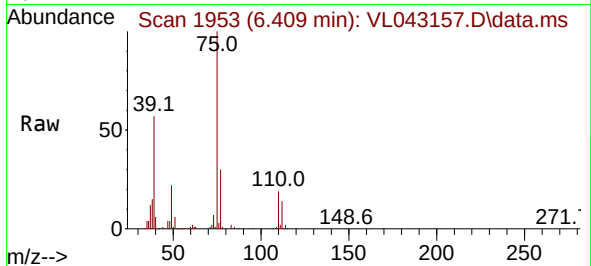
#45
t-1,3-Dichloropropene
Concen: 10.111 ppbv
RT: 6.409 min Scan# 1956
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument : MSVOA_L
ClientSampleId : VL1106ABS01

Tgt Ion: 75 Resp: 165310
Ion Ratio Lower Upper
75 100
77 29.8 25.4 38.2

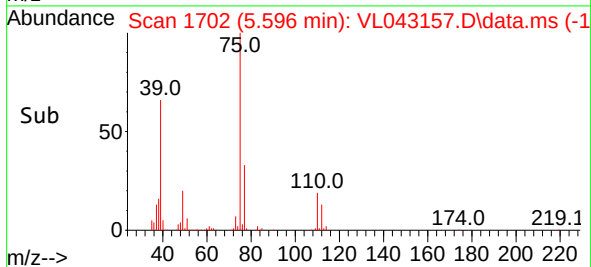
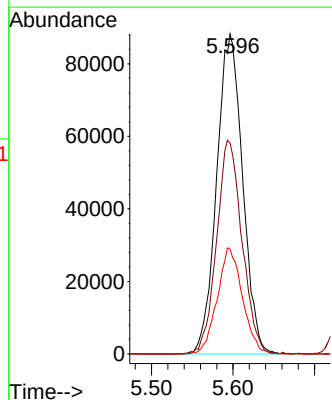
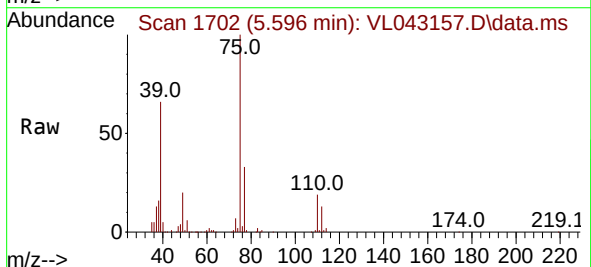
Manual Integrations
APPROVED

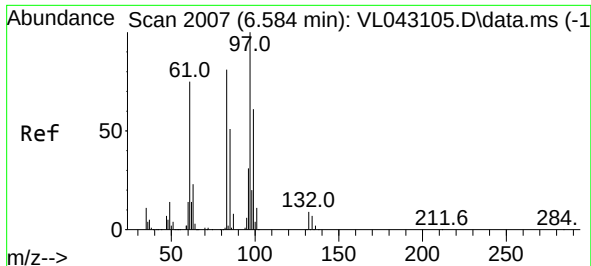
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#46
cis-1,3-Dichloropropene
Concen: 10.001 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

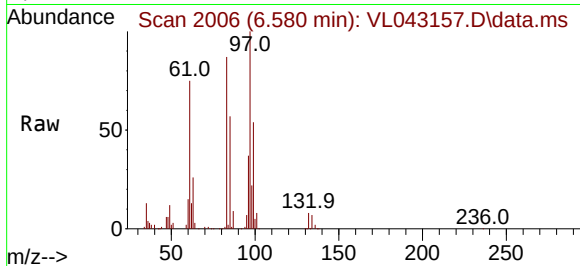
Tgt Ion: 75 Resp: 195336
Ion Ratio Lower Upper
75 100
39 65.7 51.0 76.6
77 32.7 25.0 37.4





#47
1,1,2-Trichloroethane
Concen: 10.270 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

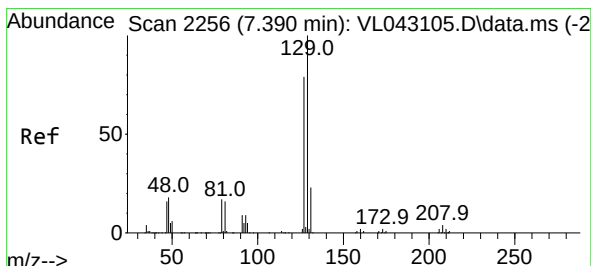
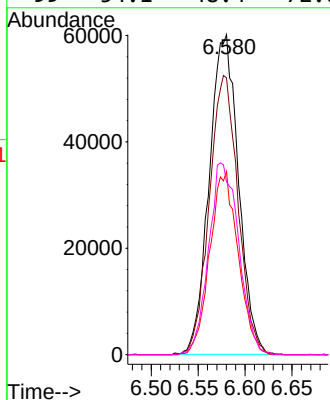
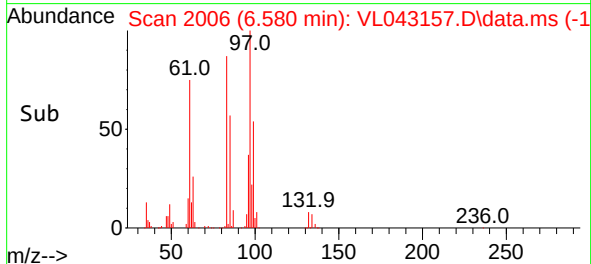
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion: 97 Resp: 130064
Ion Ratio Lower Upper
97 100
83 86.4 64.6 96.8
85 57.4 40.6 60.8
99 54.1 48.4 72.6

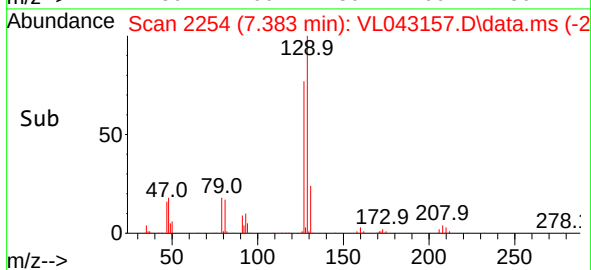
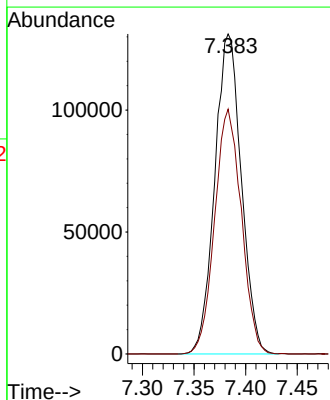
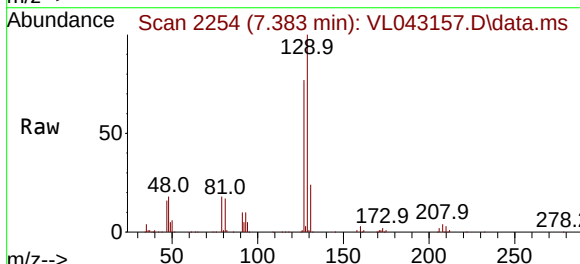
Manual Integrations
APPROVED

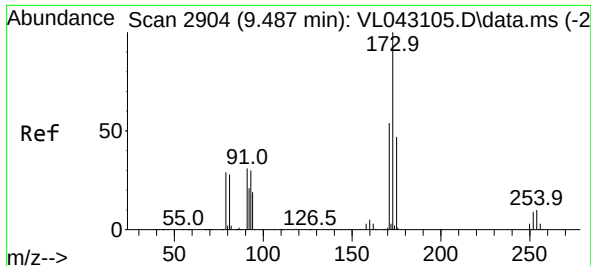
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#48
Dibromochloromethane
Concen: 11.091 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:129 Resp: 234841
Ion Ratio Lower Upper
129 100
127 76.8 39.3 117.9





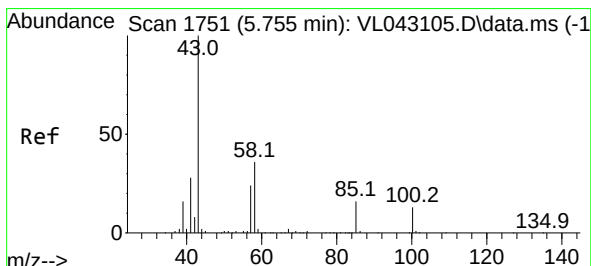
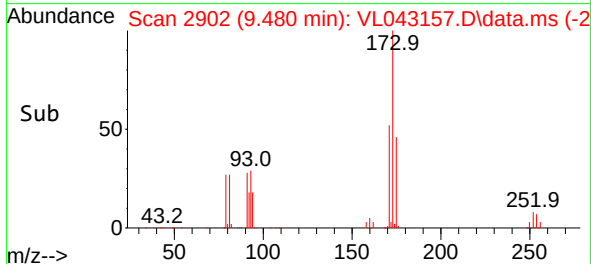
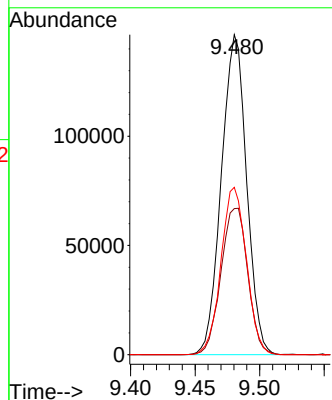
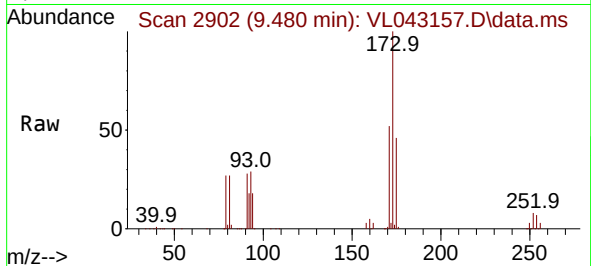
#49
Bromoform
Concen: 11.573 ppbv
RT: 9.480 min Scan# 2904
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument : MSVOA_L
ClientSampleId : VL1106ABS01

Tgt Ion:173 Resp: 199190
Ion Ratio Lower Upper
173 100
175 48.7 38.8 58.2
171 52.7 41.7 62.5

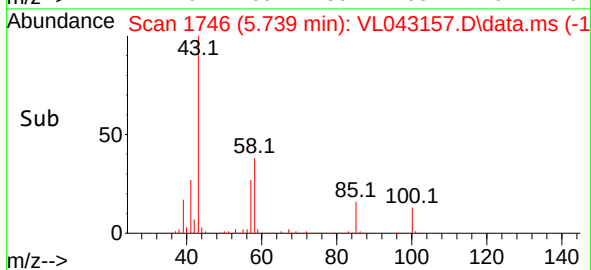
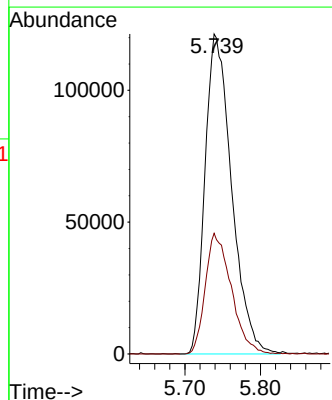
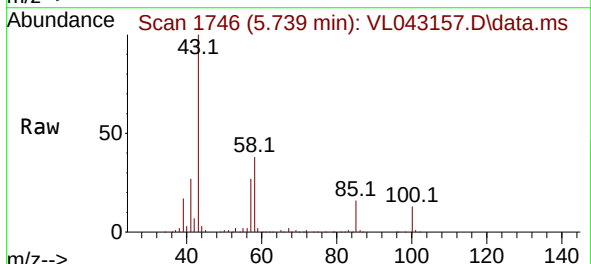
Manual Integrations
APPROVED

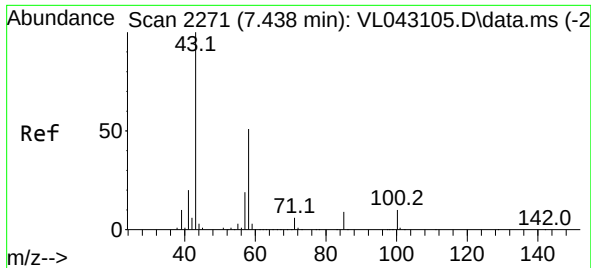
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#50
4-Methyl-2-Pentanone
Concen: 9.361 ppbv
RT: 5.739 min Scan# 1746
Delta R.T. -0.016 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 43 Resp: 295763
Ion Ratio Lower Upper
43 100
58 36.9 29.1 43.7





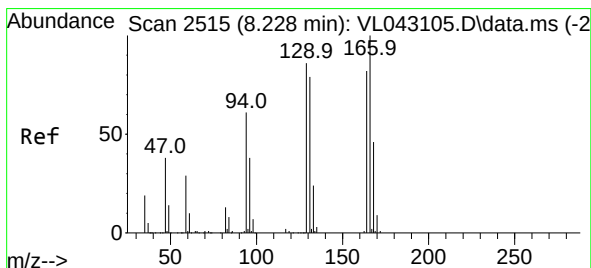
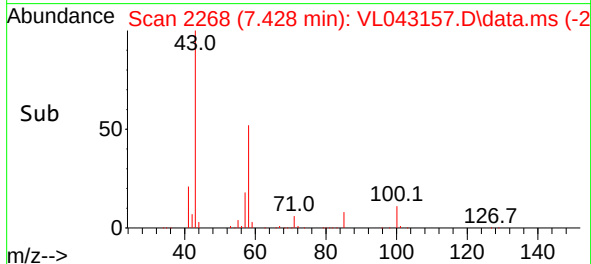
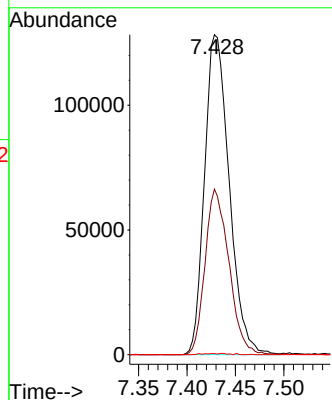
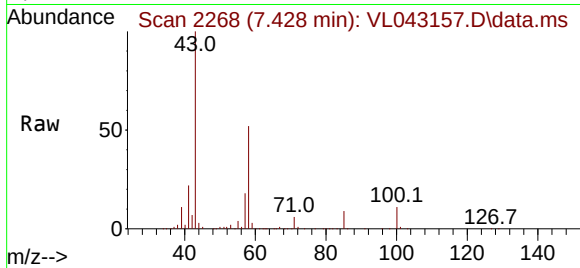
#51
2-Hexanone
Concen: 9.599 ppbv
RT: 7.428 min Scan# 2274
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 43 Resp: 22747
Ion Ratio Lower Upper
43 100
58 50.1 40.4 60.6
98 0.4 0.1 0.1

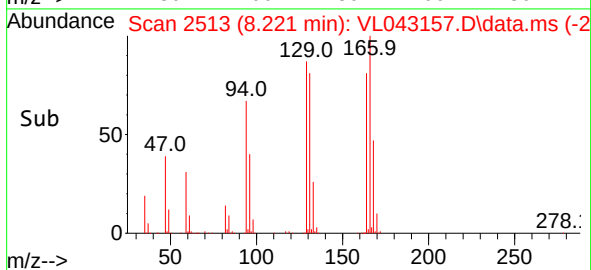
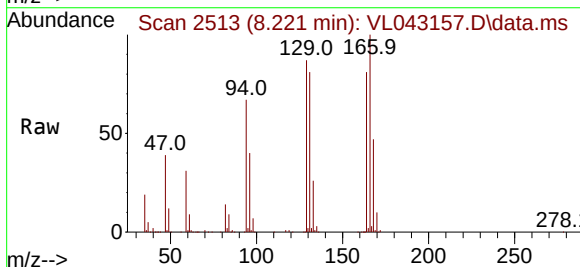
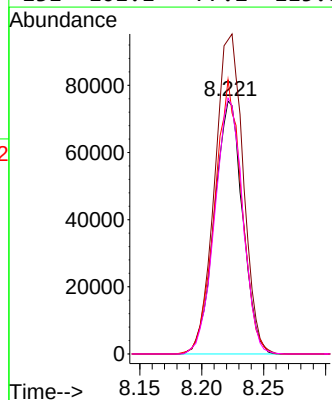
Manual Integrations
APPROVED

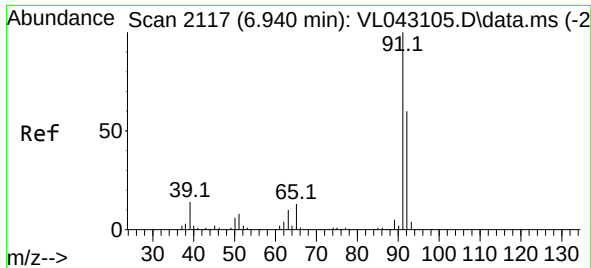
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#52
Tetrachloroethene
Concen: 10.312 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:164 Resp: 119279
Ion Ratio Lower Upper
164 100
166 124.1 97.6 146.4
129 108.3 84.5 126.7
131 101.1 77.2 115.8





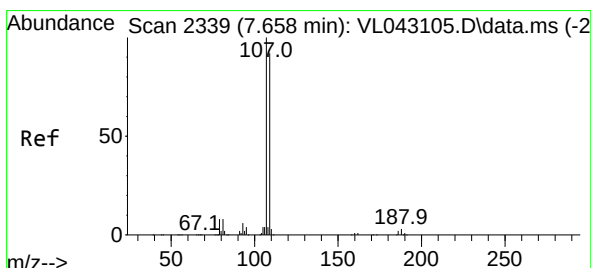
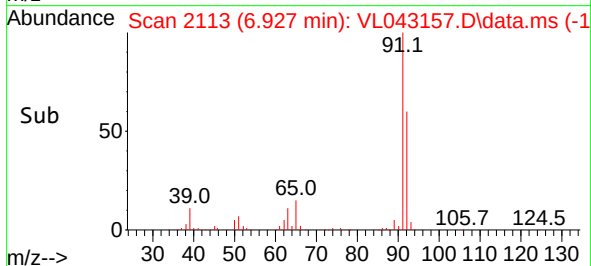
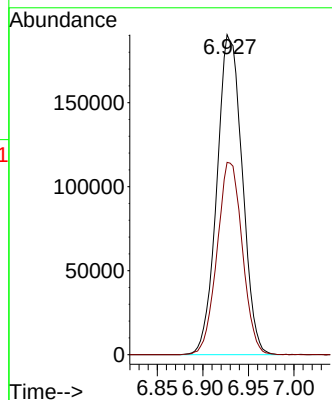
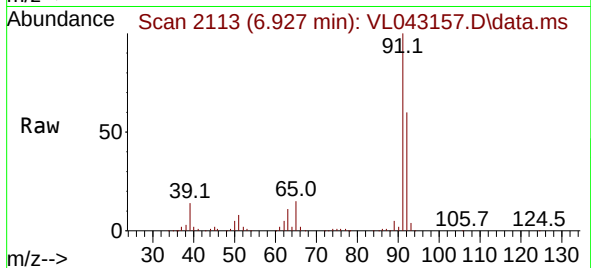
#53
Toluene
Concen: 9.679 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.013 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 91 Resp: 36848
Ion Ratio Lower Upper
91 100
92 59.9 48.8 73.2

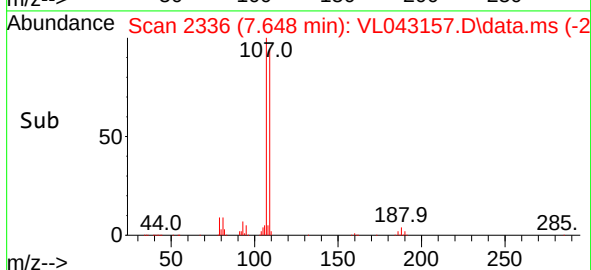
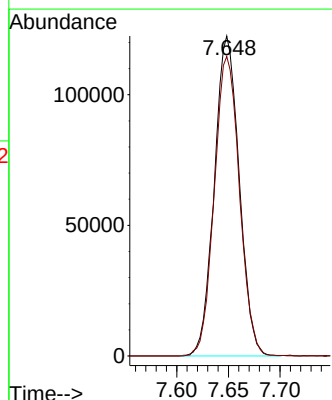
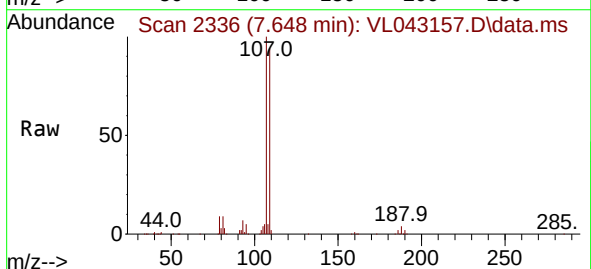
Manual Integrations
APPROVED

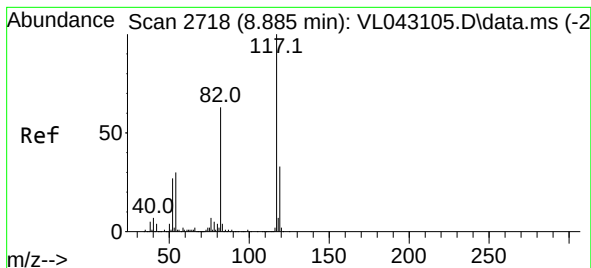
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#54
1,2-Dibromoethane
Concen: 10.345 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:107 Resp: 205210
Ion Ratio Lower Upper
107 100
109 93.6 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

VL1106ABS01

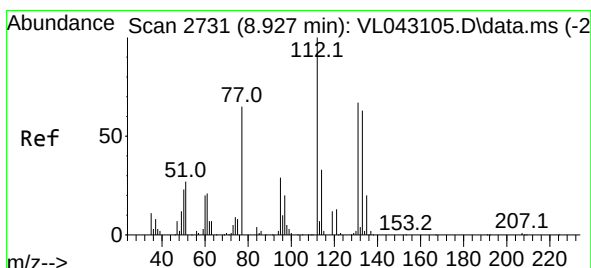
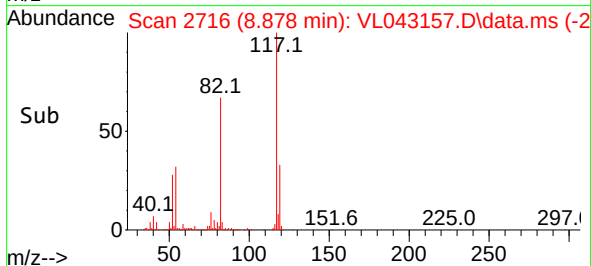
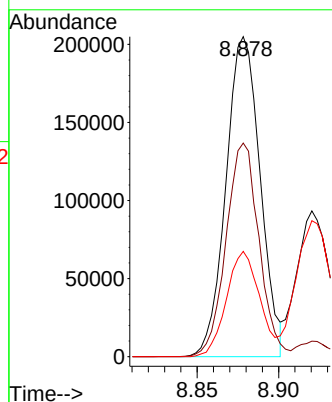
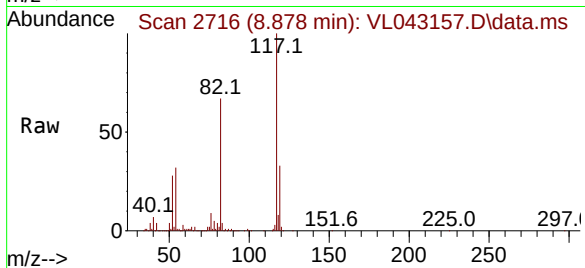
Tgt Ion:117 Resp: 299520

Ion	Ratio	Lower	Upper
117	100		
82	68.6	53.8	80.8
119	30.9	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 11.314 ppbv

RT: 8.920 min Scan# 2729

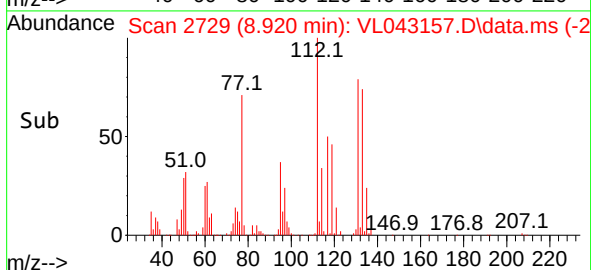
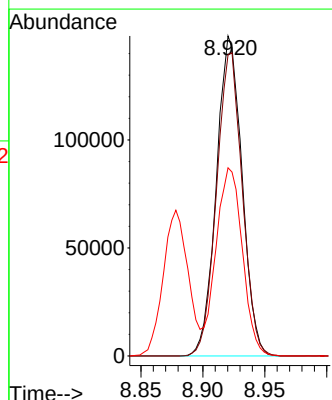
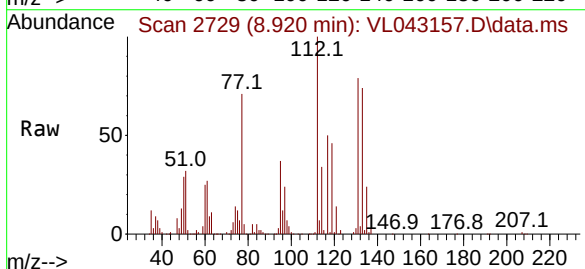
Delta R.T. -0.007 min

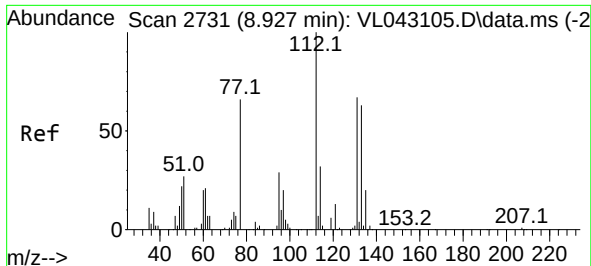
Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion:131 Resp: 213620

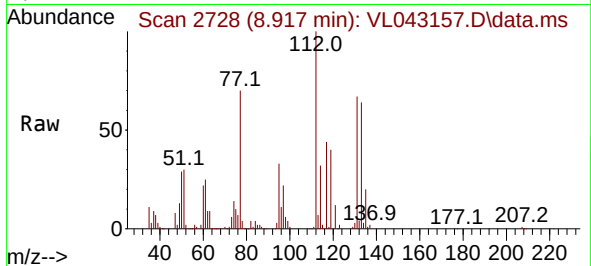
Ion	Ratio	Lower	Upper
131	100		
133	95.0	75.7	113.5
119	60.9	50.6	76.0





#57
Chlorobenzene
Concen: 10.219 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

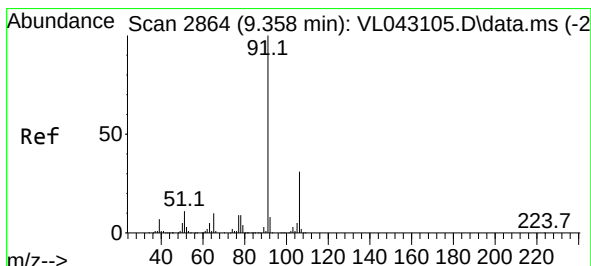
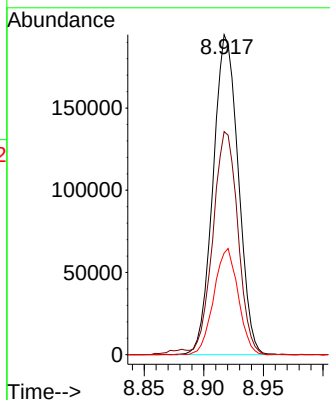
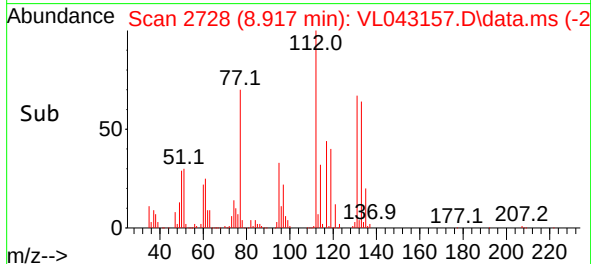
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion: 112 Resp: 28634
Ion Ratio Lower Upper
112 100
77 69.7 53.3 79.9
114 31.7 29.3 35.8

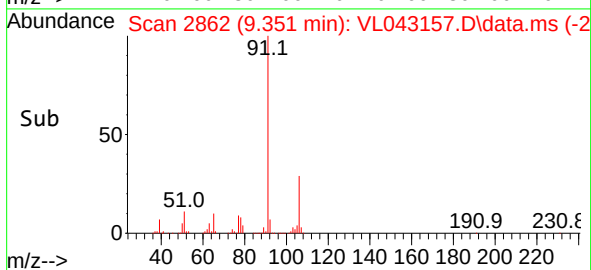
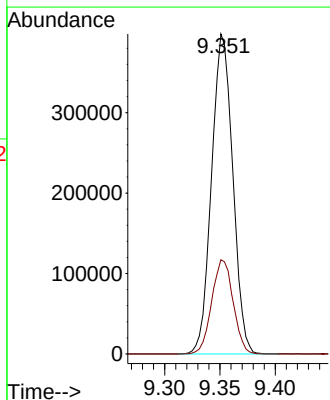
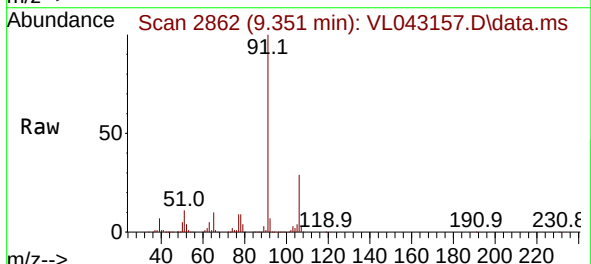
Manual Integrations
APPROVED

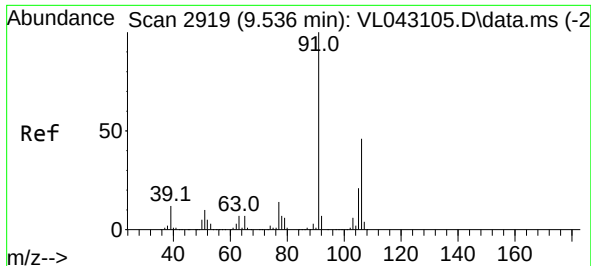
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#58
Ethyl Benzene
Concen: 10.307 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 529847
Ion Ratio Lower Upper
91 100
106 29.4 24.8 37.2





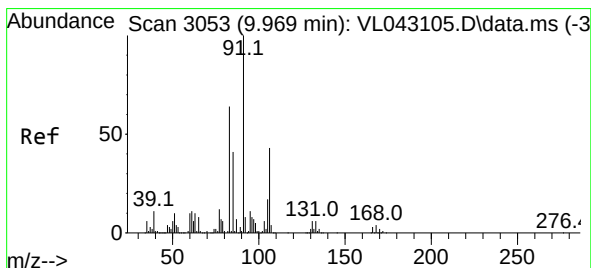
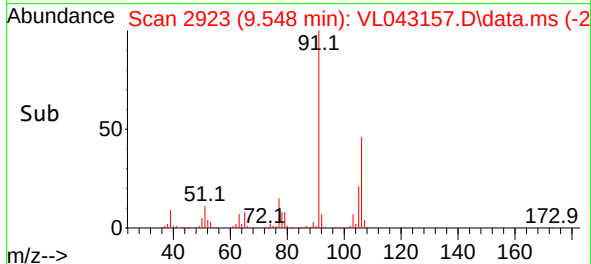
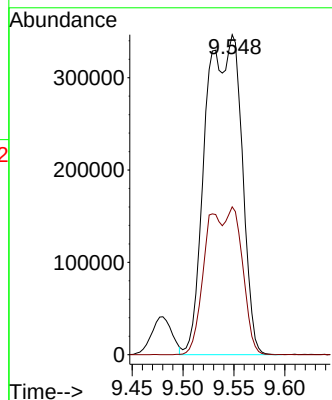
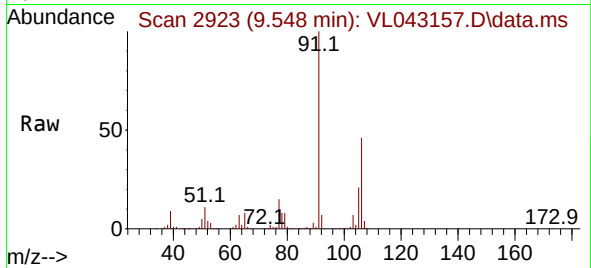
#59
m/p-Xylene
Concen: 20.888 ppbv m
RT: 9.548 min Scan# 2919
Delta R.T. 0.013 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 91 Resp: 85642
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

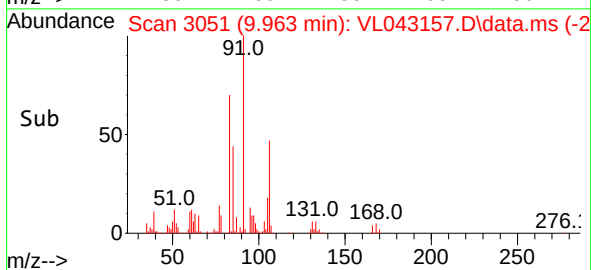
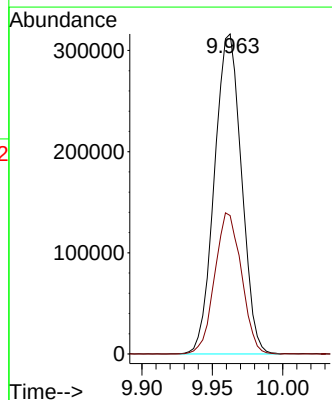
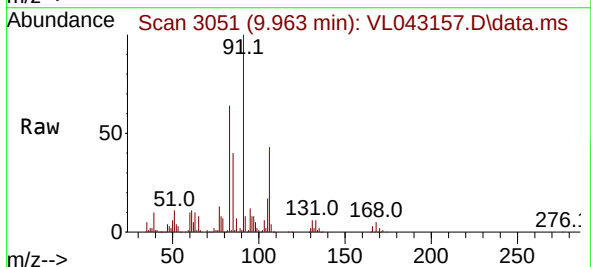
Manual Integrations
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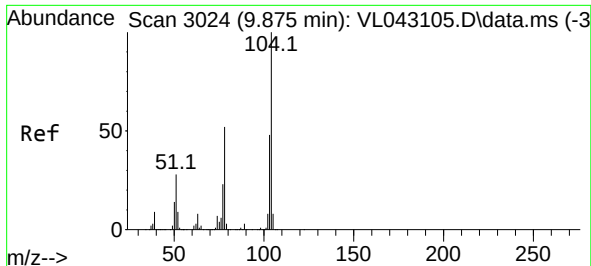
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#60
o-Xylene
Concen: 10.442 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 422838
Ion Ratio Lower Upper
91 100
106 43.6 21.9 65.8





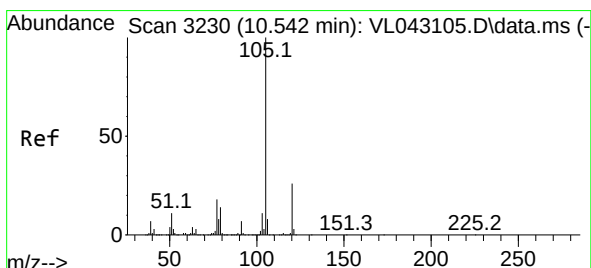
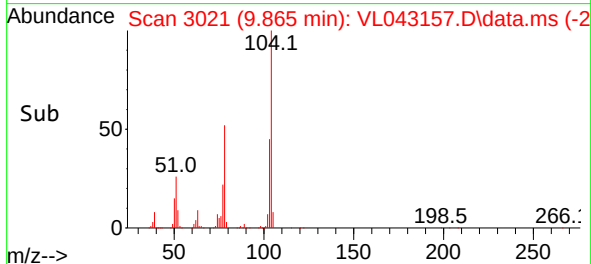
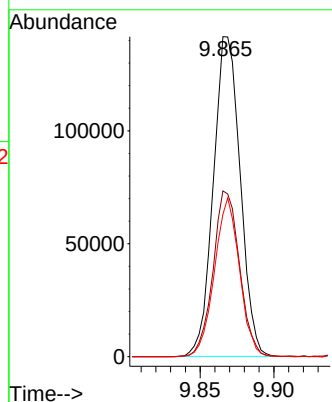
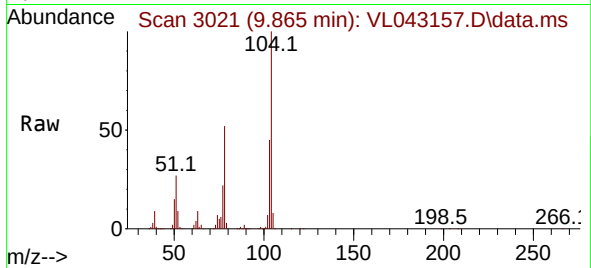
#61
Styrene
Concen: 9.802 ppbv
RT: 9.865 min Scan# 3024
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion:104 Resp: 17919
Ion Ratio Lower Upper
104 100
78 51.2 40.2 60.2
103 46.3 36.9 55.3

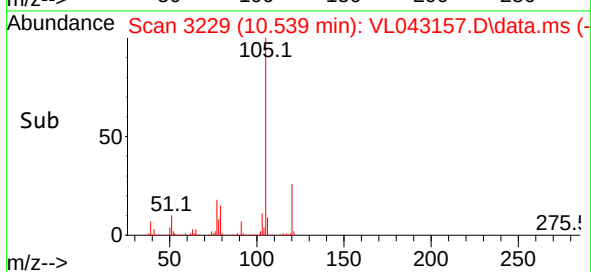
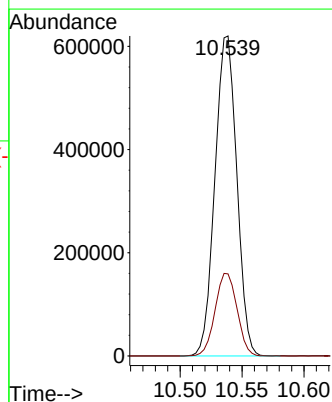
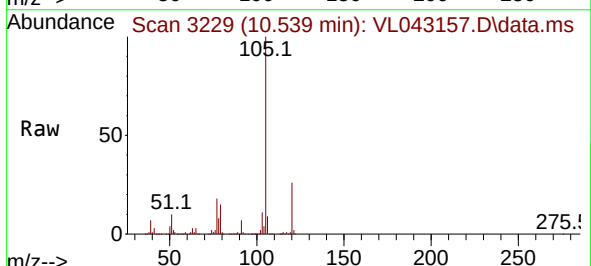
Manual Integrations
APPROVED

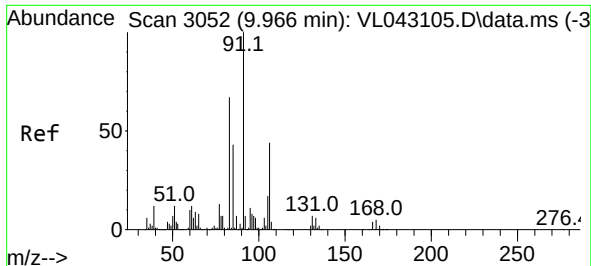
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#62
Isopropylbenzene
Concen: 10.416 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 762154
Ion Ratio Lower Upper
105 100
120 25.9 20.2 30.4





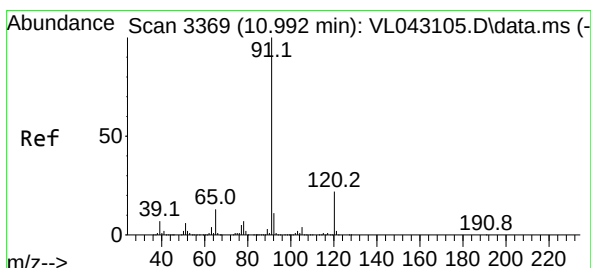
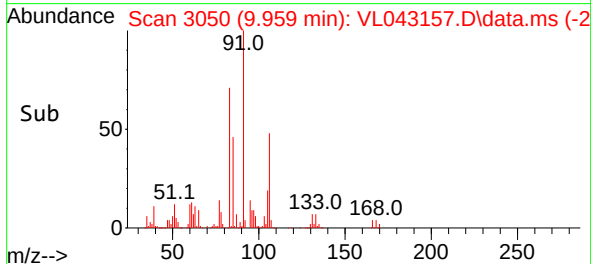
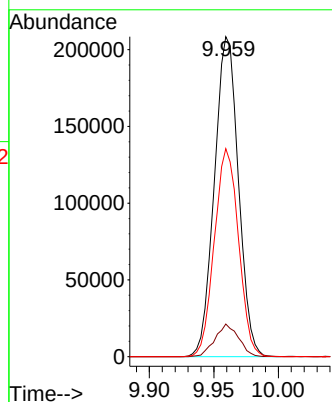
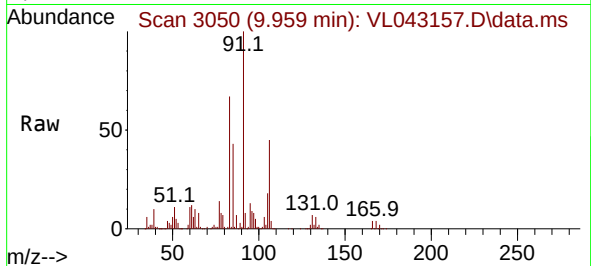
#63
1,1,2,2-Tetrachloroethane
Concen: 9.947 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 83 Resp: 26972
Ion Ratio Lower Upper
83 100
131 10.0 4.8 14.3
85 65.2 32.0 96.0

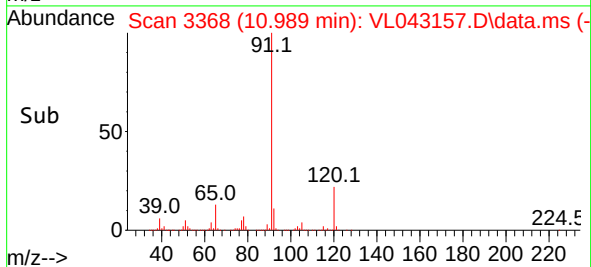
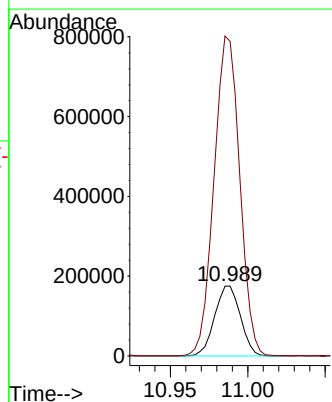
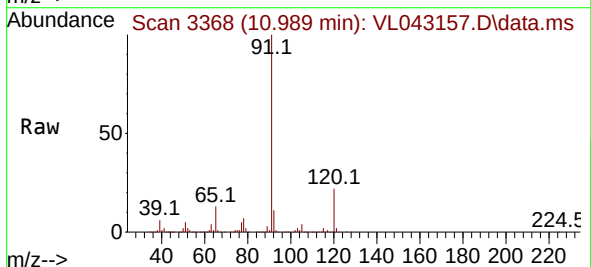
Manual Integrations
APPROVED

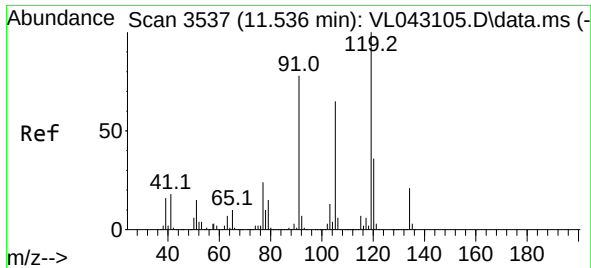
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#64
n-propylbenzene
Concen: 10.424 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

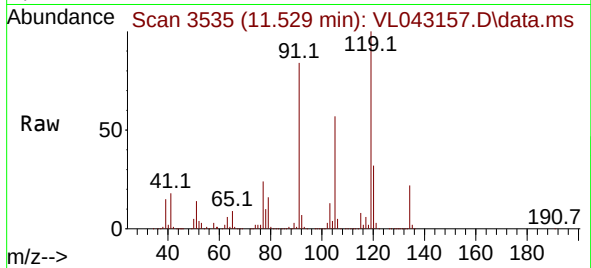
Tgt Ion:120 Resp: 201938
Ion Ratio Lower Upper
120 100
91 458.0 361.6 542.4





#65
tert-Butylbenzene
Concen: 10.254 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

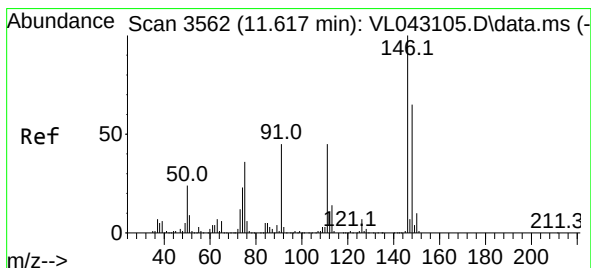
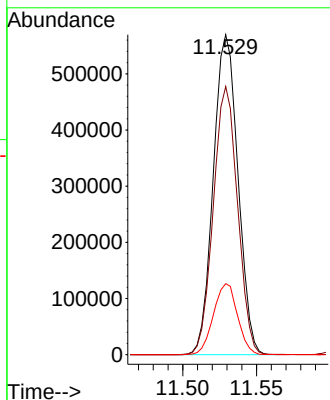
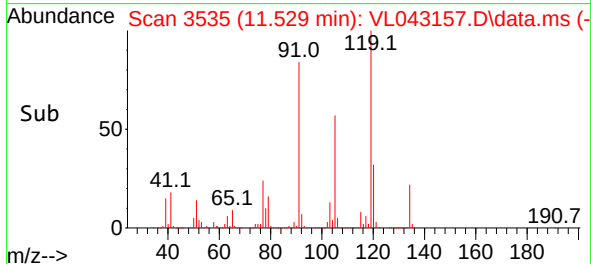
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



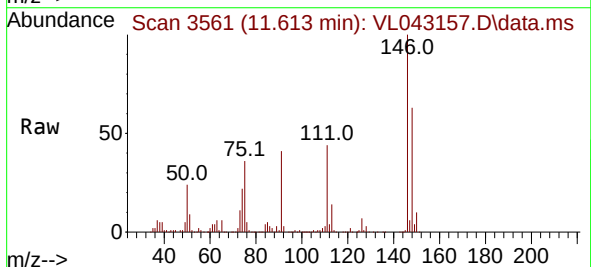
Tgt Ion:119 Resp: 662570
Ion Ratio Lower Upper
119 100
91 82.4 63.4 95.0
134 21.7 17.3 25.9

Manual Integrations
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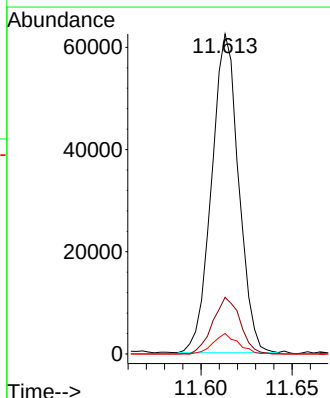
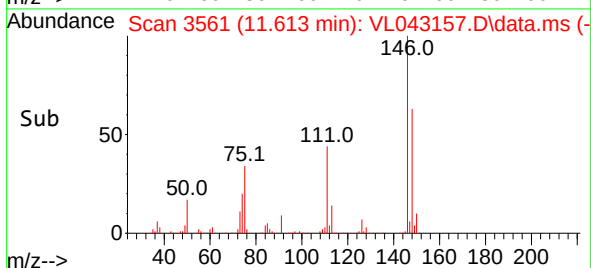
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

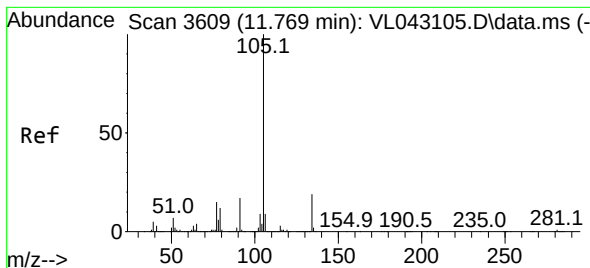


#66
Benzyl Chloride
Concen: 8.935 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45



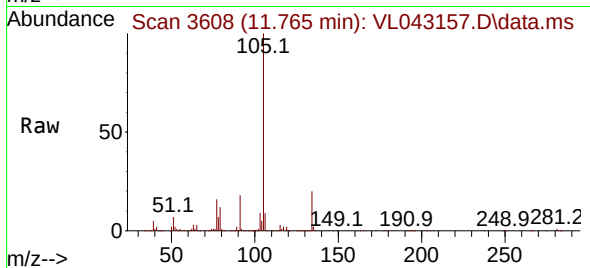
Tgt Ion: 91 Resp: 64257
Ion Ratio Lower Upper
91 100
126 18.0 14.6 22.0
128 5.9 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 10.438 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

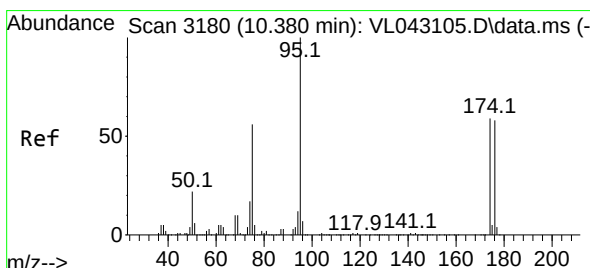
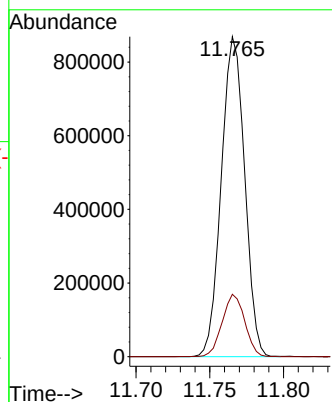
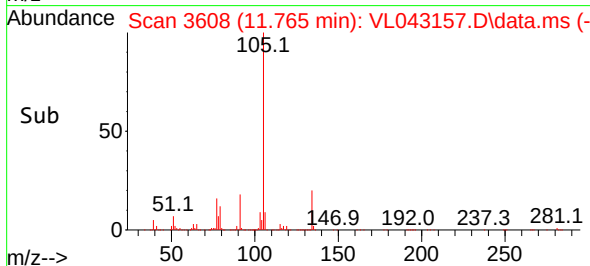
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01



Tgt Ion:105 Resp: 95725
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3

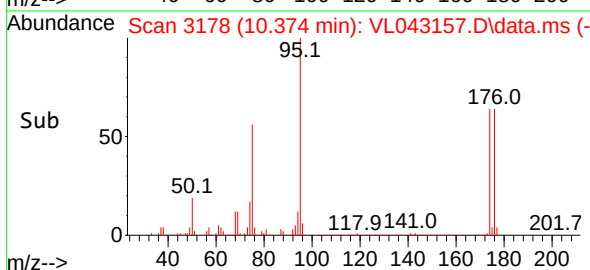
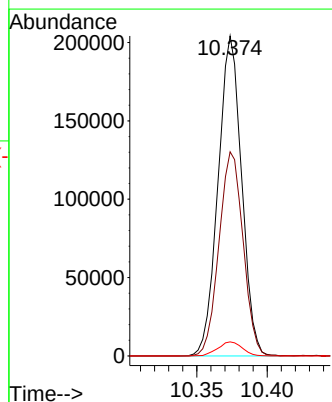
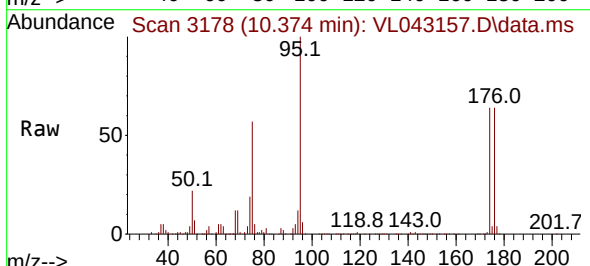
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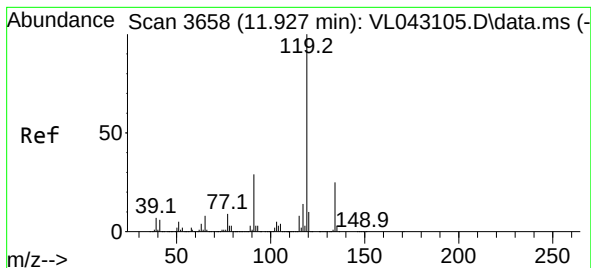
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.214 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.007 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 95 Resp: 237797
 Ion Ratio Lower Upper
 95 100
 174 65.3 48.3 72.5
 175 4.6 3.8 5.8





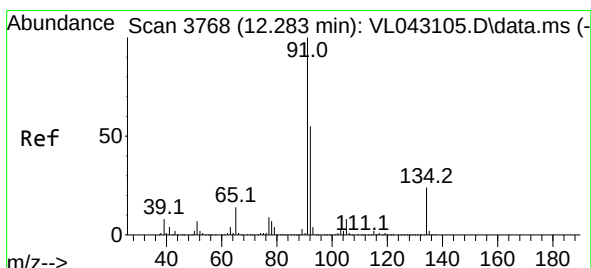
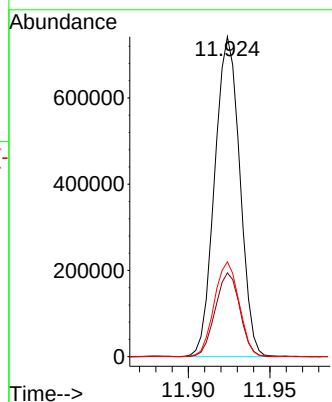
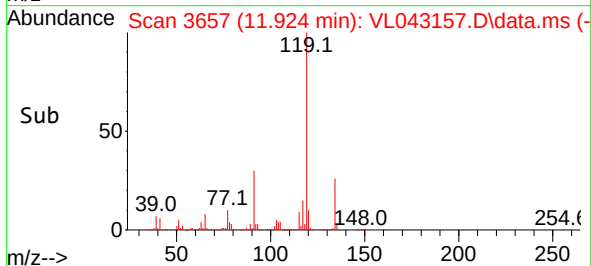
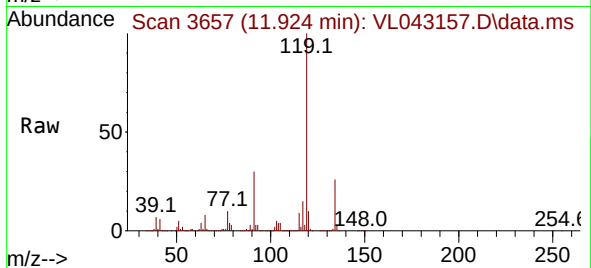
#69
p-Isopropyltoluene
Concen: 10.205 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion:119 Resp: 79524
Ion Ratio Lower Upper
119 100
134 25.7 20.3 30.5
91 29.5 22.6 33.8

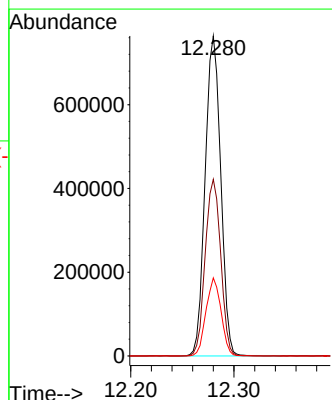
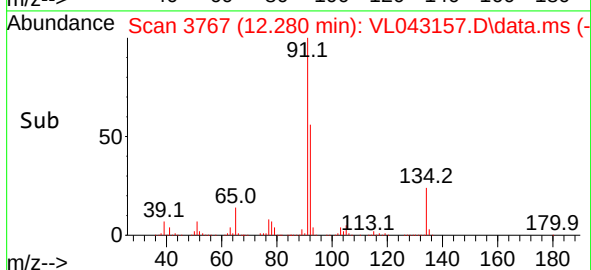
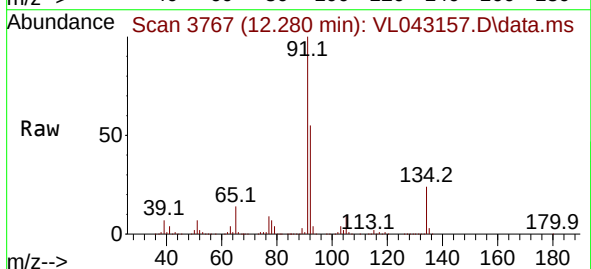
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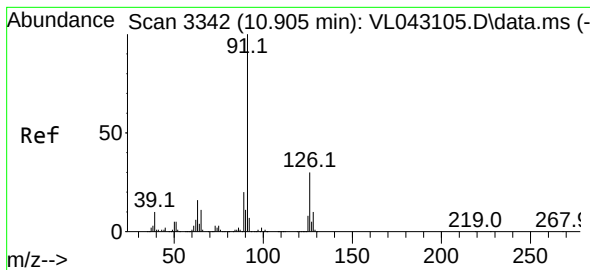
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#70
n-Butylbenzene
Concen: 10.392 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 798019
Ion Ratio Lower Upper
91 100
92 55.0 44.5 66.7
134 23.6 19.3 28.9





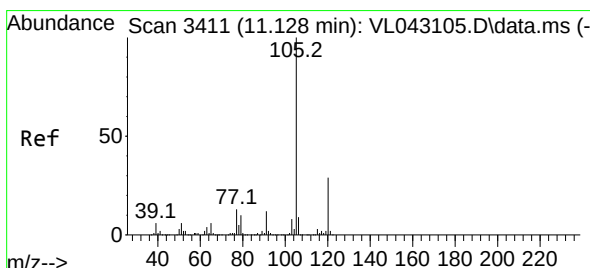
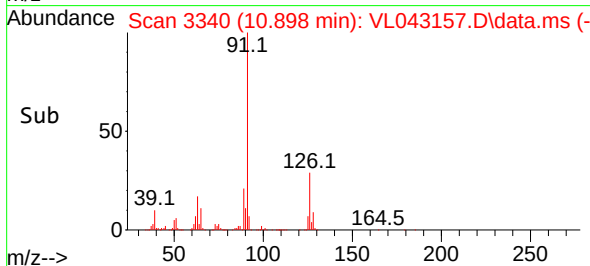
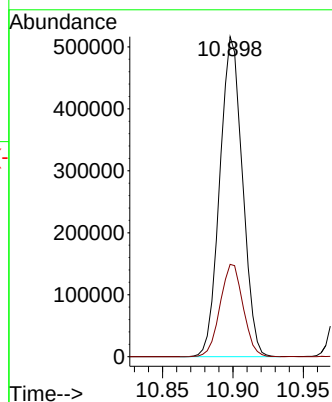
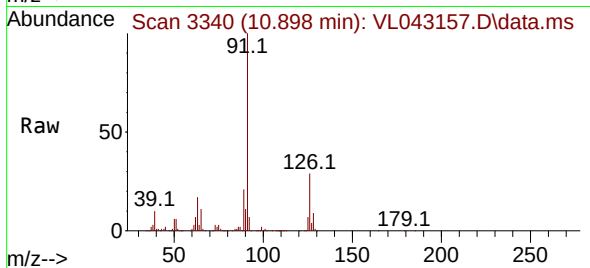
#71
2-Chlorotoluene
Concen: 10.386 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion: 91 Resp: 57964
Ion Ratio Lower Upper
91 100
126 29.3 12.0 48.0

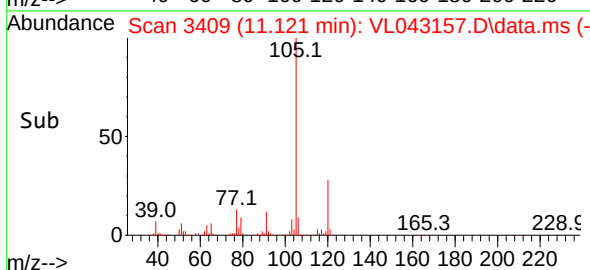
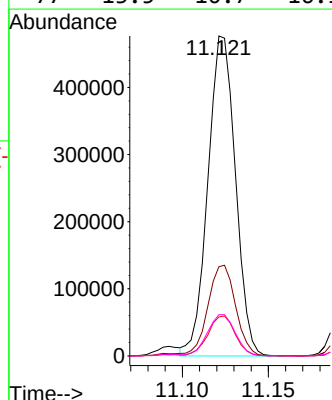
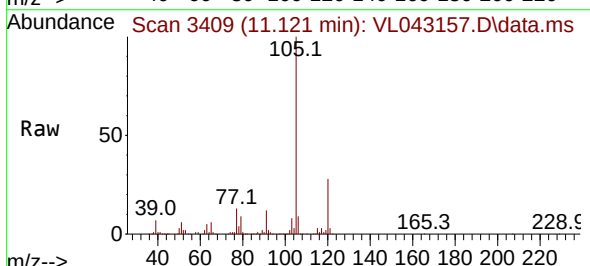
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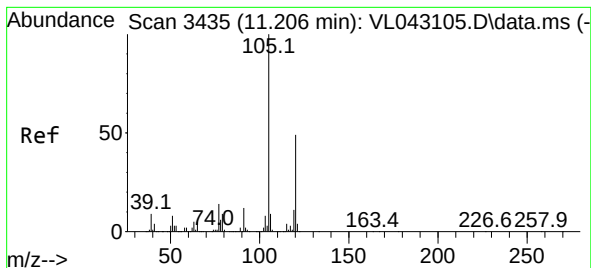
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#72
4-Ethyltoluene
Concen: 10.660 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 530791
Ion Ratio Lower Upper
105 100
120 29.2 24.2 36.4
91 12.7 10.0 15.0
77 13.5 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 10.731 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

VL1106ABS01

Tgt Ion:105 Resp: 44066

Ion Ratio Lower Upper

105 100

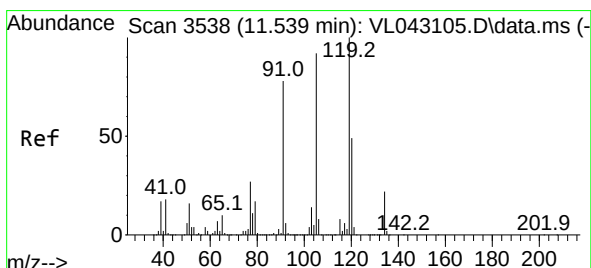
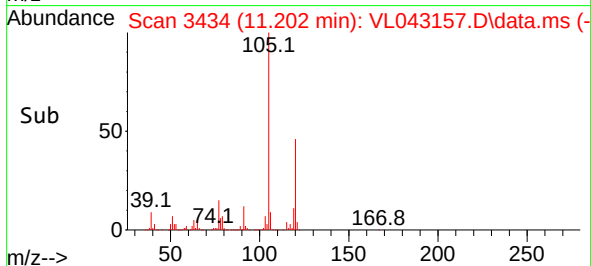
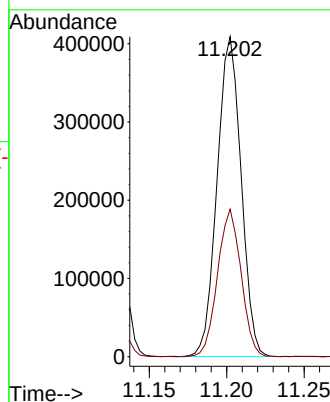
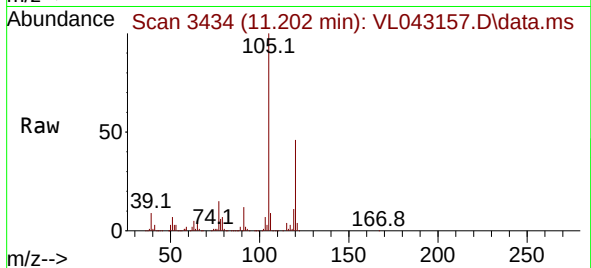
120 46.1 39.0 58.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.390 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 477453

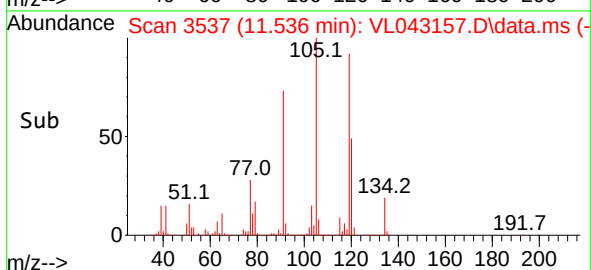
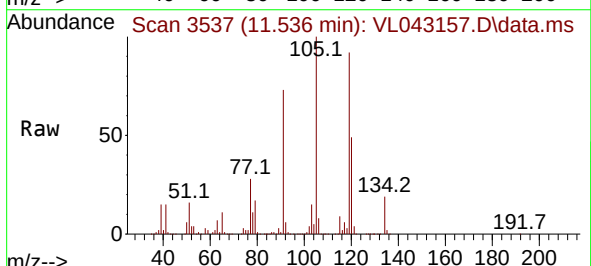
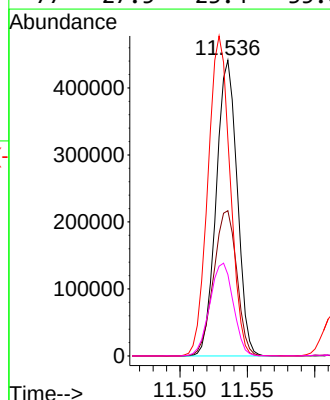
Ion Ratio Lower Upper

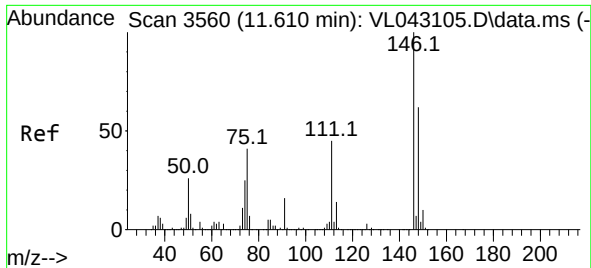
105 100

120 49.1 42.8 64.2

91 73.4 68.3 102.5

77 27.5 23.4 35.0





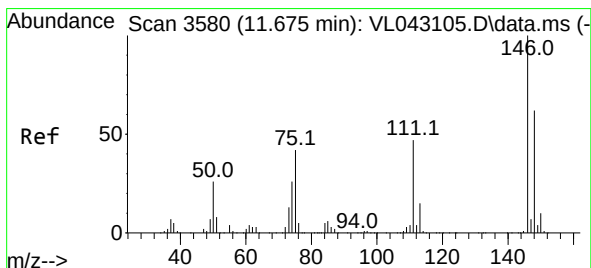
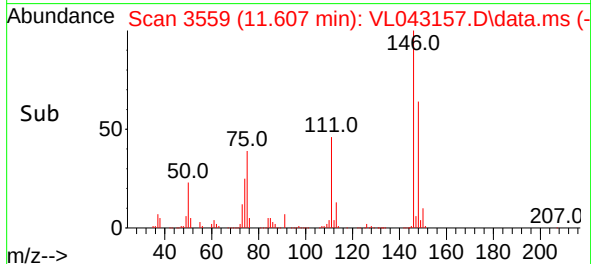
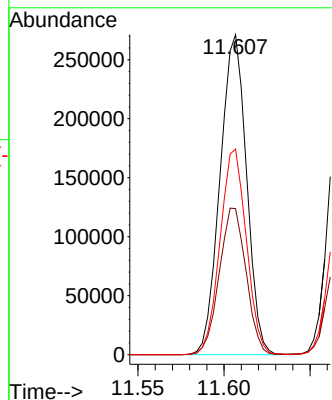
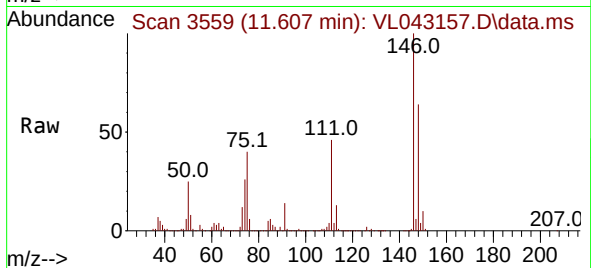
#75
1,3-Dichlorobenzene
Concen: 10.894 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

Tgt Ion:146 Resp: 29034
Ion Ratio Lower Upper
146 100
111 46.4 23.3 69.9
148 63.9 31.6 95.0

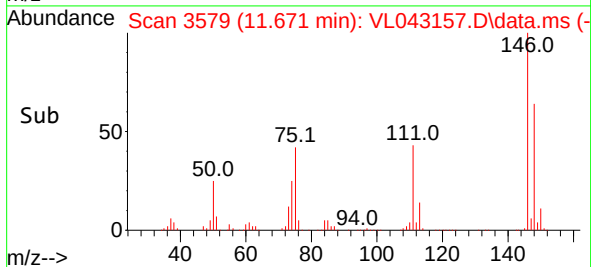
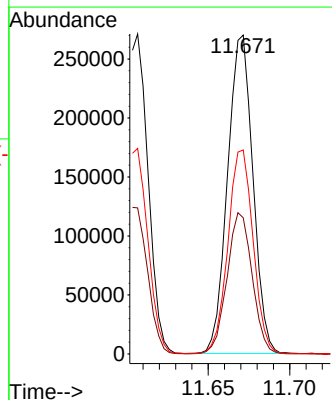
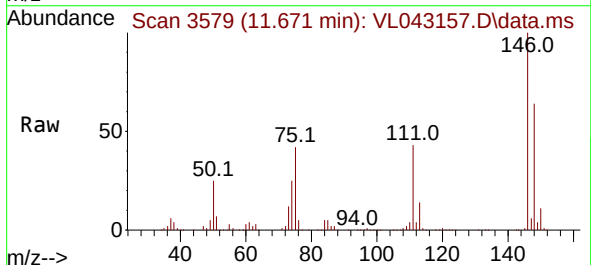
Manual Integrations
APPROVED

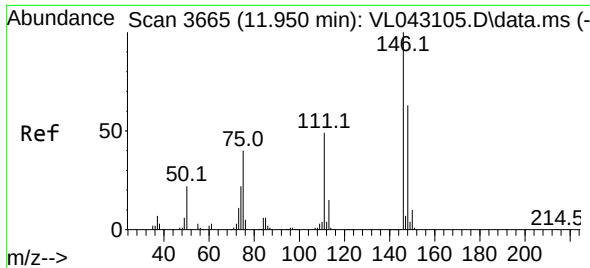
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#76
1,4-Dichlorobenzene
Concen: 10.843 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

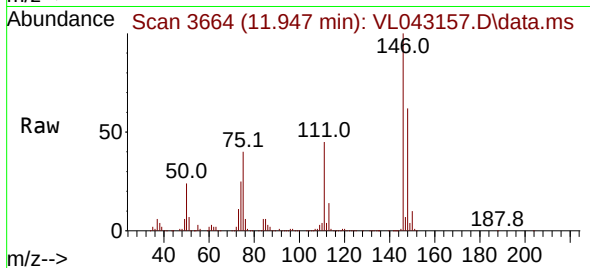
Tgt Ion:146 Resp: 291409
Ion Ratio Lower Upper
146 100
111 44.2 22.4 67.0
148 64.0 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 10.728 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

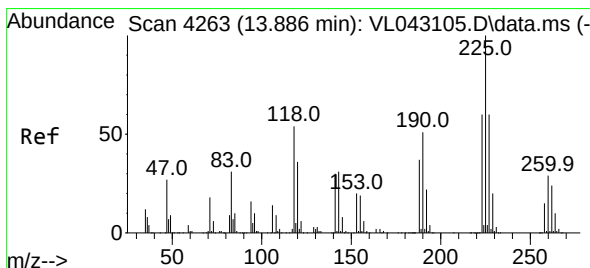
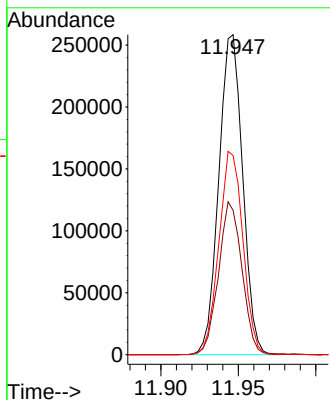
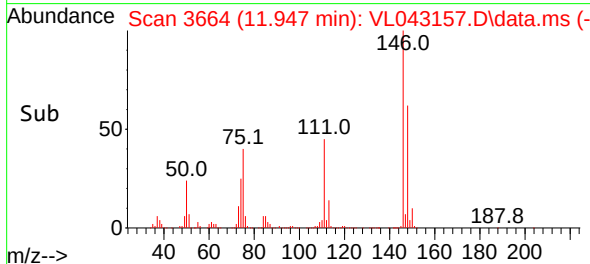
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01



Tgt Ion:146 Resp: 276598
Ion Ratio Lower Upper
146 100
111 47.1 24.0 72.0
148 64.1 31.1 93.3

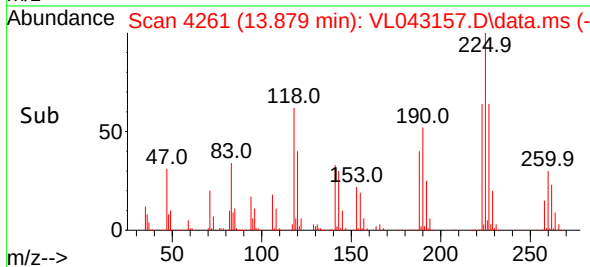
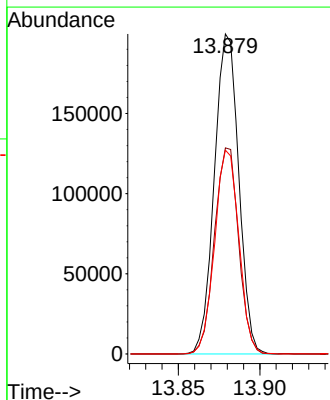
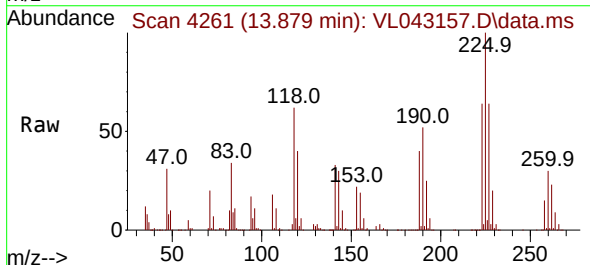
Manual Integrations
APPROVED

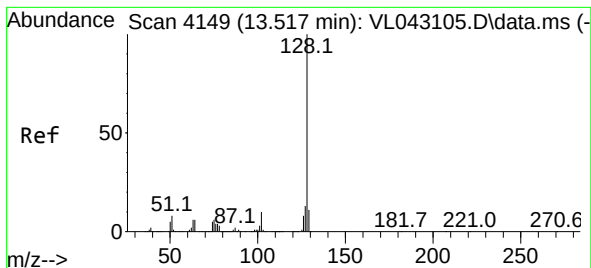
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#78
Hexachloro-1,3-Butadiene
Concen: 10.393 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:225 Resp: 207474
Ion Ratio Lower Upper
225 100
223 63.7 50.2 75.4
227 63.3 49.6 74.4





#79

Naphthalene

Concen: 10.127 ppbv

RT: 13.510 min Scan# 4149

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

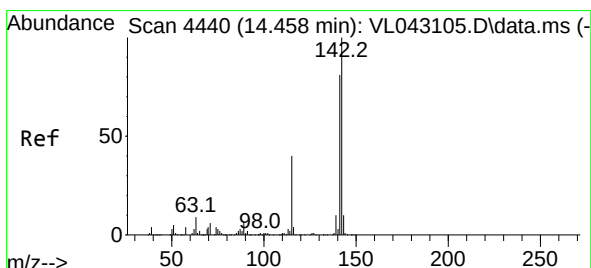
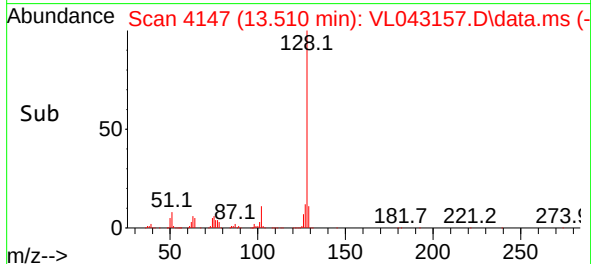
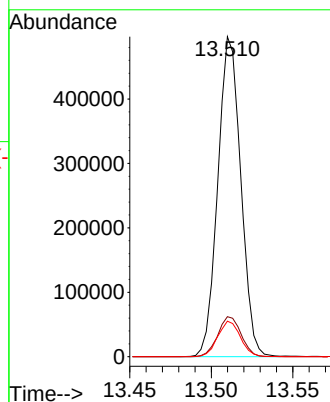
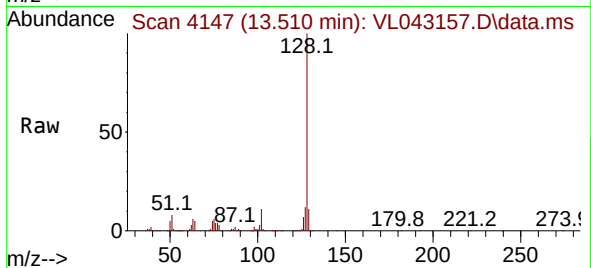
VL1106ABS01

Tgt Ion:128	Resp: 48641
Ion Ratio	Lower Upper
128 100	
127 12.5	10.5 15.7
129 11.1	9.1 13.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#80

Naphthalene,2-methyl-

Concen: 11.387 ppbv

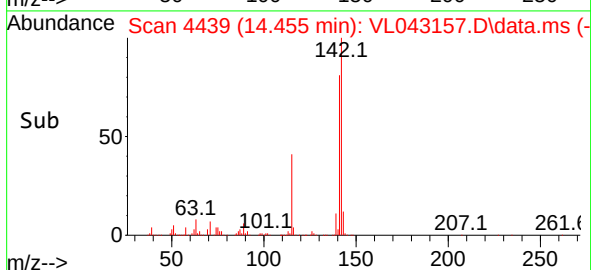
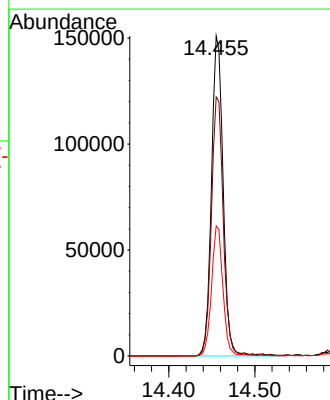
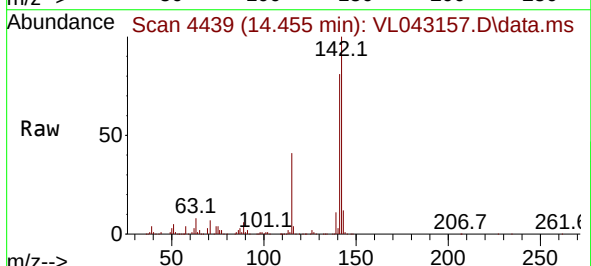
RT: 14.455 min Scan# 4439

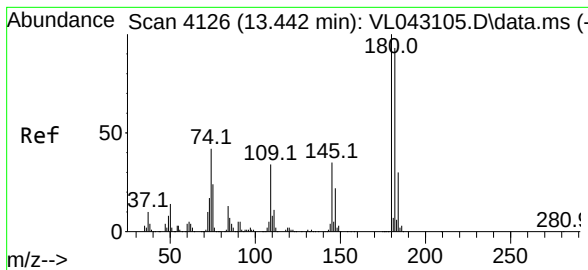
Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

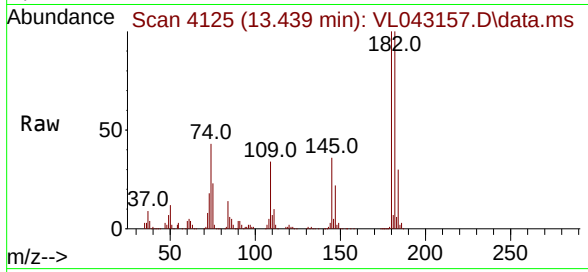
Tgt Ion:142	Resp: 142500
Ion Ratio	Lower Upper
142 100	
141 83.2	64.6 97.0
115 40.0	30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.849 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

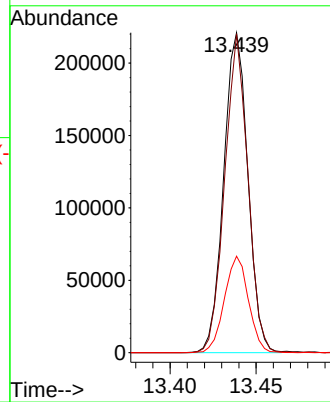
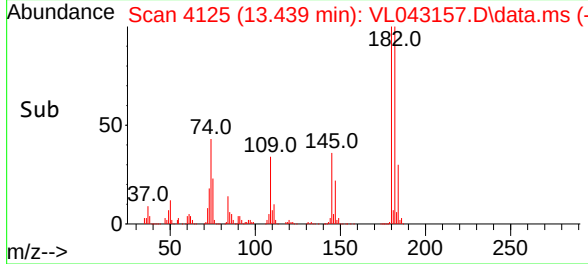
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01



Tgt Ion:180 Resp: 216292
 Ion Ratio Lower Upper
 180 100
 182 95.2 75.5 113.3
 184 29.9 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 151-IA-2DUP
Lab Sample ID: Q3555-02DUP
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.45	2.23	J	1	0.54	2.47	11/06/25 10:17	VL110625
74-87-3	Chloromethane	0.39	0.81	J	1	0.21	1.03	11/06/25 10:17	VL110625
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/06/25 10:17	VL110625
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/06/25 10:17	VL110625
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/06/25 10:17	VL110625
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/06/25 10:17	VL110625
75-69-4	Trichlorofluoromethane	0.33	1.85	J	1	0.96	2.81	11/06/25 10:17	VL110625
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/06/25 10:17	VL110625
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/06/25 10:17	VL110625
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/06/25 10:17	VL110625
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/06/25 10:17	VL110625
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/06/25 10:17	VL110625
67-64-1	Acetone	6.10	14.5		1	0.43	1.19	11/06/25 10:17	VL110625
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/06/25 10:17	VL110625
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/06/25 10:17	VL110625
75-09-2	Methylene Chloride	0.51	1.77		1	0.80	1.74	11/06/25 10:17	VL110625
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/06/25 10:17	VL110625
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/06/25 10:17	VL110625
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/06/25 10:17	VL110625
78-93-3	2-Butanone	0.27	0.80	J	1	0.18	1.47	11/06/25 10:17	VL110625
56-23-5	Carbon Tetrachloride	0.080	0.50		1	0.19	0.19	11/06/25 10:17	VL110625
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/06/25 10:17	VL110625
67-66-3	Chloroform	0.61	2.98		1	0.49	2.44	11/06/25 10:17	VL110625
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/06/25 10:17	VL110625
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/06/25 10:17	VL110625
71-43-2	Benzene	0.19	0.61	J	1	0.26	1.60	11/06/25 10:17	VL110625
107-06-2	1,2-Dichloroethane	0.22	0.89	J	1	0.36	2.02	11/06/25 10:17	VL110625
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/06/25 10:17	VL110625
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/06/25 10:17	VL110625
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/06/25 10:17	VL110625
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/06/25 10:17	VL110625
108-88-3	Toluene	0.52	1.96		1	0.60	1.88	11/06/25 10:17	VL110625
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/06/25 10:17	VL110625
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/06/25 10:17	VL110625
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/06/25 10:17	VL110625
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/06/25 10:17	VL110625
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/06/25 10:17	VL110625
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/06/25 10:17	VL110625
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/06/25 10:17	VL110625
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/06/25 10:17	VL110625
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/06/25 10:17	VL110625
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/06/25 10:17	VL110625
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/06/25 10:17	VL110625
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/06/25 10:17	VL110625
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/06/25 10:17	VL110625
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/06/25 10:17	VL110625

Report of Analysis

Client: RTP Environmental
Project: 141 JUNIPER DRIVE
Client Sample ID: 151-IA-2DUP
Lab Sample ID: Q3555-02DUP
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3557
Matrix: Air
Test: TO-15

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 10:17	VL110625
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/06/25 10:17	VL110625
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/06/25 10:17	VL110625
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 10:17	VL110625
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/06/25 10:17	VL110625
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/06/25 10:17	VL110625
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/06/25 10:17	VL110625
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/06/25 10:17	VL110625
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/06/25 10:17	VL110625
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/06/25 10:17	VL110625
110-54-3	Hexane	0.99	3.49		1	0.56	1.76	11/06/25 10:17	VL110625
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/06/25 10:17	VL110625
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/06/25 10:17	VL110625
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/06/25 10:17	VL110625

SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.1 70 (65) - 130 101% SPK: 10

INTERNAL STANDARDS

Area Count
74-97-5 Bromochloromethane 118000
540-36-3 1,4-Difluorobenzene 355000
3114-55-4 Chlorobenzene-d5 304000

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\VL110625\
 Data File : VL043159.D
 Acq On : 06 Nov 2025 10:17
 Operator : SY/MD
 Sample : Q3555-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:19:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	118024	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	354784	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	303947	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	238666	10.102	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	7609	0.453	ppbv	94
3) Chlorodifluoromethane	1.479	51	5305m	0.292	ppbv	
4) Chloromethane	1.534	50	2577	0.388	ppbv	98
9) Propene	1.489	41	3944	0.490	ppbv	85
10) Heptane	4.991	43	2953m	0.127	ppbv	
11) Trichlorofluoromethane	1.881	101	5437	0.331	ppbv	98
13) Ethanol	1.722	45	124950	41.954	ppbv	96
15) Acetone	1.839	43	97541	6.132	ppbv	95
17) tert-Butyl alcohol	2.046	59	2284m	0.105	ppbv	
19) Isopropyl Alcohol	1.887	45	278208	28.080	ppbv #	37
20) Methylene Chloride	2.065	84	3186	0.507	ppbv	96
26) Hexane	2.832	57	18040	0.992	ppbv #	56
29) Chloroform	2.848	83	16144	0.613	ppbv	93
30) Cyclohexane	3.861	84	1460m	0.092	ppbv	
34) 2-Butanone	2.560	43	6502	0.273	ppbv	99
35) Carbon Tetrachloride	3.768	117	2069	0.081	ppbv #	93
36) Benzene	3.664	78	6423m	0.192	ppbv	
37) 1,2-Dichloroethane	3.221	62	4176	0.217	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	5811m	0.103	ppbv	
53) Toluene	6.936	91	20621	0.520	ppbv	95
59) m/p-Xylene	9.532	91	11376m	0.273	ppbv	
60) o-Xylene	9.966	91	4406m	0.107	ppbv	

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

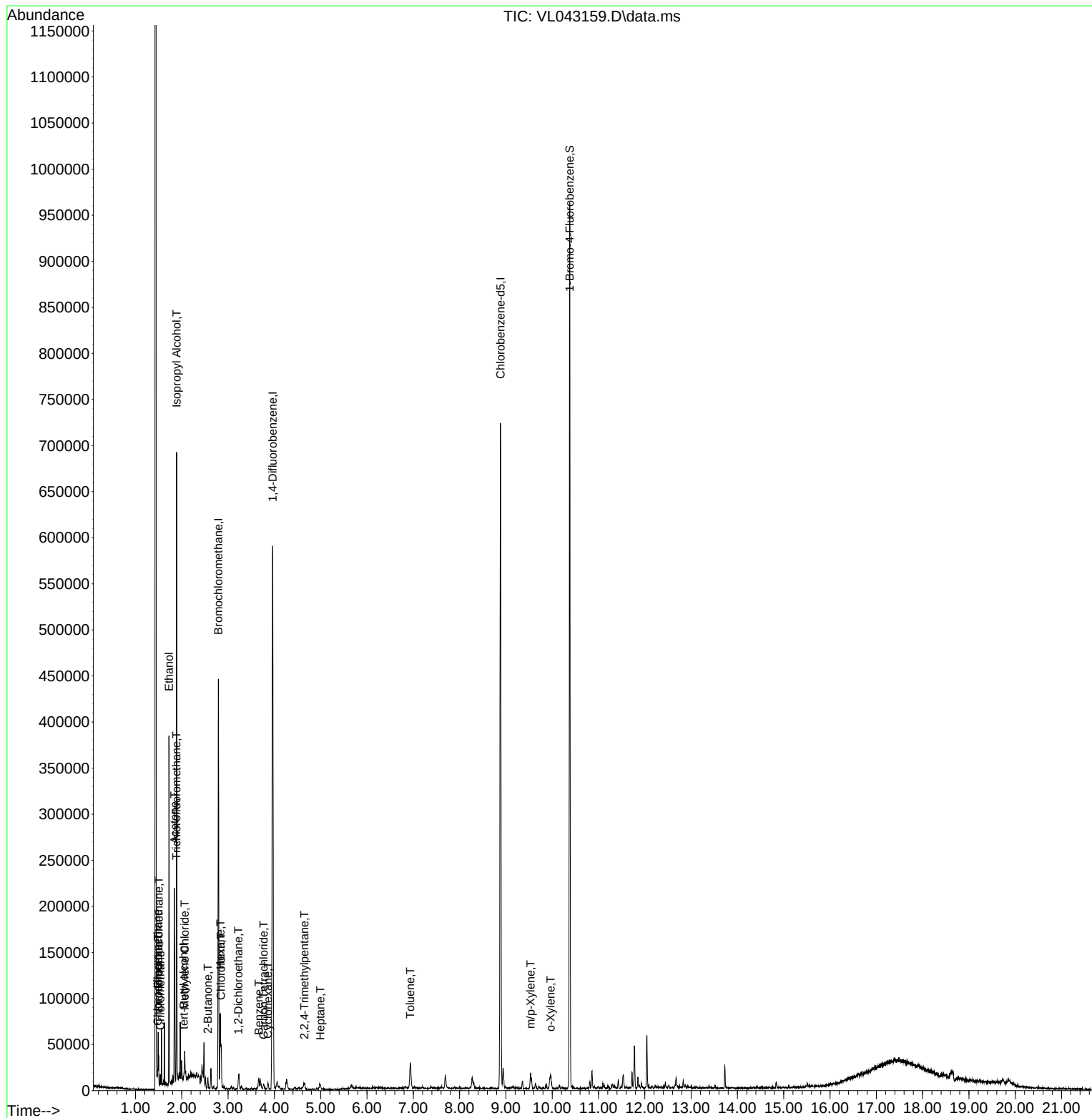
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043159.D
Acq On : 06 Nov 2025 10:17
Operator : SY/MD
Sample : Q3555-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

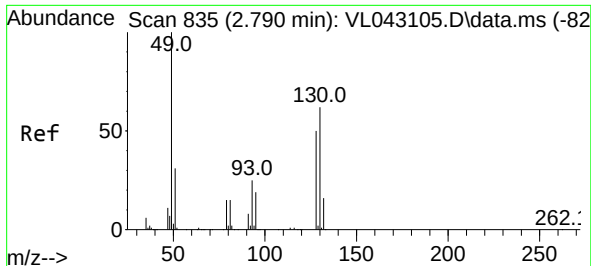
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Quant Time: Nov 07 00:19:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025
Supervised By : Mahesh Dadoda 11/10/2025





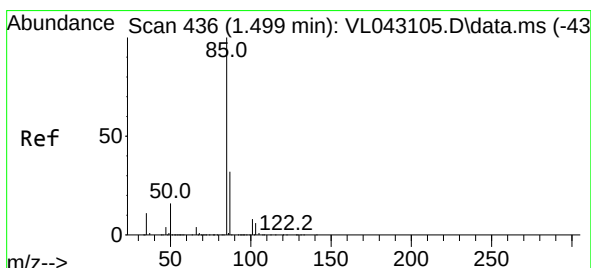
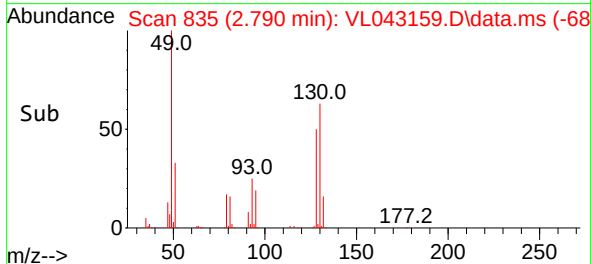
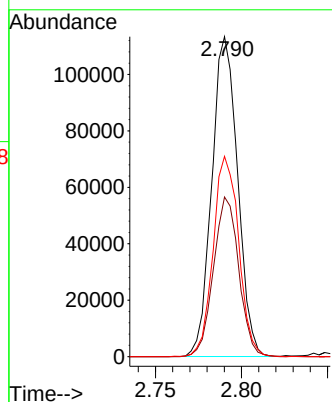
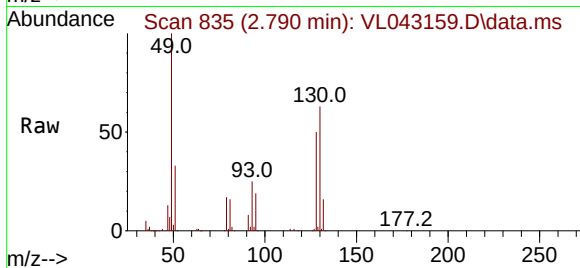
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 49 Resp: 118024
Ion Ratio Lower Upper
49 100
128 49.1 24.4 73.4
130 62.2 31.0 93.0

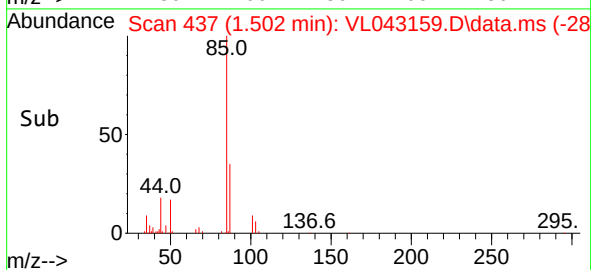
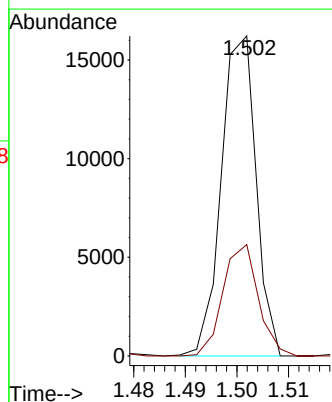
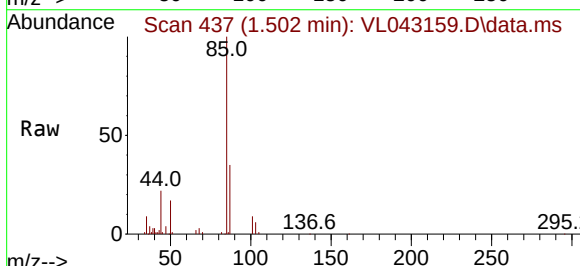
Manual Integrations
APPROVED

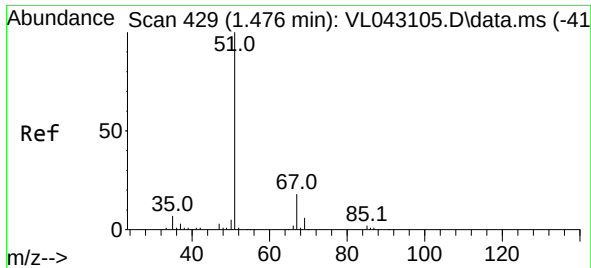
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.453 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

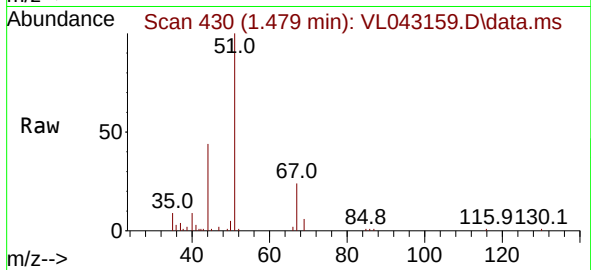
Tgt Ion: 85 Resp: 7609
Ion Ratio Lower Upper
85 100
87 34.8 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.292 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

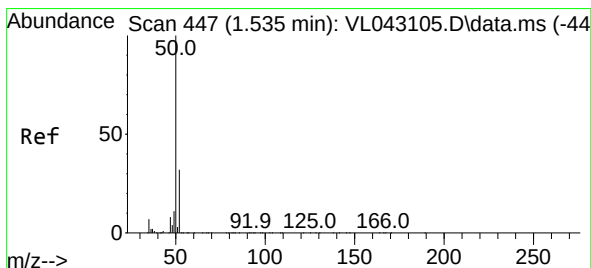
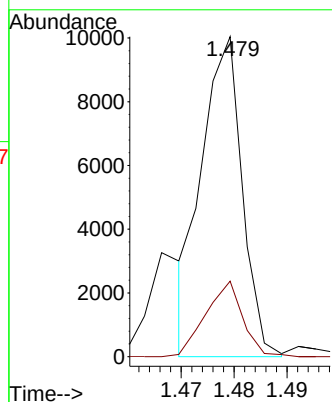
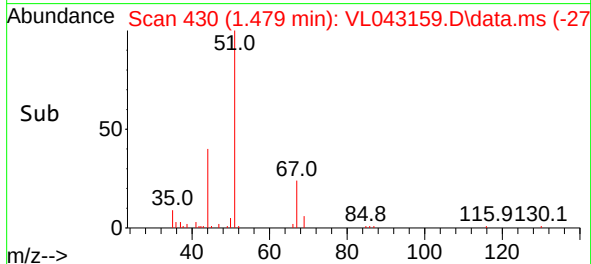
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 51 Resp: 530
Ion Ratio Lower Upper
51 100
67 2.0 15.1 22.7

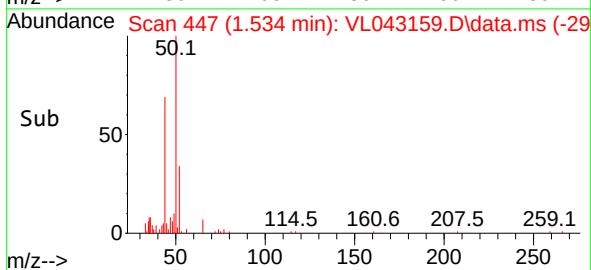
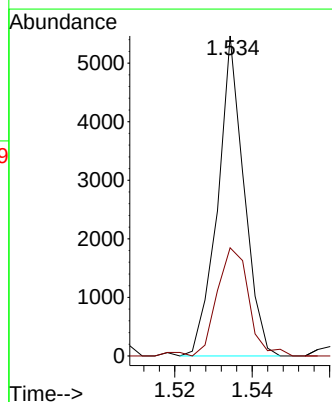
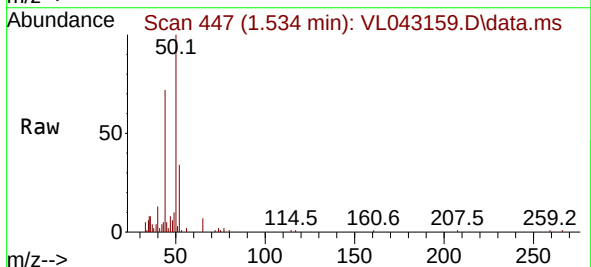
Manual Integrations
APPROVED

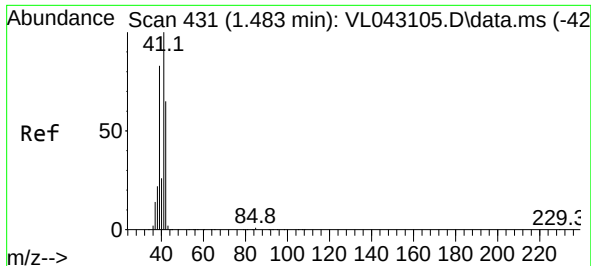
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.388 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 50 Resp: 2577
Ion Ratio Lower Upper
50 100
52 32.7 25.2 37.8





#9

Propene

Concen: 0.490 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

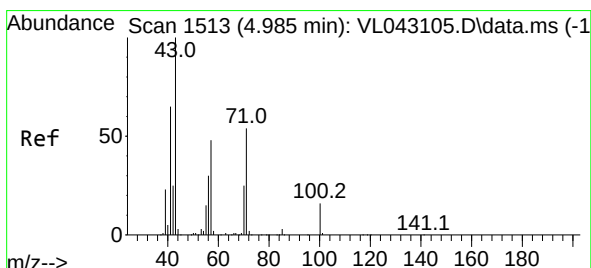
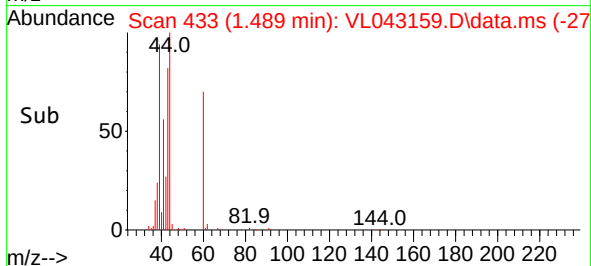
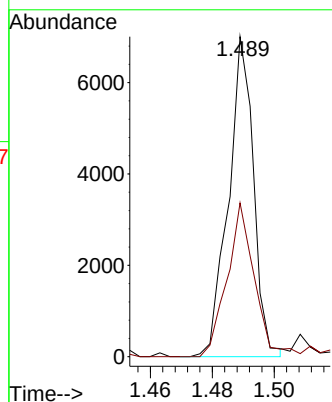
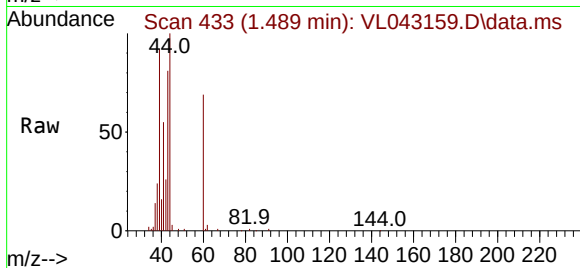
151-IA-2DUP

Tgt Ion: 41 Resp: 3944
 Ion Ratio Lower Upper
 41 100
 42 56.6 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#10

Heptane

Concen: 0.127 ppbv m

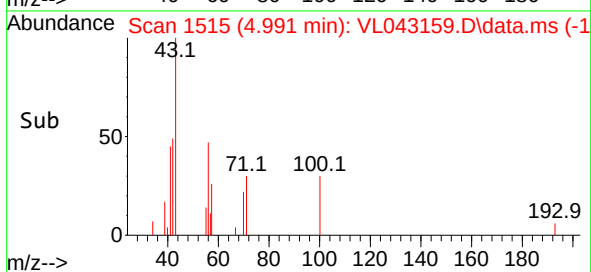
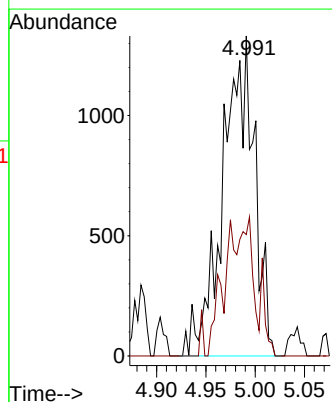
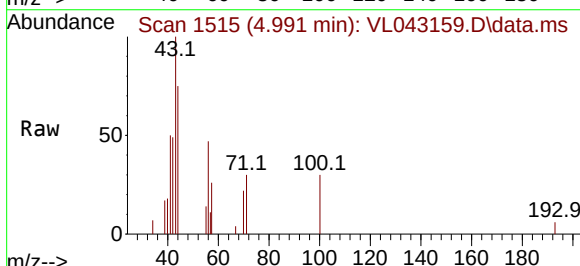
RT: 4.991 min Scan# 1515

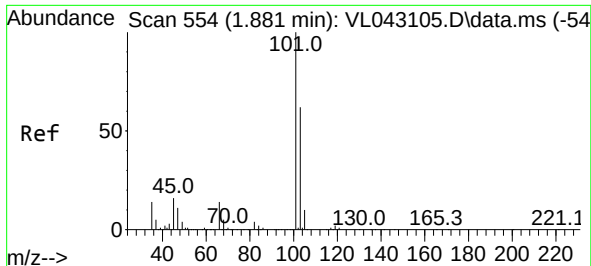
Delta R.T. 0.006 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

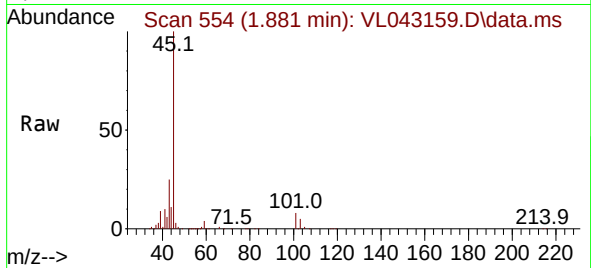
Tgt Ion: 43 Resp: 2953
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.8 61.2#





#11
Trichlorofluoromethane
Concen: 0.331 ppbv
RT: 1.881 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

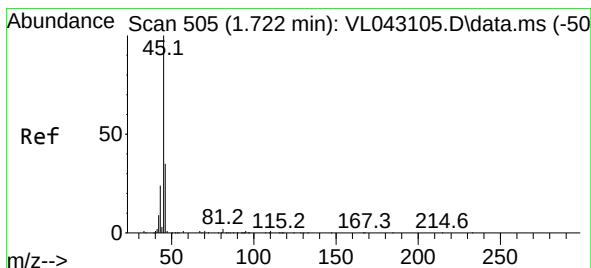
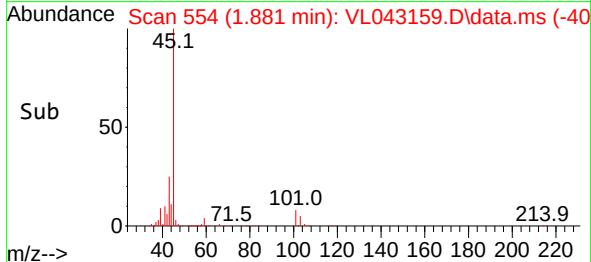
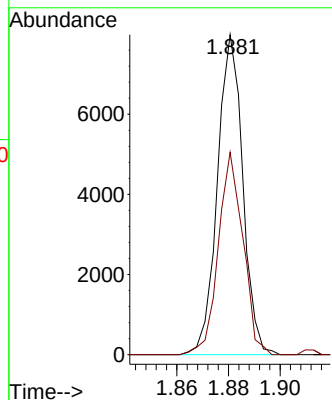
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion:101 Resp: 543
Ion Ratio Lower Upper
101 100
103 63.3 49.3 73.9

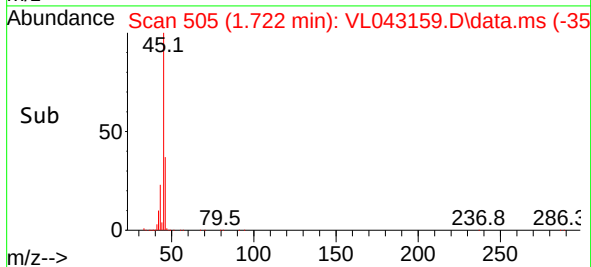
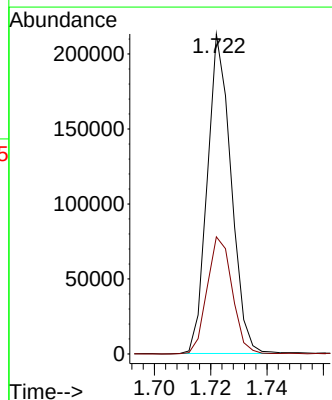
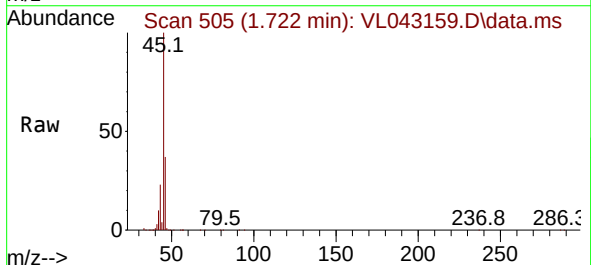
Manual Integrations
APPROVED

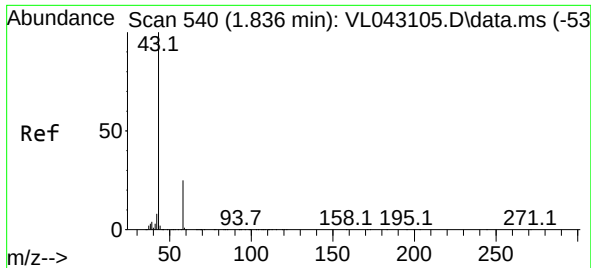
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#13
Ethanol
Concen: 41.954 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

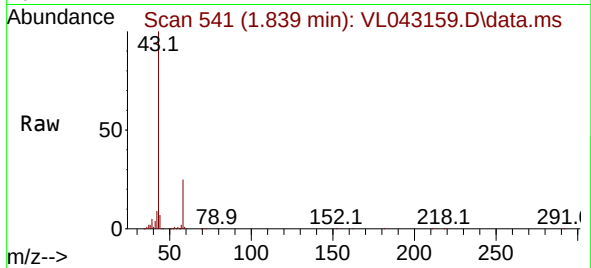
Tgt Ion: 45 Resp: 124950
Ion Ratio Lower Upper
45 100
46 39.0 14.7 58.9





#15
Acetone
Concen: 6.132 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

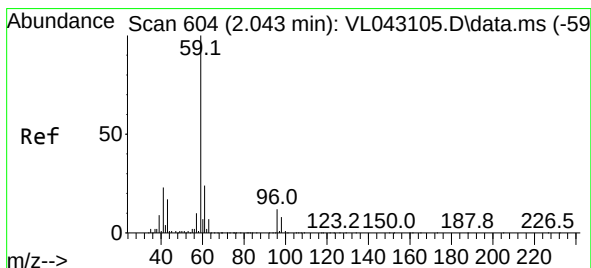
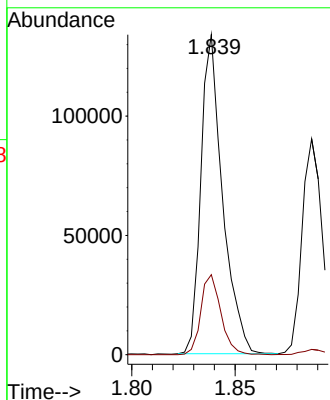
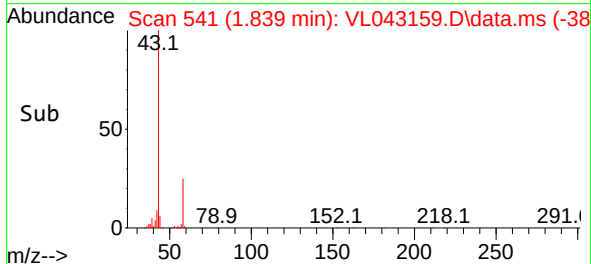
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 43 Resp: 9754
Ion Ratio Lower Upper
43 100
58 23.2 20.8 31.2

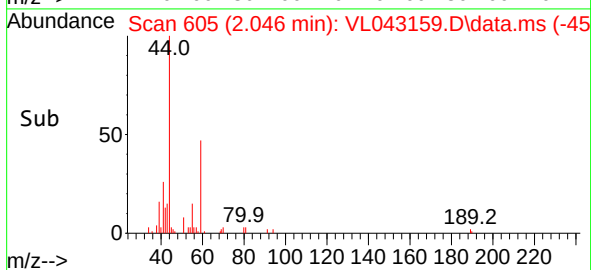
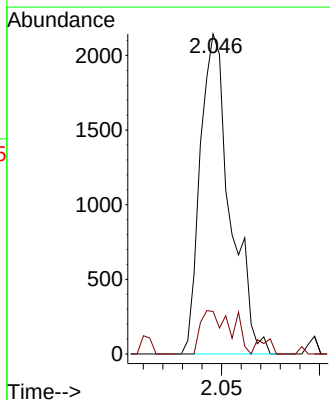
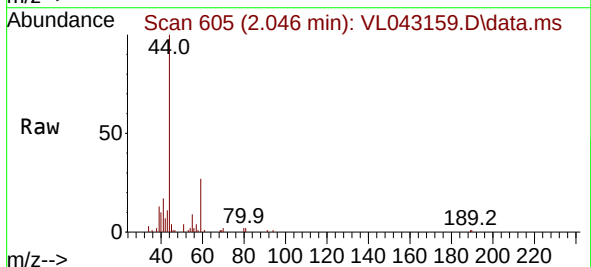
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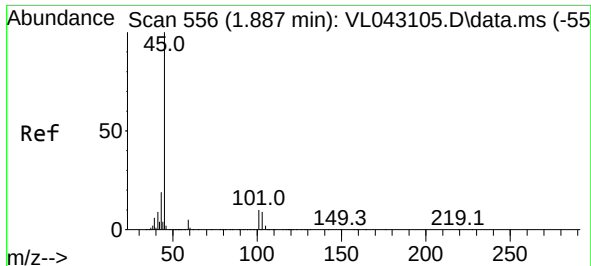
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#17
tert-Butyl alcohol
Concen: 0.105 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

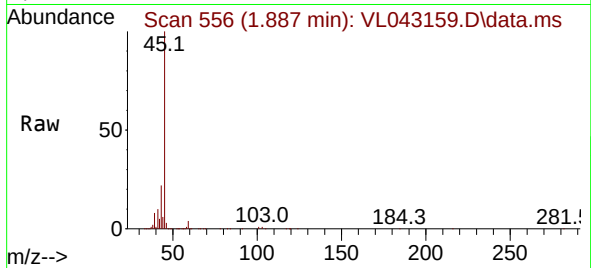
Tgt Ion: 59 Resp: 2284
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#19
Isopropyl Alcohol
Concen: 28.080 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

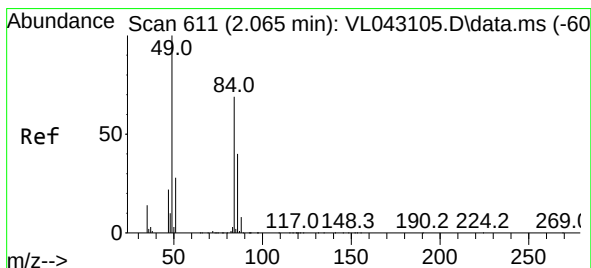
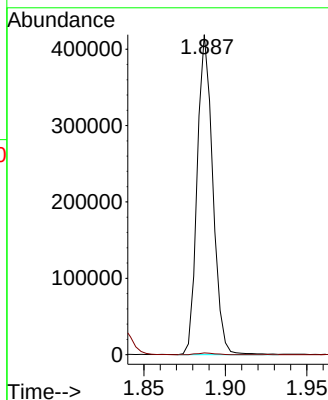
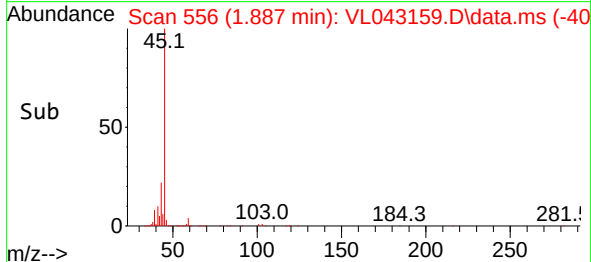
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



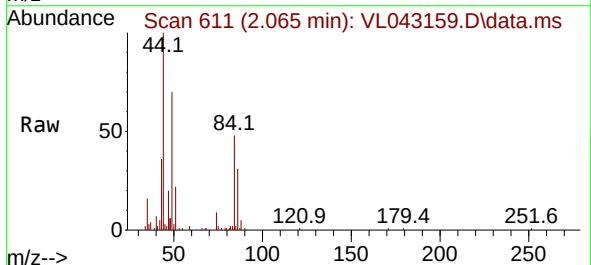
Tgt Ion: 45 Resp: 278208
Ion Ratio Lower Upper
45 100
58 0.6 31.3 46.9

Manual Integrations
APPROVED

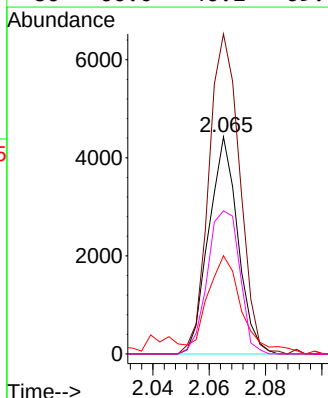
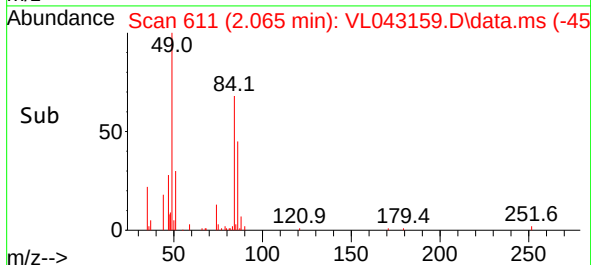
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

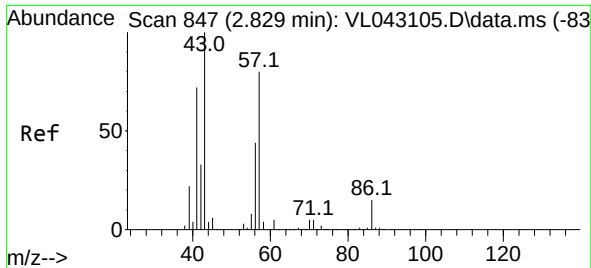


#20
Methylene Chloride
Concen: 0.507 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17



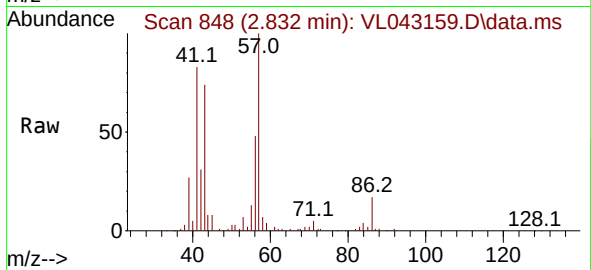
Tgt Ion: 84 Resp: 3186
Ion Ratio Lower Upper
84 100
49 147.4 116.6 175.0
51 41.9 34.8 52.2
86 66.0 46.2 69.4





#26
Hexane
Concen: 0.992 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

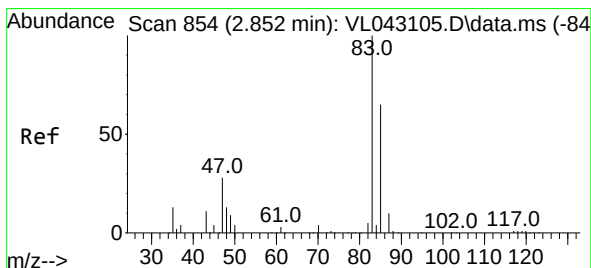
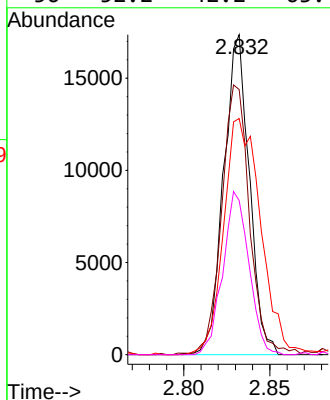
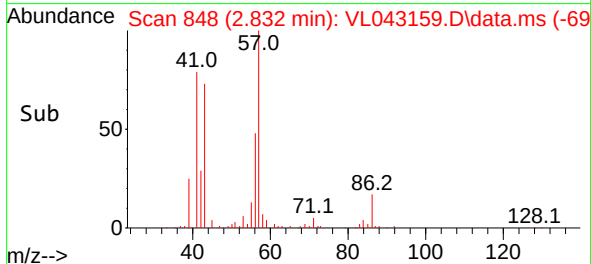
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 57 Resp: 18040
Ion Ratio Lower Upper
57 100
41 92.0 71.4 107.0
43 108.4 178.5 267.7
56 52.2 42.2 63.4

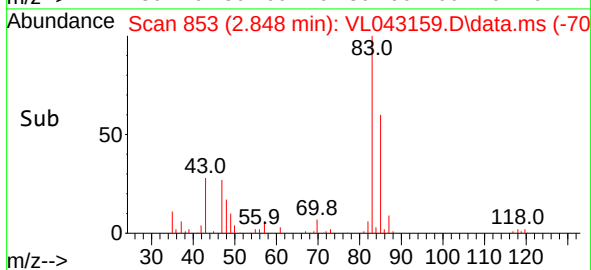
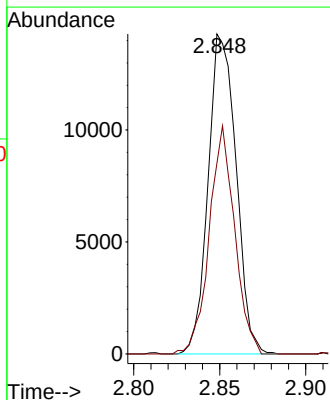
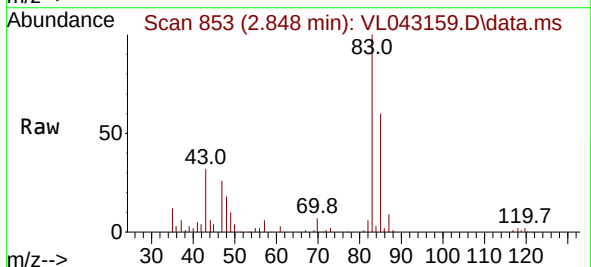
Manual Integrations
APPROVED

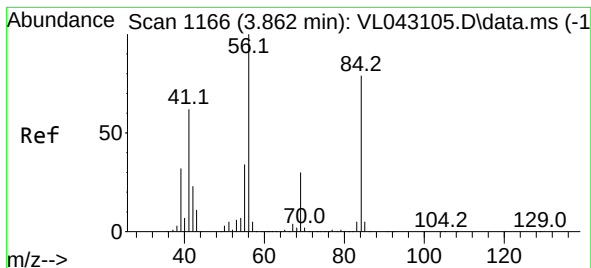
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#29
Chloroform
Concen: 0.613 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 83 Resp: 16144
Ion Ratio Lower Upper
83 100
85 59.6 51.8 77.6





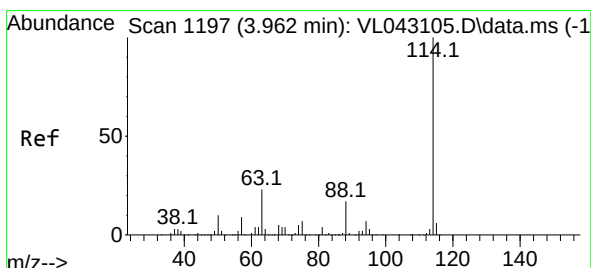
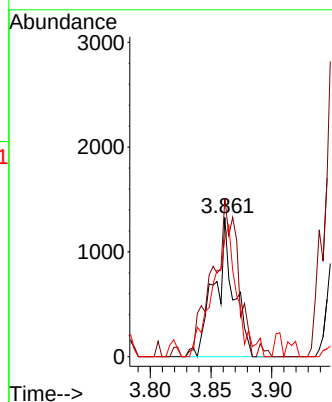
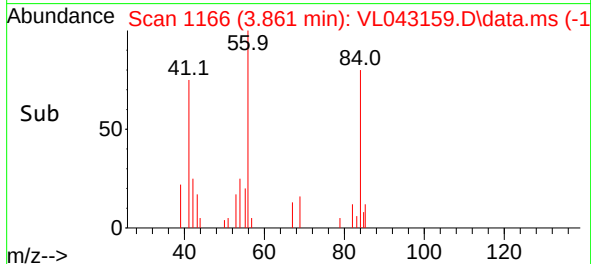
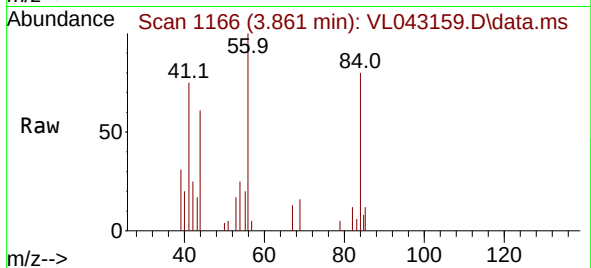
#30
Cyclohexane
Concen: 0.092 ppbv m
RT: 3.861 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 84 Resp: 1460
Ion Ratio Lower Upper
84 100
56 0.0 100.9 151.3
41 0.0 63.8 95.6

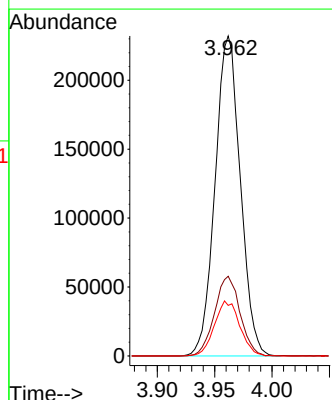
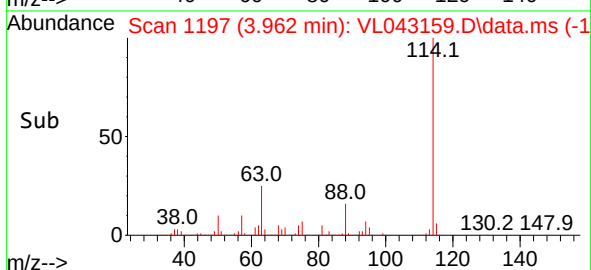
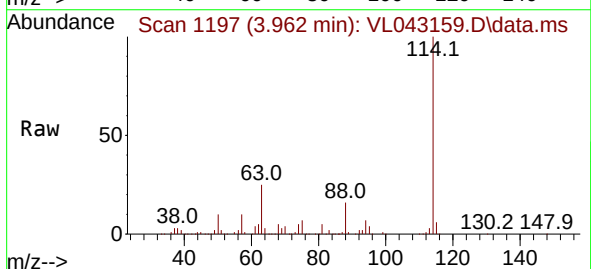
Manual Integrations
APPROVED

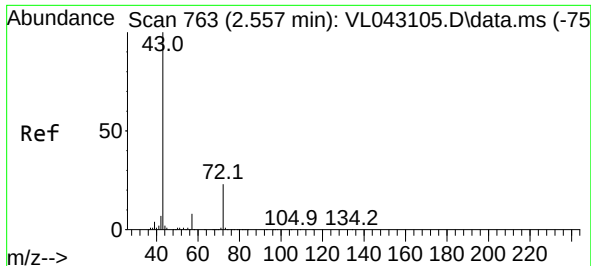
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

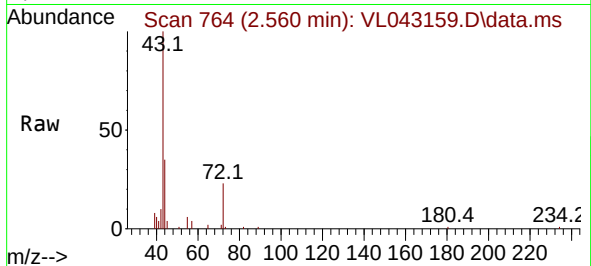
Tgt Ion:114 Resp: 354784
Ion Ratio Lower Upper
114 100
63 25.2 19.3 28.9
88 17.3 13.9 20.9





#34
2-Butanone
Concen: 0.273 ppbv
RT: 2.560 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

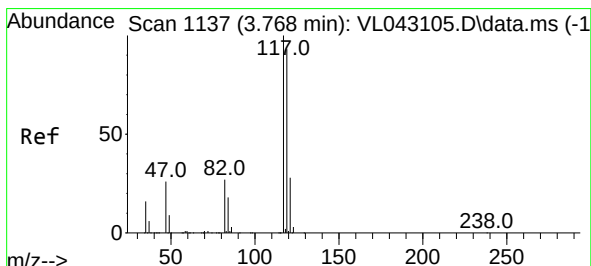
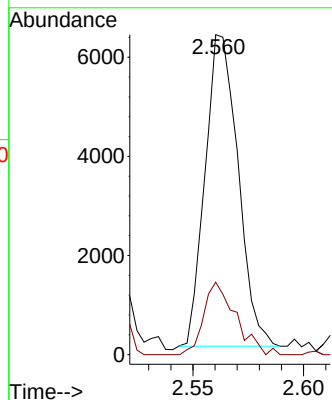
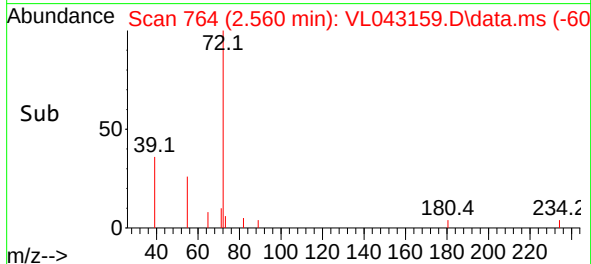
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 43 Resp: 6502
Ion Ratio Lower Upper
43 100
72 22.6 18.4 27.6

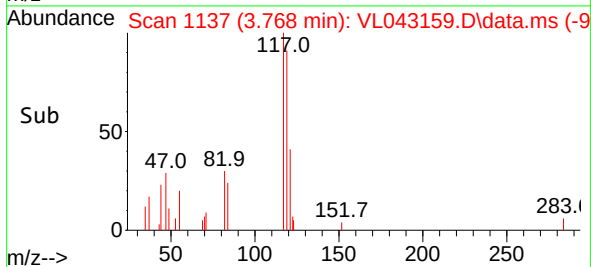
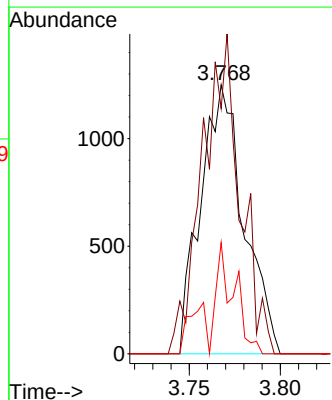
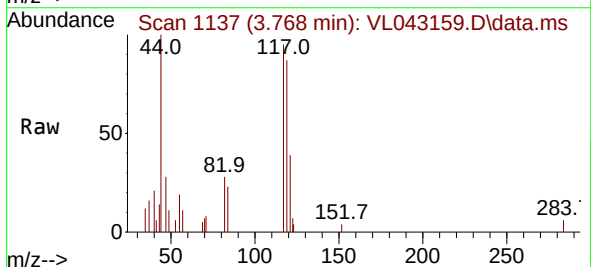
Manual Integrations
APPROVED

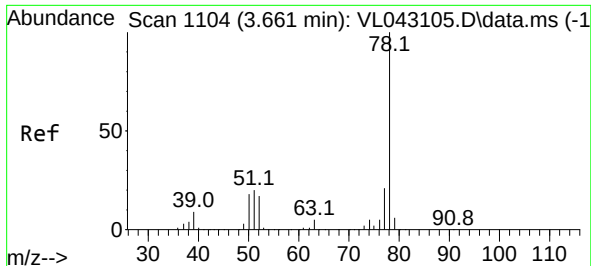
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.081 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion:117 Resp: 2069
Ion Ratio Lower Upper
117 100
119 91.2 74.1 111.1
121 41.4 22.2 33.2#





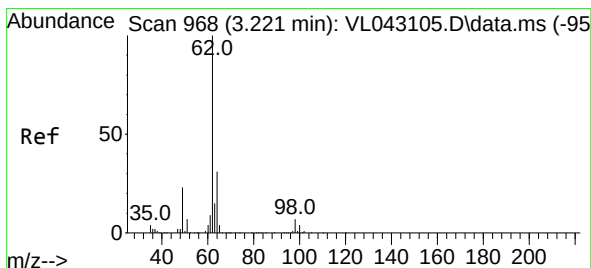
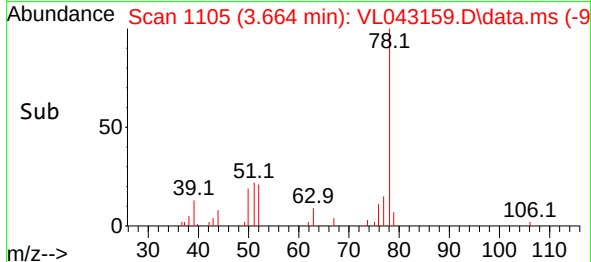
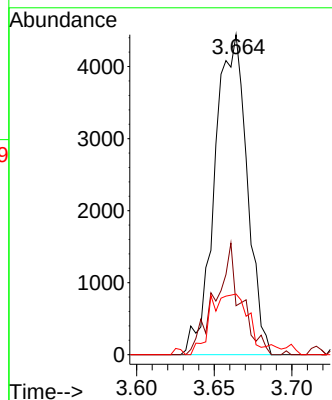
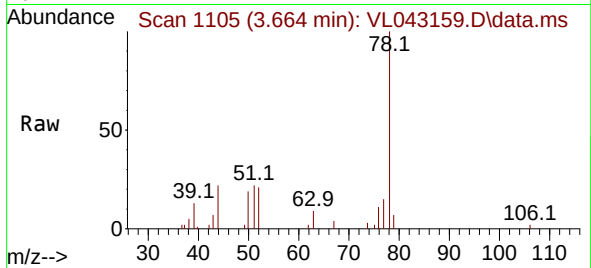
#36
Benzene
Concen: 0.192 ppbv m
RT: 3.664 min Scan# 1104
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 78 Resp: 642
Ion Ratio Lower Upper
78 100
77 15.3 17.0 25.6
50 19.0 14.6 22.0

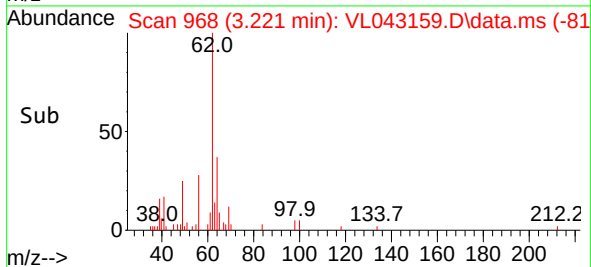
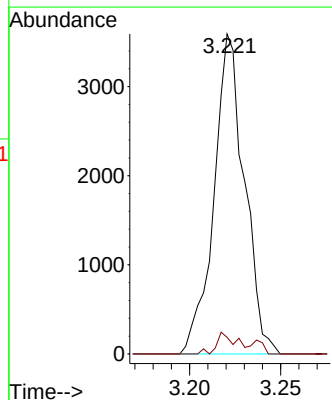
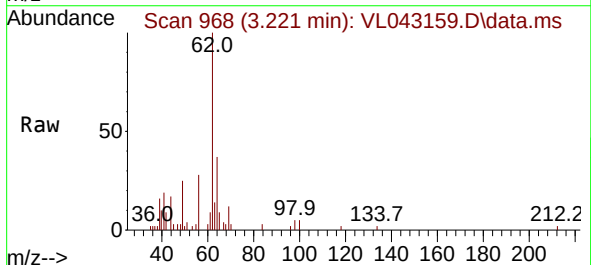
Manual Integrations
APPROVED

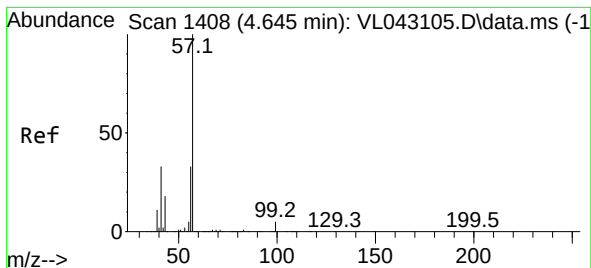
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#37
1,2-Dichloroethane
Concen: 0.217 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

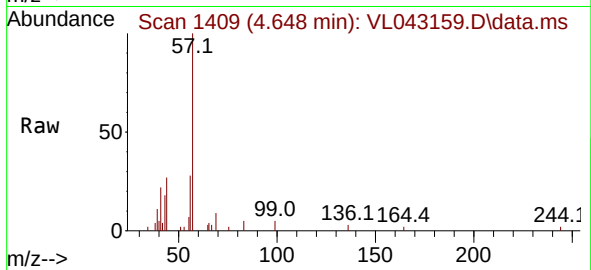
Tgt Ion: 62 Resp: 4176
Ion Ratio Lower Upper
62 100
98 6.0 5.8 8.6





#44
2,2,4-Trimethylpentane
Concen: 0.103 ppbv m
RT: 4.648 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

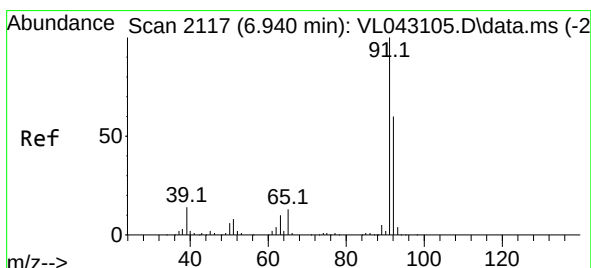
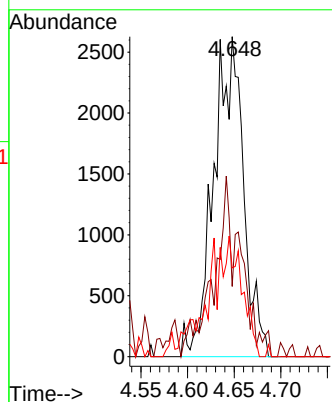
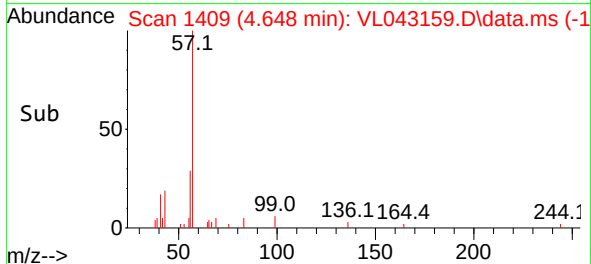
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 57 Resp: 581
Ion Ratio Lower Upper
57 100
41 50.9 26.3 39.5
56 44.0 25.9 38.9

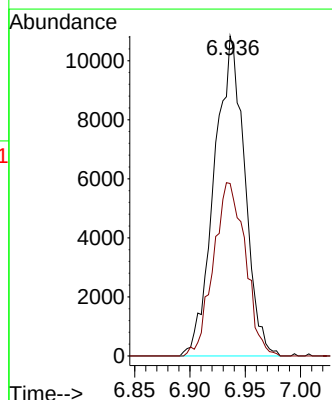
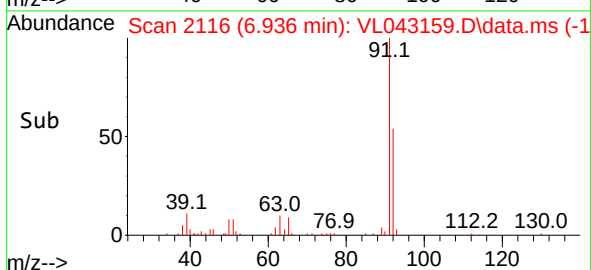
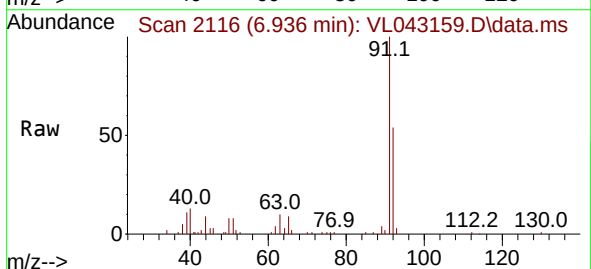
Manual Integrations
APPROVED

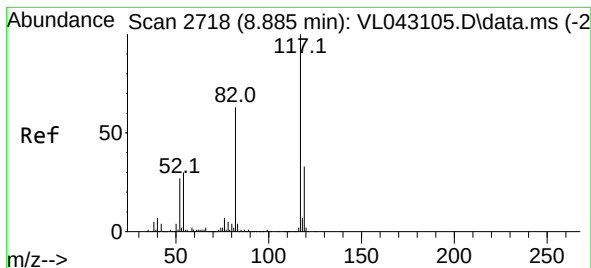
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.520 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 91 Resp: 20621
Ion Ratio Lower Upper
91 100
92 57.0 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 21

Delta R.T. -0.004 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

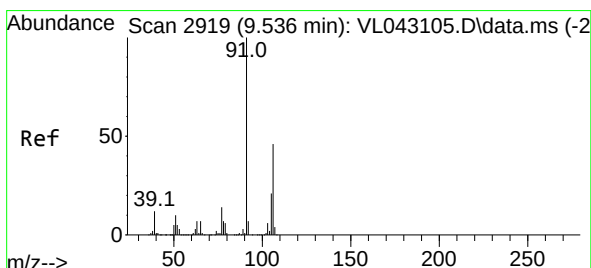
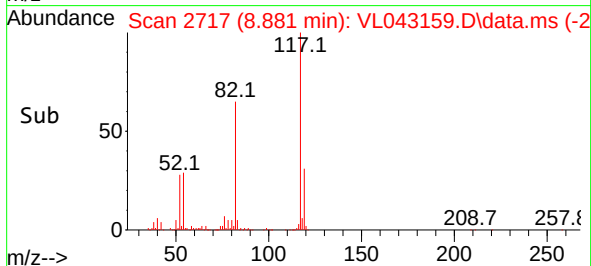
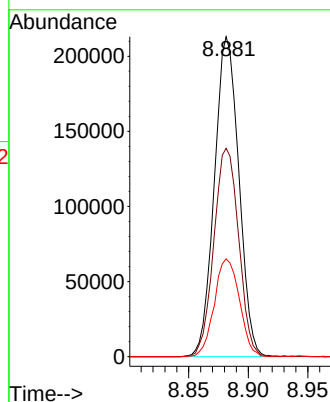
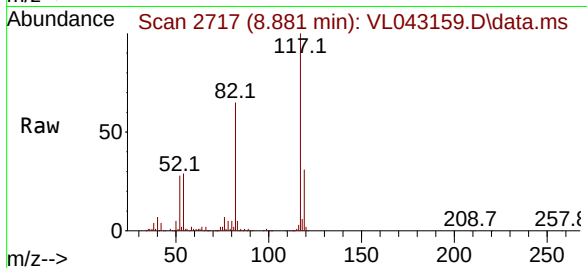
151-IA-2DUP

Tgt Ion:	117	Resp:	30394
Ion	Ratio	Lower	Upper
117	100		
82	66.1	53.8	80.8
119	31.6	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#59

m/p-Xylene

Concen: 0.273 ppbv m

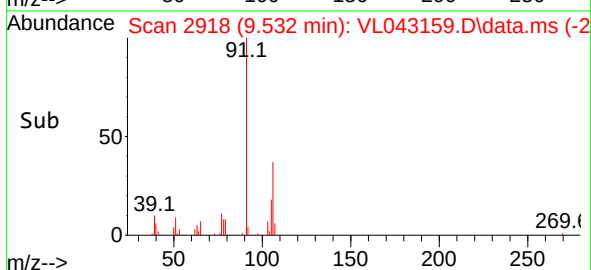
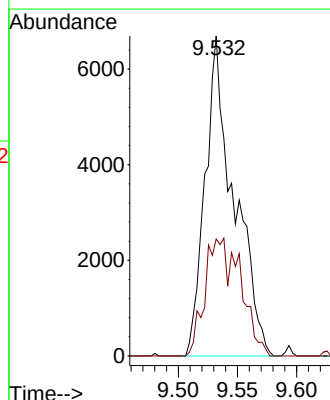
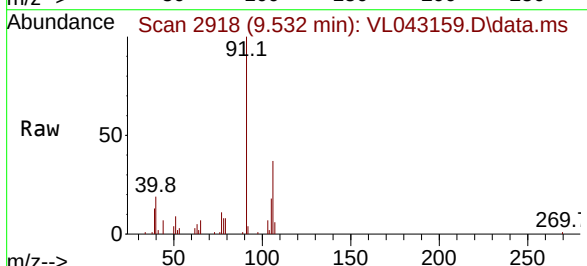
RT: 9.532 min Scan# 2918

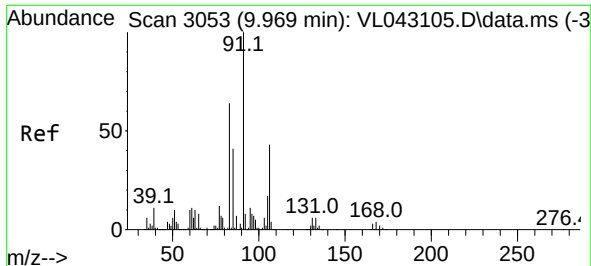
Delta R.T. -0.004 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Tgt Ion:	91	Resp:	11376
Ion	Ratio	Lower	Upper
91	100		
106	45.6	38.0	57.0





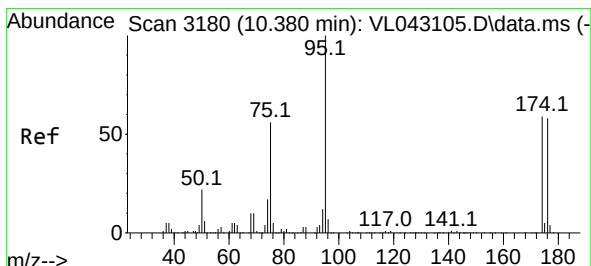
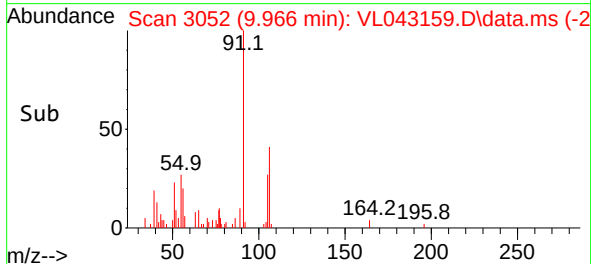
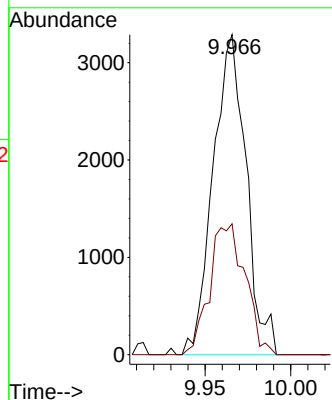
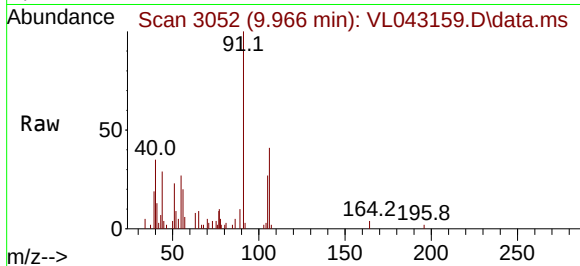
#60
o-Xylene
Concen: 0.107 ppbv m
RT: 9.966 min Scan# 3053
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 91 Resp: 4400
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8

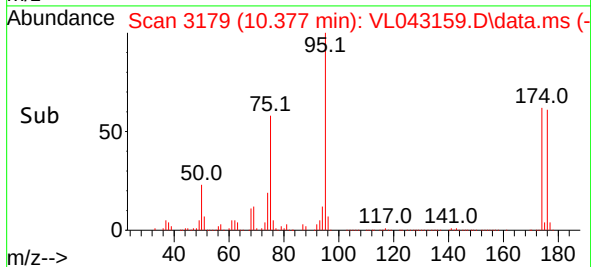
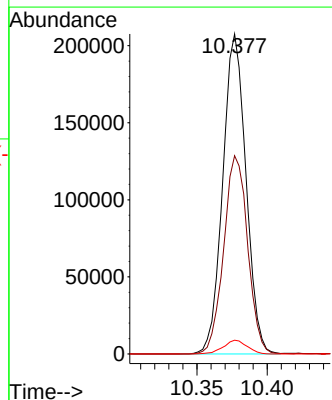
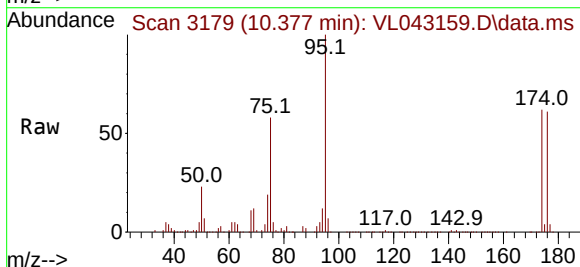
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.102 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 95 Resp: 238666
Ion Ratio Lower Upper
95 100
174 63.9 48.3 72.5
175 4.4 3.8 5.8



Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL043105.D	m/p-Xylene	sam	10/16/2025 4:38:08 AM	MMdadoda	10/16/2025 4:40:57 AM	Peak Integrated by Software
VSTDICCC002	VL043106.D	1,4-Dioxane	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICCC002	VL043106.D	cis-1,3-Dichloropropene	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICCC002	VL043106.D	m/p-Xylene	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	1,4-Dioxane	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	4-Methyl-2-Pentanone	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	m/p-Xylene	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	t-1,3-Dichloropropene	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	1,4-Dioxane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	2,2,4-Trimethylpentane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	4-Methyl-2-Pentanone	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	cis-1,3-Dichloropropene	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	Cyclohexane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043108.D	Heptane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	m/p-Xylene	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	Methyl Methacrylate	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	Tetrahydrofuran	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	1,1,1-Trichloroethane	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Carbon Tetrachloride	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Naphthalene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Tetrachloroethene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Trichloroethene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	1,1,1-Trichloroethane	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	1,1,2,2-Tetrachloroethane	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	Carbon Tetrachloride	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	Tetrachloroethene	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL043110.D	Trichloroethene	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC015	VL043111.D	m/p-Xylene	sam	10/16/2025 4:38:35 AM	MMdadoda	10/16/2025 4:41:24 AM	Peak Integrated by Software
VSTDICV010	VL043112.D	Ethanol	sam	10/16/2025 4:38:41 AM	MMdadoda	10/16/2025 4:41:28 AM	Peak Integrated by Software
VSTDICV010	VL043112.D	m/p-Xylene	sam	10/16/2025 4:38:41 AM	MMdadoda	10/16/2025 4:41:28 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL110625	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043155.D	m/p-Xylene	sam	11/7/2025 1:59:45 PM	MMDadoda	11/10/2025 1:00:25 PM	Peak Integrated by Software
VL1106ABS01	VL043157.D	m/p-Xylene	sam	11/7/2025 1:59:50 PM	MMDadoda	11/10/2025 1:00:29 PM	Peak Integrated by Software
Q3555-02DUP	VL043159.D	2,2,4-Trimethylpentane	sam	11/7/2025 1:59:55 PM	MMDadoda	11/10/2025 1:00:36 PM	Peak Integrated by Software
Q3555-02DUP	VL043159.D	Benzene	sam	11/7/2025 1:59:55 PM	MMDadoda	11/10/2025 1:00:36 PM	Peak Integrated by Software
Q3555-02DUP	VL043159.D	Chlorodifluoromethane	sam	11/7/2025 1:59:55 PM	MMDadoda	11/10/2025 1:00:36 PM	Peak Integrated by Software
Q3555-02DUP	VL043159.D	Heptane	sam	11/7/2025 1:59:55 PM	MMDadoda	11/10/2025 1:00:36 PM	Peak Integrated by Software
Q3555-02DUP	VL043159.D	m/p-Xylene	sam	11/7/2025 1:59:55 PM	MMDadoda	11/10/2025 1:00:36 PM	Peak Integrated by Software
Q3555-02DUP	VL043159.D	o-Xylene	sam	11/7/2025 1:59:55 PM	MMDadoda	11/10/2025 1:00:36 PM	Peak Integrated by Software
Q3557-01	VL043163.D	Carbon Tetrachloride	sam	11/7/2025 2:00:45 PM	MMDadoda	11/10/2025 1:00:54 PM	Peak Integrated by Software
Q3557-01	VL043163.D	Chlorodifluoromethane	sam	11/7/2025 2:00:45 PM	MMDadoda	11/10/2025 1:00:54 PM	Peak Integrated by Software
Q3557-01	VL043163.D	Toluene	sam	11/7/2025 2:00:45 PM	MMDadoda	11/10/2025 1:00:54 PM	Peak Integrated by Software
Q3557-02	VL043164.D	2-Hexanone	sam	11/7/2025 2:01:34 PM	MMDadoda	11/10/2025 1:01:01 PM	Peak Integrated by Software
Q3557-02	VL043164.D	Carbon Tetrachloride	sam	11/7/2025 2:01:34 PM	MMDadoda	11/10/2025 1:01:01 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL110625	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3557-02	VL043164.D	Chlorodifluoromethane	sam	11/7/2025 2:01:34 PM	MMDadoda	11/10/2025 1:01:01 PM	Peak Integrated by Software
Q3557-02	VL043164.D	Ethyl Benzene	sam	11/7/2025 2:01:34 PM	MMDadoda	11/10/2025 1:01:01 PM	Peak Integrated by Software
Q3557-02	VL043164.D	Heptane	sam	11/7/2025 2:01:34 PM	MMDadoda	11/10/2025 1:01:01 PM	Peak Integrated by Software
Q3557-02	VL043164.D	Naphthalene	sam	11/7/2025 2:01:34 PM	MMDadoda	11/10/2025 1:01:01 PM	Peak Integrated by Software
Q3557-02	VL043164.D	Propene	sam	11/7/2025 2:01:34 PM	MMDadoda	11/10/2025 1:01:01 PM	Peak Integrated by Software
Q3557-03	VL043165.D	Chlorodifluoromethane	sam	11/7/2025 2:01:40 PM	MMDadoda	11/10/2025 1:01:06 PM	Peak Integrated by Software
Q3557-03	VL043165.D	Heptane	sam	11/7/2025 2:01:40 PM	MMDadoda	11/10/2025 1:01:06 PM	Peak Integrated by Software
Q3557-03	VL043165.D	m/p-Xylene	sam	11/7/2025 2:01:40 PM	MMDadoda	11/10/2025 1:01:06 PM	Peak Integrated by Software
Q3557-03	VL043165.D	Propene	sam	11/7/2025 2:01:40 PM	MMDadoda	11/10/2025 1:01:06 PM	Peak Integrated by Software
Q3557-02DL	VL043172.D	2-Hexanone	sam	11/7/2025 2:01:06 PM	MMDadoda	11/10/2025 1:01:24 PM	Peak Integrated by Software
Q3557-02DL	VL043172.D	Benzene	sam	11/7/2025 2:01:06 PM	MMDadoda	11/10/2025 1:01:24 PM	Peak Integrated by Software
Q3557-02DL	VL043172.D	Isopropyl Alcohol	sam	11/7/2025 2:01:06 PM	MMDadoda	11/10/2025 1:01:24 PM	Peak Integrated by Software
Q3557-02DL	VL043172.D	Propene	sam	11/7/2025 2:01:06 PM	MMDadoda	11/10/2025 1:01:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL110625

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3557-02DL	VL043172.D	Toluene	sam	11/7/2025 2:01:06 PM	MMDadoda	11/10/2025 1:01:24 PM	Peak Integrated by Software
Q3557-04	VL043177.D	Carbon Tetrachloride	sam	11/7/2025 2:00:07 PM	MMDadoda	11/10/2025 1:01:45 PM	Peak Integrated by Software
Q3557-04	VL043177.D	Toluene	sam	11/7/2025 2:00:07 PM	MMDadoda	11/10/2025 1:01:45 PM	Peak Integrated by Software
Q3557-04	VL043177.D	Trichlorofluoromethane	sam	11/7/2025 2:00:07 PM	MMDadoda	11/10/2025 1:01:45 PM	Peak Integrated by Software
Q3557-05	VL043178.D	Carbon Tetrachloride	sam	11/7/2025 2:00:03 PM	MMDadoda	11/10/2025 1:01:48 PM	Peak Integrated by Software
Q3557-05	VL043178.D	Chlorodifluoromethane	sam	11/7/2025 2:00:03 PM	MMDadoda	11/10/2025 1:01:48 PM	Peak Integrated by Software
Q3557-05	VL043178.D	Tetrachloroethene	sam	11/7/2025 2:00:03 PM	MMDadoda	11/10/2025 1:01:48 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL101425

Review By	Semsettin Yesilyurt	Review On	10/14/2025 2:02:14 PM		
Supervise By	Maresh Dadoda	Supervise On	10/16/2025 4:41:37 AM		
SubDirectory	VL101425	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2684			
Initial Calibration Stds		AP2687,AP2688,AP2689			
CCC		AP2687			
Internal Standard/PEM		AP2684			
ICV/I.BLK		AP2690			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043103.D	14 Oct 2025 08:42	SY/MD	Ok
2	VSTDIC0.5	VL043104.D	14 Oct 2025 09:57	SY/MD	Not Ok
3	VSTDICCC010	VL043105.D	14 Oct 2025 10:31	SY/MD	Ok,M
4	VSTDIC002	VL043106.D	14 Oct 2025 11:27	SY/MD	Ok,M
5	VSTDIC001	VL043107.D	14 Oct 2025 12:01	SY/MD	Ok,M
6	VSTDIC0.5	VL043108.D	14 Oct 2025 12:34	SY/MD	Ok,M
7	VSTDIC0.1	VL043109.D	14 Oct 2025 13:08	SY/MD	Ok,M
8	VSTDIC0.03	VL043110.D	14 Oct 2025 13:42	SY/MD	Ok,M
9	VSTDIC015	VL043111.D	14 Oct 2025 14:18	SY/MD	Ok,M
10	VSTDICV010	VL043112.D	14 Oct 2025 14:51	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL110625

Review By	Semsettin Yesilyurt	Review On	11/10/2025 11:08:23 AM		
Supervise By	Maresh Dadoda	Supervise On	11/10/2025 1:02:12 PM		
SubDirectory	VL110625	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2684			
Initial Calibration Stds		AP2687,AP2688,AP2689			
CCC		AP2687			
Internal Standard/PEM		AP2684			
ICV/I.BLK		AP2690			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043154.D	06 Nov 2025 06:24	SY/MD	Ok
2	VSTDCCC010	VL043155.D	06 Nov 2025 07:19	SY/MD	Ok,M
3	VL1106ABL01	VL043156.D	06 Nov 2025 08:02	SY/MD	Ok
4	VL1106ABS01	VL043157.D	06 Nov 2025 08:45	SY/MD	Ok,M
5	Q3555-02	VL043158.D	06 Nov 2025 09:42	SY/MD	Ok,M
6	Q3555-02DUP	VL043159.D	06 Nov 2025 10:17	SY/MD	Ok,M
7	Q3555-01	VL043160.D	06 Nov 2025 10:51	SY/MD	Ok,M
8	Q3556-01	VL043161.D	06 Nov 2025 11:36	SY/MD	Ok,M
9	Q3556-02	VL043162.D	06 Nov 2025 12:10	SY/MD	Ok,M
10	Q3557-01	VL043163.D	06 Nov 2025 12:44	SY/MD	Ok,M
11	Q3557-02	VL043164.D	06 Nov 2025 13:17	SY/MD	Dilution
12	Q3557-03	VL043165.D	06 Nov 2025 13:50	SY/MD	Ok,M
13	Q3555-04DL	VL043166.D	06 Nov 2025 14:22	SY/MD	Ok
14	Q3555-03DL	VL043167.D	06 Nov 2025 14:54	SY/MD	Ok,M
15	Q3556-03DL	VL043168.D	06 Nov 2025 15:27	SY/MD	Not Ok
16	Q3556-04DL	VL043169.D	06 Nov 2025 15:59	SY/MD	Not Ok
17	Q3557-04DL	VL043170.D	06 Nov 2025 16:31	SY/MD	Not Ok
18	Q3557-05DL	VL043171.D	06 Nov 2025 17:03	SY/MD	Ok
19	Q3557-02DL	VL043172.D	06 Nov 2025 17:35	SY/MD	Ok,M
20	Q3555-04	VL043173.D	06 Nov 2025 18:23	SY/MD	Dilution
21	Q3555-03	VL043174.D	06 Nov 2025 18:57	SY/MD	Dilution

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL110625

Review By	Semsettin Yesilyurt	Review On	11/10/2025 11:08:23 AM		
Supervise By	Maresh Dadoda	Supervise On	11/10/2025 1:02:12 PM		
SubDirectory	VL110625	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2684			
Initial Calibration Stds		AP2687,AP2688,AP2689			
CCC		AP2687			
Internal Standard/PEM		AP2684			
ICV/I.BLK		AP2690			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3556-03	VL043175.D	06 Nov 2025 19:30	SY/MD	Ok,M
23	Q3556-04	VL043176.D	06 Nov 2025 20:03	SY/MD	Ok,M
24	Q3557-04	VL043177.D	06 Nov 2025 20:35	SY/MD	Ok,M
25	Q3557-05	VL043178.D	06 Nov 2025 21:08	SY/MD	Dilution

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL101425

Review By	Semsettin Yesilyurt	Review On	10/14/2025 2:02:14 PM
Supervise By	Maresh Dadoda	Supervise On	10/16/2025 4:41:37 AM
SubDirectory	VL101425	HP Acquire Method	TO15AIR
		HP Processing Method	VL101425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043103.D	14 Oct 2025 08:42		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	VL043104.D	14 Oct 2025 09:57	not use	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL043105.D	14 Oct 2025 10:31		SY/MD	Ok,M
4	VSTDICC002	VSTDICC002	VL043106.D	14 Oct 2025 11:27		SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL043107.D	14 Oct 2025 12:01		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL043108.D	14 Oct 2025 12:34		SY/MD	Ok,M
7	VSTDICC0.1	VSTDICC0.1	VL043109.D	14 Oct 2025 13:08		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL043110.D	14 Oct 2025 13:42		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	VL043111.D	14 Oct 2025 14:18		SY/MD	Ok,M
10	VSTDICV010	ICVVL101425	VL043112.D	14 Oct 2025 14:51		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL110625

Review By	Semsettin Yesilyurt	Review On	11/10/2025 11:08:23 AM
Supervise By	Mahesh Dadoda	Supervise On	11/10/2025 1:02:12 PM
SubDirectory	VL110625	HP Acquire Method	TO15AIR
		HP Processing Method	VL101425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043154.D	06 Nov 2025 06:24		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043155.D	06 Nov 2025 07:19		SY/MD	Ok,M
3	VL1106ABL01	VL1106ABL01	VL043156.D	06 Nov 2025 08:02		SY/MD	Ok
4	VL1106ABS01	VL1106ABS01	VL043157.D	06 Nov 2025 08:45		SY/MD	Ok,M
5	Q3555-02	151-IA-2	VL043158.D	06 Nov 2025 09:42		SY/MD	Ok,M
6	Q3555-02DUP	151-IA-2DUP	VL043159.D	06 Nov 2025 10:17		SY/MD	Ok,M
7	Q3555-01	151-IA-1	VL043160.D	06 Nov 2025 10:51		SY/MD	Ok,M
8	Q3556-01	131-IA1	VL043161.D	06 Nov 2025 11:36		SY/MD	Ok,M
9	Q3556-02	131-IA2	VL043162.D	06 Nov 2025 12:10		SY/MD	Ok,M
10	Q3557-01	141-AA-1	VL043163.D	06 Nov 2025 12:44		SY/MD	Ok,M
11	Q3557-02	141-IA-1	VL043164.D	06 Nov 2025 13:17	Need 4X	SY/MD	Dilution
12	Q3557-03	141-IA2	VL043165.D	06 Nov 2025 13:50		SY/MD	Ok,M
13	Q3555-04DL	151-SG-2DL	VL043166.D	06 Nov 2025 14:22	4	SY/MD	Ok
14	Q3555-03DL	151-SG-1DL	VL043167.D	06 Nov 2025 14:54	3	SY/MD	Ok,M
15	Q3556-03DL	131-SG-1DL	VL043168.D	06 Nov 2025 15:27	Run @ Lower Dilution	SY/MD	Not Ok
16	Q3556-04DL	131-SG-2DL	VL043169.D	06 Nov 2025 15:59	Run @ Lower Dilution	SY/MD	Not Ok
17	Q3557-04DL	141-SG-1DL	VL043170.D	06 Nov 2025 16:31	Run @ Lower Dilution	SY/MD	Not Ok
18	Q3557-05DL	141-SG-2DL	VL043171.D	06 Nov 2025 17:03		SY/MD	Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL110625

Review By	Semsettin Yesilyurt	Review On	11/10/2025 11:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/10/2025 1:02:12 PM		
SubDirectory	VL110625	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2684				
Initial Calibration Stds	AP2687,AP2688,AP2689				
CCC	AP2687				
Internal Standard/PEM	AP2684				
ICV/I.BLK	AP2690				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q3557-02DL	141-IA-1DL	VL043172.D	06 Nov 2025 17:35		SY/MD	Ok,M
20	Q3555-04	151-SG-2	VL043173.D	06 Nov 2025 18:23	Need 10X	SY/MD	Dilution
21	Q3555-03	151-SG-1	VL043174.D	06 Nov 2025 18:57	Need 10X	SY/MD	Dilution
22	Q3556-03	131-SG-1	VL043175.D	06 Nov 2025 19:30		SY/MD	Ok,M
23	Q3556-04	131-SG-2	VL043176.D	06 Nov 2025 20:03		SY/MD	Ok,M
24	Q3557-04	141-SG-1	VL043177.D	06 Nov 2025 20:35		SY/MD	Ok,M
25	Q3557-05	141-SG-2	VL043178.D	06 Nov 2025 21:08	Need 10X	SY/MD	Dilution

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3557

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL110625,

Standard ID :

AP2684,AP2687,AP2688,AP2689,AP2690,

Chemical ID :

A1117,A1138,A1142,A1143,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2684	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/03/2025

FROM 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2687	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/03/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1142 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2688	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/03/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2687 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2689	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/03/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2687 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2690	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/03/2025
<u>FROM</u>	1455.00000SCCM of A1117 + 45.00000SCCM of A1143 = Final Quantity: 30.000 psi							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	12/16/2025	07/15/2025 / SAM	07/14/2025 / SAM	A1138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	051925-001A	10/01/2026	10/13/2025 / sam	10/13/2025 / sam	A1142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	051925-001B	10/01/2026	10/13/2025 / sam	10/13/2025 / sam	A1143

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

rec: 07/14/25
A 1138

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 012/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance:

+/- 10 %

Analytical Tolerance:

+/- 5 %

Traceability:

NIST by weight set. NIST Traceability No MT001810.

Internal Standards by analysis

Reactive Mixtures:

Analyzed twice with required agreement between analyses of 2%.

Required wait time between analyses of >7 days.

Caution:

Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

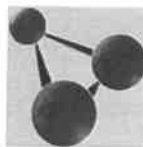
QA Signature:

Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A1142
Rec 10/13/25

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC993219
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 10/01/2025
Expiration Date: 10/01/2026
Lot Number: 051925-001A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	051925-001	Email051925	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	508 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	515 ppb +/- 50 ppb	
Acrolein	500 ppb	514 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	519 ppb +/- 50 ppb	
Allyl chloride	500 ppb	499 ppb +/- 50 ppb	
Benzene	500 ppb	475 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	480 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	500 ppb +/- 50 ppb	
Bromoform	500 ppb	486 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	495 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	512 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	476 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	497 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	483 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	483 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	512 ppb +/- 50 ppb	
Cyclohexane	500 ppb	474 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	500 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	481 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	499 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	488 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	484 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	480 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	481 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	507 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	457 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	496 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	475 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	477 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	513 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	488 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	497 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	477 ppb +/- 50 ppb	
n-Heptane	500 ppb	478 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	480 ppb +/- 50 ppb	
2-Hexanone	500 ppb	482 ppb +/- 50 ppb	
n-Hexane	500 ppb	476 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	502 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	507 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	515 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	496 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	499 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	487 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	484 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	512 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	474 ppb +/- 50 ppb	
Methylene chloride	500 ppb	489 ppb +/- 50 ppb	
Naphthalene	500 ppb	506 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	510 ppb +/- 50 ppb	
Propylene	500 ppb	499 ppb +/- 50 ppb	
Styrene	500 ppb	477 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	515 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	475 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	478 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	504 ppb +/- 50 ppb	
Toluene	500 ppb	482 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	485 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	485 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	485 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	479 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	499 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	486 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	485 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	489 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	480 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	490 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	496 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	484 ppb +/- 50 ppb	
o-Xylene	500 ppb	471 ppb +/- 50 ppb	
p-Xylene	500 ppb	477 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

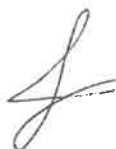
NOTES: Blend Tolerance: +/- 10 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 10/01/2025



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A 1143

Rec 10/13/25

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC785565
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 10/01/2025
Expiration Date: 10/01/2026
Lot Number: 051925-001B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	051925-001	Email051925	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	525 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	525 ppb +/- 50 ppb	
Acrolein	500 ppb	534 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	530 ppb +/- 50 ppb	
Allyl chloride	500 ppb	517 ppb +/- 50 ppb	
Benzene	500 ppb	492 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	497 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	518 ppb +/- 50 ppb	
Bromoform	500 ppb	503 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	512 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	523 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	520 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	520 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	493 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	515 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	500 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	496 ppb +/- 50 ppb	
Chloroform	500 ppb	500 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	523 ppb +/- 50 ppb	
Cyclohexane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	499 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	518 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	497 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	498 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	516 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	500 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	505 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	501 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	497 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	496 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	498 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	525 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	473 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	513 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	492 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	494 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	523 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	505 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	515 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	494 ppb +/- 50 ppb	
n-Heptane	500 ppb	495 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	497 ppb +/- 50 ppb	
2-Hexanone	500 ppb	499 ppb +/- 50 ppb	
n-Hexane	500 ppb	493 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	520 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	518 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	524 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	514 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	517 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	504 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	501 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	523 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	491 ppb +/- 50 ppb	
Methylene chloride	500 ppb	506 ppb +/- 50 ppb	
Naphthalene	500 ppb	517 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	519 ppb +/- 50 ppb	
Propylene	500 ppb	516 ppb +/- 50 ppb	
Styrene	500 ppb	494 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	525 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	492 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	495 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	510 ppb +/- 50 ppb	
Toluene	500 ppb	499 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	502 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	502 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	503 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	496 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	517 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	503 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	502 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	506 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	497 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	507 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	514 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	515 ppb +/- 50 ppb	
m-Xylene	500 ppb	501 ppb +/- 50 ppb	
o-Xylene	500 ppb	488 ppb +/- 50 ppb	
p-Xylene	500 ppb	494 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/- 10 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 10/01/2025



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Process Report

Order ID : Q3557

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/06/2025	B2510050	Q3557-04	-8.4	10674	1.4 L	10543		C2509004	VL042989.D Seq :VL092325 TUNE : VL042982.D ICAL : VL042955.D CCAL : VL042983.D MB : VL042984.D
11/06/2025	B2510050	Q3557-05	-9.6	10428	1.4 L	10484		C2509004	VL042989.D Seq :VL092325 TUNE : VL042982.D ICAL : VL042955.D CCAL : VL042983.D MB : VL042984.D
11/06/2025	B2510050	Q3557-02	-4.3	10300	6 L	10520		C2509002	VL042942.D Seq :VL091825 TUNE : VL042938.D ICAL : VL042934.D CCAL : VL042939.D MB : VL042940.D
11/06/2025	B2510050	Q3557-01	-4.7	10296	6 L	10482		C2505005	VL042598.D Seq :VL052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
11/06/2025	B2510050	Q3557-03	-5.1	10060	6 L	10236		C2509002	VL042942.D Seq :VL091825 TUNE : VL042938.D ICAL : VL042934.D CCAL : VL042939.D MB : VL042940.D



Canister Cleaning

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

Canister Batch : C2505005

Type of Canister : 6 L

Cleaning Date : 05/27/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10279	-30	05/28/2025	05/29/2025	-30	05/29/2025	Q2750-02	10609	VL042598.D
10609	-30	05/28/2025	05/29/2025	-30	05/29/2025	Q2834-01	10609	VL042598.D
10296	-30	05/28/2025	05/29/2025	-30	05/29/2025	Q3557-01	10609	VL042598.D
10604	-30	05/28/2025	05/29/2025	-30	05/29/2025	Q2834-02	10609	VL042598.D



Canister Cleaning

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

Canister Batch : C2509002

Type of Canister : 6 L

Cleaning Date : 09/11/2025

Analyst : sam

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10153	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3555-01	10060	VL042942.D
10283	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3556-02	10060	VL042942.D
10060	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3557-03	10060	VL042942.D
10602	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3320-03	10060	VL042942.D
10300	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3557-02	10060	VL042942.D
10443	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3320-06	10060	VL042942.D
10266	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3556-01	10060	VL042942.D
10053	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3320-01	10060	VL042942.D



Canister Cleaning

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

Canister Batch : C2509004

Type of Canister : 1.4 L

Cleaning Date : 02/26/2025

Analyst : sam

Oven Temperature : 125.0 c

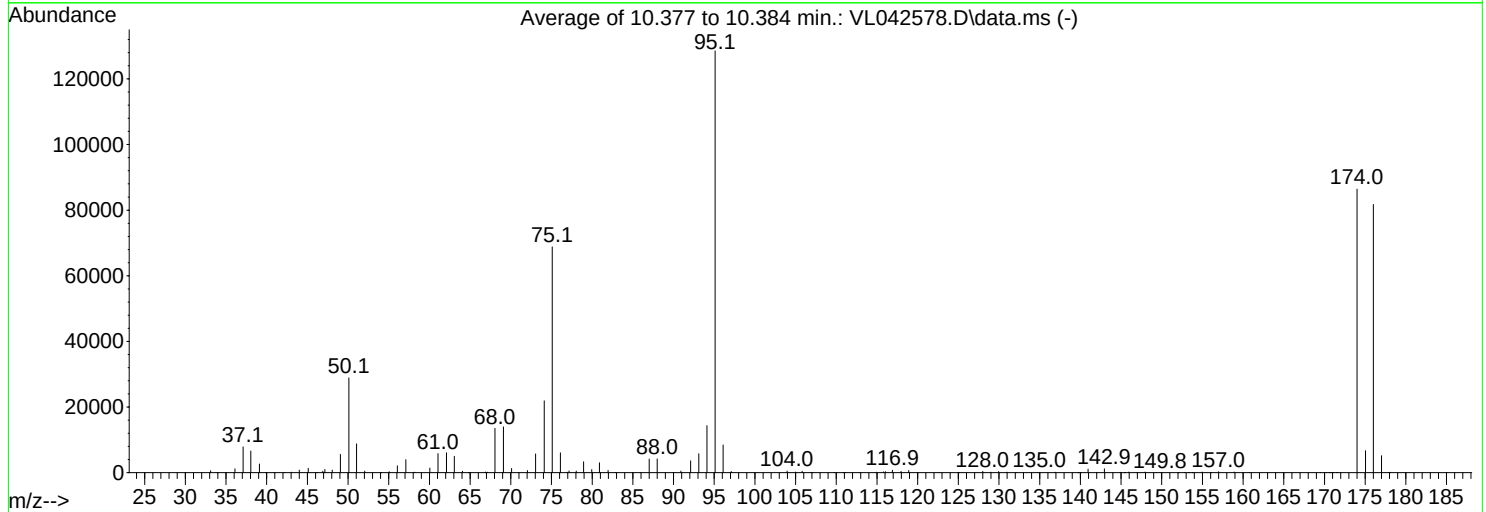
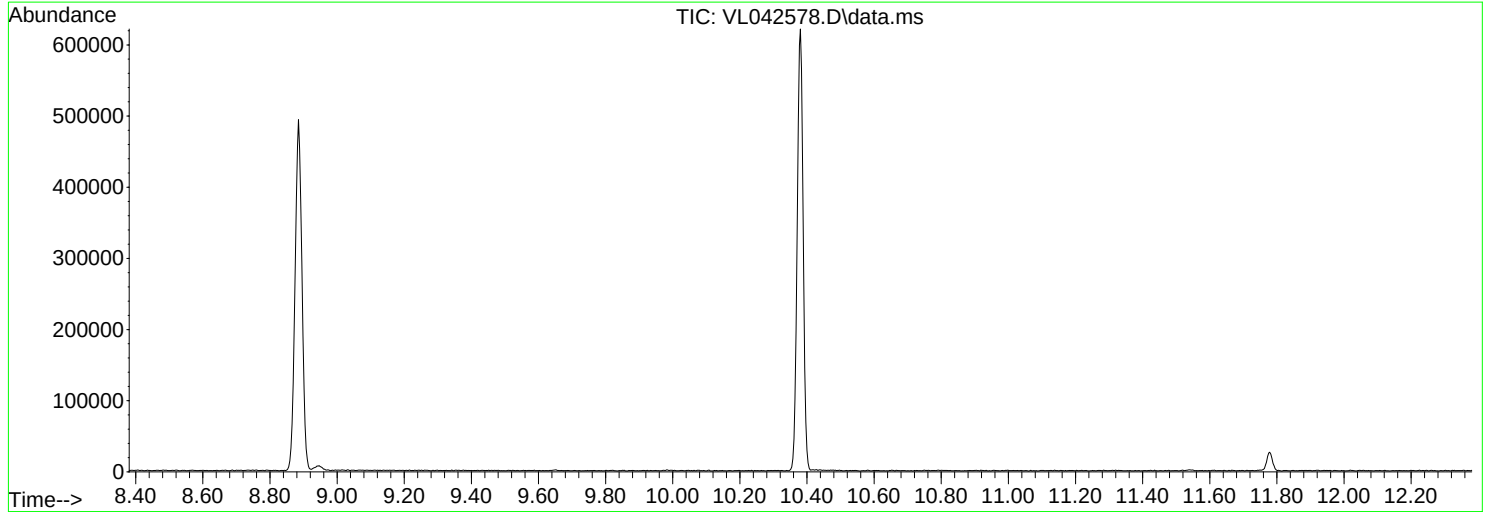
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10747	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-07	10747	VL042989.D
10752	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3556-04	10747	VL042989.D
10470	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10464	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3626-05	10747	VL042989.D
10435	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3626-06	10747	VL042989.D
10123	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3626-11	10747	VL042989.D
10737	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3556-03	10747	VL042989.D
10420	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-03	10420	VL042990.D
10743	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-06	10743	VL042991.D
10451	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10428	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3557-05	10747	VL042989.D
10423	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3555-04	10747	VL042989.D
10668	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-04	10668	VL042992.D
10122	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10136	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-01	10136	VL042987.D
10147	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-02	10147	VL042986.D
10674	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3557-04	10747	VL042989.D
10684	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-05	10684	VL042988.D
10653	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3555-03	10747	VL042989.D
10746	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D

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	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	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

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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2025

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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2025

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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2

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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2

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

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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 2

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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2

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

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 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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 : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2

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

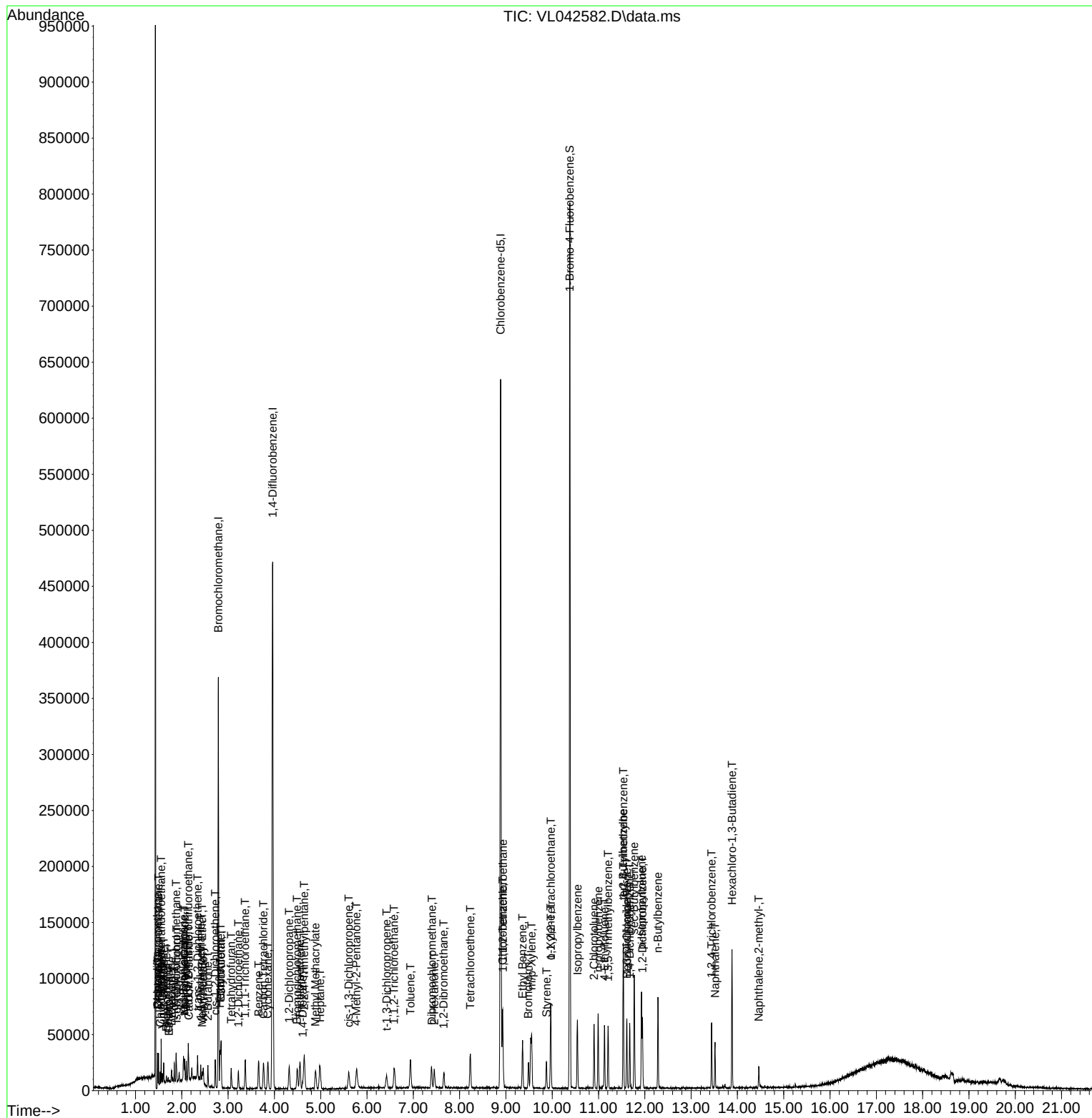
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042582.D
Acq On : 29 May 2025 12:47
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

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
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 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						
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

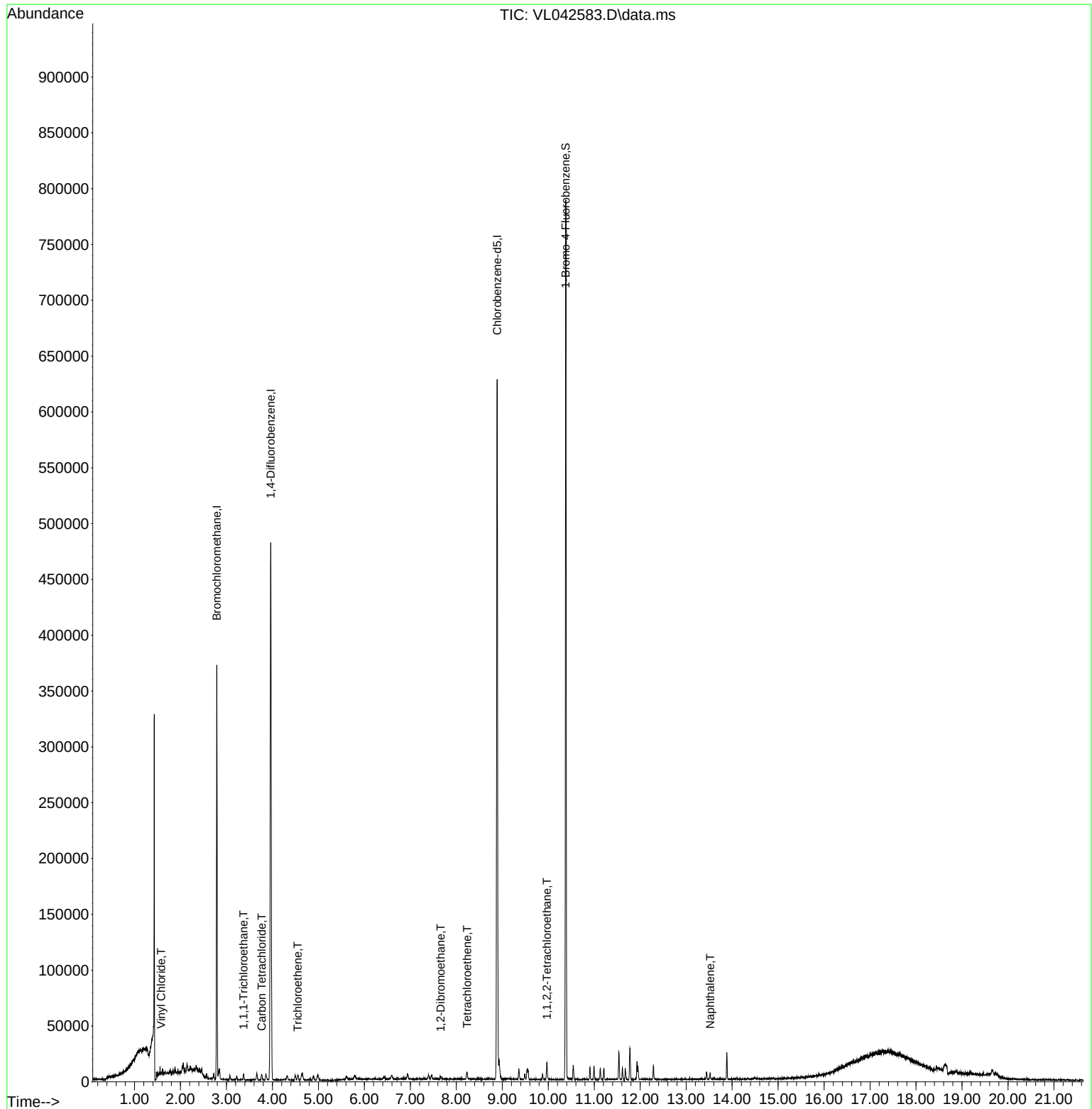
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

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
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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2
 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	
38) Trichloroethene	4.541	130	356m	0.028	ppbv	
52) Tetrachloroethene	8.228	164	321m	0.029	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv #	82

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

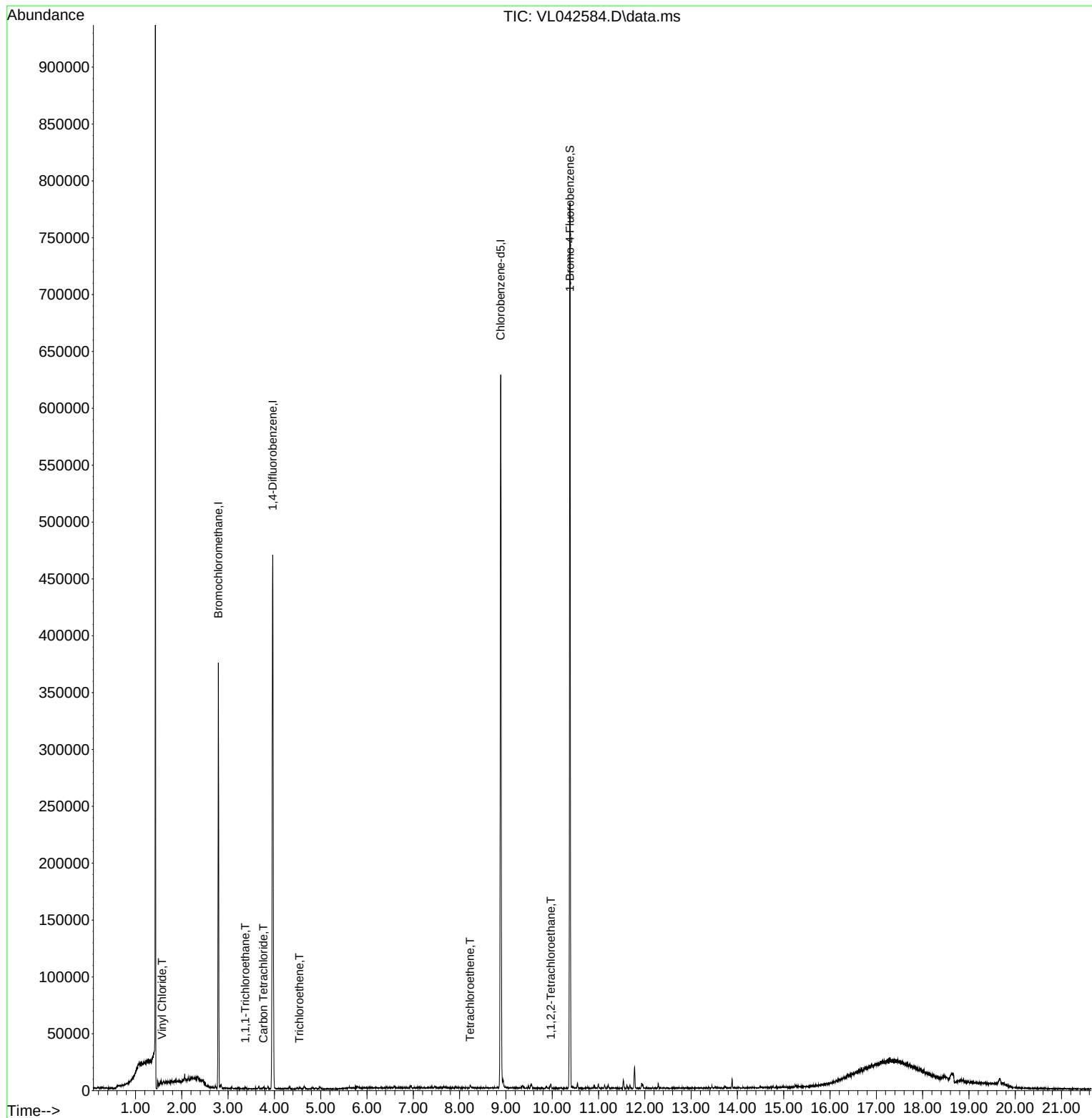
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
Supervised By : Mahesh Dadoda 05/30/2025



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

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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 2

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 : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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 2025

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

Manual Integrations

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
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 :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2

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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2025

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 :
 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)
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

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%

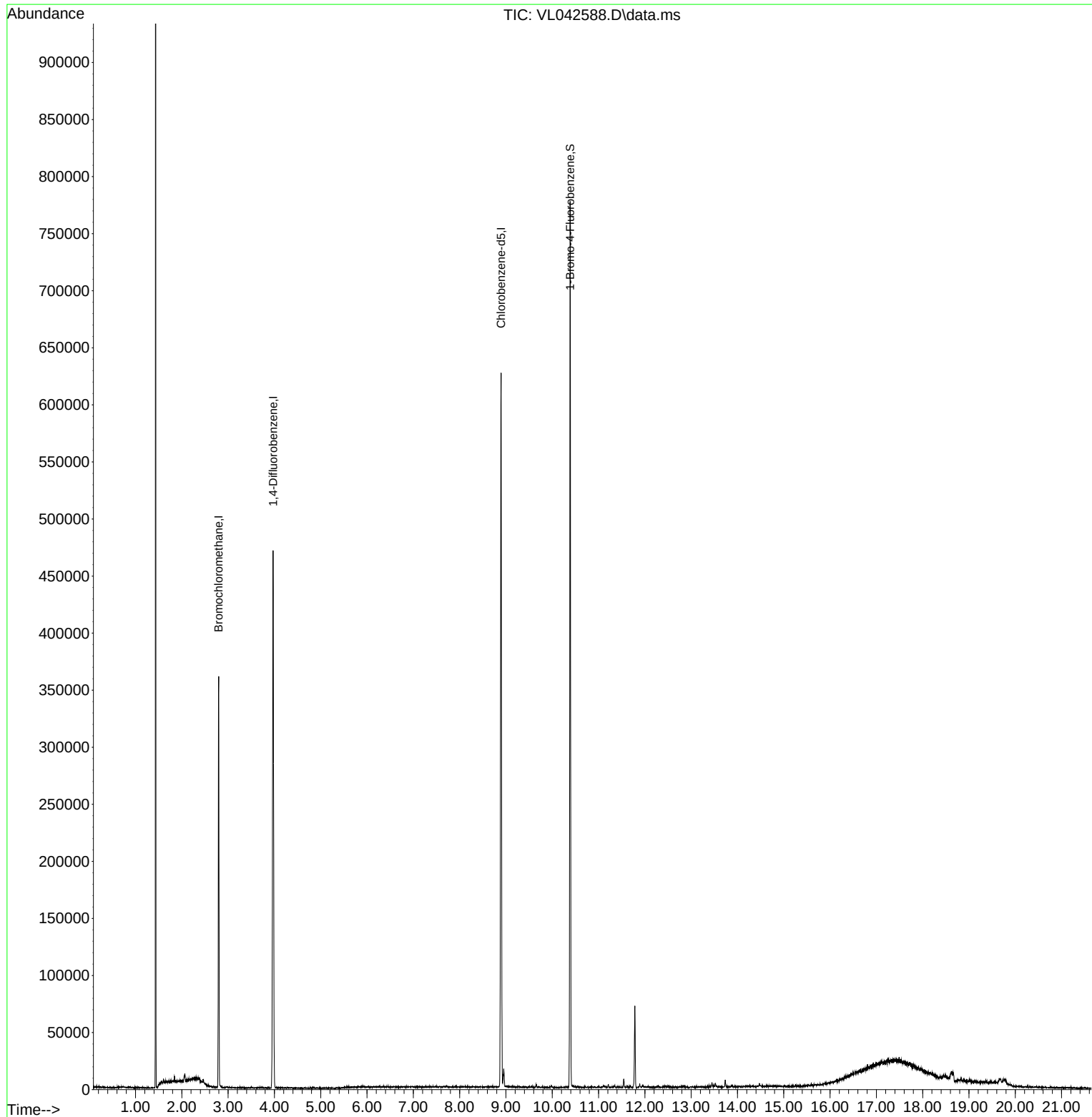
Target Compounds	Qvalue

(#) = 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



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

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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 2025

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

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

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 2025

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042598.D
 Acq On : 29 May 2025 22:18
 Operator : SY/MD
 Sample : QC052725 CAN 10609
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC052725 CAN 10609

Quant Time: May 30 02:15:27 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	2.794	49	101427	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	282373	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	253475	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	192879	10.151	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%

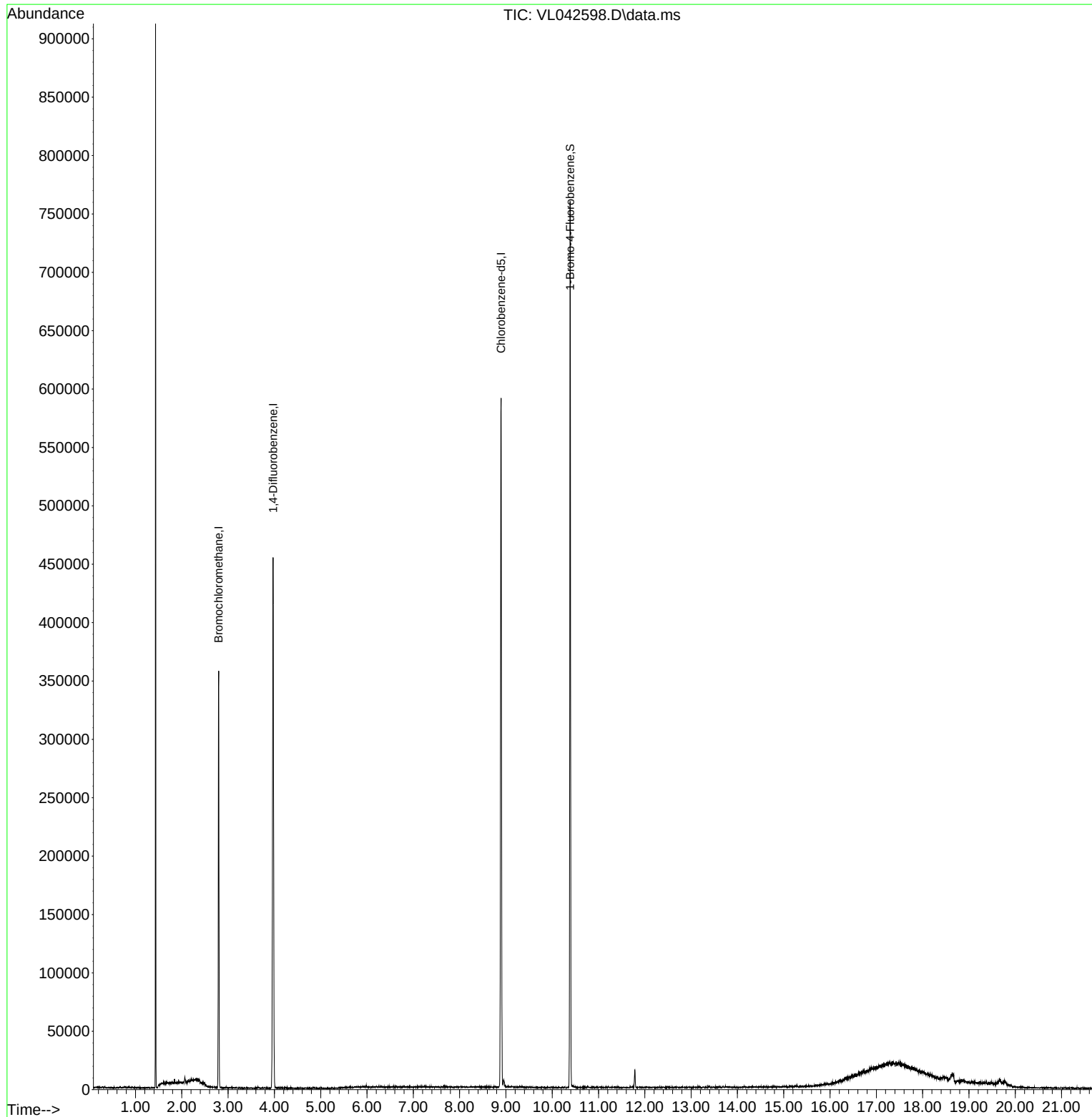
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042598.D
Acq On : 29 May 2025 22:18
Operator : SY/MD
Sample : QC052725 CAN 10609
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC052725 CAN 10609

Quant Time: May 30 02:15:27 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

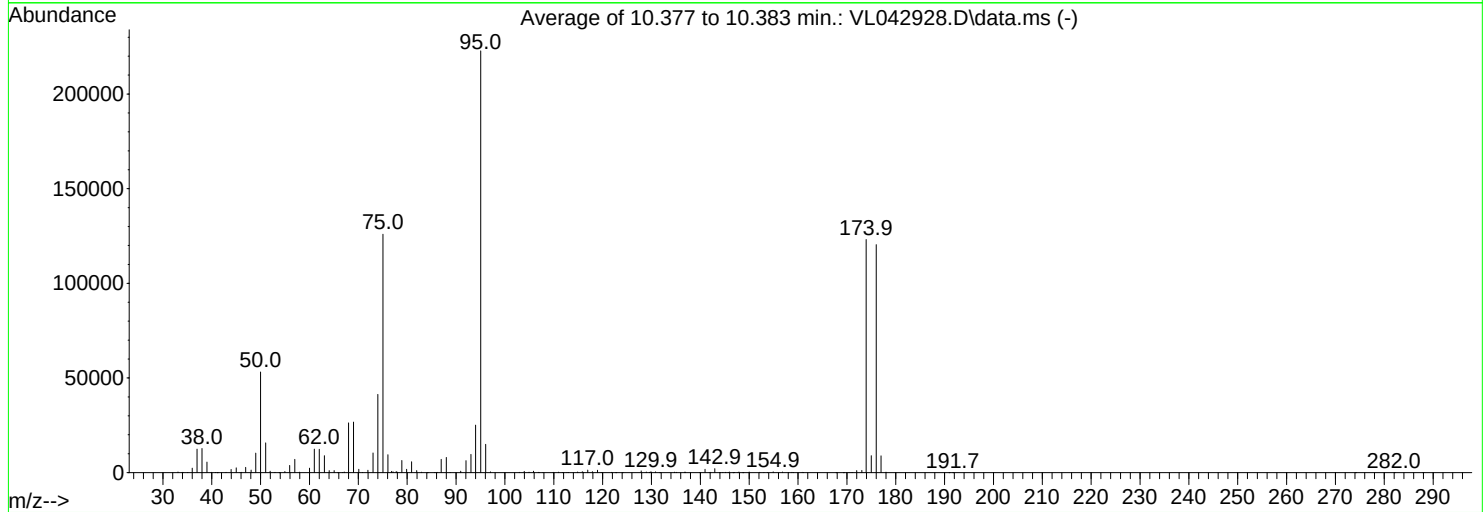
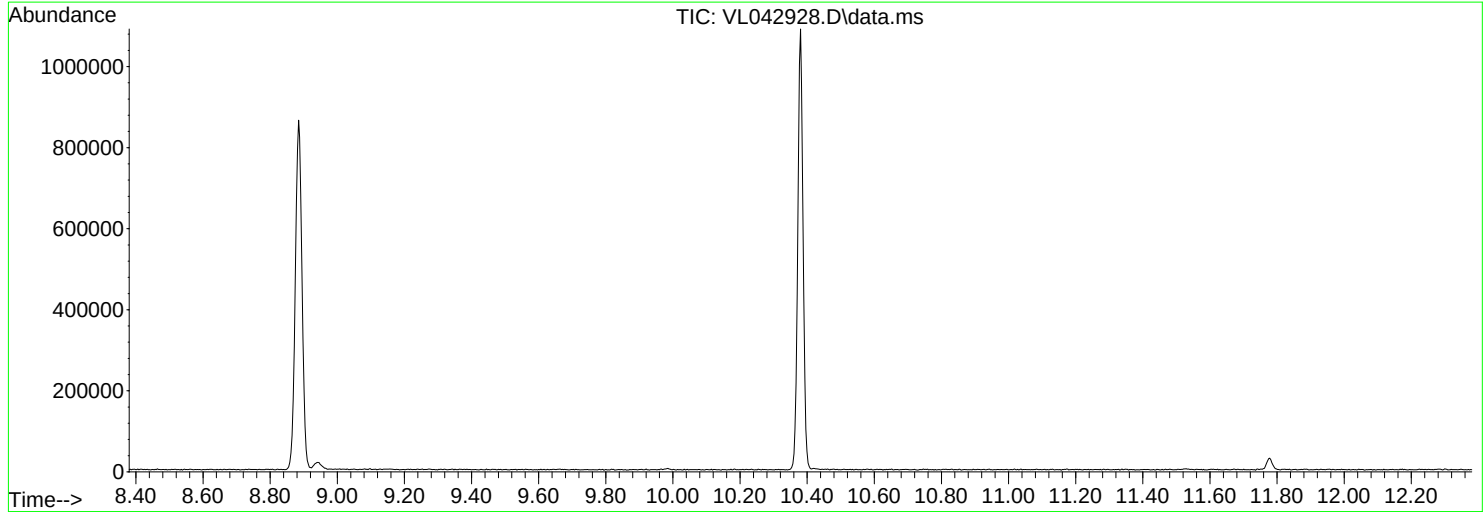


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042928.D
Acq On : 17 Sep 2025 07:51
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Sep 18 02:57:46 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	23.9	53203	PASS
75	95	30	66	56.5	125915	PASS
95	95	100	100	100.0	222805	PASS
96	95	5	9	6.7	14943	PASS
173	174	0.00	2	1.0	1195	PASS
174	95	50	120	55.3	123173	PASS
175	174	4	9	7.3	8935	PASS
176	174	93	101	97.8	120472	PASS
177	176	5	9	7.4	8875	PASS

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

Method File : VL091725AIR.M

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

Last Update : Thu Sep 18 02:57:46 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042934.D 0.1 =VL042933.D 0.5 =VL042932.D 1 =VL042931.D 2 =VL042930.D 10 =VL042935.D 15 =VL042936.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.465	1.446	1.419	1.445	1.366	1.428	2.68
3) Chlorodifluoro...			1.556	1.534	1.491	1.484	1.454	1.504	2.71
4) Chloromethane			0.588	0.622	0.536	0.574	0.550	0.574	5.88
5) T Vinyl Chloride	0.669	0.586	0.545	0.504	0.497	0.500	0.491	0.542	12.13
6) T Bromomethane			0.217	0.175	0.178	0.190	0.181	0.188	8.96
7) Chloroethane			0.192	0.213	0.190	0.201	0.201	0.199	4.63
8) T Dichlorotetra...			1.154	1.166	1.103	1.143	1.100	1.133	2.65
9) T Propene			0.515	0.564	0.548	0.538	0.581	0.549	4.59
10) T Heptane			1.004	1.233	1.352	1.616	1.599	1.361	18.93
11) T Trichlorofluor...			1.400	1.490	1.370	1.429	1.366	1.411	3.63
12) T 1,1,2-Trichlor...			1.135	1.135	1.064	1.113	1.064	1.102	3.26
13) Ethanol			0.070	0.059	0.056	0.048	0.048	0.056	16.18
14) T Bromoethene			0.407	0.414	0.366	0.391	0.386	0.393	4.73
15) T Acetone			1.420	1.359	1.246	1.072	1.045	1.228	13.65
16) T 1,3-Butadiene			0.579	0.529	0.472	0.494	0.494	0.514	8.13
17) tert-Butyl alc...			1.224	1.255	1.114	1.170	1.151	1.183	4.78
18) T 1,1-Dichloroet...			0.474	0.489	0.482	0.488	0.479	0.483	1.33
19) T Isopropyl Alcohol			0.721	0.680	0.617	0.644	0.631	0.659	6.40
20) T Methylene Chlo...			0.716	0.611	0.510	0.421	0.415	0.535	24.11
21) T Allyl Chloride			0.883	0.815	0.814	0.826	0.824	0.833	3.47
22) T trans-1,2-Dich...			0.550	0.575	0.528	0.549	0.533	0.547	3.34
23) T Vinyl Acetate			1.374	1.284	1.357	1.484	1.638	1.427	9.65
24) T 1,1-Dichloroet...			1.105	1.080	1.050	1.099	1.067	1.080	2.08
25) T Ethyl Acetate			2.360	2.502	2.630	2.836	2.786	2.623	7.52
26) T Hexane			0.939	1.026	1.145	1.242	1.276	1.126	12.66
27) T Carbon Disulfide			1.436	1.458	1.317	1.375	1.355	1.388	4.18
28) T Methyl tert-Bu...			0.643	0.624	0.574	0.617	0.634	0.619	4.31
29) T Chloroform			1.803	1.891	1.823	1.865	1.817	1.840	1.99
30) T Cyclohexane			0.625	0.735	0.815	1.011	1.054	0.848	21.47
31) T cis-1,2-Dichlo...			0.968	1.086	1.102	1.149	1.190	1.099	7.64
32) T 1,1,1-Trichlor...	2.127	1.510	1.666	1.661	1.662	1.709	1.715	1.721	11.12

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.596	0.627	0.659	0.674	0.685	0.648	5.65
35) T Carbon Tetrach...	0.887	0.719	0.690	0.681	0.641	0.691	0.666	0.711	11.42
36) T Benzene			0.816	0.829	0.839	0.924	0.954	0.872	7.16
37) T 1,2-Dichloroet...			0.529	0.519	0.512	0.527	0.524	0.522	1.34
38) T Trichloroethene	0.503	0.376	0.373	0.353	0.354	0.402	0.403	0.395	13.08
39) T 1,2-Dichloropr...			0.358	0.351	0.338	0.357	0.357	0.353	2.37

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL091725AIR.M										
40) T	1,4-Dioxane			0.099	0.122	0.113	0.147	0.144	0.125	16.30
41) T	Tetrahydrofuran			0.290	0.266	0.298	0.363	0.387	0.321	16.10
42) T	Bromodichlorom...			0.783	0.742	0.714	0.762	0.746	0.750	3.40
43) T	Methyl Methacr...			0.227	0.248	0.276	0.345	0.364	0.292	20.57
44) T	2,2,4-Trimethy...			1.170	1.300	1.471	1.687	1.646	1.455	15.20
45) T	t-1,3-Dichloro...			0.251	0.274	0.283	0.352	0.380	0.308	17.89
46) T	cis-1,3-Dichlo...			0.366	0.385	0.390	0.474	0.508	0.425	14.72
47) T	1,1,2-Trichlor...			0.352	0.353	0.352	0.376	0.365	0.359	2.94
48) T	Dibromochlorom...			0.548	0.562	0.536	0.588	0.580	0.563	3.84
49) T	Bromoform			0.429	0.411	0.425	0.472	0.460	0.439	5.87
50) T	4-Methyl-2-Pen...			0.595	0.664	0.728	0.933	0.955	0.775	20.83
51) T	2-Hexanone			0.423	0.450	0.510	0.740	0.755	0.576	27.84
52) T	Tetrachloroethene	0.327	0.224	0.256	0.254	0.263	0.279	0.281	0.269	11.80
53) T	Toluene			0.598	0.670	0.758	1.001	1.040	0.813	24.32
54) T	1,2-Dibromoethane	0.433		0.436	0.448	0.444	0.508	0.505	0.462	7.47
55) I	Chlorobenzene-d5	-----ISTD-----								
56) T	1,1,1,2-Tetrac...			0.517	0.512	0.493	0.527	0.498	0.509	2.78
57) T	Chlorobenzene			0.949	0.886	0.898	0.970	0.919	0.924	3.79
58) T	Ethyl Benzene			0.942	1.017	1.196	1.650	1.637	1.288	26.17
59) T	m/p-Xylene			0.738	0.884	1.104	1.392	1.325	1.089	25.72
60) T	o-Xylene			0.726	0.844	1.096	1.402	1.343	1.082	27.48
61) T	Styrene			0.245	0.299	0.340	0.556	0.573	0.403	37.70
62) T	Isopropylbenzene			1.142	1.307	1.541	2.003	1.891	1.577	23.38
63) T	1,1,2,2-Tetrac...	0.970	0.748	0.730	0.723	0.747	0.803	0.752	0.782	11.13
64) T	n-propylbenzene			0.277	0.343	0.413	0.517	0.494	0.409	24.68
65) T	tert-Butylbenzene			0.818	1.112	1.398	1.753	1.656	1.347	28.70
66) T	Benzyl Chloride			0.091	0.109	0.117	0.150	0.159	0.125	22.74
67) T	sec-Butylbenzene			1.399	1.798	2.090	2.561	2.401	2.050	22.80
68) S	1-Bromo-4-Fluo...	0.743	0.753	0.778	0.782	0.781	0.837	0.797	0.782	3.93
69) T	p-Isopropyltol...			0.986	1.282	1.606	2.067	1.958	1.580	28.70
70) T	n-Butylbenzene			0.982	1.300	1.709	2.228	2.085	1.661	31.50
71) T	2-Chlorotoluene			0.834	0.945	1.116	1.503	1.451	1.170	25.50
72) T	4-Ethyltoluene			0.779	0.977	1.252	1.691	1.633	1.267	31.48
73) T	1,3,5-Trimethy...			0.670	0.868	1.076	1.398	1.343	1.071	28.88
74) T	1,2,4-Trimethy...			0.781	1.074	1.337	1.603	1.498	1.258	26.47
75) T	1,3-Dichlorobe...			0.703	0.714	0.802	0.904	0.867	0.798	11.20
76) T	1,4-Dichlorobe...			0.629	0.674	0.762	0.913	0.860	0.768	15.65
77) T	1,2-Dichlorobe...			0.689	0.786	0.813	0.897	0.839	0.805	9.52
78) T	Hexachloro-1,3...			0.533	0.496	0.513	0.524	0.504	0.514	2.95
79) T	Naphthalene	0.394		0.438	0.609	0.972	1.344	1.338	0.849	50.88
80) T	Naphthalene,2-...			0.172	0.156	0.223	0.376	0.449	0.275	47.42
81) T	1,2,4-Trichlor...			0.267	0.366	0.485	0.635	0.645	0.479	34.52

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042930.D
 Acq On : 17 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Sep 18 02:27:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 18 02:25:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	164907	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	435071	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	369327	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	288273	9.986	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	46802	1.987	ppbv	95
3) Chlorodifluoromethane	1.476	51	49186	1.983	ppbv	100
4) Chloromethane	1.534	50	17675	1.867	ppbv	99
5) Vinyl Chloride	1.580	62	16393	1.836	ppbv #	86
6) Bromomethane	1.670	94	5883	1.896	ppbv	92
7) Chloroethane	1.706	64	6270	1.906	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	36390	1.947	ppbv	98
9) Propene	1.482	41	18062	1.994	ppbv	99
10) Heptane	4.981	43	44603	1.988	ppbv	99
11) Trichlorofluoromethane	1.877	101	45172	1.941	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	35102	1.931	ppbv	99
13) Ethanol	1.722	45	1853	2.007	ppbv	86
14) Bromoethene	1.780	108	12079	1.865	ppbv	99
15) Acetone	1.835	43	41083	2.028	ppbv	94
16) 1,3-Butadiene	1.609	39	15580	1.839	ppbv	97
17) tert-Butyl alcohol	2.042	59	36744	1.884	ppbv	98
18) 1,1-Dichloroethene	2.036	96	15909	1.999	ppbv	96
19) Isopropyl Alcohol	1.887	45	20335	1.873	ppbv #	1
20) Methylene Chloride	2.062	84	16824	1.908	ppbv	97
21) Allyl Chloride	2.097	41	26855	1.956	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	17418	1.931	ppbv	96
23) Vinyl Acetate	2.463	43	44744	1.901	ppbv	99
24) 1,1-Dichloroethane	2.408	63	34643	1.944	ppbv	97
25) Ethyl Acetate	2.835	43	86728	2.005	ppbv	99
26) Hexane	2.829	57	37751	2.034	ppbv	97
27) Carbon Disulfide	2.152	76	43441	1.897	ppbv #	71
28) Methyl tert-Butyl Ether	2.441	73	18935	1.856	ppbv	97
29) Chloroform	2.848	83	60110	1.981	ppbv	96
30) Cyclohexane	3.855	84	26874m	1.922	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	36341	2.005	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	54810	1.931	ppbv	100
34) 2-Butanone	2.560	43	57314	2.032	ppbv	100
35) Carbon Tetrachloride	3.764	117	55818	1.805	ppbv	99
36) Benzene	3.658	78	73010	1.924	ppbv	95
37) 1,2-Dichloroethane	3.221	62	44529	1.959	ppbv	100
38) Trichloroethene	4.548	130	30836	1.795	ppbv	98
39) 1,2-Dichloropropane	4.311	63	29453m	1.921	ppbv	
40) 1,4-Dioxane	4.599	88	9832m	1.807	ppbv	
41) Tetrahydrofuran	3.059	42	25945	1.871	ppbv	99
42) Bromodichloromethane	4.493	83	62170	1.906	ppbv	94
43) Methyl Methacrylate	4.884	69	23990m	1.885	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	127979	2.022	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	24591	1.836	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042930.D
 Acq On : 17 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:27:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

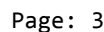
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	33947	1.838	ppbv	96
47) 1,1,2-Trichloroethane	6.580	97	30589m	1.956	ppbv	
48) Dibromochloromethane	7.389	129	46665	1.905	ppbv	98
49) Bromoform	9.483	173	36951	1.933	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	63384	1.886	ppbv	99
51) 2-Hexanone	7.441	43	44357	1.793	ppbv #	95
52) Tetrachloroethene	8.228	164	22859m	1.937	ppbv	
53) Toluene	6.939	91	65999m	1.866	ppbv	
54) 1,2-Dibromoethane	7.655	107	38670	1.923	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.927	131	36390	1.934	ppbv	95
57) Chlorobenzene	8.924	112	66303	1.942	ppbv	98
58) Ethyl Benzene	9.357	91	88328	1.856	ppbv	99
59) m/p-Xylene	9.551	91	163157m	4.057	ppbv	
60) o-Xylene	9.966	91	80966	2.025	ppbv	99
61) Styrene	9.875	104	25108	1.690	ppbv	98
62) Isopropylbenzene	10.542	105	113843	1.955	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.962	83	55150	1.910	ppbv	97
64) n-propylbenzene	10.992	120	30484	2.019	ppbv	97
65) tert-Butylbenzene	11.532	119	103228	2.074	ppbv	99
66) Benzyl Chloride	11.616	91	8657	1.872	ppbv	98
67) sec-Butylbenzene	11.769	105	154393	2.039	ppbv	99
69) p-Isopropyltoluene	11.927	119	118634	2.033	ppbv	98
70) n-Butylbenzene	12.283	91	126244	1.872	ppbv	98
71) 2-Chlorotoluene	10.904	91	82459	1.908	ppbv	100
72) 4-Ethyltoluene	11.128	105	92502	1.838	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	79446	2.009	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	98757	2.125	ppbv #	84
75) 1,3-Dichlorobenzene	11.607	146	59236	2.010	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	56252	1.984	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	60057	2.020	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	37895	1.996	ppbv	98
79) Naphthalene	13.513	128	71767	1.785	ppbv	98
80) Naphthalene,2-methyl-	14.461	142	16473	1.745	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	35795	1.886	ppbv	96

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

Manual Integrations

Quant Time: Sep 18 02:27:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042931.D
 Acq On : 17 Sep 2025 11:23
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:28:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	158272	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	413841	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	354619	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 277264 10.003 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	22884	1.012	ppbv	94
3) Chlorodifluoromethane	1.476	51	24279	1.020	ppbv	100
4) Chloromethane	1.534	50	9850	1.084	ppbv	98
5) Vinyl Chloride	1.583	62	7971	0.930	ppbv #	83
6) Bromomethane	1.670	94	2772	0.931	ppbv #	80
7) Chloroethane	1.706	64	3374	1.069	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	18455	1.029	ppbv	96
9) Propene	1.486	41	8924	1.027	ppbv	98
10) Heptane	4.981	43	19516m	0.906	ppbv	
11) Trichlorofluoromethane	1.877	101	23589	1.056	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.140	101	17971	1.030	ppbv	98
13) Ethanol	1.722	45	926	1.045	ppbv #	50
14) Bromoethene	1.783	108	6547	1.053	ppbv #	96
15) Acetone	1.839	43	21505	1.106	ppbv	95
16) 1,3-Butadiene	1.609	39	8380	1.031	ppbv	93
17) tert-Butyl alcohol	2.042	59	19857	1.061	ppbv	99
18) 1,1-Dichloroethene	2.036	96	7747	1.014	ppbv	95
19) Isopropyl Alcohol	1.887	45	10765	1.033	ppbv #	1
20) Methylene Chloride	2.062	84	9665	1.142	ppbv	95
21) Allyl Chloride	2.097	41	12905	0.979	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	9099	1.051	ppbv	91
23) Vinyl Acetate	2.463	43	20319	0.900	ppbv #	96
24) 1,1-Dichloroethane	2.411	63	17097	1.000	ppbv	98
25) Ethyl Acetate	2.835	43	39603	0.954	ppbv	98
26) Hexane	2.826	57	16236	0.911	ppbv	87
27) Carbon Disulfide	2.152	76	23073	1.050	ppbv #	79
28) Methyl tert-Butyl Ether	2.444	73	9873	1.009	ppbv	91
29) Chloroform	2.848	83	29928	1.028	ppbv	93
30) Cyclohexane	3.861	84	11631m	0.867	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	17192	0.988	ppbv	94
32) 1,1,1-Trichloroethane	3.366	97	26292	0.965	ppbv	99
34) 2-Butanone	2.557	43	25950	0.967	ppbv	99
35) Carbon Tetrachloride	3.761	117	28194	0.958	ppbv	91
36) Benzene	3.654	78	34301	0.950	ppbv	95
37) 1,2-Dichloroethane	3.217	62	21496	0.994	ppbv	100
38) Trichloroethene	4.551	130	14609	0.894	ppbv	98
39) 1,2-Dichloropropane	4.318	63	14533m	0.996	ppbv	
40) 1,4-Dioxane	4.599	88	5054m	0.977	ppbv	
41) Tetrahydrofuran	3.062	42	10997	0.834	ppbv	98
42) Bromodichloromethane	4.493	83	30707	0.990	ppbv	99
43) Methyl Methacrylate	4.887	69	10283m	0.849	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	53804	0.894	ppbv	92
45) t-1,3-Dichloropropene	6.415	75	11328m	0.889	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042931.D
 Acq On : 17 Sep 2025 11:23
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:28:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	15914m	0.906	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	14628m	0.983	ppbv	
48) Dibromochloromethane	7.386	129	23257	0.998	ppbv	98
49) Bromoform	9.487	173	16990	0.934	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	27486m	0.860	ppbv	
51) 2-Hexanone	7.441	43	18604m	0.791	ppbv	
52) Tetrachloroethene	8.224	164	10494	0.935	ppbv	92
53) Toluene	6.933	91	27724m	0.824	ppbv	
54) 1,2-Dibromoethane	7.655	107	18521	0.968	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.927	131	18170	1.006	ppbv #	1
57) Chlorobenzene	8.924	112	31407	0.958	ppbv	95
58) Ethyl Benzene	9.357	91	36048	0.789	ppbv	94
59) m/p-Xylene	9.551	91	62681m	1.623	ppbv	
60) o-Xylene	9.966	91	29945	0.780	ppbv	98
61) Styrene	9.872	104	10595	1.046	ppbv	97
62) Isopropylbenzene	10.542	105	46332	0.829	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	25646	0.925	ppbv	98
64) n-propylbenzene	10.992	120	12151	0.838	ppbv	97
65) tert-Butylbenzene	11.535	119	39439	0.825	ppbv	96
66) Benzyl Chloride	11.616	91	3848	0.867	ppbv	94
67) sec-Butylbenzene	11.769	105	63758	0.877	ppbv	98
69) p-Isopropyltoluene	11.927	119	45477	0.812	ppbv	97
70) n-Butylbenzene	12.283	91	46106	0.899	ppbv	95
71) 2-Chlorotoluene	10.901	91	33505	0.808	ppbv	99
72) 4-Ethyltoluene	11.124	105	34655	0.937	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.202	105	30778	0.810	ppbv	90
74) 1,2,4-Trimethylbenzene	11.535	105	38075	0.853	ppbv	96
75) 1,3-Dichlorobenzene	11.607	146	25315	0.895	ppbv	95
76) 1,4-Dichlorobenzene	11.675	146	23918	0.879	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	27862	0.976	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	17581	0.964	ppbv	98
79) Naphthalene	13.513	128	21593	0.809	ppbv	95
80) Naphthalene,2-methyl-	14.461	142	5523	1.103	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	12986	0.977	ppbv	96

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

Manual Integrations APPROVED

Quant Time: Sep 18 02:28:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042932.D
 Acq On : 17 Sep 2025 11:58
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Sep 18 02:29:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	156392	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	401247	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338744	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 263700 9.959 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11457	0.513	ppbv	99
3) Chlorodifluoromethane	1.476	51	12168	0.517	ppbv	100
4) Chloromethane	1.534	50	4596	0.512	ppbv #	84
5) Vinyl Chloride	1.580	62	4260	0.503	ppbv	90
6) Bromomethane	1.667	94	1694	0.576	ppbv #	79
7) Chloroethane	1.703	64	1499	0.481	ppbv	91
8) Dichlorotetrafluoroethane	1.554	85	9022	0.509	ppbv	91
9) Propene	1.483	41	4027	0.469	ppbv	90
10) Heptane	4.981	43	7851m	0.369	ppbv	
11) Trichlorofluoromethane	1.877	101	10951	0.496	ppbv	86
12) 1,1,2-Trichlorotrifluo...	2.140	101	8872	0.515	ppbv	100
13) Ethanol	1.722	45	545m	0.622	ppbv	
14) Bromoethene	1.780	108	3180	0.518	ppbv	97
15) Acetone	1.835	43	11107	0.578	ppbv	97
16) 1,3-Butadiene	1.609	39	4527	0.563	ppbv	98
17) tert-Butyl alcohol	2.042	59	9574	0.518	ppbv	100
18) 1,1-Dichloroethene	2.033	96	3704	0.491	ppbv	97
19) Isopropyl Alcohol	1.887	45	5637	0.547	ppbv #	97
20) Methylene Chloride	2.062	84	5602	0.670	ppbv #	89
21) Allyl Chloride	2.094	41	6908	0.531	ppbv	91
22) trans-1,2-Dichloroethene	2.340	96	4297	0.502	ppbv	89
23) Vinyl Acetate	2.463	43	10743	0.481	ppbv #	94
24) 1,1-Dichloroethane	2.408	63	8640	0.511	ppbv	98
25) Ethyl Acetate	2.839	43	18457	0.450	ppbv	97
26) Hexane	2.826	57	7346	0.417	ppbv #	83
27) Carbon Disulfide	2.149	76	11231	0.517	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	5027	0.520	ppbv	96
29) Chloroform	2.845	83	14102	0.490	ppbv	94
30) Cyclohexane	3.852	84	4888m	0.369	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	7566	0.440	ppbv #	87
32) 1,1,1-Trichloroethane	3.366	97	13029	0.484	ppbv	95
34) 2-Butanone	2.560	43	11954	0.460	ppbv	91
35) Carbon Tetrachloride	3.755	117	13842m	0.485	ppbv	
36) Benzene	3.654	78	16361	0.467	ppbv #	86
37) 1,2-Dichloroethane	3.217	62	10620	0.507	ppbv	97
38) Trichloroethene	4.548	130	7478m	0.472	ppbv	
39) 1,2-Dichloropropane	4.308	63	7185	0.508	ppbv #	81
40) 1,4-Dioxane	4.606	88	1992m	0.397	ppbv	
41) Tetrahydrofuran	3.059	42	5821m	0.455	ppbv	
42) Bromodichloromethane	4.489	83	15717m	0.522	ppbv	
43) Methyl Methacrylate	4.881	69	4550m	0.388	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	23481m	0.402	ppbv	
45) t-1,3-Dichloropropene	6.415	75	5044m	0.408	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042932.D
 Acq On : 17 Sep 2025 11:58
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:29:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	7341m	0.431	ppbv	
47) 1,1,2-Trichloroethane	6.583	97	7061m	0.490	ppbv	
48) Dibromochloromethane	7.380	129	10997m	0.487	ppbv	
49) Bromoform	9.484	173	8614	0.489	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	11932m	0.385	ppbv	
51) 2-Hexanone	7.444	43	8494m	0.372	ppbv	
52) Tetrachloroethene	8.234	164	5126m	0.471	ppbv	
53) Toluene	6.933	91	11993	0.368	ppbv	98
54) 1,2-Dibromoethane	7.658	107	8754m	0.472	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.927	131	8760m	0.507	ppbv	
57) Chlorobenzene	8.924	112	16080	0.514	ppbv #	92
58) Ethyl Benzene	9.354	91	15958	0.366	ppbv	91
59) m/p-Xylene	9.539	91	24990m	0.678	ppbv	
60) o-Xylene	9.963	91	12302	0.336	ppbv	100
61) Styrene	9.869	104	4154	0.748	ppbv	93
62) Isopropylbenzene	10.539	105	19343	0.362	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.959	83	12366m	0.467	ppbv	
64) n-propylbenzene	10.989	120	4697	0.339	ppbv	90
65) tert-Butylbenzene	11.529	119	13853	0.304	ppbv	91
66) Benzyl Chloride	11.613	91	1547	0.365	ppbv	95
67) sec-Butylbenzene	11.769	105	23691	0.341	ppbv	98
69) p-Isopropyltoluene	11.924	119	16694	0.312	ppbv	95
70) n-Butylbenzene	12.280	91	16636	0.527	ppbv	91
71) 2-Chlorotoluene	10.898	91	14134	0.357	ppbv	98
72) 4-Ethyltoluene	11.124	105	13199	0.591	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	11354	0.313	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	13232	0.310	ppbv #	79
75) 1,3-Dichlorobenzene	11.607	146	11911	0.441	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	10649	0.410	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	11678	0.428	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	9035	0.519	ppbv	97
79) Naphthalene	13.513	128	7418	0.523	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	2905	0.949	ppbv	96
81) 1,2,4-Trichlorobenzene	13.439	180	4520	0.626	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042933.D
 Acq On : 17 Sep 2025 12:32
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:30:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 18 02:25:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	155710	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390094	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	326535	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	245820	9.631	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	912	0.108	ppbv	92
32) 1,1,1-Trichloroethane	3.376	97	2351m	0.088	ppbv	
35) Carbon Tetrachloride	3.765	117	2804m	0.101	ppbv	
38) Trichloroethene	4.548	130	1467m	0.095	ppbv	
52) Tetrachloroethene	8.225	164	875m	0.083	ppbv	
54) 1,2-Dibromoethane	7.661	107	1690m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	2442m	0.096	ppbv	
79) Naphthalene	13.520	128	1286m	0.391	ppbv	

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

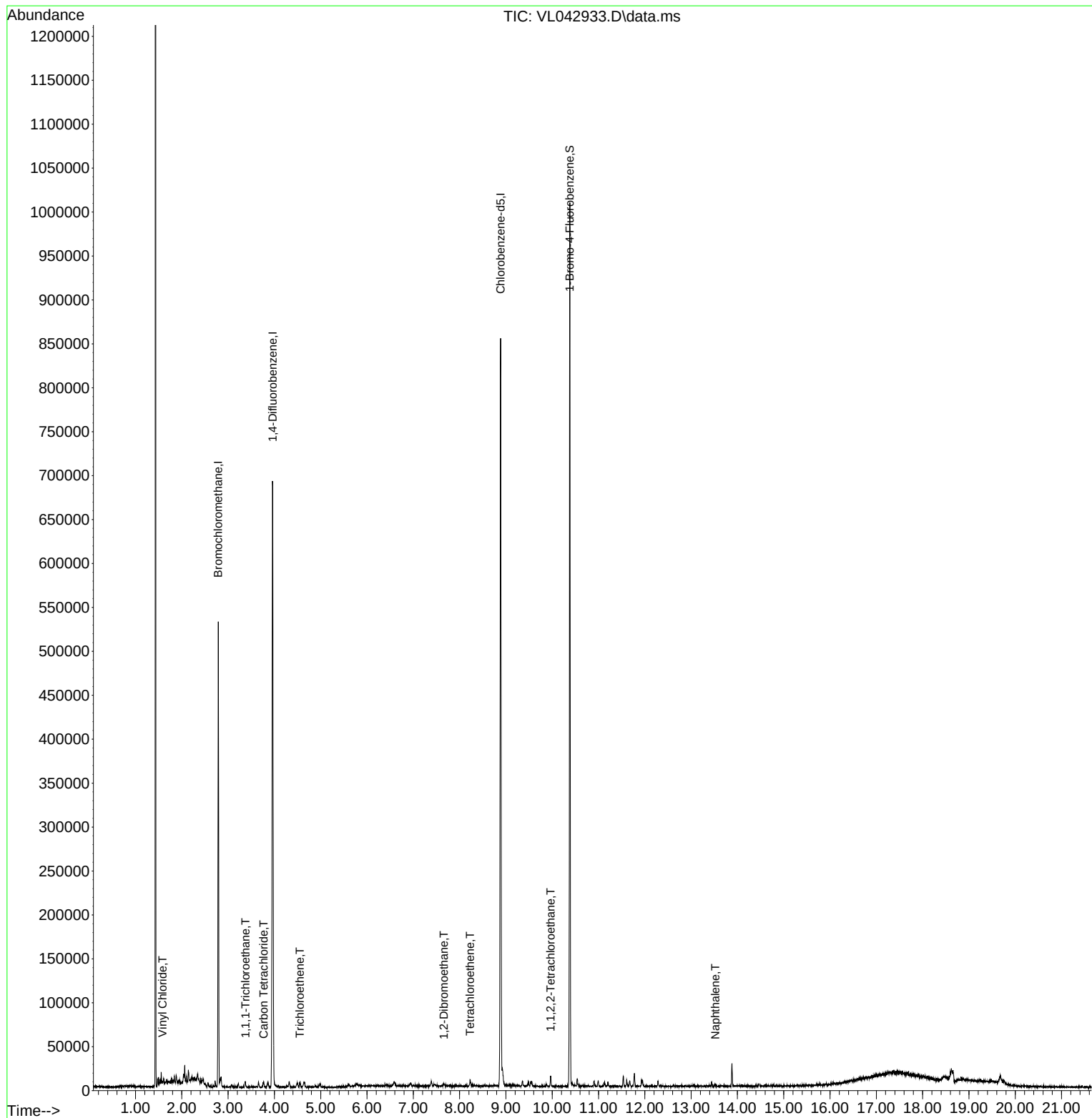
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042933.D
Acq On : 17 Sep 2025 12:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:30:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042934.D
 Acq On : 17 Sep 2025 13:07
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:31:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 18 02:25:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	151993	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	373216	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	318402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	236647	9.509	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	305	0.037	ppbv	93
32) 1,1,1-Trichloroethane	3.376	97	970m	0.037	ppbv	
35) Carbon Tetrachloride	3.771	117	993m	0.037	ppbv	
38) Trichloroethene	4.551	130	563m	0.038	ppbv	
52) Tetrachloroethene	8.221	164	366m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	927m	0.037	ppbv	

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

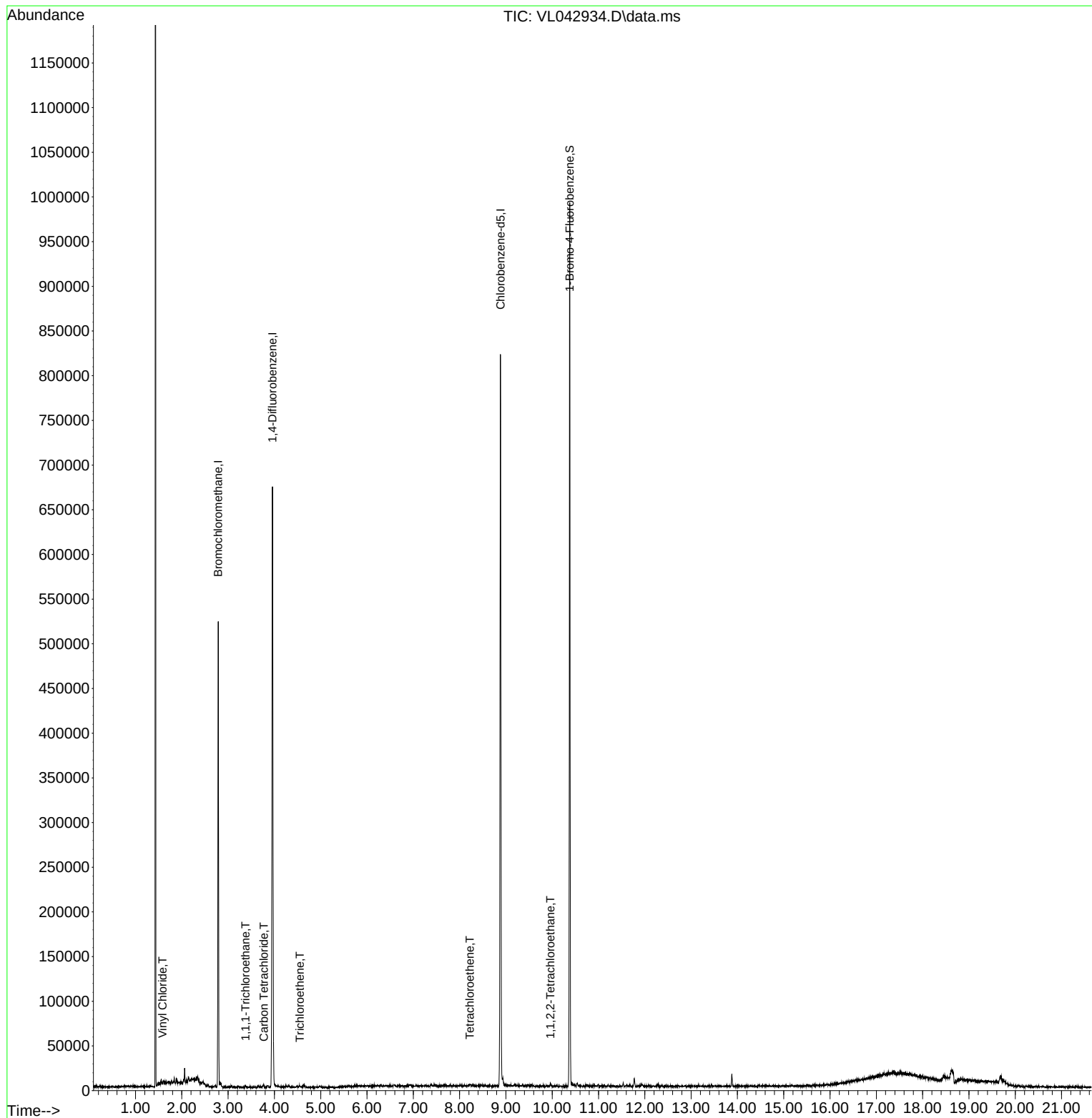
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042934.D
Acq On : 17 Sep 2025 13:07
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Sep 18 02:31:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
Supervised By : Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042935.D
 Acq On : 17 Sep 2025 13:42
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	160573	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	415318	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	353249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 295803 10.713 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	232093	10.119	ppbv	100
3) Chlorodifluoromethane	1.479	51	238232	9.865	ppbv	100
4) Chloromethane	1.534	50	92202	10.003	ppbv	100
5) Vinyl Chloride	1.583	62	80228	9.226	ppbv	100
6) Bromomethane	1.670	94	30537	10.105	ppbv	100
7) Chloroethane	1.706	64	32281	10.079	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	183602	10.089	ppbv	100
9) Propene	1.486	41	86426	9.800	ppbv	100
10) Heptane	4.988	43	259422	11.872	ppbv	100
11) Trichlorofluoromethane	1.881	101	229480	10.128	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	178790	10.100	ppbv	100
13) Ethanol	1.722	45	7630	8.486	ppbv	98
14) Bromoethene	1.784	108	62744	9.949	ppbv	100
15) Acetone	1.839	43	172060	8.724	ppbv	100
16) 1,3-Butadiene	1.612	39	79400	9.624	ppbv	100
17) tert-Butyl alcohol	2.042	59	187824	9.890	ppbv	100
18) 1,1-Dichloroethene	2.036	96	78341	10.110	ppbv	100
19) Isopropyl Alcohol	1.887	45	103481	9.786	ppbv	100
20) Methylene Chloride	2.065	84	67680	7.882	ppbv	100
21) Allyl Chloride	2.097	41	132660	9.923	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	88151	10.037	ppbv	100
23) Vinyl Acetate	2.466	43	238255	10.397	ppbv	100
24) 1,1-Dichloroethane	2.411	63	176500	10.174	ppbv	100
25) Ethyl Acetate	2.835	43	455318	10.811	ppbv	100
26) Hexane	2.829	57	199382	11.031	ppbv	100
27) Carbon Disulfide	2.152	76	220787	9.904	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	99133	9.982	ppbv	100
29) Chloroform	2.852	83	299464	10.137	ppbv	100
30) Cyclohexane	3.861	84	162355	11.924	ppbv	100
31) cis-1,2-Dichloroethene	2.725	61	184566	10.459	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	274368	9.926	ppbv	100
34) 2-Butanone	2.560	43	280052	10.402	ppbv	100
35) Carbon Tetrachloride	3.768	117	287073	9.724	ppbv	100
36) Benzene	3.661	78	383581	10.588	ppbv	100
37) 1,2-Dichloroethane	3.221	62	218944	10.091	ppbv	100
38) Trichloroethene	4.557	130	166868	10.176	ppbv	100
39) 1,2-Dichloropropane	4.318	63	148415	10.139	ppbv	100
40) 1,4-Dioxane	4.583	88	60929	11.733	ppbv #	100
41) Tetrahydrofuran	3.056	42	150567	11.375	ppbv	100
42) Bromodichloromethane	4.496	83	316501	10.165	ppbv	100
43) Methyl Methacrylate	4.884	69	143457	11.807	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	700623	11.595	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	146102	11.424	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042935.D
 Acq On : 17 Sep 2025 13:42
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	197003	11.174	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	156042	10.453	ppbv	100
48) Dibromochloromethane	7.393	129	244251	10.447	ppbv	100
49) Bromoform	9.490	173	196118	10.747	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	387522	12.080	ppbv	100
51) 2-Hexanone	7.441	43	307420	13.020	ppbv	100
52) Tetrachloroethene	8.231	164	115985	10.295	ppbv	100
53) Toluene	6.939	91	415754	12.313	ppbv	100
54) 1,2-Dibromoethane	7.658	107	211125	10.997	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	186222	10.345	ppbv	100
57) Chlorobenzene	8.927	112	342500	10.490	ppbv	100
58) Ethyl Benzene	9.360	91	582982	12.810	ppbv	100
59) m/p-Xylene	9.558	91	983541m	25.571	ppbv	
60) o-Xylene	9.969	91	495406	12.957	ppbv	100
61) Styrene	9.875	104	196509	9.941	ppbv	100
62) Isopropylbenzene	10.545	105	707651	12.705	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	283680	10.272	ppbv	100
64) n-propylbenzene	10.992	120	182766	12.656	ppbv	100
65) tert-Butylbenzene	11.536	119	619284	13.011	ppbv	100
66) Benzyl Chloride	11.620	91	53013	11.987	ppbv	100
67) sec-Butylbenzene	11.772	105	904817	12.496	ppbv	100
69) p-Isopropyltoluene	11.930	119	730122	13.084	ppbv	100
70) n-Butylbenzene	12.286	91	787146	10.537	ppbv	100
71) 2-Chlorotoluene	10.904	91	530980	12.848	ppbv	100
72) 4-Ethyltoluene	11.131	105	597492	10.333	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	493710	13.051	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	566106	12.734	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	319203	11.326	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	322554	11.896	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	316961	11.147	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	185221	10.199	ppbv	100
79) Naphthalene	13.516	128	474749	10.151	ppbv	100
80) Naphthalene,2-methyl-	14.461	142	132693	9.058	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	224163	9.993	ppbv	100

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

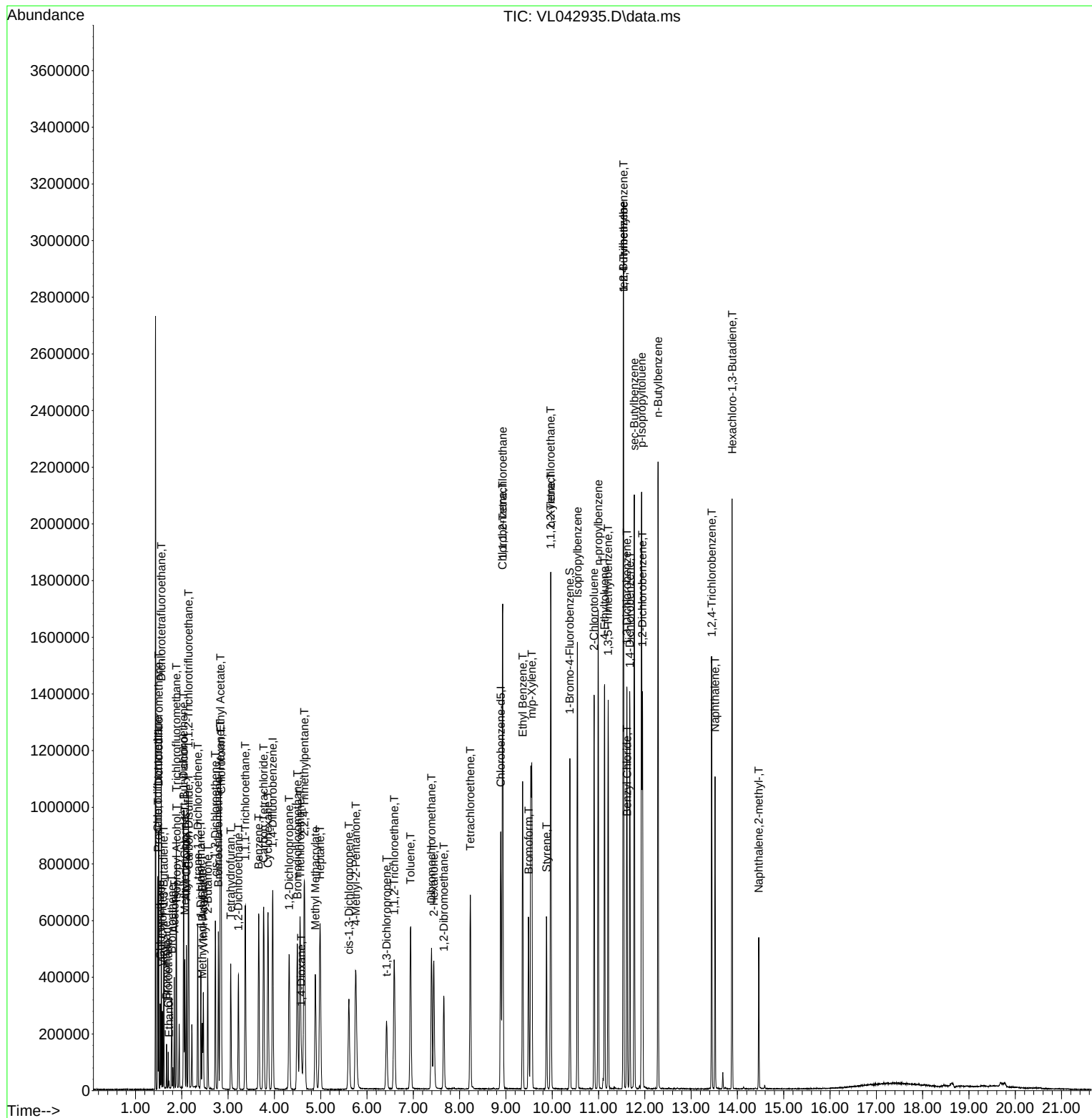
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042935.D
Acq On : 17 Sep 2025 13:42
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042936.D
 Acq On : 17 Sep 2025 14:17
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	166880	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	435144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	378127	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 301418 10.198 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	342031	14.349	ppbv	99
3) Chlorodifluoromethane	1.476	51	364078	14.507	ppbv	100
4) Chloromethane	1.534	50	137673	14.371	ppbv	96
5) Vinyl Chloride	1.583	62	122964	13.606	ppbv	98
6) Bromomethane	1.670	94	45220	14.399	ppbv	96
7) Chloroethane	1.706	64	50396	15.140	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	275345	14.559	ppbv	99
9) Propene	1.486	41	145520	15.877	ppbv	98
10) Heptane	4.985	43	400273	17.626	ppbv	99
11) Trichlorofluoromethane	1.881	101	341853	14.517	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	266384	14.480	ppbv	100
13) Ethanol	1.722	45	12036	12.880	ppbv	88
14) Bromoethene	1.784	108	96723	14.758	ppbv	98
15) Acetone	1.835	43	261592	12.762	ppbv	99
16) 1,3-Butadiene	1.612	39	123576	14.413	ppbv	99
17) tert-Butyl alcohol	2.039	59	288104	14.597	ppbv	99
18) 1,1-Dichloroethene	2.036	96	119994	14.901	ppbv	96
19) Isopropyl Alcohol	1.887	45	157857	14.364	ppbv #	1
20) Methylene Chloride	2.065	84	103933	11.646	ppbv	97
21) Allyl Chloride	2.098	41	206205	14.841	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	133482	14.624	ppbv	97
23) Vinyl Acetate	2.463	43	409957	17.213	ppbv	98
24) 1,1-Dichloroethane	2.412	63	267165	14.818	ppbv	99
25) Ethyl Acetate	2.836	43	697465	15.935	ppbv	100
26) Hexane	2.829	57	319529	17.011	ppbv	94
27) Carbon Disulfide	2.153	76	339264	14.644	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	158791	15.384	ppbv	99
29) Chloroform	2.852	83	454938	14.817	ppbv	96
30) Cyclohexane	3.862	84	263817	18.643	ppbv	99
31) cis-1,2-Dichloroethene	2.725	61	297831	16.240	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	429312	14.944	ppbv	99
34) 2-Butanone	2.557	43	447323	15.858	ppbv	97
35) Carbon Tetrachloride	3.768	117	434961	14.062	ppbv	99
36) Benzene	3.661	78	622923	16.412	ppbv	100
37) 1,2-Dichloroethane	3.221	62	342237	15.055	ppbv	99
38) Trichloroethene	4.554	130	263119	15.314	ppbv	95
39) 1,2-Dichloropropane	4.318	63	233331	15.214	ppbv	97
40) 1,4-Dioxane	4.583	88	94289	17.330	ppbv #	96
41) Tetrahydrofuran	3.052	42	252880	18.235	ppbv	99
42) Bromodichloromethane	4.493	83	487210	14.935	ppbv	99
43) Methyl Methacrylate	4.881	69	237510	18.657	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	1074444	16.972	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	248122	18.517	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042936.D
 Acq On : 17 Sep 2025 14:17
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	331381	17.939	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	237995	15.216	ppbv	98
48) Dibromochloromethane	7.393	129	378815	15.464	ppbv	99
49) Bromoform	9.490	173	300343	15.709	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	623273	18.544	ppbv	98
51) 2-Hexanone	7.441	43	492844	19.922	ppbv #	98
52) Tetrachloroethene	8.231	164	183151	15.516	ppbv	96
53) Toluene	6.940	91	678667	19.184	ppbv	99
54) 1,2-Dibromoethane	7.658	107	329410	16.376	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.930	131	282351	14.654	ppbv	99
57) Chlorobenzene	8.927	112	521288	14.916	ppbv	97
58) Ethyl Benzene	9.361	91	928410	19.058	ppbv	100
59) m/p-Xylene	9.558	91	1503527m	36.519	ppbv	
60) o-Xylene	9.969	91	761569	18.607	ppbv	100
61) Styrene	9.875	104	325087	15.069	ppbv	99
62) Isopropylbenzene	10.542	105	1072342	17.986	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	426688	14.434	ppbv	98
64) n-propylbenzene	10.995	120	280188	18.126	ppbv	96
65) tert-Butylbenzene	11.536	119	939322	18.437	ppbv	100
66) Benzyl Chloride	11.620	91	90114	19.035	ppbv	99
67) sec-Butylbenzene	11.772	105	1361807	17.569	ppbv	100
69) p-Isopropyltoluene	11.930	119	1110321	18.588	ppbv	99
70) n-Butylbenzene	12.283	91	1182368	14.665	ppbv	98
71) 2-Chlorotoluene	10.904	91	823050	18.604	ppbv	99
72) 4-Ethyltoluene	11.128	105	926161	14.801	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	761800	18.813	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	849558	17.853	ppbv #	87
75) 1,3-Dichlorobenzene	11.610	146	491485	16.291	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	487745	16.805	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	476080	15.641	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	285795	14.702	ppbv	99
79) Naphthalene	13.516	128	758929	14.938	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	254607	15.635	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	365929	15.017	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:00:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163811	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	429845	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	368077	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 295691 10.278 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	229111	9.792	ppbv	99
3) Chlorodifluoromethane	1.476	51	246816	10.019	ppbv	99
4) Chloromethane	1.534	50	88317	9.392	ppbv	98
5) Vinyl Chloride	1.580	62	79666	8.980	ppbv	97
6) Bromomethane	1.667	94	29113	9.444	ppbv	89
7) Chloroethane	1.706	64	32759	10.026	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	183884	9.905	ppbv	100
9) Propene	1.482	41	98232	10.919	ppbv	99
10) Heptane	4.978	43	264357	11.859	ppbv	100
11) Trichlorofluoromethane	1.877	101	228320	9.878	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	175799	9.735	ppbv	99
13) Ethanol	1.722	45	6424	7.003	ppbv	92
14) Bromoethene	1.783	108	61980	9.634	ppbv	99
15) Acetone	1.835	43	166535	8.277	ppbv	99
16) 1,3-Butadiene	1.609	39	82098	9.755	ppbv	98
17) tert-Butyl alcohol	2.039	59	195293	10.080	ppbv	99
18) 1,1-Dichloroethene	2.036	96	80688	10.208	ppbv	94
19) Isopropyl Alcohol	1.884	45	104411	9.679	ppbv #	1
20) Methylene Chloride	2.062	84	69478	7.931	ppbv	96
21) Allyl Chloride	2.097	41	135109	9.906	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	88461	9.873	ppbv	97
23) Vinyl Acetate	2.463	43	245812	10.514	ppbv	99
24) 1,1-Dichloroethane	2.408	63	178694	10.097	ppbv	99
25) Ethyl Acetate	2.832	43	465727	10.840	ppbv	99
26) Hexane	2.826	57	214492	11.633	ppbv	94
27) Carbon Disulfide	2.149	76	225070	9.897	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	100988	9.968	ppbv	99
29) Chloroform	2.848	83	303164	10.059	ppbv	99
30) Cyclohexane	3.858	84	169974	12.237	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	201417	11.188	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	282320	10.012	ppbv	99
34) 2-Butanone	2.557	43	295206	10.594	ppbv	98
35) Carbon Tetrachloride	3.761	117	287165	9.398	ppbv	98
36) Benzene	3.657	78	409107	10.911	ppbv	99
37) 1,2-Dichloroethane	3.217	62	226948	10.107	ppbv	100
38) Trichloroethene	4.548	130	176428	10.395	ppbv	98
39) 1,2-Dichloropropane	4.315	63	154678	10.208	ppbv	97
40) 1,4-Dioxane	4.580	88	62205	11.567	ppbv #	95
41) Tetrahydrofuran	3.052	42	164799	11.951	ppbv	98
42) Bromodichloromethane	4.489	83	328094	10.181	ppbv	96
43) Methyl Methacrylate	4.878	69	154971	12.345	ppbv	98
44) 2,2,4-Trimethylpentane	4.641	57	714131	11.419	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	159002	12.012	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:00:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	215811	11.827	ppbv	96
47) 1,1,2-Trichloroethane	6.583	97	156292	10.115	ppbv	98
48) Dibromochloromethane	7.386	129	248022	10.249	ppbv	100
49) Bromoform	9.483	173	199430	10.559	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	401816	12.061	ppbv	99
51) 2-Hexanone	7.435	43	309643	12.515	ppbv	98
52) Tetrachloroethene	8.224	164	117822	10.191	ppbv	95
53) Toluene	6.936	91	437541	12.514	ppbv	99
54) 1,2-Dibromoethane	7.655	107	216018	10.868	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	185285	9.881	ppbv	99
57) Chlorobenzene	8.924	112	345434	10.154	ppbv	99
58) Ethyl Benzene	9.357	91	594613	12.539	ppbv	98
59) m/p-Xylene	9.535	91	992545m	24.769	ppbv	
60) o-Xylene	9.966	91	493072	12.376	ppbv	98
61) Styrene	9.875	104	207040	10.047	ppbv	99
62) Isopropylbenzene	10.542	105	705403	12.155	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	281350	9.775	ppbv	99
64) n-propylbenzene	10.992	120	182390	12.121	ppbv	98
65) tert-Butylbenzene	11.532	119	614507	12.391	ppbv	100
66) Benzyl Chloride	11.616	91	55461	12.035	ppbv	99
67) sec-Butylbenzene	11.769	105	903484	11.975	ppbv	99
69) p-Isopropyltoluene	11.927	119	728062	12.521	ppbv	99
70) n-Butylbenzene	12.283	91	776317	9.990	ppbv	99
71) 2-Chlorotoluene	10.904	91	539069	12.518	ppbv	100
72) 4-Ethyltoluene	11.128	105	596475	9.915	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	490000	12.431	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	560019	12.090	ppbv #	88
75) 1,3-Dichlorobenzene	11.610	146	320827	10.925	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	316382	11.199	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	309923	10.460	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	181670	9.601	ppbv	99
79) Naphthalene	13.513	128	471217	9.690	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	114187	7.615	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	219451	9.415	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042937.D
Acq On : 17 Sep 2025 14:52
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025

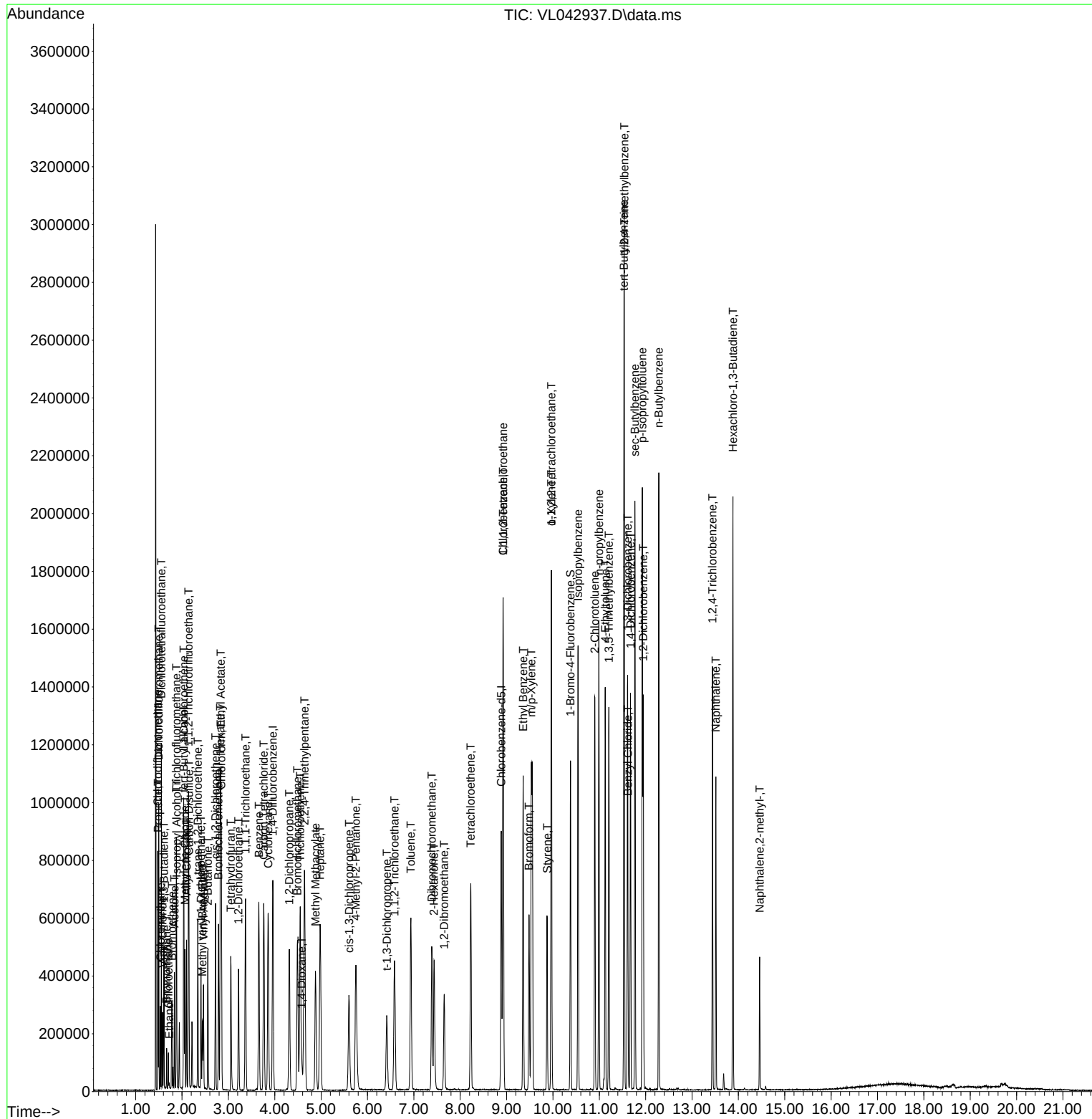
Quant Time: Sep 18 03:00:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	102	0.00
2 T	Dichlorodifluoromethane	1.428	1.399	2.0	99	0.00
3	Chlorodifluoromethane	1.504	1.507	-0.2	104	0.00
4	Chloromethane	0.574	0.539	6.1	96	0.00
5 T	Vinyl Chloride	0.542	0.486	10.3	99	0.00
6 T	Bromomethane	0.188	0.178	5.3	95	0.00
7	Chloroethane	0.199	0.200	-0.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.133	1.123	0.9	100	0.00
9 T	Propene	0.549	0.600	-9.3	114	0.00
10 T	Heptane	1.361	1.614	-18.6	102	0.00
11 T	Trichlorofluoromethane	1.411	1.394	1.2	99	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.102	1.073	2.6	98	0.00
13	Ethanol	0.056	0.039#	30.4#	84	0.00
14 T	Bromoethene	0.393	0.378	3.8	99	0.00
15 T	Acetone	1.228	1.017	17.2	97	0.00
16 T	1,3-Butadiene	0.514	0.501	2.5	103	0.00
17	tert-Butyl alcohol	1.183	1.192	-0.8	104	0.00
18 T	1,1-Dichloroethene	0.483	0.493	-2.1	103	0.00
19 T	Isopropyl Alcohol	0.659	0.637	3.3	101	0.00
20 T	Methylene Chloride	0.535	0.424	20.7	103	0.00
21 T	Allyl Chloride	0.833	0.825	1.0	102	0.00
22 T	trans-1,2-Dichloroethene	0.547	0.540	1.3	100	0.00
23 T	Vinyl Acetate	1.427	1.501	-5.2	103	0.00
24 T	1,1-Dichloroethane	1.080	1.091	-1.0	101	0.00
25 T	Ethyl Acetate	2.623	2.843	-8.4	102	0.00
26 T	Hexane	1.126	1.309	-16.3	108	0.00
27 T	Carbon Disulfide	1.388	1.374	1.0	102	0.00
28 T	Methyl tert-Butyl Ether	0.619	0.616	0.5	102	0.00
29 T	Chloroform	1.840	1.851	-0.6	101	0.00
30 T	Cyclohexane	0.848	1.038	-22.4	105	0.00
31 T	cis-1,2-Dichloroethene	1.099	1.230	-11.9	109	0.00
32 T	1,1,1-Trichloroethane	1.721	1.723	-0.1	103	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
34 T	2-Butanone	0.648	0.687	-6.0	105	0.00
35 T	Carbon Tetrachloride	0.711	0.668	6.0	100	0.00
36 T	Benzene	0.872	0.952	-9.2	107	0.00
37 T	1,2-Dichloroethane	0.522	0.528	-1.1	104	0.00
38 T	Trichloroethene	0.395	0.410	-3.8	106	0.00
39 T	1,2-Dichloropropane	0.353	0.360	-2.0	104	0.00
40 T	1,4-Dioxane	0.125	0.145	-16.0	102	0.00
41 T	Tetrahydrofuran	0.321	0.383	-19.3	109	0.00
42 T	Bromodichloromethane	0.750	0.763	-1.7	104	0.00
43	Methyl Methacrylate	0.292	0.361	-23.6	108	0.00
44 T	2,2,4-Trimethylpentane	1.455	1.661	-14.2	102	0.00
45 T	t-1,3-Dichloropropene	0.308	0.370	-20.1	109	0.00
46 T	cis-1,3-Dichloropropene	0.425	0.502	-18.1	110	0.00
47 T	1,1,2-Trichloroethane	0.359	0.364	-1.4	100	0.00
48 T	Dibromochloromethane	0.563	0.577	-2.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	0.439	0.464	-5.7	102	0.00
50 T	4-Methyl-2-Pentanone	0.775	0.935	-20.6	104	0.00
51 T	2-Hexanone	0.576	0.720	-25.0	101	0.00
52 T	Tetrachloroethene	0.269	0.274	-1.9	102	0.00
53 T	Toluene	0.813	1.018	-25.2	105	0.00
54 T	1,2-Dibromoethane	0.462	0.503	-8.9	102	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	0.509	0.503	1.2	99	0.00
57 T	Chlorobenzene	0.924	0.938	-1.5	101	0.00
58 T	Ethyl Benzene	1.288	1.615	-25.4	102	0.00
59 T	m/p-Xylene	1.089	1.348	-23.8	101	-0.02
60 T	o-Xylene	1.082	1.340	-23.8	100	0.00
61 T	Styrene	0.403	0.562	-39.5#	105	0.00
62	Isopropylbenzene	1.577	1.916	-21.5	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.782	0.764	2.3	99	0.00
64	n-propylbenzene	0.409	0.496	-21.3	100	0.00
65	tert-Butylbenzene	1.347	1.670	-24.0	99	0.00
66 T	Benzyl Chloride	0.125	0.151	-20.8	105	0.00
67	sec-Butylbenzene	2.050	2.455	-19.8	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.782	0.803	-2.7	100	0.00
69	p-Isopropyltoluene	1.580	1.978	-25.2	100	0.00
70	n-Butylbenzene	1.661	2.109	-27.0	99	0.00
71	2-Chlorotoluene	1.170	1.465	-25.2	102	0.00
72 T	4-Ethyltoluene	1.267	1.621	-27.9	100	0.00
73 T	1,3,5-Trimethylbenzene	1.071	1.331	-24.3	99	0.00
74 T	1,2,4-Trimethylbenzene	1.258	1.521	-20.9	99	0.00
75 T	1,3-Dichlorobenzene	0.798	0.872	-9.3	101	0.00
76 T	1,4-Dichlorobenzene	0.768	0.860	-12.0	98	0.00
77 T	1,2-Dichlorobenzene	0.805	0.842	-4.6	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.514	0.494	3.9	98	0.00
79 T	Naphthalene	0.849	1.280	-50.8#	99	0.00
80 T	Naphthalene,2-methyl-	0.275	0.310	-12.7	86	0.00
81 T	1,2,4-Trichlorobenzene	0.479	0.596	-24.4	98	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	102	0.00
2 T	Dichlorodifluoromethane	10.000	9.792	2.1	99	0.00
3	Chlorodifluoromethane	10.000	10.019	-0.2	104	0.00
4	Chloromethane	10.000	9.392	6.1	96	0.00
5 T	Vinyl Chloride	10.000	8.980	10.2	99	0.00
6 T	Bromomethane	10.000	9.444	5.6	95	0.00
7	Chloroethane	10.000	10.026	-0.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.905	1.0	100	0.00
9 T	Propene	10.000	10.919	-9.2	114	0.00
10 T	Heptane	10.000	11.859	-18.6	102	0.00
11 T	Trichlorofluoromethane	10.000	9.878	1.2	99	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.735	2.7	98	0.00
13	Ethanol	10.000	7.003	30.0	84	0.00
14 T	Bromoethene	10.000	9.634	3.7	99	0.00
15 T	Acetone	10.000	8.277	17.2	97	0.00
16 T	1,3-Butadiene	10.000	9.755	2.4	103	0.00
17	tert-Butyl alcohol	10.000	10.080	-0.8	104	0.00
18 T	1,1-Dichloroethene	10.000	10.208	-2.1	103	0.00
19 T	Isopropyl Alcohol	10.000	9.679	3.2	101	0.00
20 T	Methylene Chloride	10.000	7.931	20.7	103	0.00
21 T	Allyl Chloride	10.000	9.906	0.9	102	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.873	1.3	100	0.00
23 T	Vinyl Acetate	10.000	10.514	-5.1	103	0.00
24 T	1,1-Dichloroethane	10.000	10.097	-1.0	101	0.00
25 T	Ethyl Acetate	10.000	10.840	-8.4	102	0.00
26 T	Hexane	10.000	11.633	-16.3	108	0.00
27 T	Carbon Disulfide	10.000	9.897	1.0	102	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.968	0.3	102	0.00
29 T	Chloroform	10.000	10.059	-0.6	101	0.00
30 T	Cyclohexane	10.000	12.237	-22.4	105	0.00
31 T	cis-1,2-Dichloroethene	10.000	11.188	-11.9	109	0.00
32 T	1,1,1-Trichloroethane	10.000	10.012	-0.1	103	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	103	0.00
34 T	2-Butanone	10.000	10.594	-5.9	105	0.00
35 T	Carbon Tetrachloride	10.000	9.398	6.0	100	0.00
36 T	Benzene	10.000	10.911	-9.1	107	0.00
37 T	1,2-Dichloroethane	10.000	10.107	-1.1	104	0.00
38 T	Trichloroethene	10.000	10.395	-3.9	106	0.00
39 T	1,2-Dichloropropane	10.000	10.208	-2.1	104	0.00
40 T	1,4-Dioxane	10.000	11.567	-15.7	102	0.00
41 T	Tetrahydrofuran	10.000	11.951	-19.5	109	0.00
42 T	Bromodichloromethane	10.000	10.181	-1.8	104	0.00
43	Methyl Methacrylate	10.000	12.345	-23.5	108	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.419	-14.2	102	0.00
45 T	t-1,3-Dichloropropene	10.000	12.012	-20.1	109	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.827	-18.3	110	0.00
47 T	1,1,2-Trichloroethane	10.000	10.115	-1.2	100	0.00
48 T	Dibromochloromethane	10.000	10.249	-2.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	10.559	-5.6	102	0.00
50 T	4-Methyl-2-Pentanone	10.000	12.061	-20.6	104	0.00
51 T	2-Hexanone	10.000	12.515	-25.2	101	0.00
52 T	Tetrachloroethene	10.000	10.191	-1.9	102	0.00
53 T	Toluene	10.000	12.514	-25.1	105	0.00
54 T	1,2-Dibromoethane	10.000	10.868	-8.7	102	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.881	1.2	99	0.00
57 T	Chlorobenzene	10.000	10.154	-1.5	101	0.00
58 T	Ethyl Benzene	10.000	12.539	-25.4	102	0.00
59 T	m/p-Xylene	20.000	24.769	-23.8	101	-0.02
60 T	o-Xylene	10.000	12.376	-23.8	100	0.00
61 T	Styrene	10.000	10.047	-0.5	105	0.00
62	Isopropylbenzene	10.000	12.155	-21.5	100	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.775	2.2	99	0.00
64	n-propylbenzene	10.000	12.121	-21.2	100	0.00
65	tert-Butylbenzene	10.000	12.391	-23.9	99	0.00
66 T	Benzyl Chloride	10.000	12.035	-20.4	105	0.00
67	sec-Butylbenzene	10.000	11.975	-19.7	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.278	-2.8	100	0.00
69	p-Isopropyltoluene	10.000	12.521	-25.2	100	0.00
70	n-Butylbenzene	10.000	9.990	0.1	99	0.00
71	2-Chlorotoluene	10.000	12.518	-25.2	102	0.00
72 T	4-Ethyltoluene	10.000	9.915	0.9	100	0.00
73 T	1,3,5-Trimethylbenzene	10.000	12.431	-24.3	99	0.00
74 T	1,2,4-Trimethylbenzene	10.000	12.090	-20.9	99	0.00
75 T	1,3-Dichlorobenzene	10.000	10.925	-9.3	101	0.00
76 T	1,4-Dichlorobenzene	10.000	11.199	-12.0	98	0.00
77 T	1,2-Dichlorobenzene	10.000	10.460	-4.6	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.601	4.0	98	0.00
79 T	Naphthalene	10.000	9.690	3.1	99	0.00
80 T	Naphthalene,2-methyl-	10.000	7.615	23.8	86	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.415	5.9	98	0.00

(#) = Out of Range

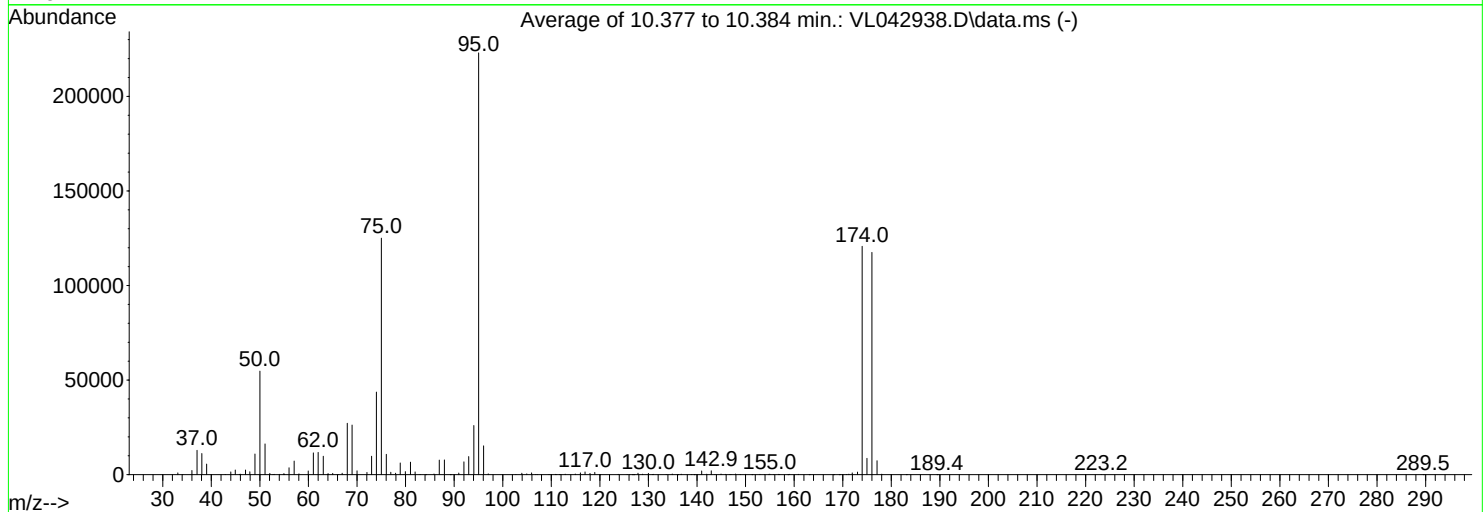
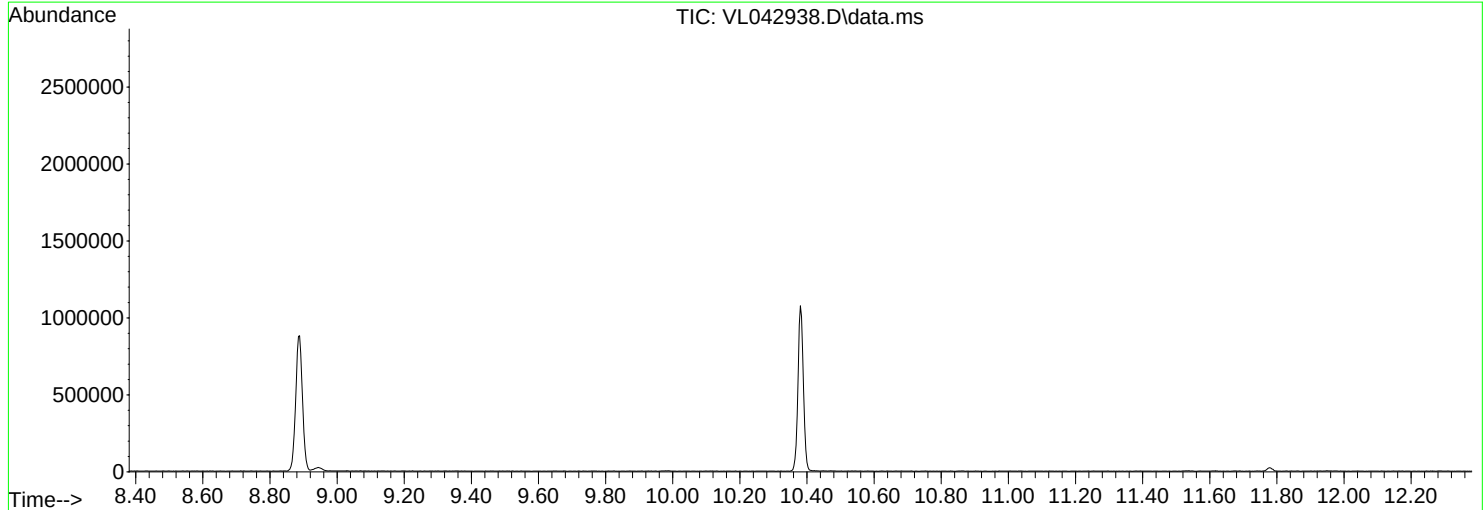
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
Data File : VL042938.D
Acq On : 18 Sep 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Sep 18 02:57:46 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.5	54715	PASS
75	95	30	66	56.1	125027	PASS
95	95	100	100	100.0	223019	PASS
96	95	5	9	6.8	15247	PASS
173	174	0.00	2	1.1	1327	PASS
174	95	50	120	54.1	120688	PASS
175	174	4	9	7.2	8675	PASS
176	174	93	101	97.4	117509	PASS
177	176	5	9	6.3	7359	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:21:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	157654	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	416196	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	350205	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 287353 10.498 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	223802	9.938	ppbv	98
3) Chlorodifluoromethane	1.476	51	244077	10.294	ppbv	100
4) Chloromethane	1.534	50	85553	9.453	ppbv	98
5) Vinyl Chloride	1.583	62	77985	9.134	ppbv	95
6) Bromomethane	1.670	94	28462	9.593	ppbv	99
7) Chloroethane	1.706	64	31268	9.943	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	175256	9.809	ppbv	100
9) Propene	1.486	41	97529	11.264	ppbv	98
10) Heptane	4.988	43	256082	11.936	ppbv	99
11) Trichlorofluoromethane	1.881	101	212480	9.551	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	163856	9.428	ppbv	97
13) Ethanol	1.725	45	6145	6.961	ppbv	93
14) Bromoethene	1.784	108	57603	9.303	ppbv	98
15) Acetone	1.839	43	154852	7.997	ppbv	98
16) 1,3-Butadiene	1.612	39	79708	9.840	ppbv	98
17) tert-Butyl alcohol	2.042	59	188621	10.116	ppbv	98
18) 1,1-Dichloroethene	2.039	96	73857	9.708	ppbv	96
19) Isopropyl Alcohol	1.890	45	99740	9.607	ppbv #	1
20) Methylene Chloride	2.065	84	66946	7.941	ppbv	96
21) Allyl Chloride	2.101	41	128419	9.783	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	84863	9.842	ppbv	99
23) Vinyl Acetate	2.466	43	245936	10.931	ppbv	98
24) 1,1-Dichloroethane	2.411	63	167836	9.854	ppbv	98
25) Ethyl Acetate	2.842	43	459524	11.113	ppbv	100
26) Hexane	2.832	57	205167	11.562	ppbv	98
27) Carbon Disulfide	2.156	76	213658	9.762	ppbv	98
28) Methyl tert-Butyl Ether	2.444	73	93883	9.628	ppbv	98
29) Chloroform	2.855	83	299404	10.322	ppbv	99
30) Cyclohexane	3.865	84	167350	12.518	ppbv	100
31) cis-1,2-Dichloroethene	2.725	61	194977	11.254	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	278380	10.257	ppbv	100
34) 2-Butanone	2.560	43	290768	10.777	ppbv	98
35) Carbon Tetrachloride	3.771	117	285378	9.646	ppbv	94
36) Benzene	3.664	78	399269	10.998	ppbv	97
37) 1,2-Dichloroethane	3.224	62	224589	10.330	ppbv	99
38) Trichloroethene	4.557	130	168064	10.227	ppbv	95
39) 1,2-Dichloropropane	4.324	63	151824	10.348	ppbv	96
40) 1,4-Dioxane	4.593	88	55603	10.678	ppbv #	96
41) Tetrahydrofuran	3.059	42	160226	12.000	ppbv	99
42) Bromodichloromethane	4.499	83	320875	10.284	ppbv	97
43) Methyl Methacrylate	4.891	69	148839	12.245	ppbv	99
44) 2,2,4-Trimethylpentane	4.651	57	694671	11.472	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	153654	11.989	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:21:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	208635	11.808	ppbv	95
47) 1,1,2-Trichloroethane	6.596	97	157128	10.503	ppbv	98
48) Dibromochloromethane	7.396	129	244295	10.426	ppbv	100
49) Bromoform	9.493	173	196187	10.728	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	392734	12.175	ppbv	100
51) 2-Hexanone	7.444	43	306892	12.811	ppbv	100
52) Tetrachloroethene	8.234	164	116819	10.435	ppbv	94
53) Toluene	6.946	91	426986	12.613	ppbv	100
54) 1,2-Dibromoethane	7.665	107	211227	10.975	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	180285	10.105	ppbv	97
57) Chlorobenzene	8.933	112	338397	10.455	ppbv	99
58) Ethyl Benzene	9.364	91	581778	12.894	ppbv	99
59) m/p-Xylene	9.561	91	971576m	25.483	ppbv	
60) o-Xylene	9.972	91	491310	12.961	ppbv	99
61) Styrene	9.878	104	200245	10.204	ppbv	99
62) Isopropylbenzene	10.548	105	691261	12.519	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	275929	10.076	ppbv	99
64) n-propylbenzene	10.995	120	178404	12.461	ppbv	99
65) tert-Butylbenzene	11.539	119	607057	12.865	ppbv	99
66) Benzyl Chloride	11.623	91	56239	12.827	ppbv	99
67) sec-Butylbenzene	11.775	105	896962	12.495	ppbv	100
69) p-Isopropyltoluene	11.934	119	726503	13.132	ppbv	99
70) n-Butylbenzene	12.286	91	766822	10.360	ppbv	100
71) 2-Chlorotoluene	10.908	91	522845	12.761	ppbv	99
72) 4-Ethyltoluene	11.131	105	585141	10.212	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	480708	12.818	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	555055	12.594	ppbv #	85
75) 1,3-Dichlorobenzene	11.613	146	315272	11.284	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	314779	11.710	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	310827	11.026	ppbv	100
78) Hexachloro-1,3-Butadiene	13.889	225	176944	9.828	ppbv	99
79) Naphthalene	13.520	128	452592	9.778	ppbv	100
80) Naphthalene,2-methyl-	14.465	142	115977	8.078	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	221727	9.972	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	1.428	1.420	0.6	96	0.00
3	Chlorodifluoromethane	1.504	1.548	-2.9	102	0.00
4	Chloromethane	0.574	0.543	5.4	93	0.00
5 T	Vinyl Chloride	0.542	0.495	8.7	97	0.00
6 T	Bromomethane	0.188	0.181	3.7	93	0.00
7	Chloroethane	0.199	0.198	0.5	97	0.00
8 T	Dichlorotetrafluoroethane	1.133	1.112	1.9	95	0.00
9 T	Propene	0.549	0.619	-12.8	113	0.00
10 T	Heptane	1.361	1.624	-19.3	99	0.00
11 T	Trichlorofluoromethane	1.411	1.348	4.5	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.102	1.039	5.7	92	0.00
13	Ethanol	0.056	0.039#	30.4#	81	0.00
14 T	Bromoethene	0.393	0.365	7.1	92	0.00
15 T	Acetone	1.228	0.982	20.0	90	0.00
16 T	1,3-Butadiene	0.514	0.506	1.6	100	0.00
17	tert-Butyl alcohol	1.183	1.196	-1.1	100	0.00
18 T	1,1-Dichloroethene	0.483	0.468	3.1	94	0.00
19 T	Isopropyl Alcohol	0.659	0.633	3.9	96	0.00
20 T	Methylene Chloride	0.535	0.425	20.6	99	0.00
21 T	Allyl Chloride	0.833	0.815	2.2	97	0.00
22 T	trans-1,2-Dichloroethene	0.547	0.538	1.6	96	0.00
23 T	Vinyl Acetate	1.427	1.560	-9.3	103	0.00
24 T	1,1-Dichloroethane	1.080	1.065	1.4	95	0.00
25 T	Ethyl Acetate	2.623	2.915	-11.1	101	0.00
26 T	Hexane	1.126	1.301	-15.5	103	0.00
27 T	Carbon Disulfide	1.388	1.355	2.4	97	0.00
28 T	Methyl tert-Butyl Ether	0.619	0.596	3.7	95	0.00
29 T	Chloroform	1.840	1.899	-3.2	100	0.00
30 T	Cyclohexane	0.848	1.062	-25.2	103	0.00
31 T	cis-1,2-Dichloroethene	1.099	1.237	-12.6	106	0.00
32 T	1,1,1-Trichloroethane	1.721	1.766	-2.6	101	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
34 T	2-Butanone	0.648	0.699	-7.9	104	0.00
35 T	Carbon Tetrachloride	0.711	0.686	3.5	99	0.00
36 T	Benzene	0.872	0.959	-10.0	104	0.00
37 T	1,2-Dichloroethane	0.522	0.540	-3.4	103	0.00
38 T	Trichloroethene	0.395	0.404	-2.3	101	0.00
39 T	1,2-Dichloropropane	0.353	0.365	-3.4	102	0.00
40 T	1,4-Dioxane	0.125	0.134	-7.2	91	0.00
41 T	Tetrahydrofuran	0.321	0.385	-19.9	106	0.00
42 T	Bromodichloromethane	0.750	0.771	-2.8	101	0.00
43	Methyl Methacrylate	0.292	0.358	-22.6	104	0.00
44 T	2,2,4-Trimethylpentane	1.455	1.669	-14.7	99	0.00
45 T	t-1,3-Dichloropropene	0.308	0.369	-19.8	105	0.00
46 T	cis-1,3-Dichloropropene	0.425	0.501	-17.9	106	0.00
47 T	1,1,2-Trichloroethane	0.359	0.378	-5.3	101	0.00
48 T	Dibromochloromethane	0.563	0.587	-4.3	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	0.439	0.471	-7.3	100	0.00
50 T	4-Methyl-2-Pentanone	0.775	0.944	-21.8	101	0.00
51 T	2-Hexanone	0.576	0.737	-28.0	100	0.00
52 T	Tetrachloroethene	0.269	0.281	-4.5	101	0.00
53 T	Toluene	0.813	1.026	-26.2	103	0.00
54 T	1,2-Dibromoethane	0.462	0.508	-10.0	100	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
56	1,1,1,2-Tetrachloroethane	0.509	0.515	-1.2	97	0.00
57 T	Chlorobenzene	0.924	0.966	-4.5	99	0.00
58 T	Ethyl Benzene	1.288	1.661	-29.0	100	0.00
59 T	m/p-Xylene	1.089	1.387	-27.4	99	0.00
60 T	o-Xylene	1.082	1.403	-29.7	99	0.00
61 T	Styrene	0.403	0.572	-41.9#	102	0.00
62	Isopropylbenzene	1.577	1.974	-25.2	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.782	0.788	-0.8	97	0.00
64	n-propylbenzene	0.409	0.509	-24.4	98	0.00
65	tert-Butylbenzene	1.347	1.733	-28.7	98	0.00
66 T	Benzyl Chloride	0.125	0.161	-28.8	106	0.00
67	sec-Butylbenzene	2.050	2.561	-24.9	99	0.00
68 S	1-Bromo-4-Fluorobenzene	0.782	0.821	-5.0	97	0.00
69	p-Isopropyltoluene	1.580	2.075	-31.3#	100	0.00
70	n-Butylbenzene	1.661	2.190	-31.8#	97	0.00
71	2-Chlorotoluene	1.170	1.493	-27.6	98	0.00
72 T	4-Ethyltoluene	1.267	1.671	-31.9#	98	0.00
73 T	1,3,5-Trimethylbenzene	1.071	1.373	-28.2	97	0.00
74 T	1,2,4-Trimethylbenzene	1.258	1.585	-26.0	98	0.00
75 T	1,3-Dichlorobenzene	0.798	0.900	-12.8	99	0.00
76 T	1,4-Dichlorobenzene	0.768	0.899	-17.1	98	0.00
77 T	1,2-Dichlorobenzene	0.805	0.888	-10.3	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.514	0.505	1.8	96	0.00
79 T	Naphthalene	0.849	1.292	-52.2#	95	0.00
80 T	Naphthalene,2-methyl-	0.275	0.331	-20.4	87	0.00
81 T	1,2,4-Trichlorobenzene	0.479	0.633	-32.2#	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	10.000	9.938	0.6	96	0.00
3	Chlorodifluoromethane	10.000	10.294	-2.9	102	0.00
4	Chloromethane	10.000	9.453	5.5	93	0.00
5 T	Vinyl Chloride	10.000	9.134	8.7	97	0.00
6 T	Bromomethane	10.000	9.593	4.1	93	0.00
7	Chloroethane	10.000	9.943	0.6	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.809	1.9	95	0.00
9 T	Propene	10.000	11.264	-12.6	113	0.00
10 T	Heptane	10.000	11.936	-19.4	99	0.00
11 T	Trichlorofluoromethane	10.000	9.551	4.5	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.428	5.7	92	0.00
13	Ethanol	10.000	6.961	30.4#	81	0.00
14 T	Bromoethene	10.000	9.303	7.0	92	0.00
15 T	Acetone	10.000	7.997	20.0	90	0.00
16 T	1,3-Butadiene	10.000	9.840	1.6	100	0.00
17	tert-Butyl alcohol	10.000	10.116	-1.2	100	0.00
18 T	1,1-Dichloroethene	10.000	9.708	2.9	94	0.00
19 T	Isopropyl Alcohol	10.000	9.607	3.9	96	0.00
20 T	Methylene Chloride	10.000	7.941	20.6	99	0.00
21 T	Allyl Chloride	10.000	9.783	2.2	97	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.842	1.6	96	0.00
23 T	Vinyl Acetate	10.000	10.931	-9.3	103	0.00
24 T	1,1-Dichloroethane	10.000	9.854	1.5	95	0.00
25 T	Ethyl Acetate	10.000	11.113	-11.1	101	0.00
26 T	Hexane	10.000	11.562	-15.6	103	0.00
27 T	Carbon Disulfide	10.000	9.762	2.4	97	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.628	3.7	95	0.00
29 T	Chloroform	10.000	10.322	-3.2	100	0.00
30 T	Cyclohexane	10.000	12.518	-25.2	103	0.00
31 T	cis-1,2-Dichloroethene	10.000	11.254	-12.5	106	0.00
32 T	1,1,1-Trichloroethane	10.000	10.257	-2.6	101	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
34 T	2-Butanone	10.000	10.777	-7.8	104	0.00
35 T	Carbon Tetrachloride	10.000	9.646	3.5	99	0.00
36 T	Benzene	10.000	10.998	-10.0	104	0.00
37 T	1,2-Dichloroethane	10.000	10.330	-3.3	103	0.00
38 T	Trichloroethene	10.000	10.227	-2.3	101	0.00
39 T	1,2-Dichloropropane	10.000	10.348	-3.5	102	0.00
40 T	1,4-Dioxane	10.000	10.678	-6.8	91	0.00
41 T	Tetrahydrofuran	10.000	12.000	-20.0	106	0.00
42 T	Bromodichloromethane	10.000	10.284	-2.8	101	0.00
43	Methyl Methacrylate	10.000	12.245	-22.4	104	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.472	-14.7	99	0.00
45 T	t-1,3-Dichloropropene	10.000	11.989	-19.9	105	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.808	-18.1	106	0.00
47 T	1,1,2-Trichloroethane	10.000	10.503	-5.0	101	0.00
48 T	Dibromochloromethane	10.000	10.426	-4.3	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	10.728	-7.3	100	0.00
50 T	4-Methyl-2-Pentanone	10.000	12.175	-21.8	101	0.00
51 T	2-Hexanone	10.000	12.811	-28.1	100	0.00
52 T	Tetrachloroethene	10.000	10.435	-4.4	101	0.00
53 T	Toluene	10.000	12.613	-26.1	103	0.00
54 T	1,2-Dibromoethane	10.000	10.975	-9.7	100	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.105	-1.1	97	0.00
57 T	Chlorobenzene	10.000	10.455	-4.6	99	0.00
58 T	Ethyl Benzene	10.000	12.894	-28.9	100	0.00
59 T	m/p-Xylene	20.000	25.483	-27.4	99	0.00
60 T	o-Xylene	10.000	12.961	-29.6	99	0.00
61 T	Styrene	10.000	10.204	-2.0	102	0.00
62	Isopropylbenzene	10.000	12.519	-25.2	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.076	-0.8	97	0.00
64	n-propylbenzene	10.000	12.461	-24.6	98	0.00
65	tert-Butylbenzene	10.000	12.865	-28.7	98	0.00
66 T	Benzyl Chloride	10.000	12.827	-28.3	106	0.00
67	sec-Butylbenzene	10.000	12.495	-24.9	99	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.498	-5.0	97	0.00
69	p-Isopropyltoluene	10.000	13.132	-31.3#	100	0.00
70	n-Butylbenzene	10.000	10.360	-3.6	97	0.00
71	2-Chlorotoluene	10.000	12.761	-27.6	98	0.00
72 T	4-Ethyltoluene	10.000	10.212	-2.1	98	0.00
73 T	1,3,5-Trimethylbenzene	10.000	12.818	-28.2	97	0.00
74 T	1,2,4-Trimethylbenzene	10.000	12.594	-25.9	98	0.00
75 T	1,3-Dichlorobenzene	10.000	11.284	-12.8	99	0.00
76 T	1,4-Dichlorobenzene	10.000	11.710	-17.1	98	0.00
77 T	1,2-Dichlorobenzene	10.000	11.026	-10.3	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.828	1.7	96	0.00
79 T	Naphthalene	10.000	9.778	2.2	95	0.00
80 T	Naphthalene,2-methyl-	10.000	8.078	19.2	87	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.972	0.3	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042940.D
 Acq On : 18 Sep 2025 11:01
 Operator : SY/MD
 Sample : VL0918ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABL01

Quant Time: Sep 19 01:22:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	148160	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	363124	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	306480	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	229711	9.589	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%

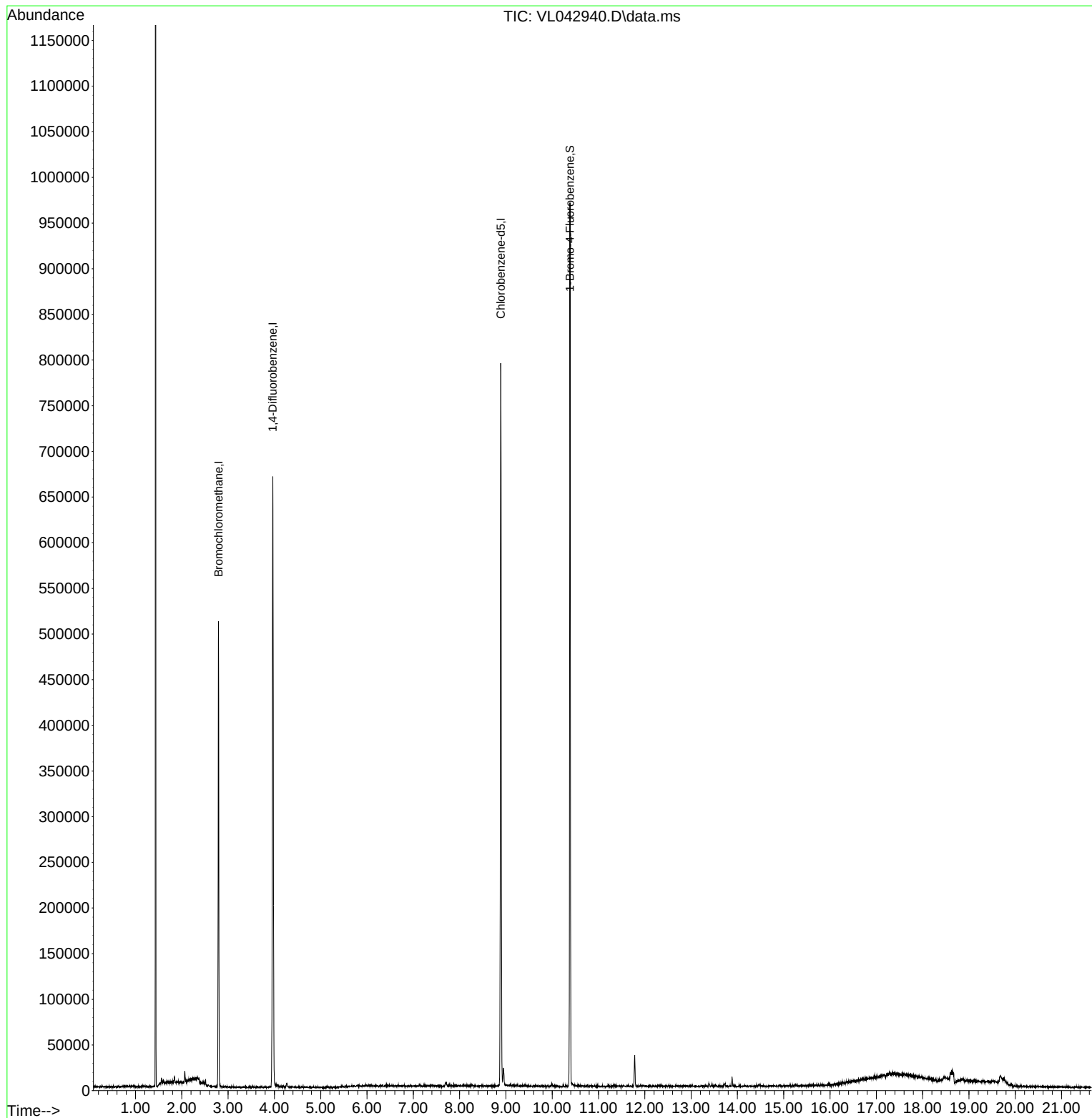
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
Data File : VL042940.D
Acq On : 18 Sep 2025 11:01
Operator : SY/MD
Sample : VL0918ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0918ABL01

Quant Time: Sep 19 01:22:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Sep 18 02:57:46 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042942.D
 Acq On : 18 Sep 2025 12:14
 Operator : SY/MD
 Sample : QC091125 CAN 10060
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC091125 CAN 10060

Quant Time: Sep 19 01:23:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	151587	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	376783	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	311904	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	236215	9.689	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%

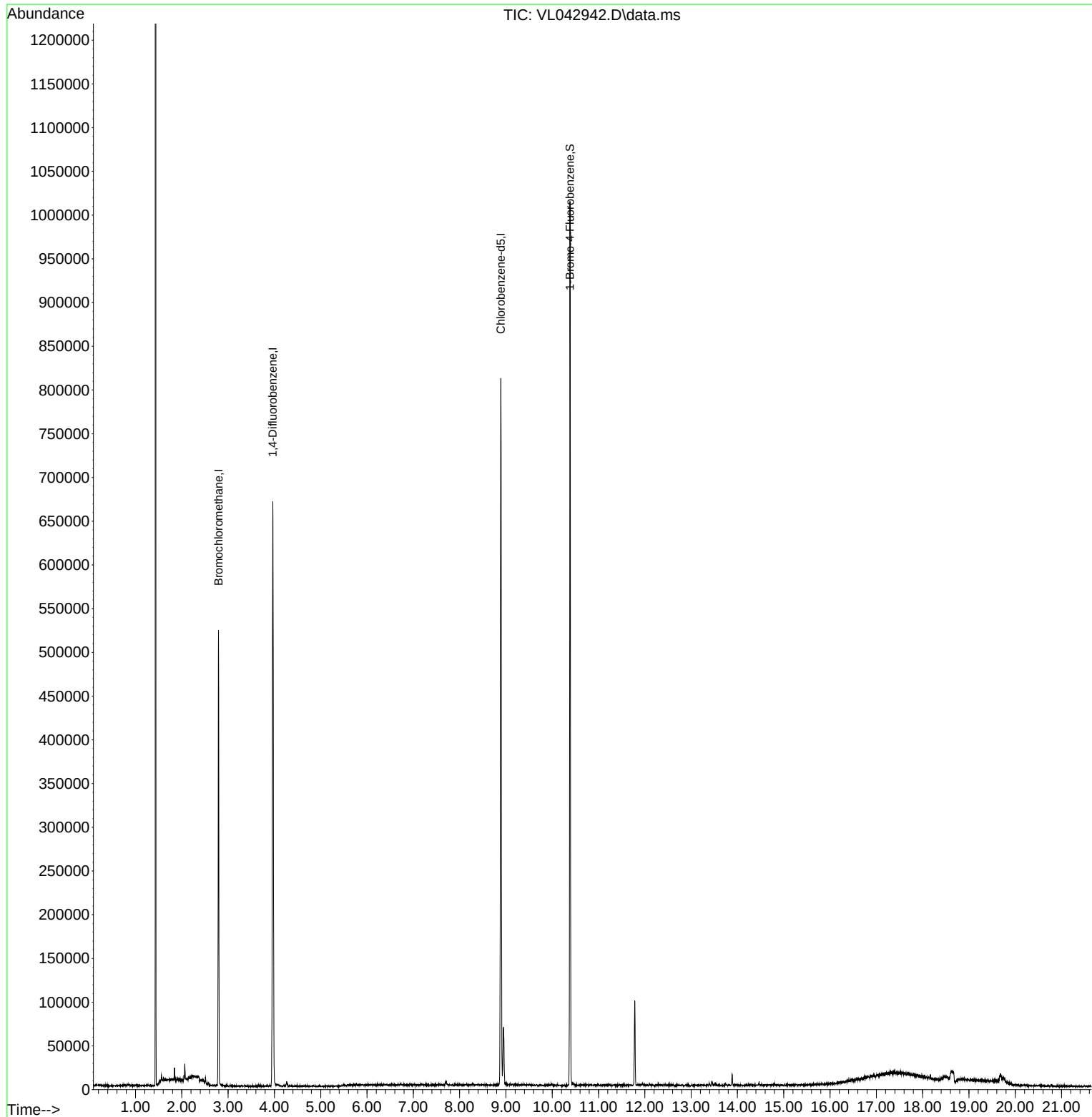
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
Data File : VL042942.D
Acq On : 18 Sep 2025 12:14
Operator : SY/MD
Sample : QC091125 CAN 10060
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC091125 CAN 10060

Quant Time: Sep 19 01:23:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Sep 18 02:57:46 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042943.D
 Acq On : 18 Sep 2025 12:49
 Operator : SY/MD
 Sample : VL0918ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS02

Quant Time: Sep 19 01:24:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	157147	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	398112	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.889	117	342230	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.381 95 281987 10.542 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	221614	9.873	ppbv	98
3) Chlorodifluoromethane	1.477	51	237059	10.031	ppbv	100
4) Chloromethane	1.535	50	88001	9.755	ppbv	99
5) Vinyl Chloride	1.580	62	75659	8.890	ppbv	97
6) Bromomethane	1.668	94	28772	9.729	ppbv	93
7) Chloroethane	1.706	64	30707	9.796	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	173736	9.755	ppbv	99
9) Propene	1.483	41	87615	10.152	ppbv	99
10) Heptane	4.985	43	247851	11.590	ppbv	98
11) Trichlorofluoromethane	1.878	101	214280	9.663	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	167632	9.676	ppbv	100
13) Ethanol	1.723	45	7358	8.362	ppbv	95
14) Bromoethene	1.784	108	58670	9.506	ppbv	98
15) Acetone	1.836	43	164049	8.499	ppbv	100
16) 1,3-Butadiene	1.609	39	75881	9.398	ppbv	100
17) tert-Butyl alcohol	2.040	59	179502	9.658	ppbv	99
18) 1,1-Dichloroethene	2.037	96	75279	9.927	ppbv	94
19) Isopropyl Alcohol	1.888	45	99744	9.638	ppbv	100
20) Methylene Chloride	2.062	84	65464	7.790	ppbv	97
21) Allyl Chloride	2.098	41	125866	9.620	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	84718	9.856	ppbv	92
23) Vinyl Acetate	2.464	43	234952	10.476	ppbv	99
24) 1,1-Dichloroethane	2.412	63	167118	9.843	ppbv	99
25) Ethyl Acetate	2.836	43	445635	10.812	ppbv	100
26) Hexane	2.830	57	196952	11.134	ppbv	98
27) Carbon Disulfide	2.153	76	213020	9.764	ppbv	97
28) Methyl tert-Butyl Ether	2.441	73	92298	9.496	ppbv	99
29) Chloroform	2.849	83	291292	10.075	ppbv	96
30) Cyclohexane	3.862	84	156833	11.769	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	180628	10.459	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	268252	9.916	ppbv	99
34) 2-Butanone	2.558	43	275491	10.675	ppbv	99
35) Carbon Tetrachloride	3.765	117	278532	9.842	ppbv	99
36) Benzene	3.661	78	375346	10.809	ppbv	99
37) 1,2-Dichloroethane	3.221	62	218301	10.496	ppbv	99
38) Trichloroethene	4.551	130	165317	10.517	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147865	10.536	ppbv	97
40) 1,4-Dioxane	4.584	88	57905	11.625	ppbv #	96
41) Tetrahydrofuran	3.056	42	150133	11.755	ppbv	100
42) Bromodichloromethane	4.493	83	311531	10.438	ppbv	97
43) Methyl Methacrylate	4.885	69	141275	12.151	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	676730	11.684	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	143251	11.685	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042943.D
 Acq On : 18 Sep 2025 12:49
 Operator : SY/MD
 Sample : VL0918ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS02

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:24:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.607	75	192317	11.379	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	147521	10.309	ppbv	95
48) Dibromochloromethane	7.390	129	236633	10.558	ppbv	99
49) Bromoform	9.487	173	190569	10.894	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	383141	12.417	ppbv	100
51) 2-Hexanone	7.442	43	301477	13.156	ppbv	99
52) Tetrachloroethene	8.231	164	111470	10.410	ppbv	95
53) Toluene	6.940	91	405706	12.529	ppbv	99
54) 1,2-Dibromoethane	7.659	107	203289	11.043	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.927	131	180415	10.348	ppbv	99
57) Chlorobenzene	8.927	112	333331	10.538	ppbv	98
58) Ethyl Benzene	9.361	91	575762	13.059	ppbv	99
59) m/p-Xylene	9.555	91	960501m	25.779	ppbv	
60) o-Xylene	9.970	91	482682	13.030	ppbv	99
61) Styrene	9.876	104	188516	9.850	ppbv	99
62) Isopropylbenzene	10.542	105	675382	12.516	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	277312	10.363	ppbv	98
64) n-propylbenzene	10.992	120	175243	12.526	ppbv	99
65) tert-Butylbenzene	11.536	119	602619	13.069	ppbv	100
66) Benzyl Chloride	11.617	91	53684	12.529	ppbv	98
67) sec-Butylbenzene	11.769	105	880638	12.553	ppbv	100
69) p-Isopropyltoluene	11.928	119	706403	13.066	ppbv	99
70) n-Butylbenzene	12.284	91	758319	10.480	ppbv	100
71) 2-Chlorotoluene	10.905	91	513816	12.833	ppbv	99
72) 4-Ethyltoluene	11.128	105	573658	10.243	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	476027	12.989	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	547542	12.713	ppbv	92
75) 1,3-Dichlorobenzene	11.611	146	311816	11.420	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	307014	11.688	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	305054	11.073	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	179681	10.213	ppbv	100
79) Naphthalene	13.514	128	461409	10.182	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	127799	9.012	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	219805	10.109	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042943.D
 Acq On : 18 Sep 2025 12:49
 Operator : SY/MD
 Sample : VL0918ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS02

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

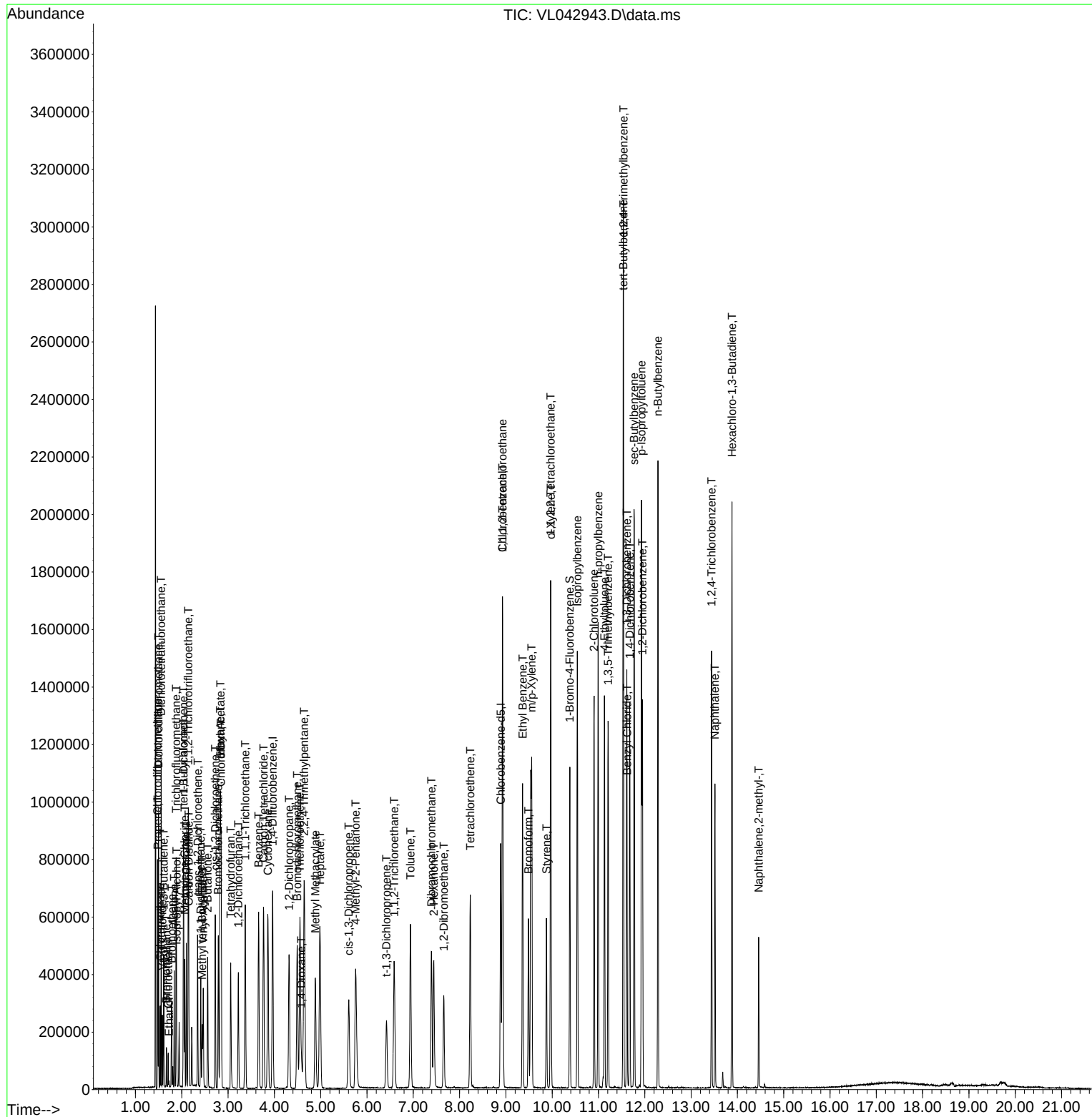
Quant Time: Sep 19 01:24:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

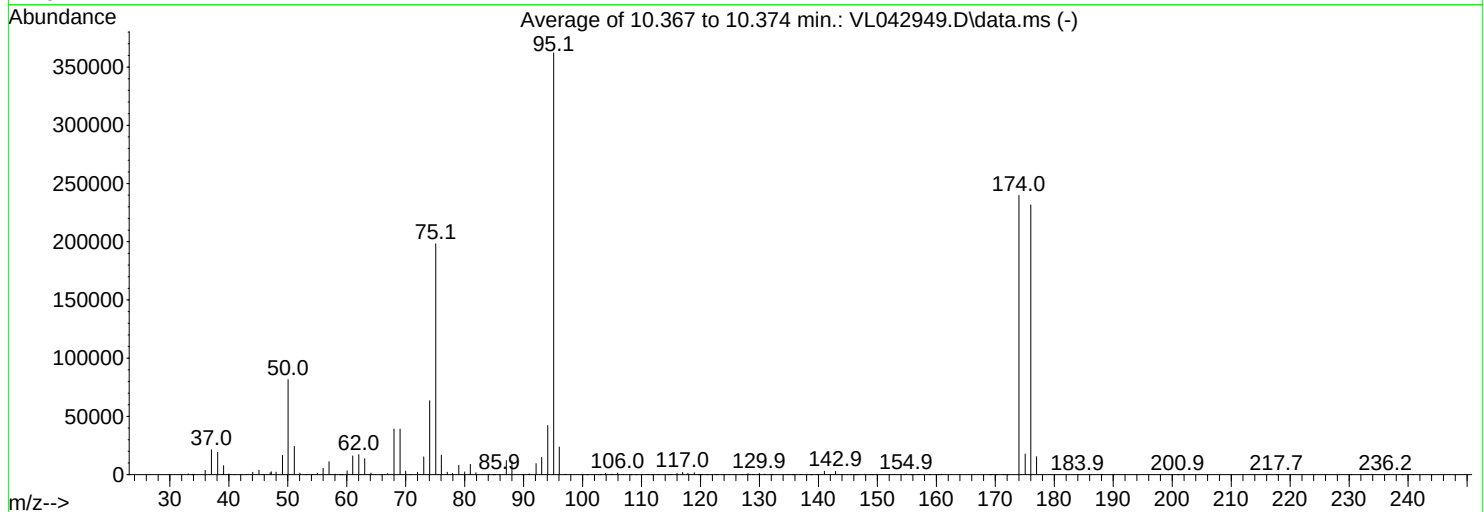
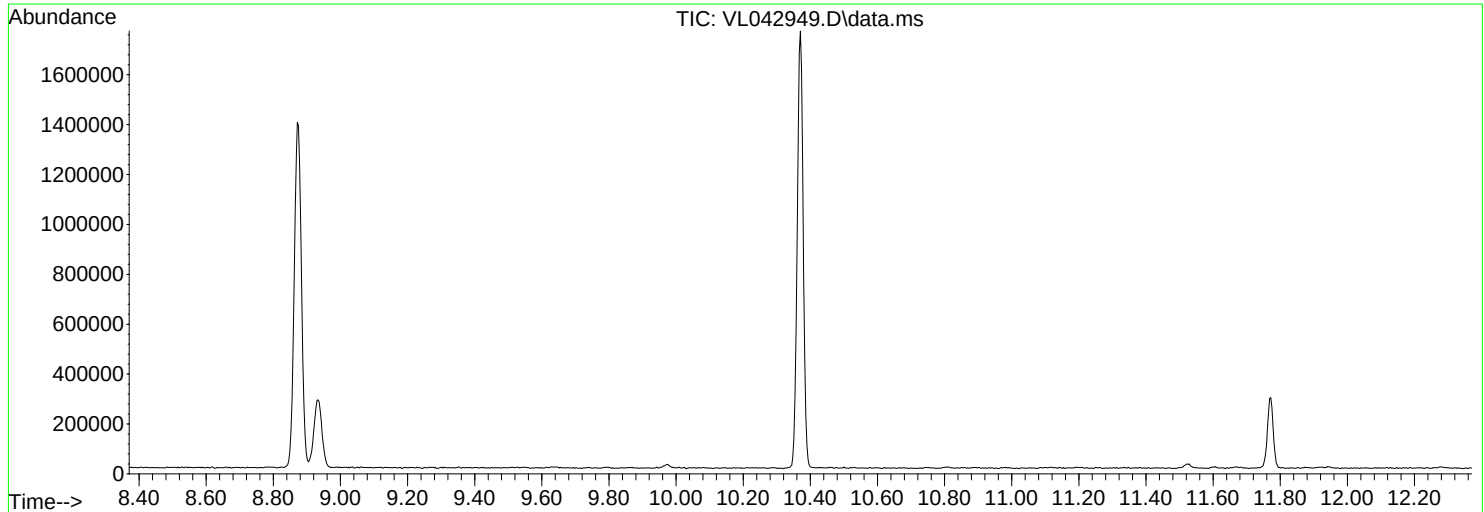


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042949.D
Acq On : 22 Sep 2025 08:55
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3156

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.5	81605	PASS
75	95	30	66	54.7	198315	PASS
95	95	100	100	100.0	362228	PASS
96	95	5	9	6.6	23817	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	66.2	239765	PASS
175	174	4	9	7.4	17693	PASS
176	174	93	101	96.6	231701	PASS
177	176	5	9	6.6	15367	PASS

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

Method File : VL092225AIR.M

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

Last Update : Tue Sep 23 02:39:16 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042955.D 0.1 =VL042954.D 0.5 =VL042953.D 1 =VL042952.D 2 =VL042951.D 10 =VL042950.D 15 =VL042956.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.391	1.452	1.401	1.248	1.232	1.345	7.33
3) Chlorodifluoro...			1.782	1.821	1.710	1.574	1.494	1.676	8.27
4) Chloromethane			0.693	0.622	0.624	0.560	0.545	0.609	9.66
5) T Vinyl Chloride	0.729	0.562	0.529	0.567	0.524	0.470	0.472	0.550	15.95
6) T Bromomethane			0.224	0.215	0.200	0.166	0.167	0.194	13.76
7) Chloroethane			0.234	0.238	0.212	0.196	0.189	0.214	10.33
8) T Dichlorotetra...			1.227	1.239	1.180	1.047	1.047	1.148	8.24
9) T Propene			0.784	0.787	0.762	0.684	0.631	0.729	9.47
10) T Heptane			2.102	2.060	1.961	1.870	1.738	1.946	7.57
11) T Trichlorofluor...			1.354	1.376	1.346	1.199	1.210	1.297	6.58
12) T 1,1,2-Trichlor...			1.130	1.117	1.068	0.963	0.973	1.050	7.48
13) Ethanol			0.076	0.090	0.088	0.053	0.047	0.071	27.75
14) T Bromoethene			0.430	0.417	0.415	0.362	0.362	0.397	8.23
15) T Acetone			1.490	1.552	1.475	0.993	1.002	1.302	21.48
16) T 1,3-Butadiene			0.751	0.675	0.607	0.520	0.519	0.614	16.41
17) tert-Butyl alc...			1.587	1.544	1.398	1.351	1.262	1.429	9.47
18) T 1,1-Dichloroet...			0.549	0.503	0.485	0.446	0.447	0.486	8.86
19) T Isopropyl Alcohol			0.898	0.813	0.818	0.718	0.667	0.783	11.61
20) T Methylene Chlo...			0.832	0.617	0.510	0.388	0.380	0.545	34.40
21) T Allyl Chloride			0.904	0.971	0.966	0.857	0.837	0.907	6.72
22) T trans-1,2-Dich...			0.589	0.612	0.556	0.507	0.499	0.552	8.98
23) T Vinyl Acetate			2.208	1.897	1.888	1.594	1.716	1.861	12.45
24) T 1,1-Dichloroet...			1.147	1.172	1.109	0.993	0.996	1.083	7.76
25) T Ethyl Acetate			3.405	3.494	3.443	3.153	2.966	3.292	6.83
26) T Hexane			1.621	1.614	1.553	1.398	1.317	1.501	9.08
27) T Carbon Disulfide			1.395	1.436	1.396	1.271	1.232	1.346	6.59
28) T Methyl tert-Bu...			0.953	0.773	0.742	0.638	0.794	0.780	14.61
29) T Chloroform			2.078	2.042	2.038	1.848	1.804	1.962	6.42
30) T Cyclohexane			1.312	1.333	1.280	1.193	1.154	1.255	6.19
31) T cis-1,2-Dichlo...			1.443	1.464	1.465	1.357	1.300	1.406	5.26
32) T 1,1,1-Trichlor...	2.724	2.087	2.017	2.164	2.071	1.902	1.868	2.119	13.51

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.744	0.731	0.741	0.655	0.633	0.701	7.52
35) T Carbon Tetrach...	0.734	0.616	0.660	0.665	0.657	0.610	0.617	0.651	6.63
36) T Benzene			0.974	0.970	0.972	0.898	0.881	0.939	4.84
37) T 1,2-Dichloroet...			0.502	0.517	0.507	0.470	0.473	0.494	4.28
38) T Trichloroethene	0.527	0.495	0.481	0.467	0.452	0.426	0.419	0.467	8.20
39) T 1,2-Dichloropr...			0.344	0.361	0.356	0.327	0.325	0.343	4.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL092225AIR.M										
40)	T	1,4-Dioxane		0.173	0.172	0.163	0.148	0.141	0.159	8.95
41)	T	Tetrahydrofuran		0.427	0.407	0.419	0.389	0.372	0.403	5.57
42)	T	Bromodichlorom...		0.689	0.699	0.702	0.681	0.667	0.688	2.07
43)		Methyl Methacr...		0.406	0.396	0.396	0.368	0.355	0.384	5.61
44)	T	2,2,4-Trimethy...		1.705	1.660	1.690	1.563	1.492	1.622	5.64
45)	T	t-1,3-Dichloro...		0.403	0.414	0.421	0.409	0.402	0.410	1.99
46)	T	cis-1,3-Dichlo...		0.522	0.528	0.537	0.523	0.501	0.522	2.55
47)	T	1,1,2-Trichlor...		0.382	0.377	0.371	0.344	0.336	0.362	5.70
48)	T	Dibromochlorom...		0.572	0.586	0.600	0.571	0.568	0.580	2.36
49)	T	Bromoform		0.477	0.507	0.534	0.508	0.495	0.504	4.18
50)	T	4-Methyl-2-Pen...		0.928	0.949	0.988	0.934	0.897	0.939	3.51
51)	T	2-Hexanone		0.719	0.774	0.769	0.751	0.730	0.749	3.19
52)	T	Tetrachloroethene	0.436 0.404	0.356	0.355	0.351	0.325	0.315	0.363	11.76
53)	T	Toluene		1.155	1.137	1.156	1.078	1.031	1.111	4.95
54)	T	1,2-Dibromoethane	0.520	0.520	0.520	0.525	0.490	0.485	0.510	3.47
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.497	0.486	0.505	0.458	0.447	0.479	5.28
57)	T	Chlorobenzene		0.968	0.978	0.944	0.853	0.822	0.913	7.75
58)	T	Ethyl Benzene		1.657	1.715	1.737	1.570	1.531	1.642	5.45
59)	T	m/p-Xylene		1.332	1.365	1.361	1.225	1.190	1.295	6.29
60)	T	o-Xylene		1.335	1.379	1.359	1.221	1.176	1.294	6.96
61)	T	Styrene		0.605	0.619	0.648	0.602	0.585	0.612	3.89
62)		Isopropylbenzene		2.010	2.059	2.028	1.803	1.744	1.929	7.49
63)	T	1,1,2,2-Tetrac...	0.806 0.722	0.688	0.675	0.673	0.610	0.586	0.680	10.66
64)		n-propylbenzene		0.531	0.529	0.523	0.473	0.463	0.504	6.51
65)		tert-Butylbenzene		1.836	1.839	1.842	1.557	1.503	1.715	9.91
66)	T	Benzyl Chloride		0.170	0.173	0.196	0.195	0.165	0.180	8.14
67)		sec-Butylbenzene		2.508	2.559	2.579	2.191	2.115	2.390	9.19
68)	S	1-Bromo-4-Fluo...	0.736 0.738	0.749	0.743	0.747	0.763	0.750	0.746	1.20
69)		p-Isopropyltol...		2.105	2.168	2.179	1.856	1.788	2.019	9.11
70)		n-Butylbenzene		1.929	2.108	2.136	1.881	1.803	1.971	7.36
71)		2-Chlorotoluene		1.543	1.504	1.528	1.373	1.333	1.456	6.61
72)	T	4-Ethyltoluene		1.715	1.686	1.703	1.523	1.476	1.621	6.92
73)	T	1,3,5-Trimethy...		1.333	1.346	1.399	1.263	1.231	1.314	5.12
74)	T	1,2,4-Trimethy...		1.534	1.522	1.558	1.349	1.294	1.451	8.34
75)	T	1,3-Dichlorobe...		0.918	0.954	0.956	0.845	0.827	0.900	6.72
76)	T	1,4-Dichlorobe...		0.922	0.914	0.959	0.845	0.829	0.894	6.12
77)	T	1,2-Dichlorobe...		0.874	0.914	0.918	0.796	0.780	0.856	7.61
78)	T	Hexachloro-1,3...		0.755	0.742	0.728	0.575	0.549	0.670	14.79
79)	T	Naphthalene	1.093	1.102	1.320	1.474	1.373	1.339	1.283	11.96
80)	T	Naphthalene,2-...		0.384	0.365	0.428	0.402	0.404	0.396	5.94
81)	T	1,2,4-Trichlor...		0.557	0.691	0.777	0.718	0.689	0.686	11.73

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	170899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	526679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	486724	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 371195 10.217 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	213351	9.282	ppbv	100
3) Chlorodifluoromethane	1.473	51	269073	9.392	ppbv	100
4) Chloromethane	1.531	50	95679	9.196	ppbv	100
5) Vinyl Chloride	1.577	62	80350	8.543	ppbv	100
6) Bromomethane	1.667	94	28301	8.530	ppbv	100
7) Chloroethane	1.703	64	33446	9.158	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	178992	9.122	ppbv	100
9) Propene	1.483	41	116849	9.376	ppbv	100
10) Heptane	4.969	43	319577	9.560	ppbv	100
11) Trichlorofluoromethane	1.874	101	204850	9.243	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	164598	9.171	ppbv	100
13) Ethanol	1.719	45	9094	7.613	ppbv	100
14) Bromoethene	1.780	108	61824	9.111	ppbv	100
15) Acetone	1.832	43	169676	7.623	ppbv	100
16) 1,3-Butadiene	1.606	39	88812	8.459	ppbv	100
17) tert-Butyl alcohol	2.036	59	230853	9.456	ppbv	100
18) 1,1-Dichloroethene	2.030	96	76184	9.170	ppbv	100
19) Isopropyl Alcohol	1.884	45	122753	9.174	ppbv	100
20) Methylene Chloride	2.059	84	66314	9.992	ppbv	100
21) Allyl Chloride	2.094	41	146473	9.449	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	86580	9.172	ppbv	100
23) Vinyl Acetate	2.460	43	272378	8.566	ppbv	100
24) 1,1-Dichloroethane	2.405	63	169721	9.168	ppbv	100
25) Ethyl Acetate	2.829	43	538761	9.577	ppbv	100
26) Hexane	2.823	57	238896	9.316	ppbv	100
27) Carbon Disulfide	2.146	76	217259	9.446	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	108987	8.176	ppbv	100
29) Chloroform	2.845	83	315779	9.418	ppbv	100
30) Cyclohexane	3.852	84	203803	9.506	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	231907	9.654	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	325118	8.947	ppbv	100
34) 2-Butanone	2.551	43	344874	9.343	ppbv	100
35) Carbon Tetrachloride	3.755	117	321267	9.480	ppbv	100
36) Benzene	3.651	78	472855	9.561	ppbv	100
37) 1,2-Dichloroethane	3.214	62	247754	9.525	ppbv	100
38) Trichloroethene	4.541	130	224516	9.134	ppbv	100
39) 1,2-Dichloropropane	4.305	63	172059	9.523	ppbv	100
40) 1,4-Dioxane	4.570	88	77889	9.283	ppbv #	100
41) Tetrahydrofuran	3.046	42	204724	9.649	ppbv	100
42) Bromodichloromethane	4.480	83	358858	9.903	ppbv	100
43) Methyl Methacrylate	4.871	69	193676	9.646	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	823031	9.631	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	215233	9.969	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	275210	10.006	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	181329	9.498	ppbv	100
48) Dibromochloromethane	7.383	129	300497	9.845	ppbv	100
49) Bromoform	9.480	173	267814	10.087	ppbv	100
50) 4-Methyl-2-Pentanone	5.736	43	492068	9.920	ppbv	100
51) 2-Hexanone	7.428	43	395744	10.036	ppbv #	100
52) Tetrachloroethene	8.218	164	171294	8.951	ppbv	100
53) Toluene	6.923	91	567779	9.699	ppbv	100
54) 1,2-Dibromoethane	7.645	107	257904	9.605	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.921	131	223066	9.575	ppbv	100
57) Chlorobenzene	8.917	112	415238	9.345	ppbv	100
58) Ethyl Benzene	9.348	91	764249	9.562	ppbv	100
59) m/p-Xylene	9.526	91	1192566m	18.913	ppbv	
60) o-Xylene	9.959	91	594329	9.437	ppbv	100
61) Styrene	9.866	104	293111	9.840	ppbv	100
62) Isopropylbenzene	10.536	105	877401	9.347	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	296678	8.963	ppbv	100
64) n-propylbenzene	10.985	120	230432	9.394	ppbv	100
65) tert-Butylbenzene	11.526	119	757958	9.078	ppbv	100
66) Benzyl Chloride	11.610	91	94982	10.842	ppbv	100
67) sec-Butylbenzene	11.762	105	1066409	9.166	ppbv	100
69) p-Isopropyltoluene	11.921	119	903376	9.192	ppbv	100
70) n-Butylbenzene	12.277	91	915624	9.543	ppbv	100
71) 2-Chlorotoluene	10.895	91	668239	9.428	ppbv	100
72) 4-Ethyltoluene	11.121	105	741298	9.398	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	614632	9.608	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	656535	9.294	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	411473	9.392	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	411464	9.456	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	387219	9.289	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	280080	8.591	ppbv	100
79) Naphthalene	13.510	128	668171	10.696	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	195695	10.142	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	349393	10.461	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Sep 23 02:09:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	170758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	524389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	483821	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	361586	10.012	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	47851	2.083	ppbv	97
3) Chlorodifluoromethane	1.476	51	58395	2.040	ppbv	95
4) Chloromethane	1.534	50	21326	2.051	ppbv	99
5) Vinyl Chloride	1.580	62	17892	1.904	ppbv	98
6) Bromomethane	1.667	94	6816	2.056	ppbv	96
7) Chloroethane	1.706	64	7250	1.987	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	40306	2.056	ppbv	98
9) Propene	1.483	41	26007	2.088	ppbv	99
10) Heptane	4.978	43	66978	2.005	ppbv	99
11) Trichlorofluoromethane	1.877	101	45973	2.076	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.140	101	36490	2.035	ppbv	98
13) Ethanol	1.722	45	2989	2.504	ppbv	93
14) Bromoethene	1.784	108	14189	2.093	ppbv #	96
15) Acetone	1.835	43	50357	2.264	ppbv	99
16) 1,3-Butadiene	1.609	39	20729	1.976	ppbv	94
17) tert-Butyl alcohol	2.042	59	47749	1.957	ppbv #	93
18) 1,1-Dichloroethene	2.036	96	16572	1.996	ppbv	95
19) Isopropyl Alcohol	1.887	45	27930	2.089	ppbv #	79
20) Methylene Chloride	2.062	84	17413	2.097	ppbv #	84
21) Allyl Chloride	2.098	41	32985	2.130	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	18991	2.013	ppbv	98
23) Vinyl Acetate	2.463	43	64479	2.029	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	37865	2.047	ppbv	99
25) Ethyl Acetate	2.835	43	117567	2.092	ppbv	99
26) Hexane	2.826	57	53034	2.070	ppbv	98
27) Carbon Disulfide	2.153	76	47660	2.074	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	25348	1.903	ppbv	92
29) Chloroform	2.848	83	69599	2.077	ppbv	96
30) Cyclohexane	3.855	84	43725	2.041	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	50019	2.084	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	70729	1.948	ppbv	97
34) 2-Butanone	2.557	43	77689	2.114	ppbv	98
35) Carbon Tetrachloride	3.761	117	68858	2.041	ppbv	95
36) Benzene	3.658	78	101901	2.069	ppbv	97
37) 1,2-Dichloroethane	3.217	62	53130	2.052	ppbv	98
38) Trichloroethene	4.548	130	47424	1.938	ppbv	94
39) 1,2-Dichloropropane	4.308	63	37381m	2.078	ppbv	
40) 1,4-Dioxane	4.586	88	17074m	2.044	ppbv	
41) Tetrahydrofuran	3.056	42	43962	2.081	ppbv	98
42) Bromodichloromethane	4.486	83	73675	2.042	ppbv	98
43) Methyl Methacrylate	4.881	69	41527	2.077	ppbv	99
44) 2,2,4-Trimethylpentane	4.638	57	177242	2.083	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	44171	2.055	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:09:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	56335	2.057	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	38961m	2.050	ppbv	
48) Dibromochloromethane	7.383	129	62968	2.072	ppbv	98
49) Bromoform	9.480	173	56021	2.119	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	103605m	2.098	ppbv	
51) 2-Hexanone	7.438	43	80620	2.053	ppbv	99
52) Tetrachloroethene	8.224	164	36853	1.934	ppbv	94
53) Toluene	6.933	91	121268	2.081	ppbv	100
54) 1,2-Dibromoethane	7.652	107	55022	2.058	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	48901	2.112	ppbv	98
57) Chlorobenzene	8.924	112	91325	2.068	ppbv	94
58) Ethyl Benzene	9.354	91	168063	2.115	ppbv	99
59) m/p-Xylene	9.532	91	263362m	4.202	ppbv	
60) o-Xylene	9.963	91	131507	2.101	ppbv	98
61) Styrene	9.869	104	62748	2.119	ppbv	98
62) Isopropylbenzene	10.539	105	196198	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	65089	1.978	ppbv	98
64) n-propylbenzene	10.985	120	50569	2.074	ppbv	93
65) tert-Butylbenzene	11.529	119	178218	2.147	ppbv	98
66) Benzyl Chloride	11.613	91	18992	2.181	ppbv	98
67) sec-Butylbenzene	11.765	105	249510	2.158	ppbv	100
69) p-Isopropyltoluene	11.924	119	210808	2.158	ppbv	97
70) n-Butylbenzene	12.280	91	206691	2.167	ppbv	100
71) 2-Chlorotoluene	10.898	91	147901	2.099	ppbv	100
72) 4-Ethyltoluene	11.124	105	164770	2.102	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	135344	2.128	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	150772	2.147	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	92487	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	92794	2.145	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	88825	2.144	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	70481	2.175	ppbv	99
79) Naphthalene	13.510	128	142653	2.297	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	41369	2.157	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	75139	2.263	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: Sep 23 02:10:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	162797	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	511767	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	469265	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	348878	9.960	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	23644	1.080	ppbv	97
3) Chlorodifluoromethane	1.476	51	29646	1.086	ppbv	99
4) Chloromethane	1.531	50	10120	1.021	ppbv	97
5) Vinyl Chloride	1.580	62	9228	1.030	ppbv	99
6) Bromomethane	1.667	94	3493	1.105	ppbv	96
7) Chloroethane	1.703	64	3872	1.113	ppbv #	81
8) Dichlorotetrafluoroethane	1.554	85	20172	1.079	ppbv	97
9) Propene	1.482	41	12808	1.079	ppbv	92
10) Heptane	4.972	43	33540m	1.053	ppbv	
11) Trichlorofluoromethane	1.874	101	22397	1.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	18180	1.063	ppbv	99
13) Ethanol	1.719	45	1463	1.286	ppbv #	33
14) Bromoethene	1.780	108	6783	1.049	ppbv #	87
15) Acetone	1.832	43	25273	1.192	ppbv	99
16) 1,3-Butadiene	1.609	39	10993	1.099	ppbv	88
17) tert-Butyl alcohol	2.039	59	25141	1.081	ppbv #	88
18) 1,1-Dichloroethene	2.033	96	8192	1.035	ppbv	96
19) Isopropyl Alcohol	1.884	45	13241	1.039	ppbv #	41
20) Methylene Chloride	2.059	84	10045	0.985	ppbv	97
21) Allyl Chloride	2.094	41	15801	1.070	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	9960	1.108	ppbv	96
23) Vinyl Acetate	2.457	43	30884	1.020	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	19077	1.082	ppbv	99
25) Ethyl Acetate	2.832	43	56877	1.061	ppbv	97
26) Hexane	2.822	57	26276	1.076	ppbv	96
27) Carbon Disulfide	2.149	76	23373	1.067	ppbv #	32
28) Methyl tert-Butyl Ether	2.441	73	12580	0.991	ppbv #	86
29) Chloroform	2.842	83	33240	1.041	ppbv	99
30) Cyclohexane	3.855	84	21707	1.063	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	23828	1.041	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	35233	1.018	ppbv	97
34) 2-Butanone	2.554	43	37431	1.044	ppbv	97
35) Carbon Tetrachloride	3.758	117	34016	1.033	ppbv	96
36) Benzene	3.651	78	49652	1.033	ppbv	100
37) 1,2-Dichloroethane	3.214	62	26482	1.048	ppbv	98
38) Trichloroethene	4.538	130	23906	1.001	ppbv	98
39) 1,2-Dichloropropane	4.311	63	18493m	1.053	ppbv	
40) 1,4-Dioxane	4.583	88	8804m	1.080	ppbv	
41) Tetrahydrofuran	3.055	42	20845	1.011	ppbv	98
42) Bromodichloromethane	4.480	83	35768m	1.016	ppbv	
43) Methyl Methacrylate	4.871	69	20289	1.040	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	84970	1.023	ppbv	96
45) t-1,3-Dichloropropene	6.402	75	21210m	1.011	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:10:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	27025m	1.011	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	19311	1.041	ppbv	96
48) Dibromochloromethane	7.383	129	30015	1.012	ppbv	99
49) Bromoform	9.477	173	25929	1.005	ppbv	98
50) 4-Methyl-2-Pentanone	5.748	43	48546	1.007	ppbv	98
51) 2-Hexanone	7.431	43	39627	1.034	ppbv #	99
52) Tetrachloroethene	8.218	164	18188	0.978	ppbv	97
53) Toluene	6.926	91	58200	1.023	ppbv	100
54) 1,2-Dibromoethane	7.645	107	26608	1.020	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	22802	1.015	ppbv	94
57) Chlorobenzene	8.914	112	45873	1.071	ppbv	98
58) Ethyl Benzene	9.351	91	80473	1.044	ppbv	97
59) m/p-Xylene	9.529	91	128139m	2.108	ppbv	
60) o-Xylene	9.959	91	64703	1.066	ppbv	99
61) Styrene	9.869	104	29061	1.012	ppbv	98
62) Isopropylbenzene	10.535	105	96621	1.068	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	31695	0.993	ppbv	96
64) n-propylbenzene	10.985	120	24820	1.049	ppbv	98
65) tert-Butylbenzene	11.526	119	86303	1.072	ppbv	99
66) Benzyl Chloride	11.610	91	8140	0.964	ppbv	100
67) sec-Butylbenzene	11.762	105	120070	1.070	ppbv	100
69) p-Isopropyltoluene	11.921	119	101749	1.074	ppbv	99
70) n-Butylbenzene	12.277	91	98908	1.069	ppbv	99
71) 2-Chlorotoluene	10.895	91	70577	1.033	ppbv	98
72) 4-Ethyltoluene	11.121	105	79095	1.040	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	63174	1.024	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	71411	1.049	ppbv	95
75) 1,3-Dichlorobenzene	11.603	146	44769	1.060	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	42879	1.022	ppbv	97
77) 1,2-Dichlorobenzene	11.940	146	42911	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	34798	1.107	ppbv	99
79) Naphthalene	13.510	128	61925	1.028	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	17116	0.920	ppbv	97
81) 1,2,4-Trichlorobenzene	13.435	180	32411	1.007	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165435	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	509306	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	464091	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 347374 10.027 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11508	0.517	ppbv	96
3) Chlorodifluoromethane	1.476	51	14744	0.532	ppbv #	90
4) Chloromethane	1.534	50	5729	0.569	ppbv	97
5) Vinyl Chloride	1.580	62	4373	0.480	ppbv	93
6) Bromomethane	1.667	94	1850	0.576	ppbv	100
7) Chloroethane	1.703	64	1936	0.548	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	10149	0.534	ppbv	96
9) Propene	1.483	41	6482	0.537	ppbv	94
10) Heptane	4.978	43	17388m	0.537	ppbv	
11) Trichlorofluoromethane	1.877	101	11200	0.522	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	9346	0.538	ppbv	100
13) Ethanol	1.719	45	629m	0.544	ppbv	
14) Bromoethene	1.784	108	3553	0.541	ppbv #	84
15) Acetone	1.835	43	12326	0.572	ppbv #	86
16) 1,3-Butadiene	1.609	39	6215	0.611	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13128	0.555	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4543	0.565	ppbv	93
19) Isopropyl Alcohol	1.887	45	7431	0.574	ppbv #	46
20) Methylene Chloride	2.062	84	6881	0.430	ppbv	87
21) Allyl Chloride	2.098	41	7481	0.499	ppbv #	69
22) trans-1,2-Dichloroethene	2.337	96	4869m	0.533	ppbv	
23) Vinyl Acetate	2.460	43	18264	0.593	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9484	0.529	ppbv #	98
25) Ethyl Acetate	2.836	43	28162	0.517	ppbv #	95
26) Hexane	2.823	57	13406	0.540	ppbv	98
27) Carbon Disulfide	2.149	76	11535	0.518	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	7886	0.611	ppbv #	65
29) Chloroform	2.845	83	17188	0.530	ppbv	100
30) Cyclohexane	3.855	84	10856	0.523	ppbv	93
31) cis-1,2-Dichloroethene	2.719	61	11939	0.513	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	16684	0.474	ppbv	96
34) 2-Butanone	2.557	43	18948	0.531	ppbv	96
35) Carbon Tetrachloride	3.761	117	16799	0.513	ppbv	94
36) Benzene	3.654	78	24807	0.519	ppbv #	95
37) 1,2-Dichloroethane	3.217	62	12788	0.508	ppbv	100
38) Trichloroethene	4.544	130	12243	0.515	ppbv #	88
39) 1,2-Dichloropropane	4.315	63	8772	0.502	ppbv #	86
40) 1,4-Dioxane	4.599	88	4405m	0.543	ppbv	
41) Tetrahydrofuran	3.059	42	10871	0.530	ppbv	95
42) Bromodichloromethane	4.486	83	17552	0.501	ppbv	96
43) Methyl Methacrylate	4.881	69	10330m	0.532	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	43414m	0.525	ppbv	
45) t-1,3-Dichloropropene	6.409	75	10262m	0.492	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	13304m	0.500	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	9725m	0.527	ppbv	
48) Dibromochloromethane	7.383	129	14563	0.493	ppbv	99
49) Bromoform	9.480	173	12136	0.473	ppbv	97
50) 4-Methyl-2-Pentanone	5.761	43	23639	0.493	ppbv	95
51) 2-Hexanone	7.441	43	18322	0.480	ppbv #	97
52) Tetrachloroethene	8.218	164	9073m	0.490	ppbv	
53) Toluene	6.927	91	29404	0.519	ppbv	99
54) 1,2-Dibromoethane	7.648	107	13233	0.510	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	11535	0.519	ppbv #	1
57) Chlorobenzene	8.920	112	22463	0.530	ppbv	91
58) Ethyl Benzene	9.351	91	38459	0.505	ppbv	96
59) m/p-Xylene	9.545	91	61801m	1.028	ppbv	
60) o-Xylene	9.959	91	30976	0.516	ppbv	98
61) Styrene	9.865	104	14048	0.495	ppbv	98
62) Isopropylbenzene	10.535	105	46640	0.521	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15974	0.506	ppbv	97
64) n-propylbenzene	10.985	120	12333	0.527	ppbv	100
65) tert-Butylbenzene	11.529	119	42595	0.535	ppbv	99
66) Benzyl Chloride	11.613	91	3942m	0.472	ppbv	
67) sec-Butylbenzene	11.765	105	58190	0.525	ppbv	99
69) p-Isopropyltoluene	11.924	119	48855	0.521	ppbv	100
70) n-Butylbenzene	12.280	91	44764	0.489	ppbv	100
71) 2-Chlorotoluene	10.898	91	35797	0.530	ppbv	96
72) 4-Ethyltoluene	11.125	105	39803	0.529	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	30932	0.507	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	35601	0.529	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	21307	0.510	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	21404	0.516	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	20279	0.510	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	17515	0.563	ppbv	98
79) Naphthalene	13.510	128	25577	0.429	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	8906	0.484	ppbv	92
81) 1,2,4-Trichlorobenzene	13.439	180	12920	0.406	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDIC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

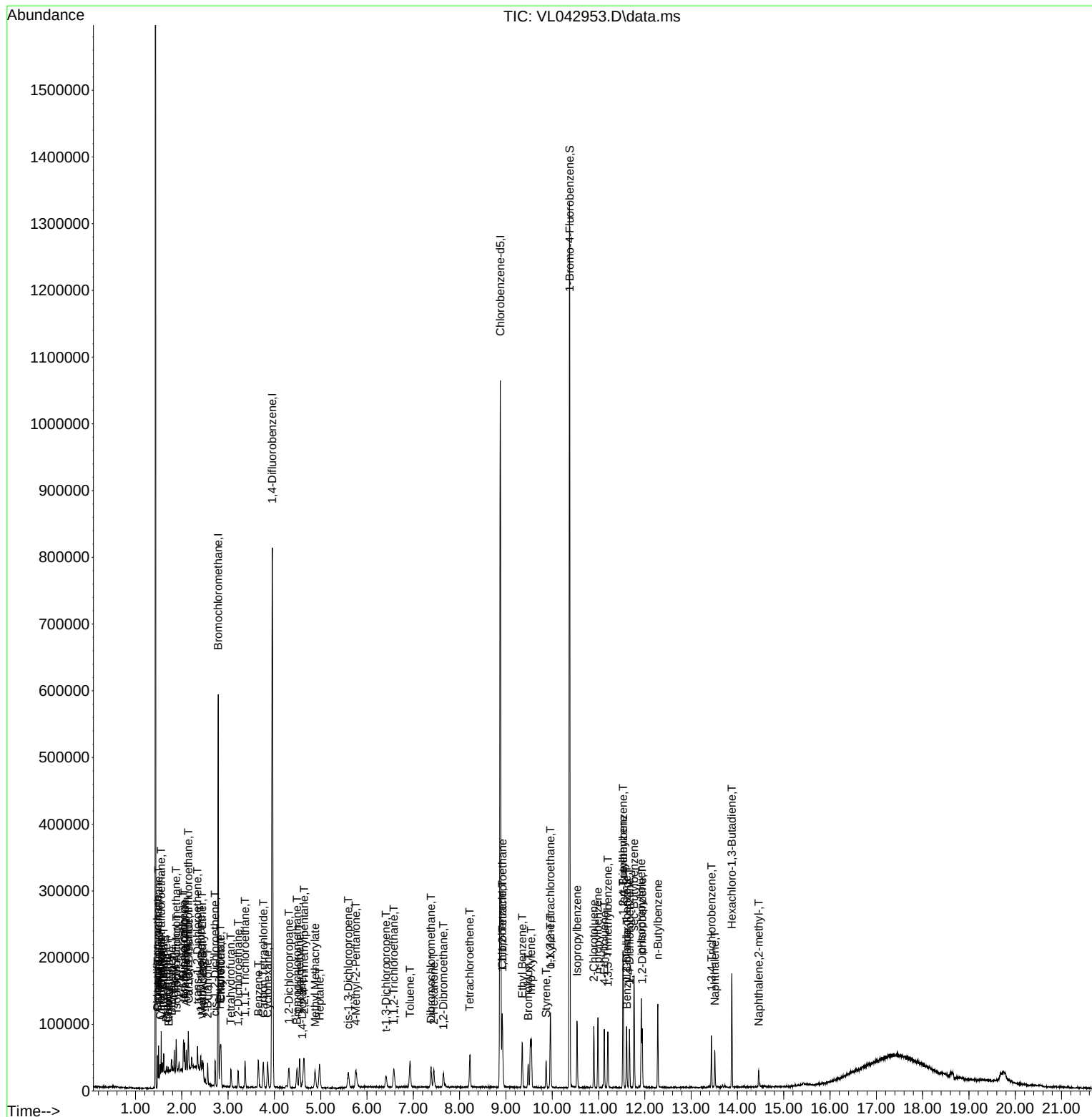
Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042954.D
 Acq On : 22 Sep 2025 11:56
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 22 2025
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163771	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	498673	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	457171	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337196	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	920	0.102	ppbv #	75
32) 1,1,1-Trichloroethane	3.370	97	3418	0.098	ppbv	96
35) Carbon Tetrachloride	3.764	117	3071m	0.096	ppbv	
38) Trichloroethene	4.541	130	2470m	0.106	ppbv	
52) Tetrachloroethene	8.228	164	2013m	0.111	ppbv	
54) 1,2-Dibromoethane	7.655	107	2595m	0.102	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3301	0.106	ppbv	97
79) Naphthalene	13.516	128	4997m	0.085	ppbv	

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

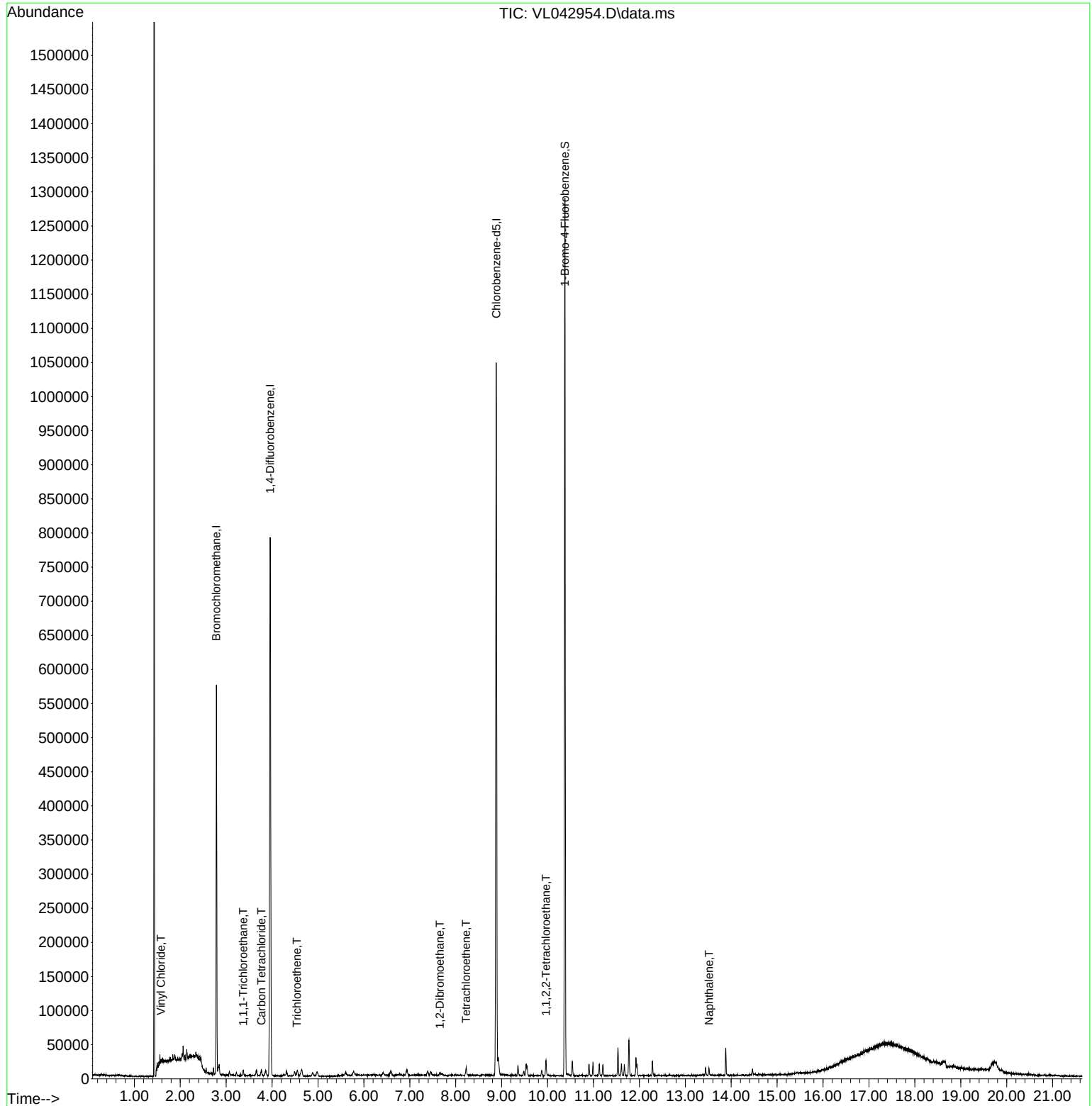
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Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042955.D
 Acq On : 22 Sep 2025 12:30
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:13:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	504423	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	454013	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	334002	9.855	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	358	0.040	ppbv	# 53
32) 1,1,1-Trichloroethane	3.373	97	1337m	0.038	ppbv	
35) Carbon Tetrachloride	3.761	117	1110m	0.034	ppbv	
38) Trichloroethene	4.551	130	797m	0.034	ppbv	
52) Tetrachloroethene	8.231	164	660m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1098m	0.036	ppbv	

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

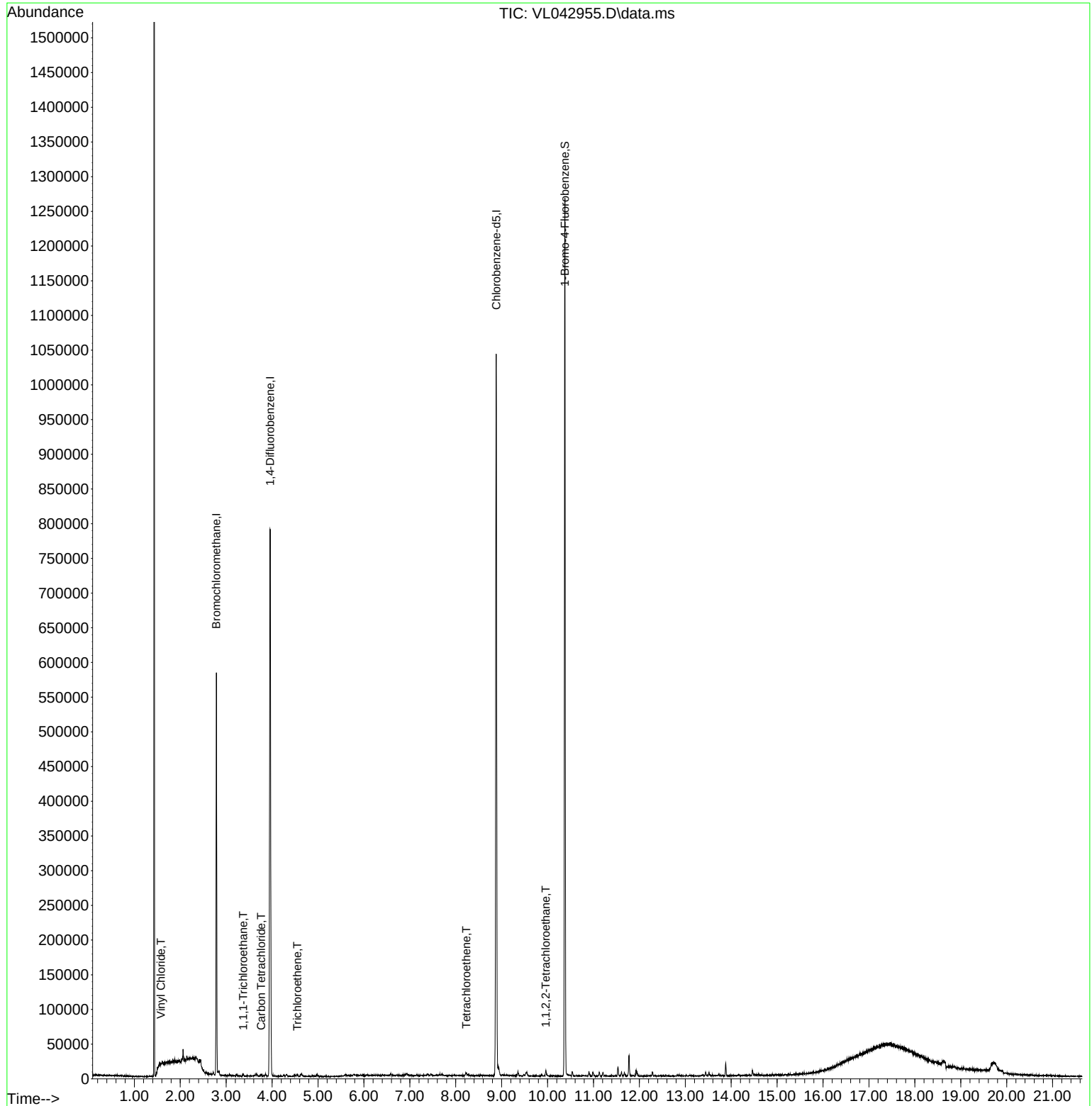
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042955.D
Acq On : 22 Sep 2025 12:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	162846	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	494779	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	458256	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 343752 10.049 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	300946	13.740	ppbv	97
3) Chlorodifluoromethane	1.476	51	364959	13.369	ppbv	100
4) Chloromethane	1.534	50	133240	13.439	ppbv	99
5) Vinyl Chloride	1.583	62	115257	12.860	ppbv	100
6) Bromomethane	1.670	94	40861	12.925	ppbv	94
7) Chloroethane	1.706	64	46081	13.241	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	255815	13.682	ppbv	98
9) Propene	1.486	41	154069	12.973	ppbv	94
10) Heptane	4.985	43	424500	13.327	ppbv	98
11) Trichlorofluoromethane	1.881	101	295479	13.991	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	237615	13.894	ppbv	99
13) Ethanol	1.722	45	11502	10.105	ppbv	99
14) Bromoethene	1.784	108	88375	13.668	ppbv	100
15) Acetone	1.835	43	244861	11.545	ppbv	97
16) 1,3-Butadiene	1.612	39	126670	12.661	ppbv	97
17) tert-Butyl alcohol	2.039	59	308347	13.255	ppbv	99
18) 1,1-Dichloroethene	2.036	96	109211	13.796	ppbv	99
19) Isopropyl Alcohol	1.887	45	162952	12.780	ppbv	100
20) Methylene Chloride	2.062	84	92708	14.996	ppbv	95
21) Allyl Chloride	2.098	41	204552	13.848	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	121815	13.542	ppbv	98
23) Vinyl Acetate	2.463	43	419251	13.837	ppbv	99
24) 1,1-Dichloroethane	2.411	63	243229	13.789	ppbv	99
25) Ethyl Acetate	2.835	43	724418	13.514	ppbv	99
26) Hexane	2.829	57	321710	13.166	ppbv	99
27) Carbon Disulfide	2.153	76	300931	13.731	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	193915	15.267	ppbv	94
29) Chloroform	2.852	83	440772	13.796	ppbv	98
30) Cyclohexane	3.858	84	281932	13.800	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	317456	13.869	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	456335	13.178	ppbv	99
34) 2-Butanone	2.557	43	469872	13.551	ppbv	99
35) Carbon Tetrachloride	3.764	117	457985	14.385	ppbv	97
36) Benzene	3.658	78	654205	14.080	ppbv	99
37) 1,2-Dichloroethane	3.221	62	350841	14.358	ppbv	100
38) Trichloroethene	4.548	130	310602	13.450	ppbv	97
39) 1,2-Dichloropropane	4.315	63	241323	14.218	ppbv	95
40) 1,4-Dioxane	4.580	88	104884	13.306	ppbv #	98
41) Tetrahydrofuran	3.052	42	276157	13.855	ppbv	99
42) Bromodichloromethane	4.489	83	495091	14.544	ppbv	98
43) Methyl Methacrylate	4.881	69	263659	13.979	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	1107180	13.791	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	298019	14.694	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	371770	14.389	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	249453	13.909	ppbv	96
48) Dibromochloromethane	7.389	129	421755	14.709	ppbv	99
49) Bromoform	9.487	173	367120	14.719	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	666049	14.293	ppbv	100
51) 2-Hexanone	7.435	43	541611	14.620	ppbv	100
52) Tetrachloroethene	8.228	164	233980	13.015	ppbv	99
53) Toluene	6.936	91	765216	13.915	ppbv	98
54) 1,2-Dibromoethane	7.652	107	359750	14.261	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	306952	13.994	ppbv	99
57) Chlorobenzene	8.924	112	565065	13.507	ppbv	98
58) Ethyl Benzene	9.357	91	1052303	13.985	ppbv	99
59) m/p-Xylene	9.555	91	1636030m	27.557	ppbv	
60) o-Xylene	9.966	91	808098	13.629	ppbv	100
61) Styrene	9.872	104	401899	14.330	ppbv	99
62) Isopropylbenzene	10.542	105	1198767	13.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	403038	12.932	ppbv	100
64) n-propylbenzene	10.992	120	318541	13.793	ppbv	97
65) tert-Butylbenzene	11.532	119	1033382	13.146	ppbv	100
66) Benzyl Chloride	11.616	91	113549	13.767	ppbv	99
67) sec-Butylbenzene	11.769	105	1454158	13.276	ppbv	99
69) p-Isopropyltoluene	11.927	119	1228773	13.280	ppbv	100
70) n-Butylbenzene	12.283	91	1239042	13.716	ppbv	99
71) 2-Chlorotoluene	10.904	91	916456	13.733	ppbv	100
72) 4-Ethyltoluene	11.128	105	1014567	13.662	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	845958	14.046	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	889339	13.372	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	568597	13.785	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	570104	13.916	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	536286	13.665	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	377435	12.296	ppbv	99
79) Naphthalene	13.513	128	920123	15.645	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	277792	15.290	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	473767	15.066	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	159826	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	493072	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	450930	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 338071 10.043 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	197861	9.204	ppbv	98
3) Chlorodifluoromethane	1.476	51	246838	9.213	ppbv	99
4) Chloromethane	1.535	50	85932	8.831	ppbv	100
5) Vinyl Chloride	1.580	62	74819	8.506	ppbv	98
6) Bromomethane	1.667	94	26463	8.529	ppbv	91
7) Chloroethane	1.706	64	30377	8.894	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	164255	8.951	ppbv	98
9) Propene	1.483	41	105822	9.079	ppbv	95
10) Heptane	4.982	43	284333	9.141	ppbv	99
11) Trichlorofluoromethane	1.878	101	189800	9.157	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	151398	9.020	ppbv	99
13) Ethanol	1.722	45	6606	5.842	ppbv	90
14) Bromoethene	1.781	108	55748	8.785	ppbv	98
15) Acetone	1.836	43	157306	7.557	ppbv	98
16) 1,3-Butadiene	1.609	39	80854	8.234	ppbv	98
17) tert-Butyl alcohol	2.040	59	206466	9.043	ppbv	100
18) 1,1-Dichloroethene	2.036	96	69181	8.904	ppbv	94
19) Isopropyl Alcohol	1.884	45	108171	8.644	ppbv	100
20) Methylene Chloride	2.062	84	61743	9.945	ppbv	98
21) Allyl Chloride	2.098	41	132878	9.166	ppbv	100
22) trans-1,2-Dichloroethene	2.341	96	78085	8.845	ppbv	98
23) Vinyl Acetate	2.464	43	280339	9.427	ppbv	99
24) 1,1-Dichloroethane	2.409	63	155861	9.003	ppbv	100
25) Ethyl Acetate	2.833	43	486993	9.256	ppbv	99
26) Hexane	2.826	57	216458	9.026	ppbv	99
27) Carbon Disulfide	2.150	76	196191	9.121	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	121564	9.752	ppbv	95
29) Chloroform	2.849	83	300507	9.583	ppbv	100
30) Cyclohexane	3.855	84	186186	9.286	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	213362	9.497	ppbv	99
32) 1,1,1-Trichloroethane	3.370	97	307237	9.071	ppbv	100
34) 2-Butanone	2.558	43	313801	9.081	ppbv	100
35) Carbon Tetrachloride	3.762	117	304293	9.479	ppbv	97
36) Benzene	3.655	78	435981	9.416	ppbv	98
37) 1,2-Dichloroethane	3.218	62	233305	9.581	ppbv	99
38) Trichloroethene	4.548	130	205431	8.927	ppbv	95
39) 1,2-Dichloropropane	4.312	63	160275	9.482	ppbv	95
40) 1,4-Dioxane	4.577	88	69659	8.863	ppbv #	95
41) Tetrahydrofuran	3.053	42	184258	9.277	ppbv	100
42) Bromodichloromethane	4.490	83	329680	9.721	ppbv	99
43) Methyl Methacrylate	4.878	69	172867	9.125	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	738876	9.239	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	188332	9.321	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	244367	9.490	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	165721	9.279	ppbv	97
48) Dibromochloromethane	7.387	129	278090	9.732	ppbv	99
49) Bromoform	9.484	173	238337	9.589	ppbv	99
50) 4-Methyl-2-Pentanone	5.746	43	435845	9.411	ppbv	99
51) 2-Hexanone	7.435	43	352962	9.561	ppbv	100
52) Tetrachloroethene	8.225	164	155469	8.678	ppbv	98
53) Toluene	6.933	91	509968	9.306	ppbv	99
54) 1,2-Dibromoethane	7.652	107	237604	9.452	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	205811	9.536	ppbv	99
57) Chlorobenzene	8.924	112	379110	9.209	ppbv	99
58) Ethyl Benzene	9.354	91	698086	9.428	ppbv	100
59) m/p-Xylene	9.552	91	1092496m	18.715	ppbv	
60) o-Xylene	9.966	91	538861	9.236	ppbv	99
61) Styrene	9.872	104	264257	9.575	ppbv	99
62) Isopropylbenzene	10.539	105	802723	9.230	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	272416	8.883	ppbv	100
64) n-propylbenzene	10.989	120	214374	9.433	ppbv	99
65) tert-Butylbenzene	11.533	119	711319	9.196	ppbv	99
66) Benzyl Chloride	11.617	91	71896	8.858	ppbv	99
67) sec-Butylbenzene	11.769	105	995407	9.235	ppbv	99
69) p-Isopropyltoluene	11.928	119	848196	9.316	ppbv	99
70) n-Butylbenzene	12.280	91	834882	9.392	ppbv	100
71) 2-Chlorotoluene	10.902	91	611697	9.315	ppbv	100
72) 4-Ethyltoluene	11.125	105	686229	9.391	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	567874	9.582	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	607159	9.277	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	380822	9.382	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	380109	9.429	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	359995	9.322	ppbv	100
78) Hexachloro-1,3-Butadiene	13.883	225	249142	8.248	ppbv	100
79) Naphthalene	13.514	128	590759	10.208	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	173023	9.678	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	304647	9.845	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	94	0.00
2 T	Dichlorodifluoromethane	1.345	1.238	8.0	93	0.00
3	Chlorodifluoromethane	1.676	1.544	7.9	92	0.00
4	Chloromethane	0.609	0.538	11.7	90	0.00
5 T	Vinyl Chloride	0.550	0.468	14.9	93	0.00
6 T	Bromomethane	0.194	0.166	14.4	94	0.00
7	Chloroethane	0.214	0.190	11.2	91	0.00
8 T	Dichlorotetrafluoroethane	1.148	1.028	10.5	92	0.00
9 T	Propene	0.729	0.662	9.2	91	0.00
10 T	Heptane	1.946	1.779	8.6	89	0.01
11 T	Trichlorofluoromethane	1.297	1.188	8.4	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.050	0.947	9.8	92	0.00
13	Ethanol	0.071	0.041#	42.3#	73	0.00
14 T	Bromoethene	0.397	0.349	12.1	90	0.00
15 T	Acetone	1.302	0.984	24.4	93	0.00
16 T	1,3-Butadiene	0.614	0.506	17.6	91	0.00
17	tert-Butyl alcohol	1.429	1.292	9.6	89	0.00
18 T	1,1-Dichloroethene	0.486	0.433	10.9	91	0.00
19 T	Isopropyl Alcohol	0.783	0.677	13.5	88	0.00
20 T	Methylene Chloride	0.545	0.386	29.2	93	0.00
21 T	Allyl Chloride	0.907	0.831	8.4	91	0.00
22 T	trans-1,2-Dichloroethene	0.552	0.489	11.4	90	0.00
23 T	Vinyl Acetate	1.861	1.754	5.7	103	0.00
24 T	1,1-Dichloroethane	1.083	0.975	10.0	92	0.00
25 T	Ethyl Acetate	3.292	3.047	7.4	90	0.00
26 T	Hexane	1.501	1.354	9.8	91	0.00
27 T	Carbon Disulfide	1.346	1.228	8.8	90	0.00
28 T	Methyl tert-Butyl Ether	0.780	0.761	2.4	112	0.00
29 T	Chloroform	1.962	1.880	4.2	95	0.00
30 T	Cyclohexane	1.255	1.165	7.2	91	0.00
31 T	cis-1,2-Dichloroethene	1.406	1.335	5.0	92	0.00
32 T	1,1,1-Trichloroethane	2.119	1.922	9.3	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
34 T	2-Butanone	0.701	0.636	9.3	91	0.00
35 T	Carbon Tetrachloride	0.651	0.617	5.2	95	0.00
36 T	Benzene	0.939	0.884	5.9	92	0.00
37 T	1,2-Dichloroethane	0.494	0.473	4.3	94	0.00
38 T	Trichloroethene	0.467	0.417	10.7	91	0.00
39 T	1,2-Dichloropropane	0.343	0.325	5.2	93	0.00
40 T	1,4-Dioxane	0.159	0.141	11.3	89	0.00
41 T	Tetrahydrofuran	0.403	0.374	7.2	90	0.00
42 T	Bromodichloromethane	0.688	0.669	2.8	92	0.00
43	Methyl Methacrylate	0.384	0.351	8.6	89	0.00
44 T	2,2,4-Trimethylpentane	1.622	1.499	7.6	90	0.00
45 T	t-1,3-Dichloropropene	0.410	0.382	6.8	88	0.00
46 T	cis-1,3-Dichloropropene	0.522	0.496	5.0	89	0.01
47 T	1,1,2-Trichloroethane	0.362	0.336	7.2	91	0.00
48 T	Dibromochloromethane	0.580	0.564	2.8	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	0.504	0.483	4.2	89	0.00
50 T	4-Methyl-2-Pentanone	0.939	0.884	5.9	89	0.00
51 T	2-Hexanone	0.749	0.716	4.4	89	0.00
52 T	Tetrachloroethene	0.363	0.315	13.2	91	0.00
53 T	Toluene	1.111	1.034	6.9	90	0.00
54 T	1,2-Dibromoethane	0.510	0.482	5.5	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.479	0.456	4.8	92	0.00
57 T	Chlorobenzene	0.913	0.841	7.9	91	0.00
58 T	Ethyl Benzene	1.642	1.548	5.7	91	0.00
59 T	m/p-Xylene	1.295	1.211	6.5	92	0.03
60 T	o-Xylene	1.294	1.195	7.7	91	0.00
61 T	Styrene	0.612	0.586	4.2	90	0.00
62	Isopropylbenzene	1.929	1.780	7.7	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.680	0.604	11.2	92	0.00
64	n-propylbenzene	0.504	0.475	5.8	93	0.00
65	tert-Butylbenzene	1.715	1.577	8.0	94	0.00
66 T	Benzyl Chloride	0.180	0.159	11.7	76	0.00
67	sec-Butylbenzene	2.390	2.207	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	0.746	0.750	-0.5	91	0.00
69	p-Isopropyltoluene	2.019	1.881	6.8	94	0.00
70	n-Butylbenzene	1.971	1.851	6.1	91	0.00
71	2-Chlorotoluene	1.456	1.357	6.8	92	0.00
72 T	4-Ethyltoluene	1.621	1.522	6.1	93	0.00
73 T	1,3,5-Trimethylbenzene	1.314	1.259	4.2	92	0.00
74 T	1,2,4-Trimethylbenzene	1.451	1.346	7.2	92	0.00
75 T	1,3-Dichlorobenzene	0.900	0.845	6.1	93	0.00
76 T	1,4-Dichlorobenzene	0.894	0.843	5.7	92	0.00
77 T	1,2-Dichlorobenzene	0.856	0.798	6.8	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.670	0.553	17.5	89	0.00
79 T	Naphthalene	1.283	1.310	-2.1	88	0.00
80 T	Naphthalene,2-methyl-	0.396	0.384	3.0	88	0.00
81 T	1,2,4-Trichlorobenzene	0.686	0.676	1.5	87	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	94	0.00
2 T	Dichlorodifluoromethane	10.000	9.204	8.0	93	0.00
3	Chlorodifluoromethane	10.000	9.213	7.9	92	0.00
4	Chloromethane	10.000	8.831	11.7	90	0.00
5 T	Vinyl Chloride	10.000	8.506	14.9	93	0.00
6 T	Bromomethane	10.000	8.529	14.7	94	0.00
7	Chloroethane	10.000	8.894	11.1	91	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.951	10.5	92	0.00
9 T	Propene	10.000	9.079	9.2	91	0.00
10 T	Heptane	10.000	9.141	8.6	89	0.01
11 T	Trichlorofluoromethane	10.000	9.157	8.4	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.020	9.8	92	0.00
13	Ethanol	10.000	5.842	41.6#	73	0.00
14 T	Bromoethene	10.000	8.785	12.1	90	0.00
15 T	Acetone	10.000	7.557	24.4	93	0.00
16 T	1,3-Butadiene	10.000	8.234	17.7	91	0.00
17	tert-Butyl alcohol	10.000	9.043	9.6	89	0.00
18 T	1,1-Dichloroethene	10.000	8.904	11.0	91	0.00
19 T	Isopropyl Alcohol	10.000	8.644	13.6	88	0.00
20 T	Methylene Chloride	10.000	9.945	0.5	93	0.00
21 T	Allyl Chloride	10.000	9.166	8.3	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.845	11.5	90	0.00
23 T	Vinyl Acetate	10.000	9.427	5.7	103	0.00
24 T	1,1-Dichloroethane	10.000	9.003	10.0	92	0.00
25 T	Ethyl Acetate	10.000	9.256	7.4	90	0.00
26 T	Hexane	10.000	9.026	9.7	91	0.00
27 T	Carbon Disulfide	10.000	9.121	8.8	90	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.752	2.5	112	0.00
29 T	Chloroform	10.000	9.583	4.2	95	0.00
30 T	Cyclohexane	10.000	9.286	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.497	5.0	92	0.00
32 T	1,1,1-Trichloroethane	10.000	9.071	9.3	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.00
34 T	2-Butanone	10.000	9.081	9.2	91	0.00
35 T	Carbon Tetrachloride	10.000	9.479	5.2	95	0.00
36 T	Benzene	10.000	9.416	5.8	92	0.00
37 T	1,2-Dichloroethane	10.000	9.581	4.2	94	0.00
38 T	Trichloroethene	10.000	8.927	10.7	91	0.00
39 T	1,2-Dichloropropane	10.000	9.482	5.2	93	0.00
40 T	1,4-Dioxane	10.000	8.863	11.4	89	0.00
41 T	Tetrahydrofuran	10.000	9.277	7.2	90	0.00
42 T	Bromodichloromethane	10.000	9.721	2.8	92	0.00
43	Methyl Methacrylate	10.000	9.125	8.8	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.239	7.6	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.321	6.8	88	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.490	5.1	89	0.01
47 T	1,1,2-Trichloroethane	10.000	9.279	7.2	91	0.00
48 T	Dibromochloromethane	10.000	9.732	2.7	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	9.589	4.1	89	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.411	5.9	89	0.00
51 T	2-Hexanone	10.000	9.561	4.4	89	0.00
52 T	Tetrachloroethene	10.000	8.678	13.2	91	0.00
53 T	Toluene	10.000	9.306	6.9	90	0.00
54 T	1,2-Dibromoethane	10.000	9.452	5.5	92	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.536	4.6	92	0.00
57 T	Chlorobenzene	10.000	9.209	7.9	91	0.00
58 T	Ethyl Benzene	10.000	9.428	5.7	91	0.00
59 T	m/p-Xylene	20.000	18.715	6.4	92	0.03
60 T	o-Xylene	10.000	9.236	7.6	91	0.00
61 T	Styrene	10.000	9.575	4.3	90	0.00
62	Isopropylbenzene	10.000	9.230	7.7	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.883	11.2	92	0.00
64	n-propylbenzene	10.000	9.433	5.7	93	0.00
65	tert-Butylbenzene	10.000	9.196	8.0	94	0.00
66 T	Benzyl Chloride	10.000	8.858	11.4	76	0.00
67	sec-Butylbenzene	10.000	9.235	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.043	-0.4	91	0.00
69	p-Isopropyltoluene	10.000	9.316	6.8	94	0.00
70	n-Butylbenzene	10.000	9.392	6.1	91	0.00
71	2-Chlorotoluene	10.000	9.315	6.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.391	6.1	93	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.582	4.2	92	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.277	7.2	92	0.00
75 T	1,3-Dichlorobenzene	10.000	9.382	6.2	93	0.00
76 T	1,4-Dichlorobenzene	10.000	9.429	5.7	92	0.00
77 T	1,2-Dichlorobenzene	10.000	9.322	6.8	93	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.248	17.5	89	0.00
79 T	Naphthalene	10.000	10.208	-2.1	88	0.00
80 T	Naphthalene,2-methyl-	10.000	9.678	3.2	88	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.845	1.5	87	0.00

(#) = Out of Range

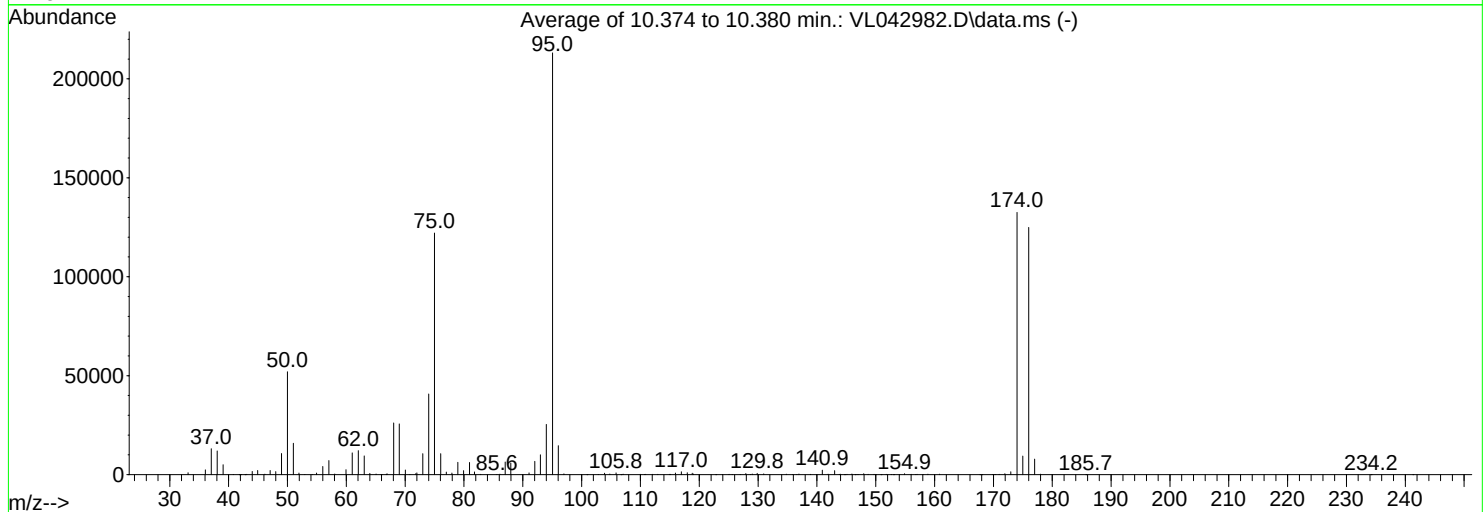
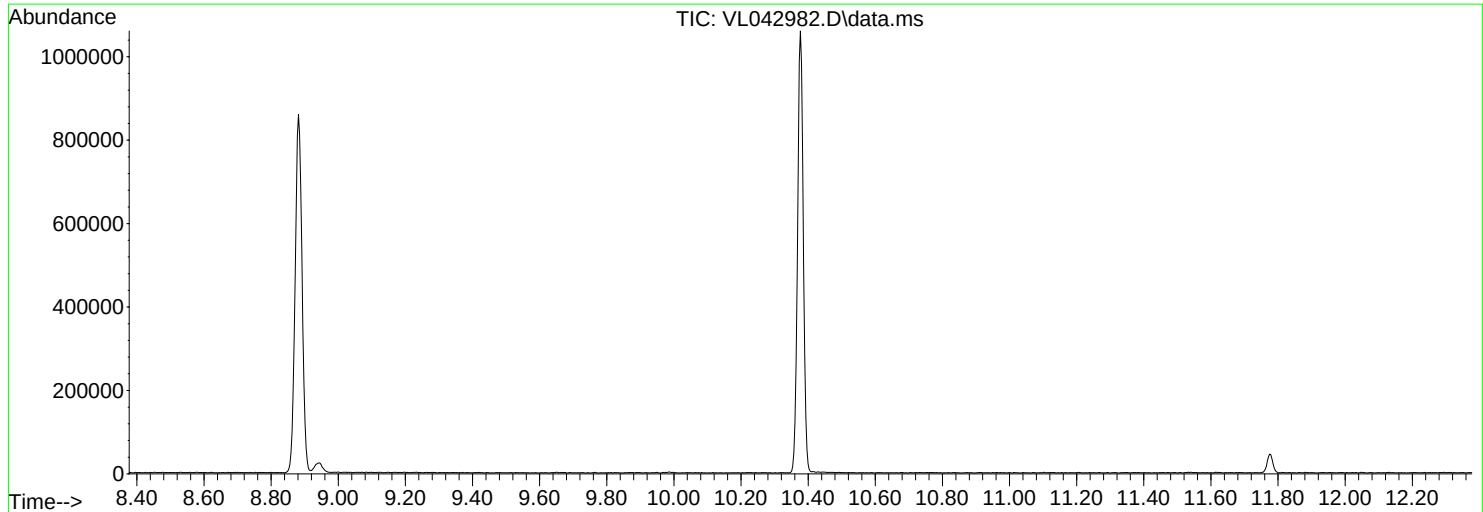
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042982.D
Acq On : 23 Sep 2025 08:30
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\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025



AutoFind: Scans 3178, 3179, 3180; 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	24.4	52027	PASS
75	95	30	66	57.3	122083	PASS
95	95	100	100	100.0	213141	PASS
96	95	5	9	6.9	14633	PASS
173	174	0.00	2	1.1	1487	PASS
174	95	50	120	62.2	132544	PASS
175	174	4	9	7.1	9369	PASS
176	174	93	101	94.3	124939	PASS
177	176	5	9	6.3	7833	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/24/2025
 Supervised By : Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:04:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	140159	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	397606	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	356928	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 285330 10.709 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	187032	9.921	ppbv	95
3) Chlorodifluoromethane	1.479	51	226561	9.643	ppbv	97
4) Chloromethane	1.534	50	78049	9.147	ppbv	99
5) Vinyl Chloride	1.583	62	67278	8.722	ppbv	100
6) Bromomethane	1.670	94	24422	8.975	ppbv	96
7) Chloroethane	1.709	64	26802	8.948	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	151817	9.434	ppbv	100
9) Propene	1.486	41	83019	8.122	ppbv	96
10) Heptane	4.991	43	242117	8.876	ppbv	99
11) Trichlorofluoromethane	1.881	101	185063	10.181	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	144385	9.809	ppbv	99
13) Ethanol	1.725	45	6504	6.559	ppbv	96
14) Bromoethene	1.787	108	51728	9.295	ppbv	98
15) Acetone	1.839	43	146605	8.031	ppbv	98
16) 1,3-Butadiene	1.612	39	74090	8.604	ppbv	97
17) tert-Butyl alcohol	2.043	59	167840	8.383	ppbv	100
18) 1,1-Dichloroethene	2.039	96	63829	9.368	ppbv	99
19) Isopropyl Alcohol	1.890	45	94735	8.633	ppbv	95
20) Methylene Chloride	2.065	84	55766	10.264	ppbv	96
21) Allyl Chloride	2.101	41	117413	9.235	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	71690	9.260	ppbv	97
23) Vinyl Acetate	2.467	43	230988	8.857	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	145685	9.596	ppbv	99
25) Ethyl Acetate	2.839	43	423103	9.170	ppbv	99
26) Hexane	2.832	57	188410	8.959	ppbv	98
27) Carbon Disulfide	2.156	76	170121	9.019	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	91757	8.393	ppbv	95
29) Chloroform	2.855	83	281560	10.239	ppbv	99
30) Cyclohexane	3.862	84	158650	9.022	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	188239	9.555	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	274087	9.228	ppbv	99
34) 2-Butanone	2.560	43	279284	10.023	ppbv	99
35) Carbon Tetrachloride	3.771	117	279346	10.791	ppbv	98
36) Benzene	3.664	78	373905	10.014	ppbv	99
37) 1,2-Dichloroethane	3.224	62	224338	11.424	ppbv	97
38) Trichloroethene	4.557	130	174937	9.427	ppbv	92
39) 1,2-Dichloropropane	4.324	63	138847	10.186	ppbv	87
40) 1,4-Dioxane	4.587	88	58847	9.285	ppbv #	97
41) Tetrahydrofuran	3.059	42	152129	9.498	ppbv	100
42) Bromodichloromethane	4.499	83	297856	10.891	ppbv	97
43) Methyl Methacrylate	4.891	69	143508	9.394	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	637574	9.887	ppbv	97
45) t-1,3-Dichloropropene	6.428	75	149384	9.169	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025
 Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:04:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	197209	9.498	ppbv	96
47) 1,1,2-Trichloroethane	6.590	97	146175	10.149	ppbv	97
48) Dibromochloromethane	7.396	129	241948	10.500	ppbv	99
49) Bromoform	9.490	173	201373	10.047	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	371641	9.951	ppbv	99
51) 2-Hexanone	7.444	43	299396	10.057	ppbv #	97
52) Tetrachloroethene	8.231	164	130498	9.033	ppbv	97
53) Toluene	6.943	91	424755	9.612	ppbv	100
54) 1,2-Dibromoethane	7.661	107	210744	10.396	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.933	131	181159	10.604	ppbv	98
57) Chlorobenzene	8.930	112	332694	10.210	ppbv	99
58) Ethyl Benzene	9.364	91	602544	10.281	ppbv	98
59) m/p-Xylene	9.558	91	964478m	20.873	ppbv	
60) o-Xylene	9.972	91	484224	10.485	ppbv	99
61) Styrene	9.878	104	212504	9.728	ppbv	97
62) Isopropylbenzene	10.545	105	703444	10.219	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	246998	10.175	ppbv	100
64) n-propylbenzene	10.995	120	181920	10.113	ppbv	94
65) tert-Butylbenzene	11.536	119	612510	10.004	ppbv	97
66) Benzyl Chloride	11.623	91	38429	5.982	ppbv	98
67) sec-Butylbenzene	11.772	105	877873	10.290	ppbv	98
69) p-Isopropyltoluene	11.930	119	733573	10.179	ppbv	98
70) n-Butylbenzene	12.286	91	744721	10.584	ppbv	99
71) 2-Chlorotoluene	10.908	91	531933	10.234	ppbv	98
72) 4-Ethyltoluene	11.131	105	592733	10.248	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	491234	10.472	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	545008	10.521	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	327787	10.203	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	328439	10.293	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	313228	10.247	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	214126	8.956	ppbv	99
79) Naphthalene	13.516	128	503948	11.001	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	125827	8.892	ppbv	95
81) 1,2,4-Trichlorobenzene	13.445	180	261685	10.684	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	82	0.00
2 T	Dichlorodifluoromethane	1.345	1.334	0.8	88	0.00
3	Chlorodifluoromethane	1.676	1.616	3.6	84	0.00
4	Chloromethane	0.609	0.557	8.5	82	0.00
5 T	Vinyl Chloride	0.550	0.480	12.7	84	0.00
6 T	Bromomethane	0.194	0.174	10.3	86	0.00
7	Chloroethane	0.214	0.191	10.7	80	0.00
8 T	Dichlorotetrafluoroethane	1.148	1.083	5.7	85	0.00
9 T	Propene	0.729	0.592	18.8	71	0.00
10 T	Heptane	1.946	1.727	11.3	76	0.02
11 T	Trichlorofluoromethane	1.297	1.320	-1.8	90	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.050	1.030	1.9	88	0.00
13	Ethanol	0.071	0.046#	35.2#	72	0.00
14 T	Bromoethene	0.397	0.369	7.1	84	0.00
15 T	Acetone	1.302	1.046	19.7	86	0.00
16 T	1,3-Butadiene	0.614	0.529	13.8	83	0.00
17	tert-Butyl alcohol	1.429	1.197	16.2	73	0.00
18 T	1,1-Dichloroethene	0.486	0.455	6.4	84	0.00
19 T	Isopropyl Alcohol	0.783	0.676	13.7	77	0.00
20 T	Methylene Chloride	0.545	0.398	27.0	84	0.00
21 T	Allyl Chloride	0.907	0.838	7.6	80	0.00
22 T	trans-1,2-Dichloroethene	0.552	0.511	7.4	83	0.00
23 T	Vinyl Acetate	1.861	1.648	11.4	85	0.00
24 T	1,1-Dichloroethane	1.083	1.039	4.1	86	0.00
25 T	Ethyl Acetate	3.292	3.019	8.3	79	0.00
26 T	Hexane	1.501	1.344	10.5	79	0.00
27 T	Carbon Disulfide	1.346	1.214	9.8	78	0.00
28 T	Methyl tert-Butyl Ether	0.780	0.655	16.0	84	0.00
29 T	Chloroform	1.962	2.009	-2.4	89	0.00
30 T	Cyclohexane	1.255	1.132	9.8	78	0.00
31 T	cis-1,2-Dichloroethene	1.406	1.343	4.5	81	0.00
32 T	1,1,1-Trichloroethane	2.119	1.956	7.7	84	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	75	0.01
34 T	2-Butanone	0.701	0.702	-0.1	81	0.00
35 T	Carbon Tetrachloride	0.651	0.703	-8.0	87	0.02
36 T	Benzene	0.939	0.940	-0.1	79	0.01
37 T	1,2-Dichloroethane	0.494	0.564	-14.2	91	0.00
38 T	Trichloroethene	0.467	0.440	5.8	78	0.02
39 T	1,2-Dichloropropane	0.343	0.349	-1.7	81	0.02
40 T	1,4-Dioxane	0.159	0.148	6.9	76	0.02
41 T	Tetrahydrofuran	0.403	0.383	5.0	74	0.01
42 T	Bromodichloromethane	0.688	0.749	-8.9	83	0.02
43	Methyl Methacrylate	0.384	0.361	6.0	74	0.02
44 T	2,2,4-Trimethylpentane	1.622	1.604	1.1	77	0.02
45 T	t-1,3-Dichloropropene	0.410	0.376	8.3	69	0.02
46 T	cis-1,3-Dichloropropene	0.522	0.496	5.0	72	0.02
47 T	1,1,2-Trichloroethane	0.362	0.368	-1.7	81	0.02
48 T	Dibromochloromethane	0.580	0.609	-5.0	81	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	0.504	0.506	-0.4	75	0.00
50 T	4-Methyl-2-Pentanone	0.939	0.935	0.4	76	0.02
51 T	2-Hexanone	0.749	0.753	-0.5	76	0.02
52 T	Tetrachloroethene	0.363	0.328	9.6	76	0.01
53 T	Toluene	1.111	1.068	3.9	75	0.02
54 T	1,2-Dibromoethane	0.510	0.530	-3.9	82	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	73	0.01
56	1,1,1,2-Tetrachloroethane	0.479	0.508	-6.1	81	0.01
57 T	Chlorobenzene	0.913	0.932	-2.1	80	0.01
58 T	Ethyl Benzene	1.642	1.688	-2.8	79	0.02
59 T	m/p-Xylene	1.295	1.351	-4.3	81	0.03
60 T	o-Xylene	1.294	1.357	-4.9	81	0.01
61 T	Styrene	0.612	0.595	2.8	72	0.01
62	Isopropylbenzene	1.929	1.971	-2.2	80	0.00
63 T	1,1,2,2-Tetrachloroethane	0.680	0.692	-1.8	83	0.01
64	n-propylbenzene	0.504	0.510	-1.2	79	0.00
65	tert-Butylbenzene	1.715	1.716	-0.1	81	0.00
66 T	Benzyl Chloride	0.180	0.108	40.0#	40	0.01
67	sec-Butylbenzene	2.390	2.460	-2.9	82	0.00
68 S	1-Bromo-4-Fluorobenzene	0.746	0.799	-7.1	77	0.01
69	p-Isopropyltoluene	2.019	2.055	-1.8	81	0.00
70	n-Butylbenzene	1.971	2.086	-5.8	81	0.00
71	2-Chlorotoluene	1.456	1.490	-2.3	80	0.01
72 T	4-Ethyltoluene	1.621	1.661	-2.5	80	0.00
73 T	1,3,5-Trimethylbenzene	1.314	1.376	-4.7	80	0.00
74 T	1,2,4-Trimethylbenzene	1.451	1.527	-5.2	83	0.00
75 T	1,3-Dichlorobenzene	0.900	0.918	-2.0	80	0.00
76 T	1,4-Dichlorobenzene	0.894	0.920	-2.9	80	0.00
77 T	1,2-Dichlorobenzene	0.856	0.878	-2.6	81	0.00
78 T	Hexachloro-1,3-Butadiene	0.670	0.600	10.4	76	0.00
79 T	Naphthalene	1.283	1.412	-10.1	75	0.00
80 T	Naphthalene,2-methyl-	0.396	0.353	10.9	64	0.00
81 T	1,2,4-Trichlorobenzene	0.686	0.733	-6.9	75	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	82	0.00
2 T	Dichlorodifluoromethane	10.000	9.921	0.8	88	0.00
3	Chlorodifluoromethane	10.000	9.643	3.6	84	0.00
4	Chloromethane	10.000	9.147	8.5	82	0.00
5 T	Vinyl Chloride	10.000	8.722	12.8	84	0.00
6 T	Bromomethane	10.000	8.975	10.3	86	0.00
7	Chloroethane	10.000	8.948	10.5	80	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.434	5.7	85	0.00
9 T	Propene	10.000	8.122	18.8	71	0.00
10 T	Heptane	10.000	8.876	11.2	76	0.02
11 T	Trichlorofluoromethane	10.000	10.181	-1.8	90	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.809	1.9	88	0.00
13	Ethanol	10.000	6.559	34.4#	72	0.00
14 T	Bromoethene	10.000	9.295	7.1	84	0.00
15 T	Acetone	10.000	8.031	19.7	86	0.00
16 T	1,3-Butadiene	10.000	8.604	14.0	83	0.00
17	tert-Butyl alcohol	10.000	8.383	16.2	73	0.00
18 T	1,1-Dichloroethene	10.000	9.368	6.3	84	0.00
19 T	Isopropyl Alcohol	10.000	8.633	13.7	77	0.00
20 T	Methylene Chloride	10.000	10.264	-2.6	84	0.00
21 T	Allyl Chloride	10.000	9.235	7.7	80	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.260	7.4	83	0.00
23 T	Vinyl Acetate	10.000	8.857	11.4	85	0.00
24 T	1,1-Dichloroethane	10.000	9.596	4.0	86	0.00
25 T	Ethyl Acetate	10.000	9.170	8.3	79	0.00
26 T	Hexane	10.000	8.959	10.4	79	0.00
27 T	Carbon Disulfide	10.000	9.019	9.8	78	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.393	16.1	84	0.00
29 T	Chloroform	10.000	10.239	-2.4	89	0.00
30 T	Cyclohexane	10.000	9.022	9.8	78	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.555	4.5	81	0.00
32 T	1,1,1-Trichloroethane	10.000	9.228	7.7	84	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	75	0.01
34 T	2-Butanone	10.000	10.023	-0.2	81	0.00
35 T	Carbon Tetrachloride	10.000	10.791	-7.9	87	0.02
36 T	Benzene	10.000	10.014	-0.1	79	0.01
37 T	1,2-Dichloroethane	10.000	11.424	-14.2	91	0.00
38 T	Trichloroethene	10.000	9.427	5.7	78	0.02
39 T	1,2-Dichloropropane	10.000	10.186	-1.9	81	0.02
40 T	1,4-Dioxane	10.000	9.285	7.1	76	0.02
41 T	Tetrahydrofuran	10.000	9.498	5.0	74	0.01
42 T	Bromodichloromethane	10.000	10.891	-8.9	83	0.02
43	Methyl Methacrylate	10.000	9.394	6.1	74	0.02
44 T	2,2,4-Trimethylpentane	10.000	9.887	1.1	77	0.02
45 T	t-1,3-Dichloropropene	10.000	9.169	8.3	69	0.02
46 T	cis-1,3-Dichloropropene	10.000	9.498	5.0	72	0.02
47 T	1,1,2-Trichloroethane	10.000	10.149	-1.5	81	0.02
48 T	Dibromochloromethane	10.000	10.500	-5.0	81	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	10.047	-0.5	75	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.951	0.5	76	0.02
51 T	2-Hexanone	10.000	10.057	-0.6	76	0.02
52 T	Tetrachloroethene	10.000	9.033	9.7	76	0.01
53 T	Toluene	10.000	9.612	3.9	75	0.02
54 T	1,2-Dibromoethane	10.000	10.396	-4.0	82	0.02
55 I	Chlorobenzene-d5	10.000	10.000	0.0	73	0.01
56	1,1,1,2-Tetrachloroethane	10.000	10.604	-6.0	81	0.01
57 T	Chlorobenzene	10.000	10.210	-2.1	80	0.01
58 T	Ethyl Benzene	10.000	10.281	-2.8	79	0.02
59 T	m/p-Xylene	20.000	20.873	-4.4	81	0.03
60 T	o-Xylene	10.000	10.485	-4.8	81	0.01
61 T	Styrene	10.000	9.728	2.7	72	0.01
62	Isopropylbenzene	10.000	10.219	-2.2	80	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.175	-1.8	83	0.01
64	n-propylbenzene	10.000	10.113	-1.1	79	0.00
65	tert-Butylbenzene	10.000	10.004	-0.0	81	0.00
66 T	Benzyl Chloride	10.000	5.982	40.2#	40	0.01
67	sec-Butylbenzene	10.000	10.290	-2.9	82	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.709	-7.1	77	0.01
69	p-Isopropyltoluene	10.000	10.179	-1.8	81	0.00
70	n-Butylbenzene	10.000	10.584	-5.8	81	0.00
71	2-Chlorotoluene	10.000	10.234	-2.3	80	0.01
72 T	4-Ethyltoluene	10.000	10.248	-2.5	80	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.472	-4.7	80	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.521	-5.2	83	0.00
75 T	1,3-Dichlorobenzene	10.000	10.203	-2.0	80	0.00
76 T	1,4-Dichlorobenzene	10.000	10.293	-2.9	80	0.00
77 T	1,2-Dichlorobenzene	10.000	10.247	-2.5	81	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.956	10.4	76	0.00
79 T	Naphthalene	10.000	11.001	-10.0	75	0.00
80 T	Naphthalene,2-methyl-	10.000	8.892	11.1	64	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.684	-6.8	75	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042984.D
 Acq On : 23 Sep 2025 10:01
 Operator : SY/MD
 Sample : VL0923ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	140749	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	395903	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	343517	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	271935	10.605	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.000%

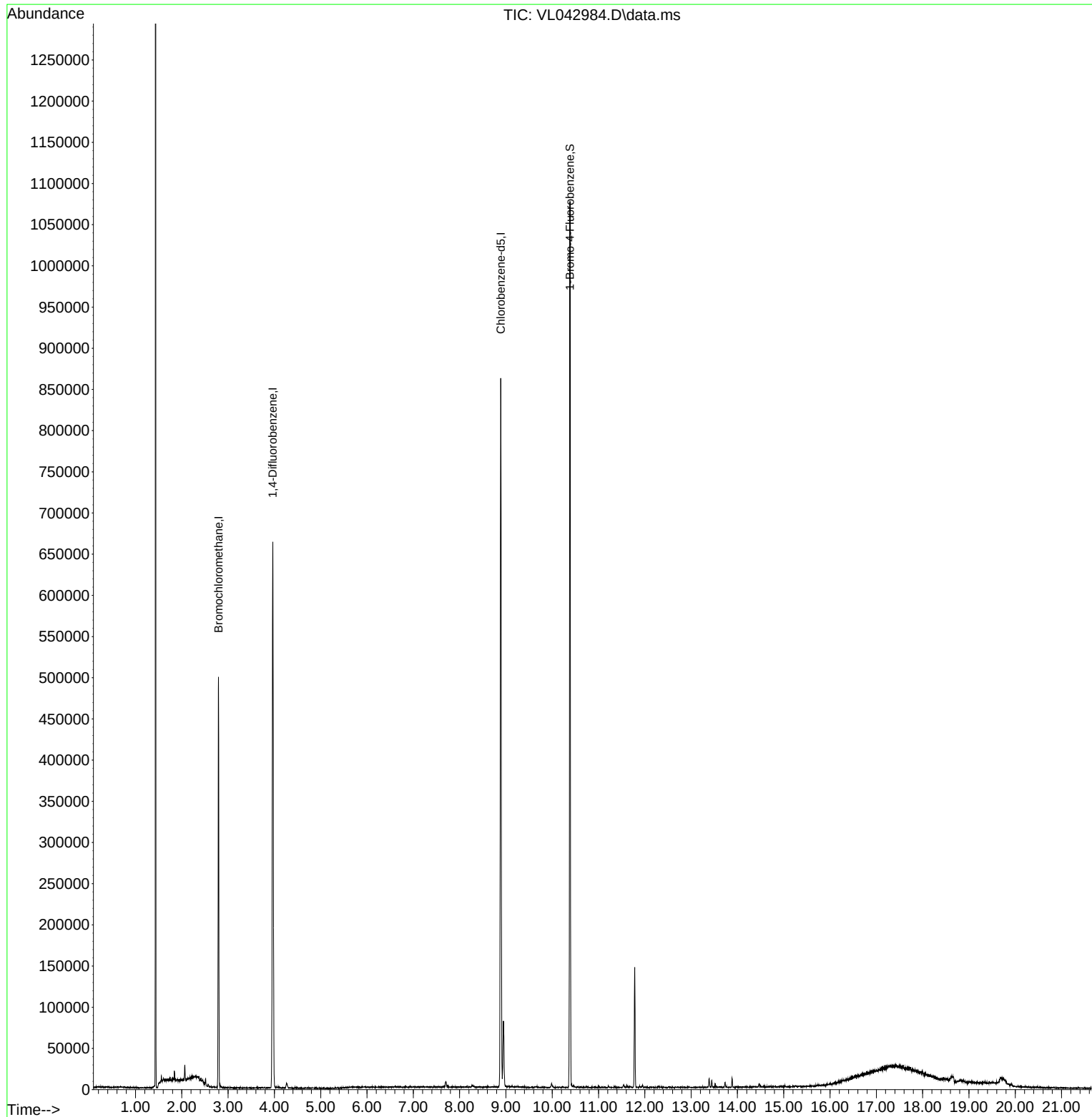
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042984.D
Acq On : 23 Sep 2025 10:01
Operator : SY/MD
Sample : VL0923ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042985.D
 Acq On : 23 Sep 2025 10:46
 Operator : SY/MD
 Sample : VL0923ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0923ABS01

Quant Time: Sep 24 02:05:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/24/2025
 Supervised By : Mahesh Dadoda 09/26/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	141345	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	400881	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	355060	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 285118 10.757 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	189707	9.979	ppbv	98
3) Chlorodifluoromethane	1.476	51	229022	9.665	ppbv	96
4) Chloromethane	1.534	50	80187	9.319	ppbv	99
5) Vinyl Chloride	1.580	62	68503	8.806	ppbv	98
6) Bromomethane	1.667	94	24823	9.046	ppbv	97
7) Chloroethane	1.706	64	27737	9.182	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	155561	9.585	ppbv	99
9) Propene	1.482	41	83859	8.135	ppbv	96
10) Heptane	4.981	43	244830	8.900	ppbv	99
11) Trichlorofluoromethane	1.877	101	187304	10.218	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	145246	9.785	ppbv	100
13) Ethanol	1.722	45	6053	6.053	ppbv	93
14) Bromoethene	1.783	108	52420	9.341	ppbv	99
15) Acetone	1.835	43	151197	8.213	ppbv	95
16) 1,3-Butadiene	1.609	39	75511	8.696	ppbv	95
17) tert-Butyl alcohol	2.039	59	167211	8.281	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65099	9.475	ppbv	98
19) Isopropyl Alcohol	1.887	45	91978	8.311	ppbv	95
20) Methylene Chloride	2.062	84	56301	10.276	ppbv	99
21) Allyl Chloride	2.097	41	119358	9.310	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	74438	9.534	ppbv	97
23) Vinyl Acetate	2.463	43	213995	8.137	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	146400	9.562	ppbv	98
25) Ethyl Acetate	2.835	43	424873	9.132	ppbv	99
26) Hexane	2.826	57	189786	8.948	ppbv	98
27) Carbon Disulfide	2.149	76	171644	9.023	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	84694	7.682	ppbv	95
29) Chloroform	2.848	83	283787	10.233	ppbv	99
30) Cyclohexane	3.855	84	158294	8.927	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	189377	9.532	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	273236	9.122	ppbv	98
34) 2-Butanone	2.557	43	277525	9.878	ppbv	100
35) Carbon Tetrachloride	3.764	117	284218	10.890	ppbv	99
36) Benzene	3.657	78	374729	9.954	ppbv	97
37) 1,2-Dichloroethane	3.217	62	225333	11.381	ppbv	97
38) Trichloroethene	4.548	130	175469	9.379	ppbv	95
39) 1,2-Dichloropropane	4.315	63	137775	10.025	ppbv	94
40) 1,4-Dioxane	4.577	88	56926	8.908	ppbv #	99
41) Tetrahydrofuran	3.052	42	153071	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	301564	10.937	ppbv	98
43) Methyl Methacrylate	4.878	69	143822	9.338	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	644168	9.907	ppbv	97
45) t-1,3-Dichloropropene	6.415	75	146403	8.913	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042985.D
 Acq On : 23 Sep 2025 10:46
 Operator : SY/MD
 Sample : VL0923ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0923ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025
 Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:05:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	199882	9.548	ppbv	98
47) 1,1,2-Trichloroethane	6.580	97	146862	10.114	ppbv	98
48) Dibromochloromethane	7.389	129	239646	10.315	ppbv	100
49) Bromoform	9.487	173	200469	9.920	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376317	9.994	ppbv	98
51) 2-Hexanone	7.438	43	296793	9.888	ppbv #	96
52) Tetrachloroethene	8.228	164	129889	8.917	ppbv	97
53) Toluene	6.933	91	429817	9.647	ppbv	100
54) 1,2-Dibromoethane	7.655	107	207545	10.155	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	178090	10.479	ppbv	99
57) Chlorobenzene	8.924	112	334709	10.326	ppbv	97
58) Ethyl Benzene	9.357	91	594235	10.192	ppbv	99
59) m/p-Xylene	9.551	91	960667m	20.900	ppbv	
60) o-Xylene	9.966	91	478503	10.416	ppbv	99
61) Styrene	9.872	104	213951	9.846	ppbv	99
62) Isopropylbenzene	10.542	105	701023	10.237	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.962	83	246097	10.192	ppbv	99
64) n-propylbenzene	10.992	120	182650	10.207	ppbv	96
65) tert-Butylbenzene	11.532	119	617982	10.146	ppbv	99
66) Benzyl Chloride	11.616	91	37909	5.932	ppbv	96
67) sec-Butylbenzene	11.769	105	870866	10.261	ppbv	98
69) p-Isopropyltoluene	11.927	119	731903	10.209	ppbv	98
70) n-Butylbenzene	12.283	91	755608	10.795	ppbv	98
71) 2-Chlorotoluene	10.901	91	536204	10.370	ppbv	97
72) 4-Ethyltoluene	11.124	105	591673	10.283	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	488186	10.461	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	537697	10.434	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	320019	10.013	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	325338	10.250	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	313262	10.302	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	213384	8.972	ppbv	99
79) Naphthalene	13.513	128	492107	10.799	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	129885	9.227	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	258061	10.592	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042989.D
Acq On : 23 Sep 2025 13:26
Operator : SY/MD
Sample : CAN 10747
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10747

Quant Time: Sep 24 02:07:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	149203	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	404080	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	359428	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	280412	10.451	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%

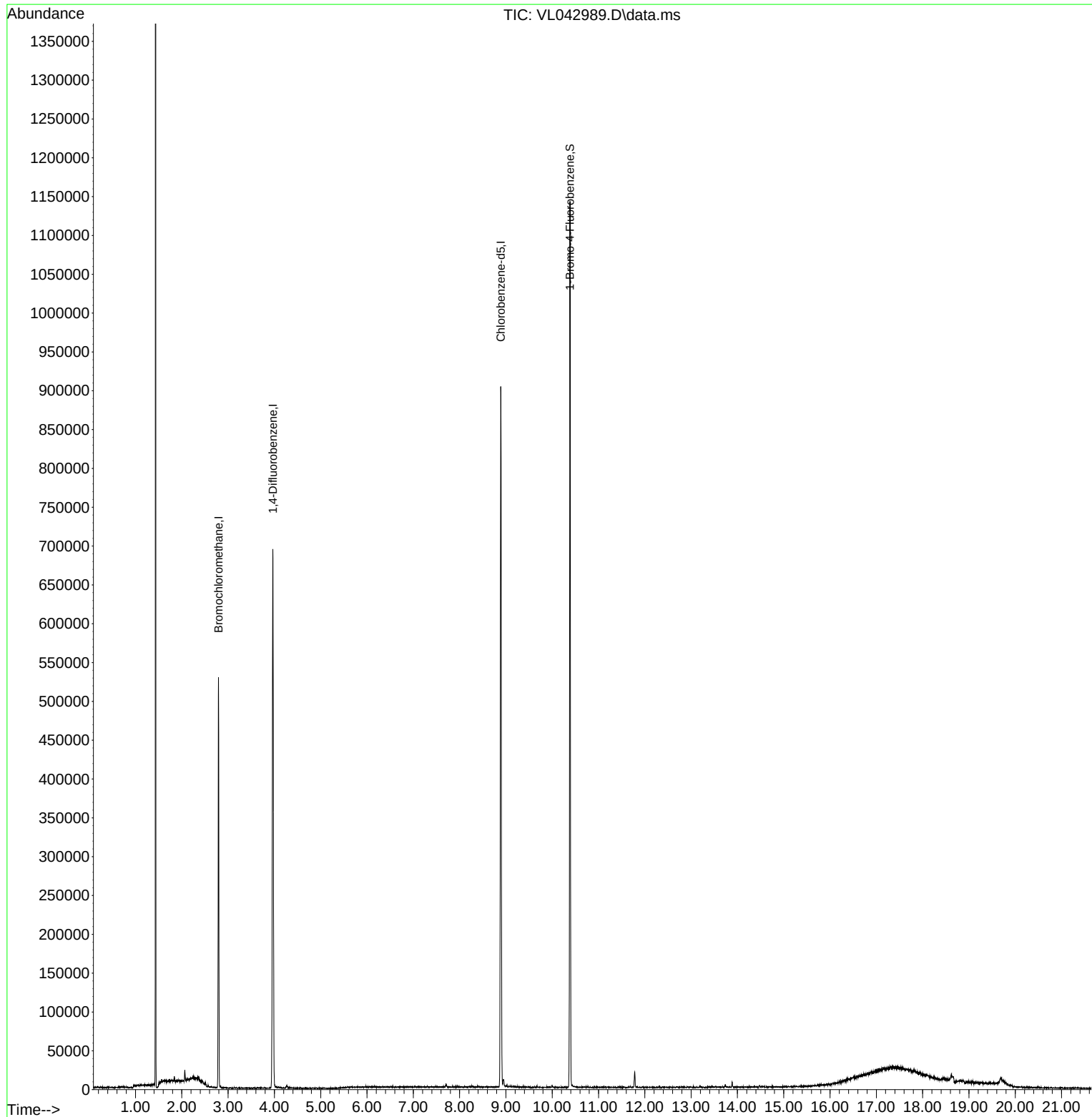
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042989.D
Acq On : 23 Sep 2025 13:26
Operator : SY/MD
Sample : CAN 10747
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10747

Quant Time: Sep 24 02:07:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



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 # VL091725

Review By	Semsettin Yesilyurt	Review On	9/18/2025 8:35:15 AM		
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:24:41 PM		
SubDirectory	VL091725	HP Acquire Method	TO15AIR	HP Processing Method	VL091725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2664				
Initial Calibration Stds	AP2666,AP2668,AP2669				
CCC	AP2666				
Internal Standard/PEM	AP2664				
ICV/I.BLK	AP2671				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042928.D	17 Sep 2025 07:51	SY/MD	Ok
2	VSTDICCC010	VL042929.D	17 Sep 2025 10:12	SY/MD	Not Ok
3	VSTDICCC002	VL042930.D	17 Sep 2025 10:48	SY/MD	Ok,M
4	VSTDICCC001	VL042931.D	17 Sep 2025 11:23	SY/MD	Ok,M
5	VSTDICCC0.5	VL042932.D	17 Sep 2025 11:58	SY/MD	Ok,M
6	VSTDICCC0.1	VL042933.D	17 Sep 2025 12:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042934.D	17 Sep 2025 13:07	SY/MD	Ok,M
8	VSTDICCC010	VL042935.D	17 Sep 2025 13:42	SY/MD	Ok,M
9	VSTDICCC015	VL042936.D	17 Sep 2025 14:17	SY/MD	Ok,M
10	VSTDICCV010	VL042937.D	17 Sep 2025 14:52	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL091825

Review By	Semsettin Yesilyurt	Review On	9/19/2025 9:39:49 AM		
Supervise By	Maresh Dadoda	Supervise On	9/24/2025 2:15:54 AM		
SubDirectory	VL091825	HP Acquire Method	TO15AIR	HP Processing Method	VL091725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2664			
Initial Calibration Stds		AP2666,AP2668,AP2669			
CCC		AP2666			
Internal Standard/PEM		AP2664			
ICV/I.BLK		AP2671			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042938.D	18 Sep 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042939.D	18 Sep 2025 09:38	SY/MD	Ok,M
3	VL0918ABL01	VL042940.D	18 Sep 2025 11:01	SY/MD	Ok
4	VL0918ABS01	VL042941.D	18 Sep 2025 11:37	SY/MD	Not Ok
5	QC091125 CAN 10060	VL042942.D	18 Sep 2025 12:14	SY/MD	Ok
6	VL0918ABS02	VL042943.D	18 Sep 2025 12:49	SY/MD	Ok,M
7	Q3111-02DL	VL042944.D	18 Sep 2025 14:01	SY/MD	Not Ok
8	Q3111-02	VL042945.D	18 Sep 2025 14:37	SY/MD	Dilution
9	Q3111-02DUP	VL042946.D	18 Sep 2025 15:13	SY/MD	Ok,M
10	Q3111-02DL	VL042947.D	18 Sep 2025 15:50	SY/MD	Ok,M
11	Q3111-01	VL042948.D	18 Sep 2025 16:30	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2676			
Initial Calibration Stds		AP2673,AP2674,AP2675			
CCC		AP2673			
Internal Standard/PEM		AP2676			
ICV/I.BLK		AP2671			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042949.D	22 Sep 2025 08:55	SY/MD	Ok
2	VSTDICCC010	VL042950.D	22 Sep 2025 09:39	SY/MD	Ok,M
3	VSTDICCC002	VL042951.D	22 Sep 2025 10:14	SY/MD	Ok,M
4	VSTDICCC001	VL042952.D	22 Sep 2025 10:48	SY/MD	Ok,M
5	VSTDICCC0.5	VL042953.D	22 Sep 2025 11:22	SY/MD	Ok,M
6	VSTDICCC0.1	VL042954.D	22 Sep 2025 11:56	SY/MD	Ok,M
7	VSTDICCC0.03	VL042955.D	22 Sep 2025 12:30	SY/MD	Ok,M
8	VSTDICCC015	VL042956.D	22 Sep 2025 13:05	SY/MD	Ok,M
9	VSTDICV010	VL042957.D	22 Sep 2025 14:15	SY/MD	Ok,M
10	VL0922ABL01	VL042958.D	22 Sep 2025 15:06	SY/MD	Ok
11	VL0922ABS01	VL042959.D	22 Sep 2025 15:52	SY/MD	Ok,M
12	Q3111-01	VL042960.D	22 Sep 2025 16:53	SY/MD	Dilution
13	Q3111-01DL	VL042961.D	22 Sep 2025 17:28	SY/MD	Ok,M
14	Q3112-01	VL042962.D	22 Sep 2025 18:04	SY/MD	Ok,M
15	Q3112-01DL	VL042963.D	22 Sep 2025 18:39	SY/MD	Not Ok
16	Q3112-02	VL042964.D	22 Sep 2025 19:14	SY/MD	Dilution
17	Q3112-02DL	VL042965.D	22 Sep 2025 19:49	SY/MD	Ok
18	Q3112-03	VL042966.D	22 Sep 2025 20:24	SY/MD	Ok,M
19	Q3112-03DL	VL042967.D	22 Sep 2025 20:59	SY/MD	Not Ok
20	VIBLK	VL042968.D	22 Sep 2025 21:35	SY/MD	Ok
21	Q3130-02	VL042969.D	22 Sep 2025 22:11	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Maresh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2676				
Initial Calibration Stds	AP2673,AP2674,AP2675				
CCC	AP2673				
Internal Standard/PEM	AP2676				
ICV/I.BLK	AP2671				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3130-02DUP	VL042970.D	22 Sep 2025 22:48	SY/MD	Ok,M
23	Q3130-02DL	VL042971.D	22 Sep 2025 23:23	SY/MD	Not Ok
24	Q3130-01	VL042972.D	23 Sep 2025 00:00	SY/MD	Ok,M
25	Q3130-01DL	VL042973.D	23 Sep 2025 00:35	SY/MD	Not Ok
26	Q3131-01	VL042974.D	23 Sep 2025 01:11	SY/MD	Dilution
27	Q3131-01DL	VL042975.D	23 Sep 2025 01:46	SY/MD	Ok,M
28	Q3131-02	VL042976.D	23 Sep 2025 02:22	SY/MD	Dilution
29	Q3131-02DL	VL042977.D	23 Sep 2025 02:57	SY/MD	Ok,M
30	Q3132-01	VL042978.D	23 Sep 2025 03:33	SY/MD	Dilution
31	Q3132-01DL	VL042979.D	23 Sep 2025 04:08	SY/MD	Ok,M
32	Q3132-02	VL042980.D	23 Sep 2025 04:44	SY/MD	Ok,M
33	Q3132-02DL	VL042981.D	23 Sep 2025 05:19	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092325

Review By	Semsettin Yesilyurt	Review On	9/24/2025 9:13:51 AM
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:40:16 AM
SubDirectory	VL092325	HP Acquire Method	TO15AIR
		HP Processing Method	VL092225AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2676		
Initial Calibration Stds	AP2673,AP2674,AP2675		
CCC	AP2673		
Internal Standard/PEM	AP2676		
ICV/I.BLK	AP2671		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042982.D	23 Sep 2025 08:30	SY/MD	Ok
2	VSTDCCC010	VL042983.D	23 Sep 2025 09:14	SY/MD	Ok,M
3	VL0923ABL01	VL042984.D	23 Sep 2025 10:01	SY/MD	Ok
4	VL0923ABS01	VL042985.D	23 Sep 2025 10:46	SY/MD	Ok,M
5	CAN 10147	VL042986.D	23 Sep 2025 11:40	SY/MD	Ok
6	CAN 10136	VL042987.D	23 Sep 2025 12:15	SY/MD	Ok
7	CAN 10684	VL042988.D	23 Sep 2025 12:50	SY/MD	Ok
8	CAN 10747	VL042989.D	23 Sep 2025 13:26	SY/MD	Ok
9	CAN 10420	VL042990.D	23 Sep 2025 14:01	SY/MD	Ok
10	CAN 10743	VL042991.D	23 Sep 2025 14:37	SY/MD	Ok
11	CAN 10668	VL042992.D	23 Sep 2025 15:13	SY/MD	Ok
12	Q2893-14 0.5 PPB LOQ	VL042993.D	23 Sep 2025 15:49	SY/MD	ReRun
13	Q2893-14 0.1 PPB LOQ	VL042994.D	23 Sep 2025 16:25	SY/MD	Ok,M
14	Q2893-13 0.45	VL042995.D	23 Sep 2025 17:01	SY/MD	Ok,M
15	Q2893-13 0.40	VL042996.D	23 Sep 2025 17:36	SY/MD	Ok,M
16	Q2893-13 0.1	VL042997.D	23 Sep 2025 18:12	SY/MD	Ok,M
17	Q2893-13 0.03	VL042998.D	23 Sep 2025 18:48	SY/MD	Ok,M
18	Q2893-14 0.03	VL042999.D	23 Sep 2025 19:24	SY/MD	ReRun

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Oct 15 01:51:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341790	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	309230	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	241468	10.046	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	132845	8.987	ppbv	100
3) Chlorodifluoromethane	1.476	51	150832	9.431	ppbv	100
4) Chloromethane	1.535	50	51934	8.869	ppbv	100
5) Vinyl Chloride	1.583	62	50044	8.713	ppbv	100
6) Bromomethane	1.671	94	27062	8.593	ppbv	100
7) Chloroethane	1.706	64	19941	8.492	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	108109	9.049	ppbv	100
9) Propene	1.483	41	68116	9.602	ppbv	100
10) Heptane	4.985	43	187423	9.217	ppbv	100
11) Trichlorofluoromethane	1.881	101	129180	8.935	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	101442	8.715	ppbv	100
13) Ethanol	1.722	45	20045	7.640	ppbv	100
14) Bromoethene	1.784	108	38553	8.916	ppbv	100
15) Acetone	1.836	43	113399	8.047	ppbv	100
16) 1,3-Butadiene	1.612	39	57406	8.596	ppbv	100
17) tert-Butyl alcohol	2.043	59	175630	9.130	ppbv	100
18) 1,1-Dichloroethene	2.036	96	45413	8.949	ppbv	100
19) Isopropyl Alcohol	1.887	45	75355	8.634	ppbv	97
20) Methylene Chloride	2.065	84	42212	7.620	ppbv	100
21) Allyl Chloride	2.098	41	94625	9.145	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	53146	8.761	ppbv	100
23) Vinyl Acetate	2.467	43	168706	8.218	ppbv	100
24) 1,1-Dichloroethane	2.412	63	107153	9.143	ppbv	100
25) Ethyl Acetate	2.839	43	325662	9.371	ppbv	100
26) Hexane	2.829	57	146168	9.128	ppbv	99
27) Carbon Disulfide	2.153	76	136729	9.319	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	61076	8.384	ppbv	98
29) Chloroform	2.852	83	211071	9.097	ppbv	100
30) Cyclohexane	3.862	84	126226	9.037	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	146072	9.553	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	222043	9.189	ppbv	100
34) 2-Butanone	2.557	43	207274	8.971	ppbv	100
35) Carbon Tetrachloride	3.768	117	221937	9.032	ppbv	100
36) Benzene	3.661	78	297653	9.246	ppbv	100
37) 1,2-Dichloroethane	3.221	62	165898	8.946	ppbv	100
38) Trichloroethene	4.554	130	116947	8.708	ppbv	100
39) 1,2-Dichloropropane	4.315	63	108446	9.207	ppbv	100
40) 1,4-Dioxane	4.583	88	48201	9.153	ppbv #	97
41) Tetrahydrofuran	3.056	42	117069	9.076	ppbv	100
42) Bromodichloromethane	4.496	83	238353	9.286	ppbv	100
43) Methyl Methacrylate	4.881	69	153927	9.371	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	499148	9.273	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	157856	9.620	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

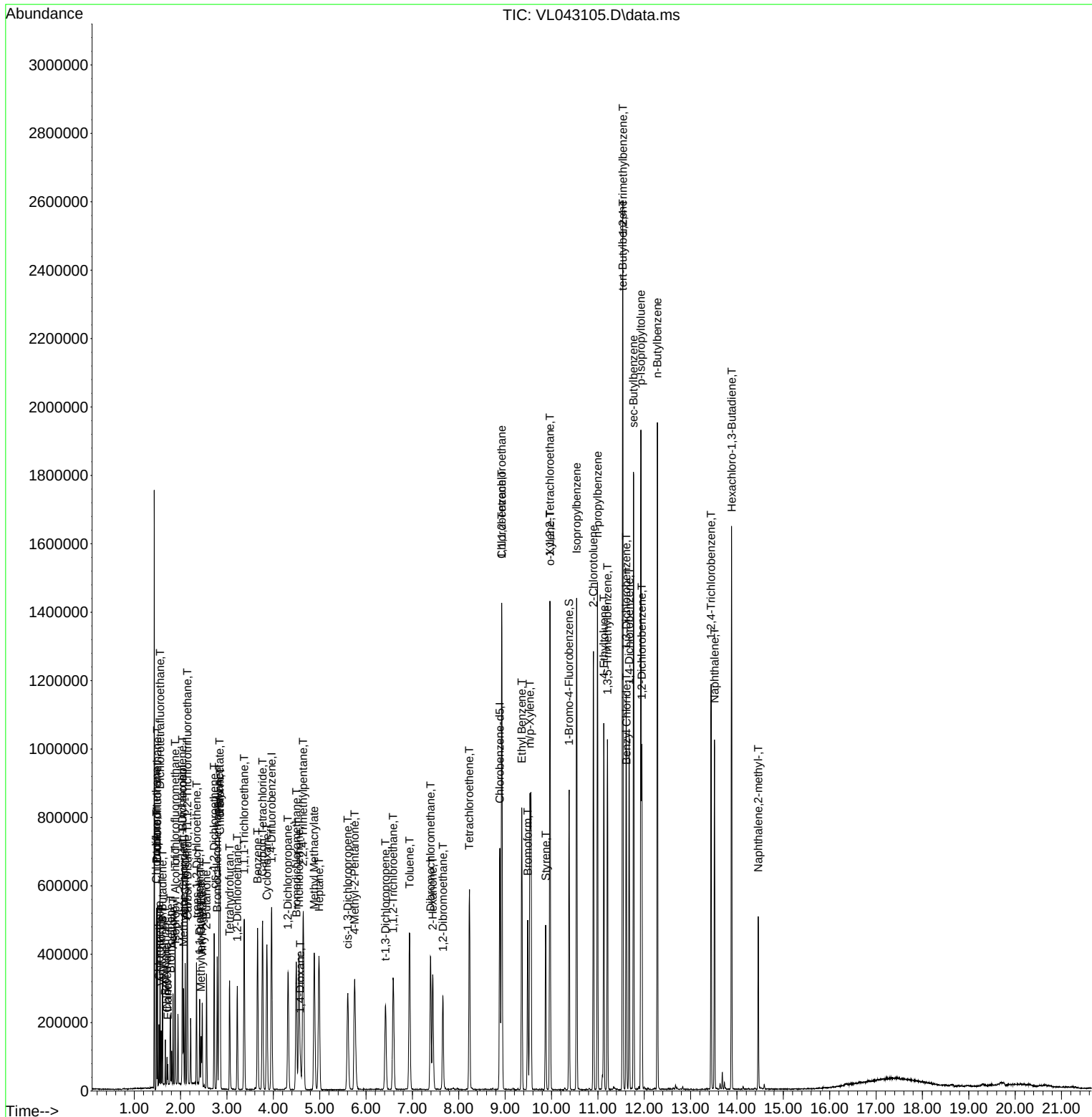
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

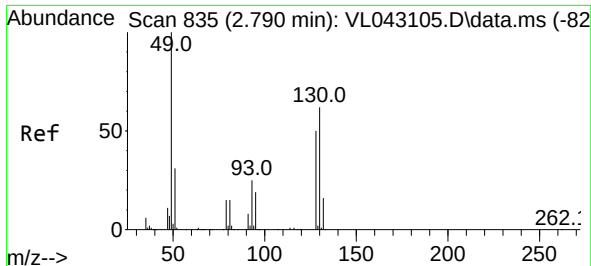
Quant Time: Oct 15 01:51:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	186533	9.525	ppbv	100
47) 1,1,2-Trichloroethane	6.584	97	115419	9.082	ppbv	100
48) Dibromochloromethane	7.390	129	201349	9.476	ppbv	100
49) Bromoform	9.487	173	166377	9.633	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	298401	9.362	ppbv	100
51) 2-Hexanone	7.438	43	236391	9.940	ppbv	100
52) Tetrachloroethene	8.228	164	106710	9.192	ppbv	100
53) Toluene	6.940	91	354007	9.266	ppbv	100
54) 1,2-Dibromoethane	7.658	107	182074	9.080	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	182585	9.367	ppbv	100
57) Chlorobenzene	8.927	112	262566	9.076	ppbv	100
58) Ethyl Benzene	9.358	91	494344	9.241	ppbv	100
59) m/p-Xylene	9.536	91	403670	9.529	ppbv #	29
60) o-Xylene	9.969	91	378462	9.053	ppbv	100
61) Styrene	9.875	104	178859	9.477	ppbv	100
62) Isopropylbenzene	10.542	105	692992	9.173	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	240245	8.582	ppbv	100
64) n-propylbenzene	10.992	120	182233	9.112	ppbv	100
65) tert-Butylbenzene	11.536	119	587750	8.810	ppbv	100
66) Benzyl Chloride	11.617	91	74574	10.009	ppbv	100
67) sec-Butylbenzene	11.769	105	834052	8.809	ppbv	100
69) p-Isopropyltoluene	11.927	119	720433	8.955	ppbv	100
70) n-Butylbenzene	12.283	91	717743	9.053	ppbv	100
71) 2-Chlorotoluene	10.905	91	524961	9.111	ppbv	100
72) 4-Ethyltoluene	11.128	105	473042	9.202	ppbv	100
73) 1,3,5-Trimethylbenzene	11.206	105	389818	9.195	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	411619	8.676	ppbv	100
75) 1,3-Dichlorobenzene	11.610	146	252926	9.192	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	254461	9.171	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	236724	8.893	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	171777	8.334	ppbv	100
79) Naphthalene	13.517	128	488672	9.972	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	147897	11.431	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	197210	9.582	ppbv	100

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

Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

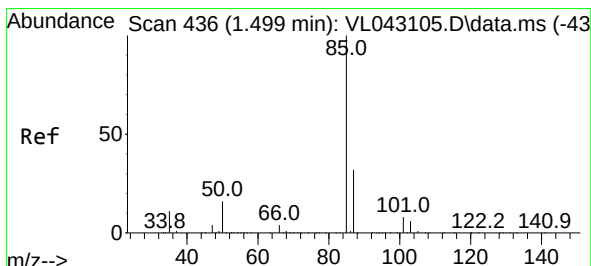
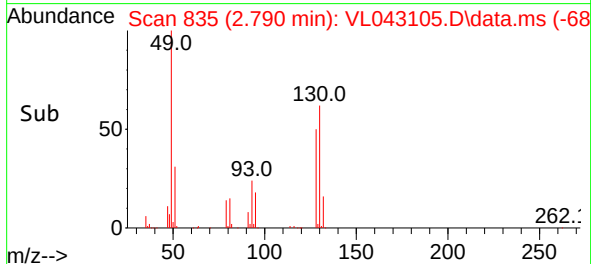
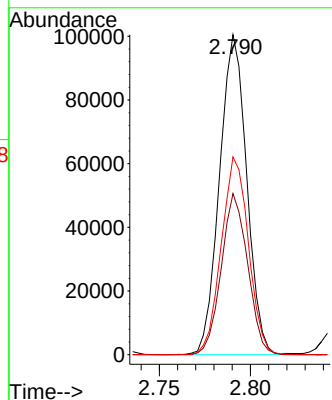
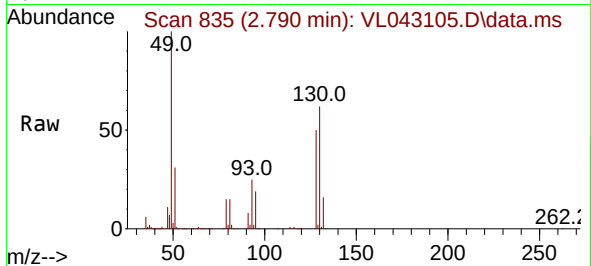




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

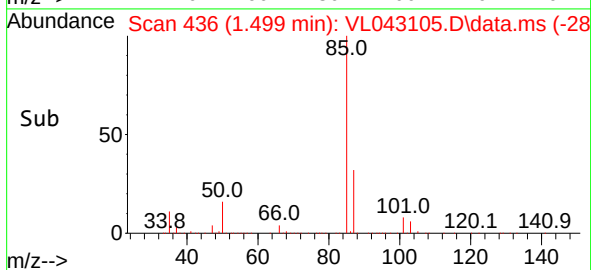
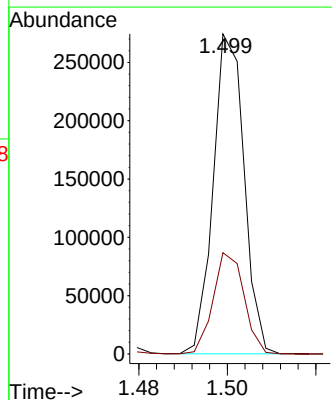
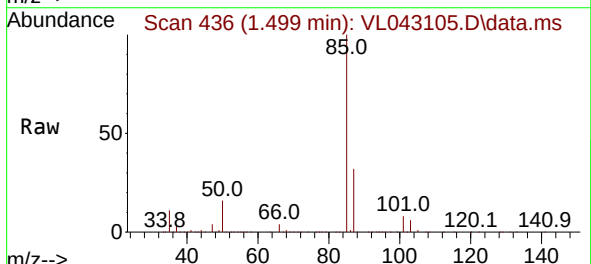
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

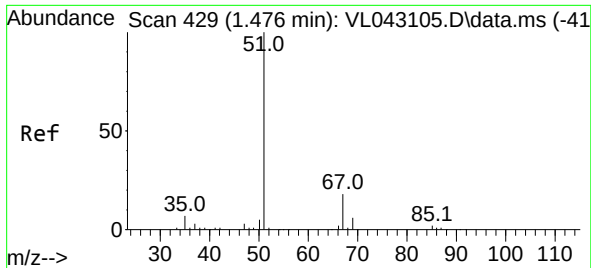
Tgt Ion: 49 Resp: 103971
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 62.0 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 8.987 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 132845
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9

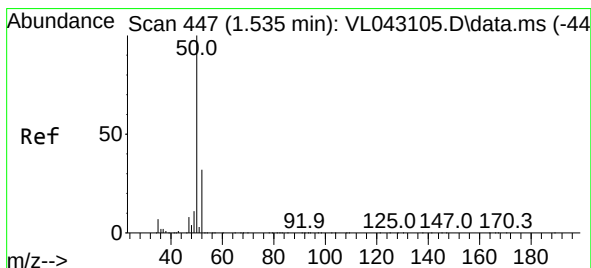
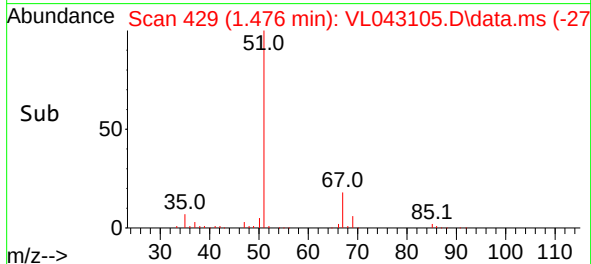
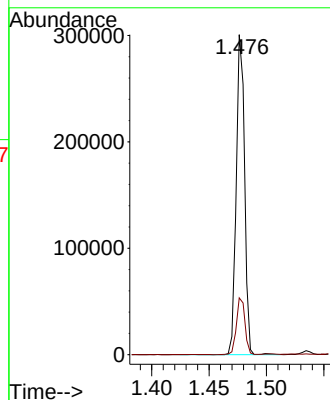
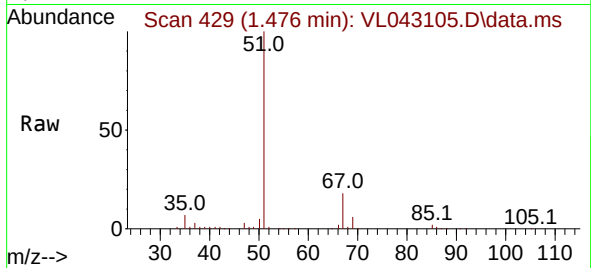




#3
Chlorodifluoromethane
Concen: 9.431 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

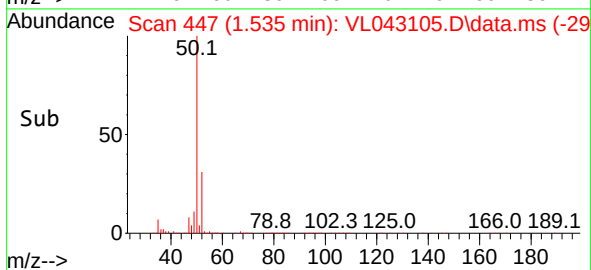
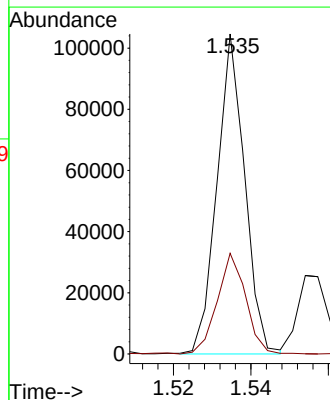
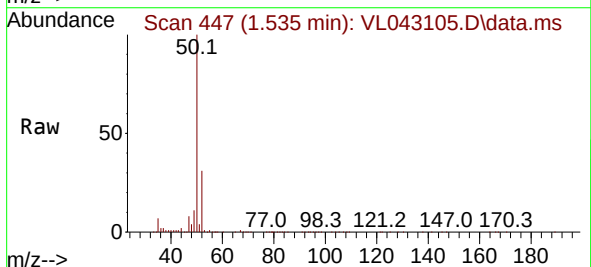
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

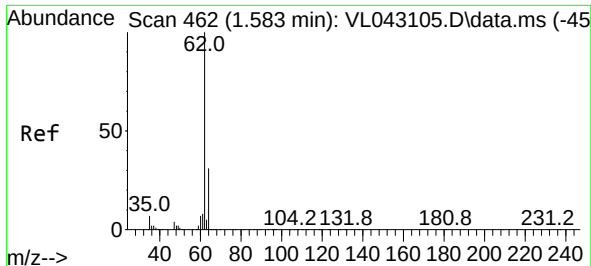
Tgt Ion: 51 Resp: 150832
Ion Ratio Lower Upper
51 100
67 18.9 15.1 22.7



#4
Chloromethane
Concen: 8.869 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 50 Resp: 51934
Ion Ratio Lower Upper
50 100
52 31.5 25.2 37.8

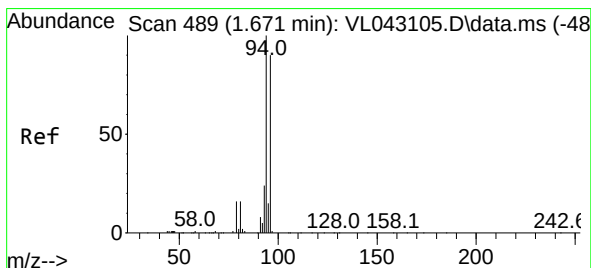
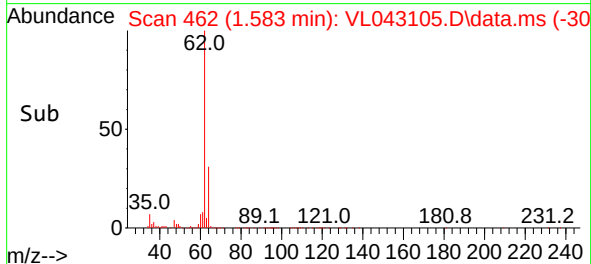
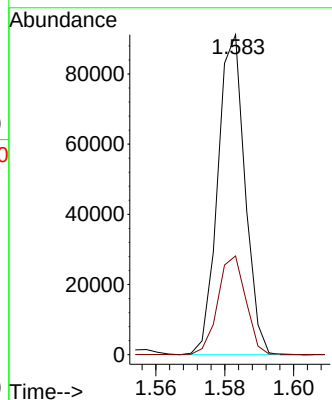
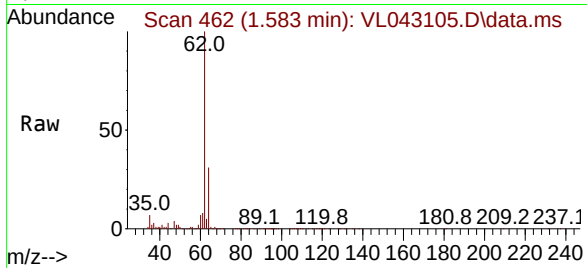




#5
 Vinyl Chloride
 Concen: 8.713 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

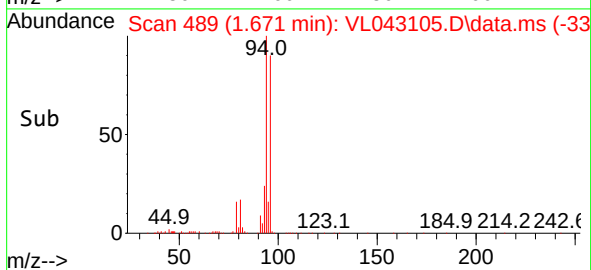
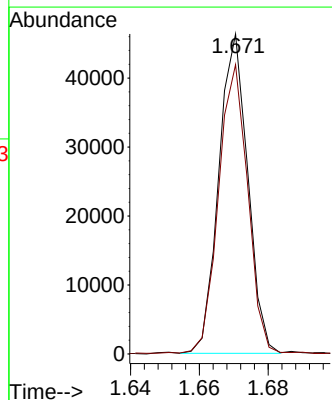
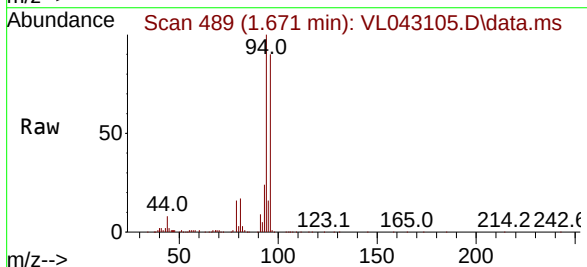
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

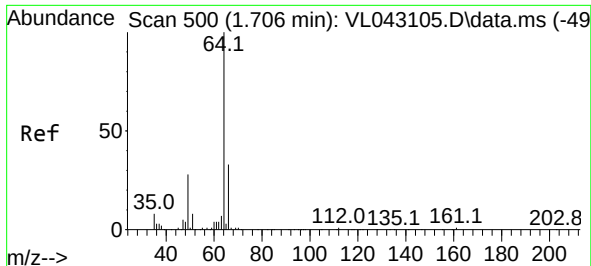
Tgt Ion: 62 Resp: 50044
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.6 36.8



#6
 Bromomethane
 Concen: 8.593 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 94 Resp: 27062
 Ion Ratio Lower Upper
 94 100
 96 90.3 72.2 108.4

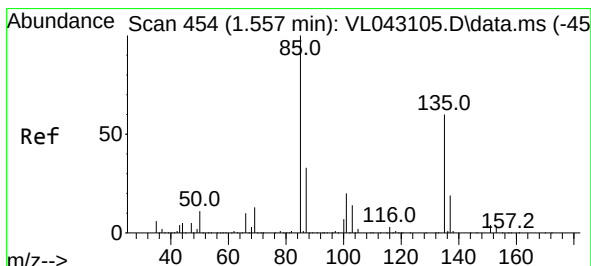
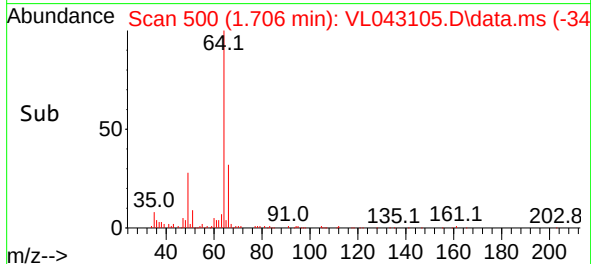
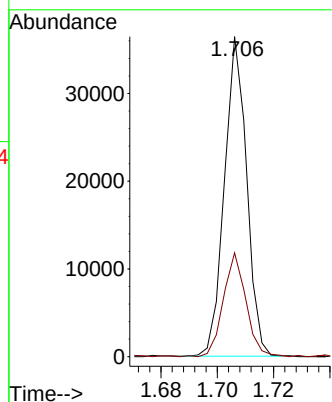
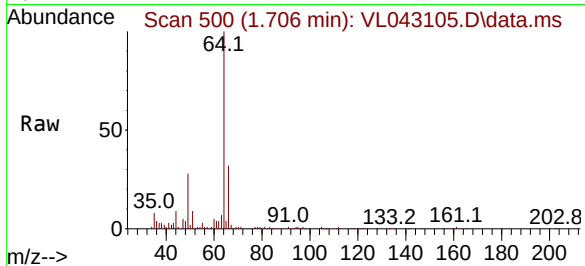




#7
Chloroethane
Concen: 8.492 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

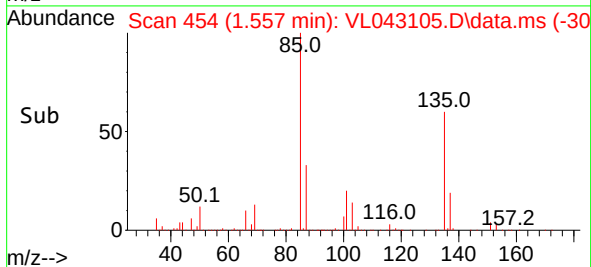
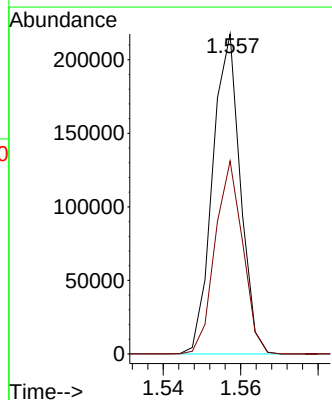
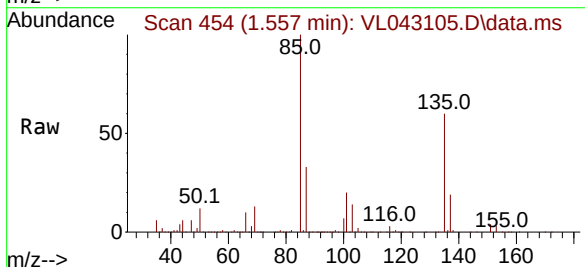
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

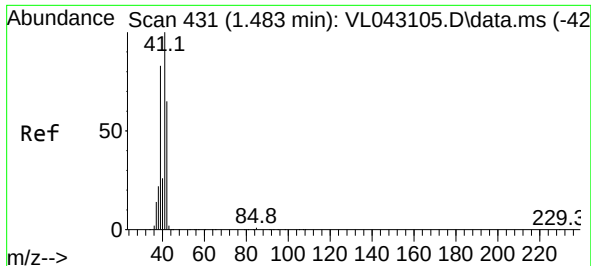
Tgt Ion: 64 Resp: 19941
Ion Ratio Lower Upper
64 100
66 32.5 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 9.049 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 108109
Ion Ratio Lower Upper
85 100
135 60.3 48.2 72.4

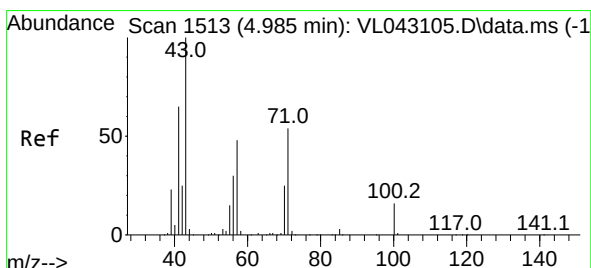
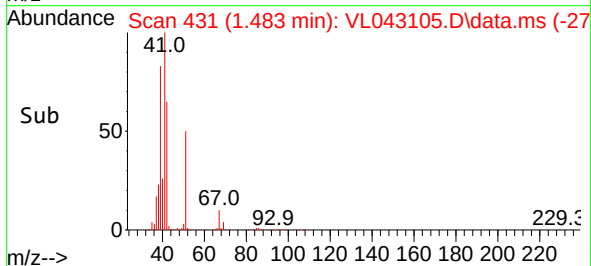
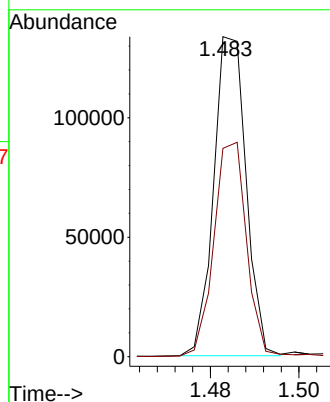
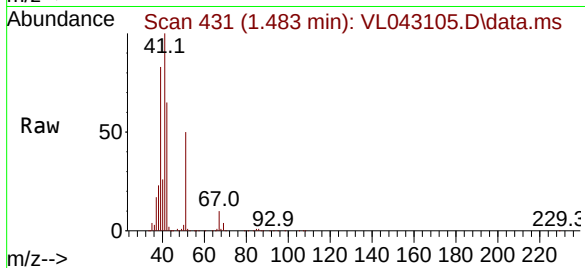




#9
Propene
Concen: 9.602 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

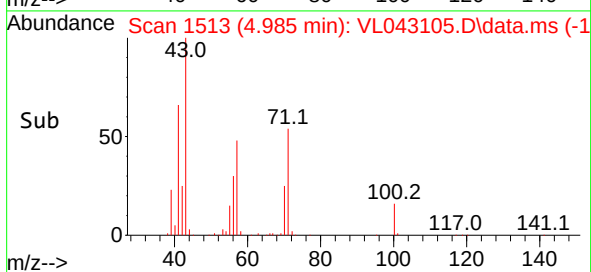
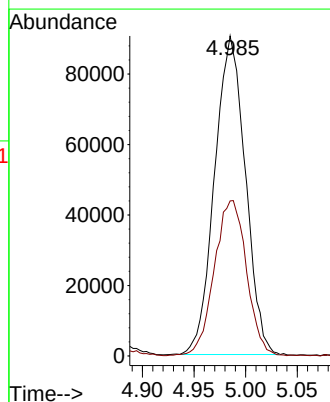
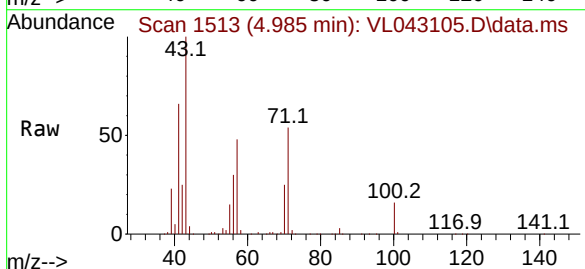
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

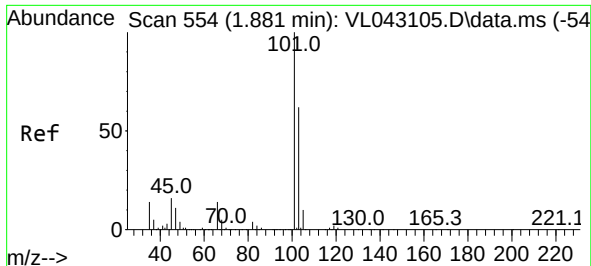
Tgt Ion: 41 Resp: 68116
Ion Ratio Lower Upper
41 100
42 68.9 55.1 82.7



#10
Heptane
Concen: 9.217 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 187423
Ion Ratio Lower Upper
43 100
57 50.9 40.8 61.2

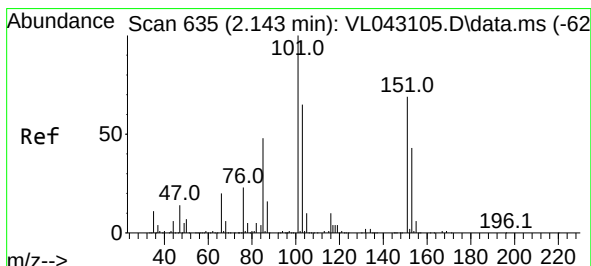
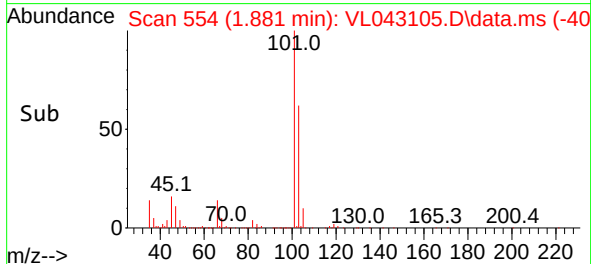
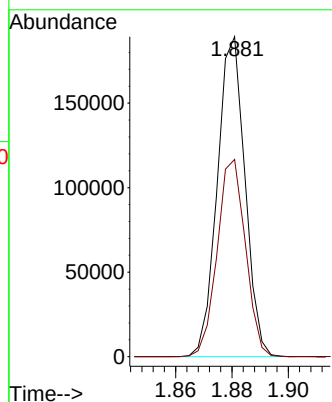
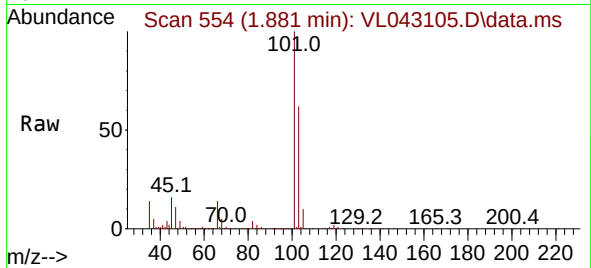




#11
 Trichlorofluoromethane
 Concen: 8.935 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

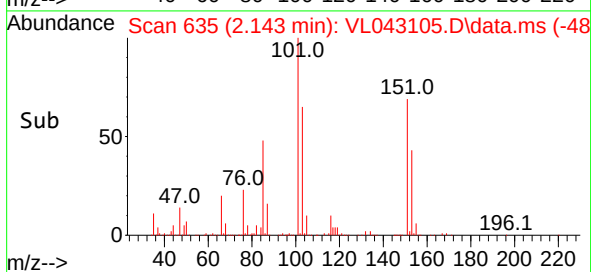
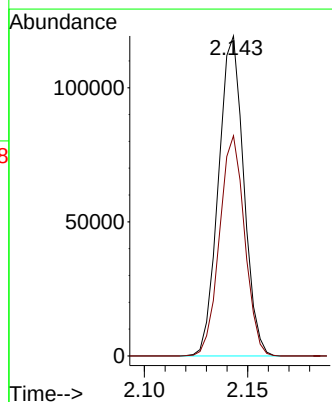
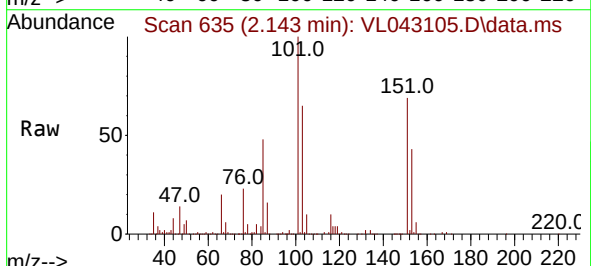
Instrument :
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 ClientSampleId :
 VSTDICCC010

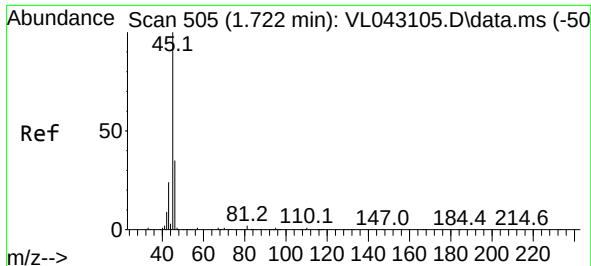
Tgt Ion:101 Resp: 129180
 Ion Ratio Lower Upper
 101 100
 103 61.6 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.715 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion:101 Resp: 101442
 Ion Ratio Lower Upper
 101 100
 151 68.4 54.7 82.1

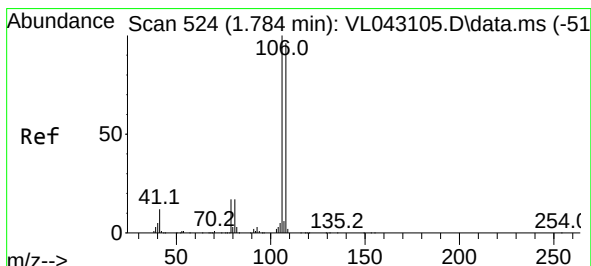
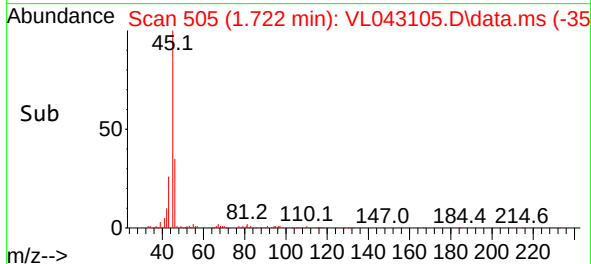
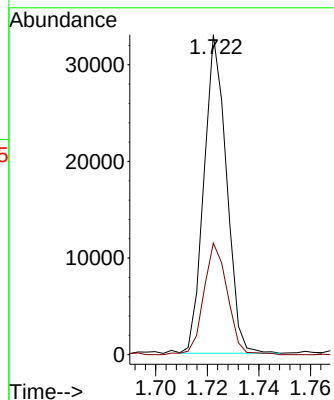
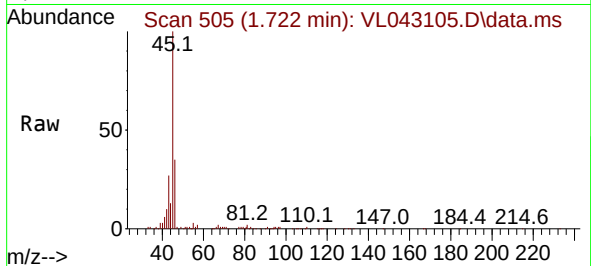




#13
Ethanol
Concen: 7.640 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

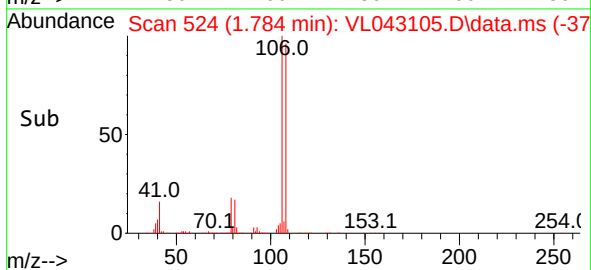
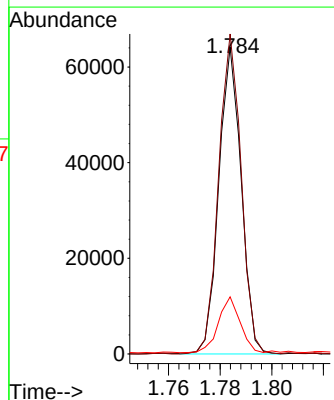
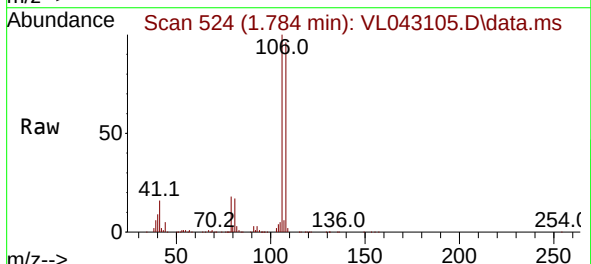
Instrument :
MSVOA_L
ClientSampleId :
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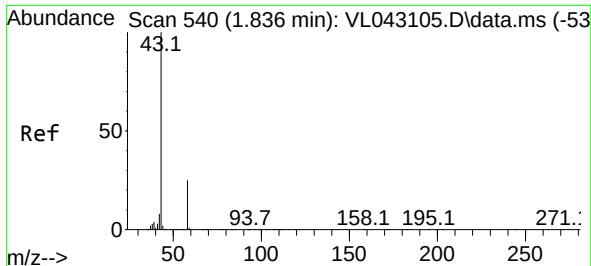
Tgt Ion: 45 Resp: 20045
Ion Ratio Lower Upper
45 100
46 36.8 14.7 58.9



#14
Bromoethene
Concen: 8.916 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 108 Resp: 38553
Ion Ratio Lower Upper
108 100
106 105.5 84.4 126.6
79 19.1 15.3 22.9

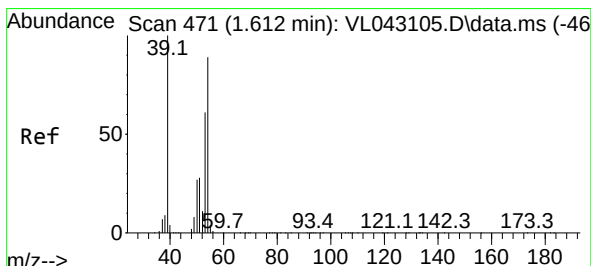
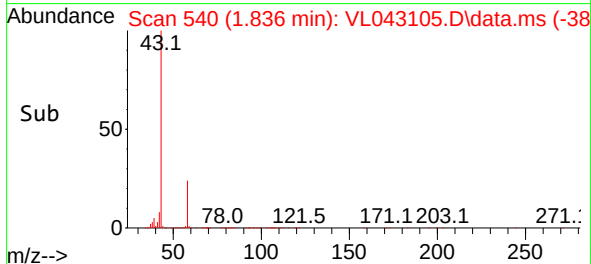
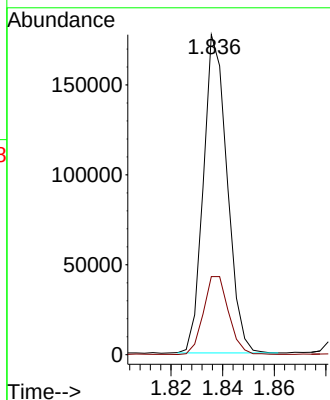
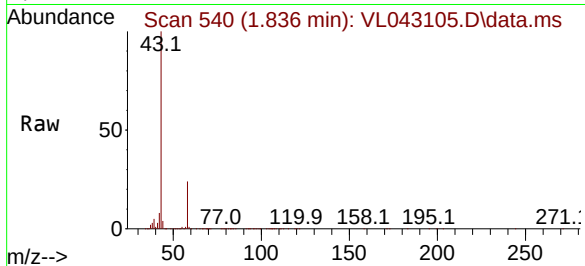




#15
Acetone
Concen: 8.047 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

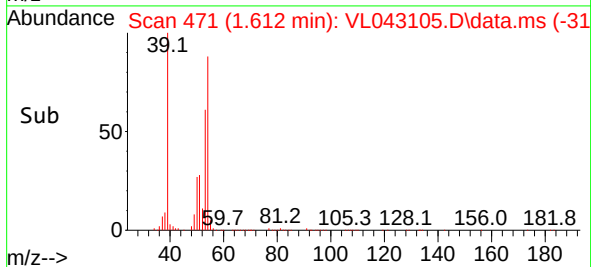
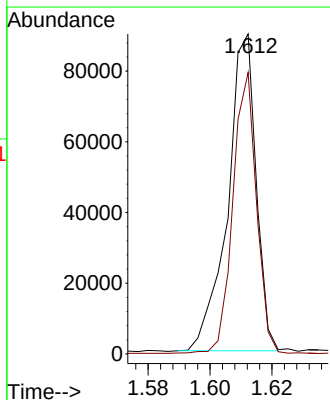
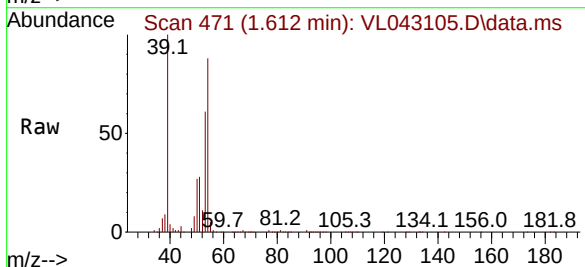
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

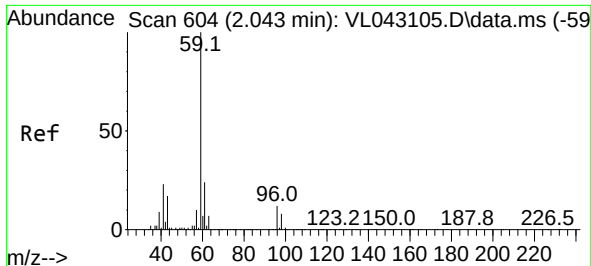
Tgt Ion: 43 Resp: 113399
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2



#16
1,3-Butadiene
Concen: 8.596 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 39 Resp: 57406
Ion Ratio Lower Upper
39 100
54 73.7 59.0 88.4

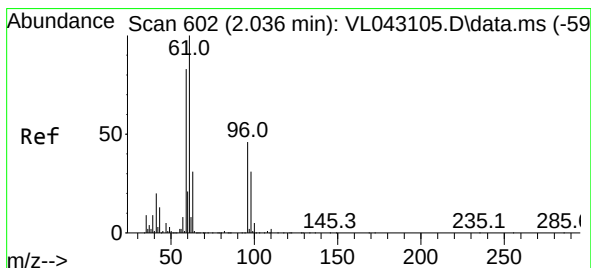
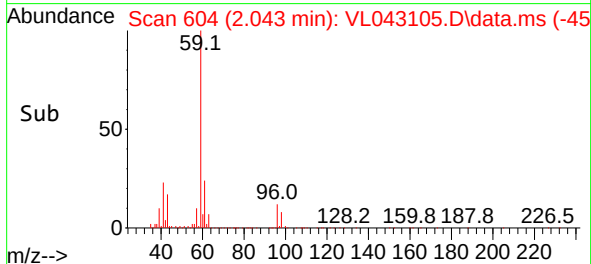
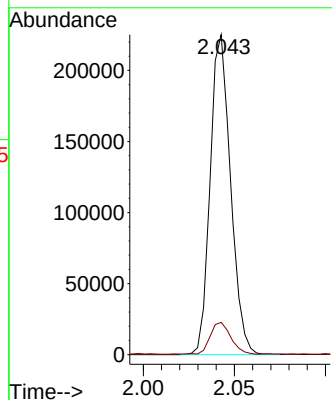
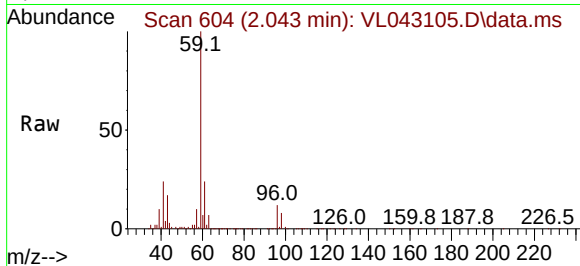




#17
tert-Butyl alcohol
Concen: 9.130 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

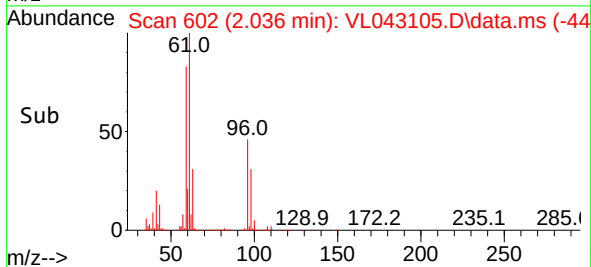
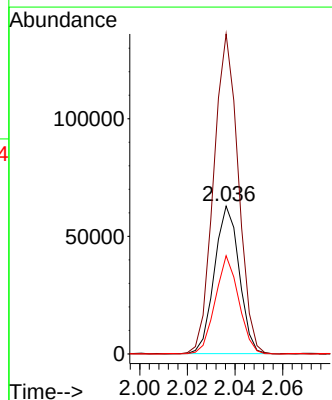
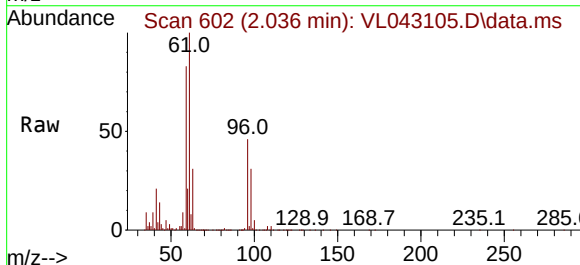
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

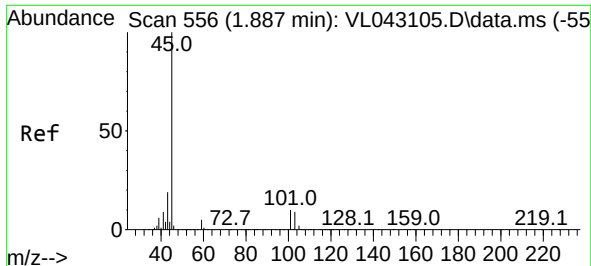
Tgt Ion: 59 Resp: 175630
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.4



#18
1,1-Dichloroethene
Concen: 8.949 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 45413
Ion Ratio Lower Upper
96 100
61 216.7 173.4 260.0
98 66.5 53.2 79.8

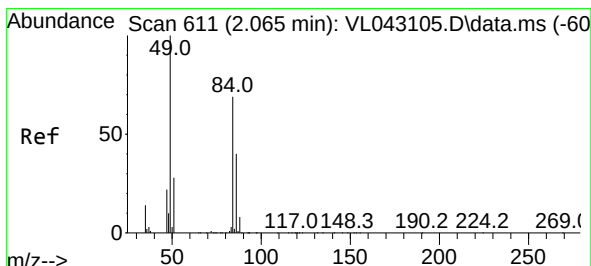
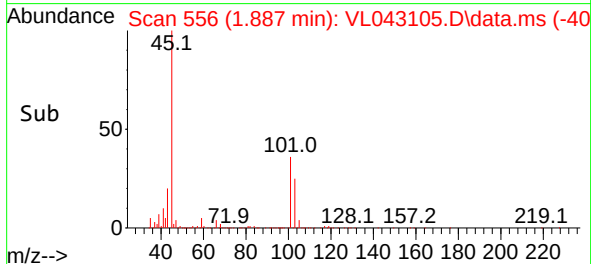
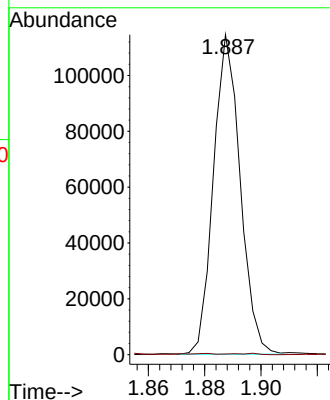
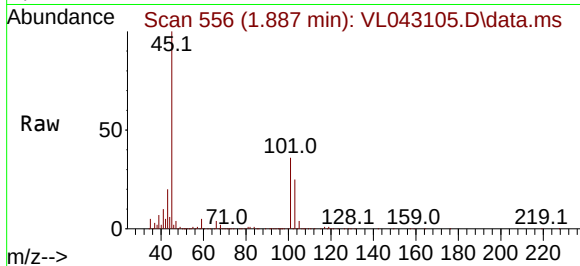




#19
Isopropyl Alcohol
Concen: 8.634 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

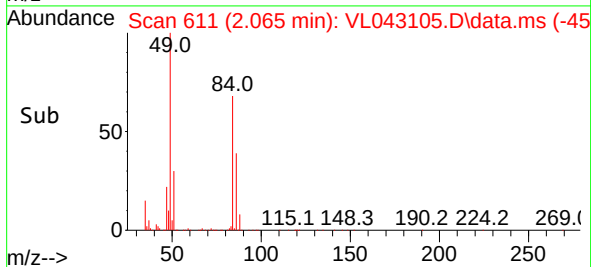
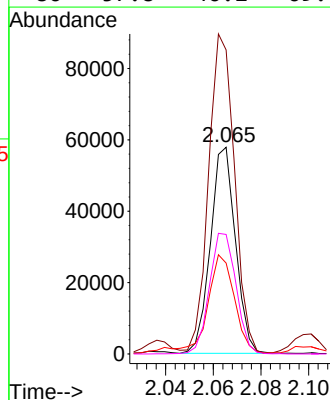
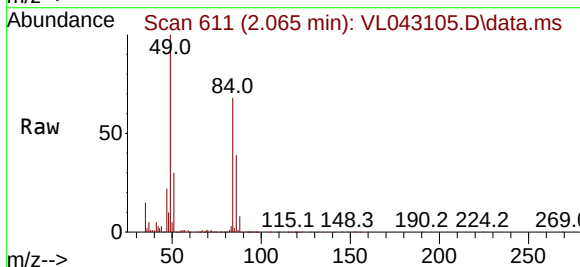
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

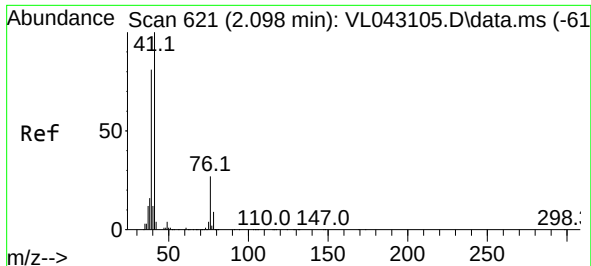
Tgt Ion: 45 Resp: 75355
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9



#20
Methylene Chloride
Concen: 7.620 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212
Ion Ratio Lower Upper
84 100
49 145.8 116.6 175.0
51 43.5 34.8 52.2
86 57.8 46.2 69.4

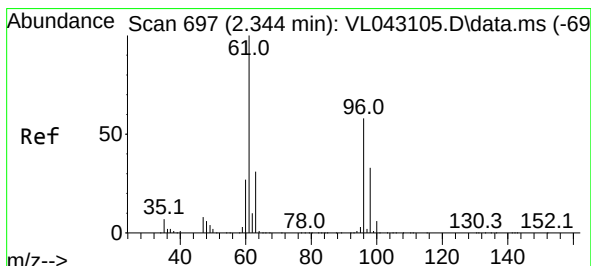
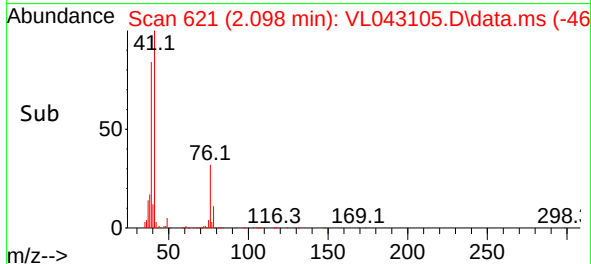
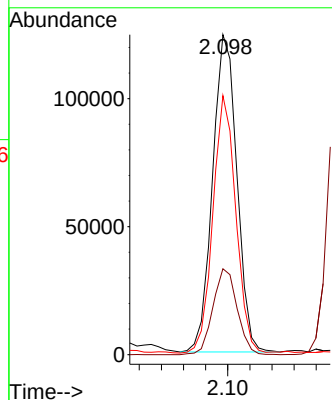
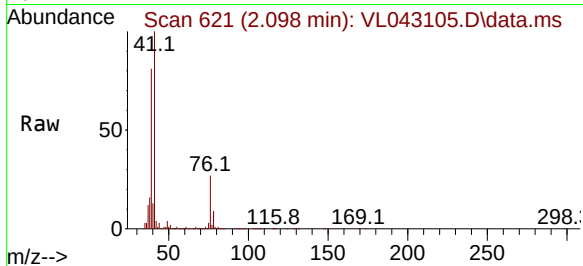




#21
 Allyl Chloride
 Concen: 9.145 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

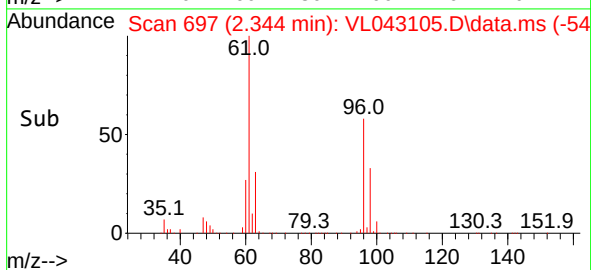
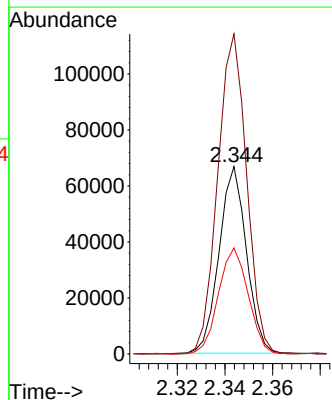
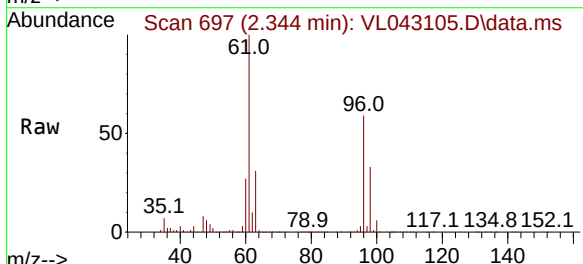
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

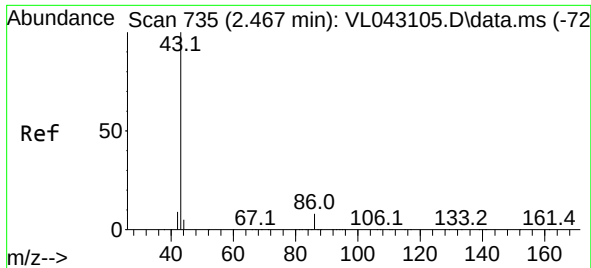
Tgt Ion: 41 Resp: 94625
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.5 32.3
 39 76.4 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 8.761 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 53146
 Ion Ratio Lower Upper
 96 100
 61 171.3 137.0 205.6
 98 56.9 45.5 68.3



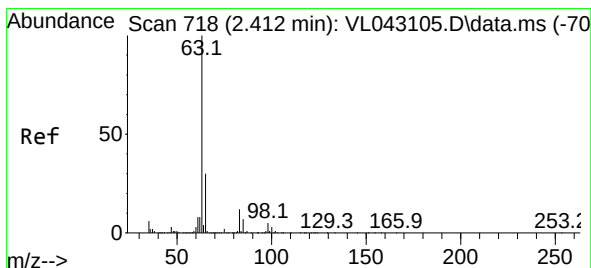
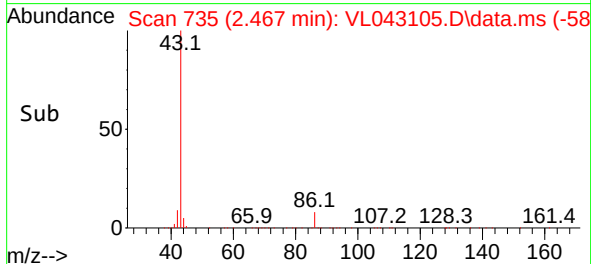
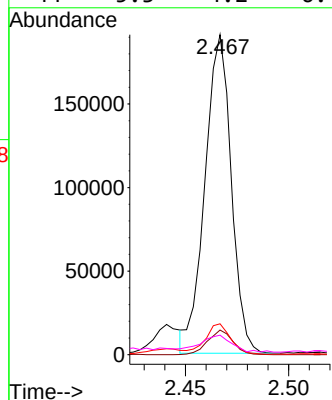
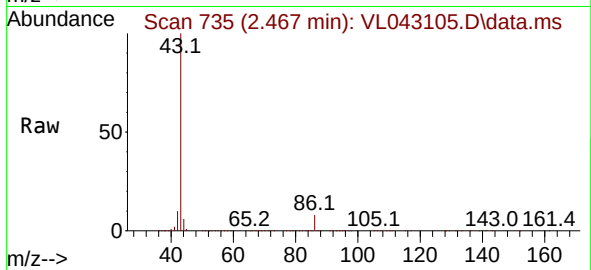


#23
 Vinyl Acetate
 Concen: 8.218 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 168706

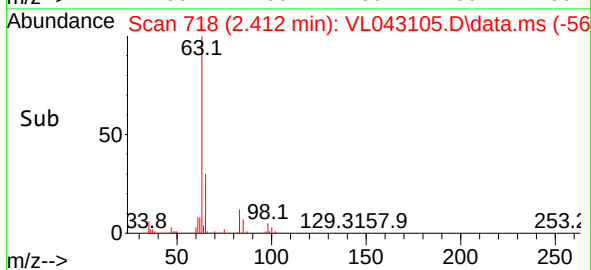
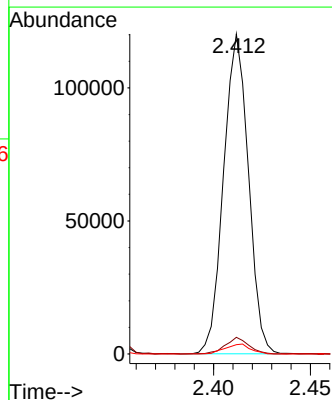
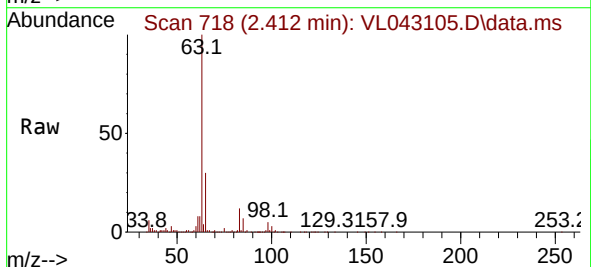
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	9.5	7.6	11.4
44	5.3	4.2	6.4

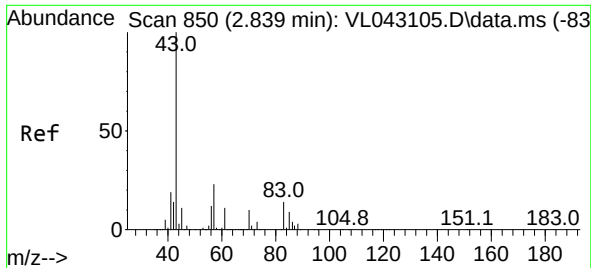


#24
 1,1-Dichloroethane
 Concen: 9.143 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 63 Resp: 107153

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.6	7.8
100	2.9	1.5	4.4



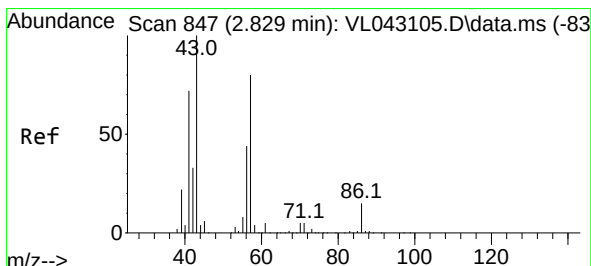
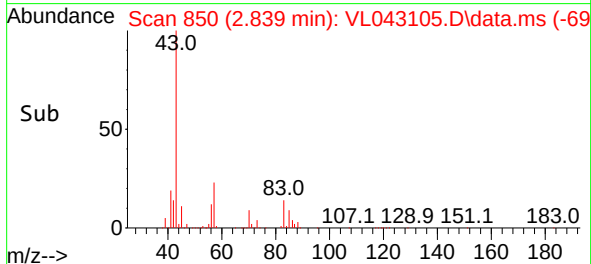
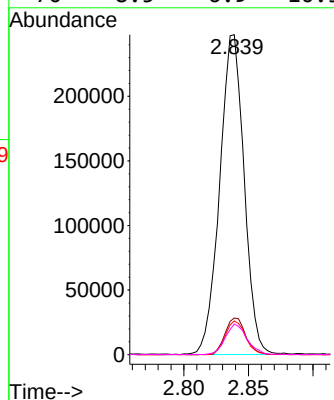
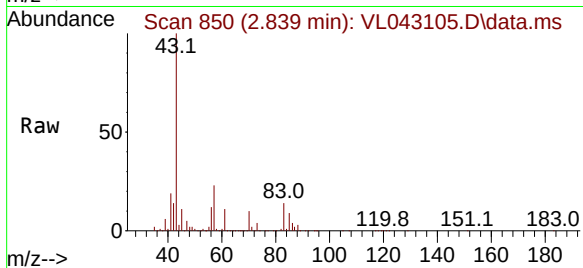


#25
Ethyl Acetate
Concen: 9.371 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 325662

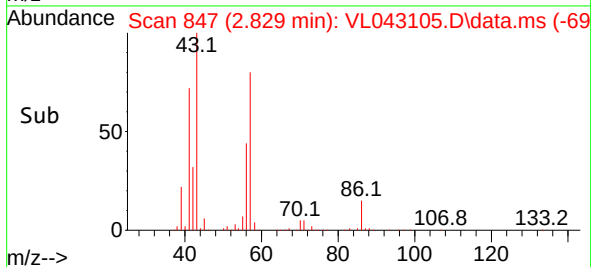
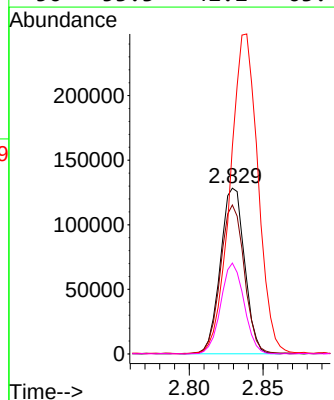
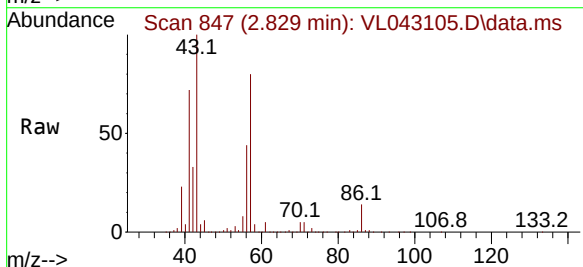
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.8	7.0	10.6
70	8.5	6.9	10.3

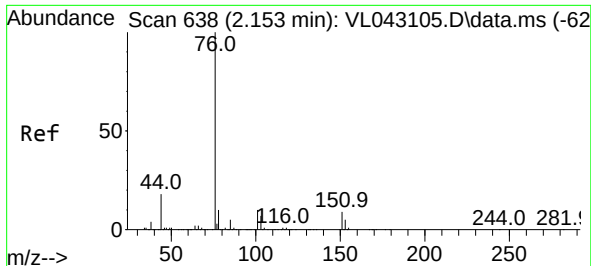


#26
Hexane
Concen: 9.128 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 146168

Ion	Ratio	Lower	Upper
57	100		
41	90.2	71.4	107.0
43	222.4	178.5	267.7
56	53.3	42.2	63.4

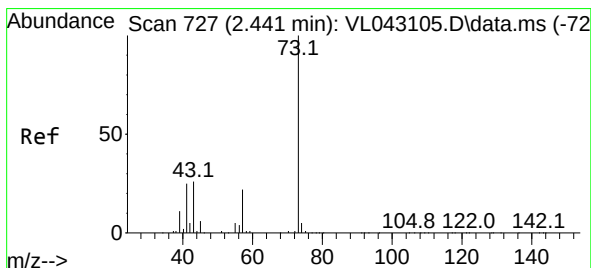
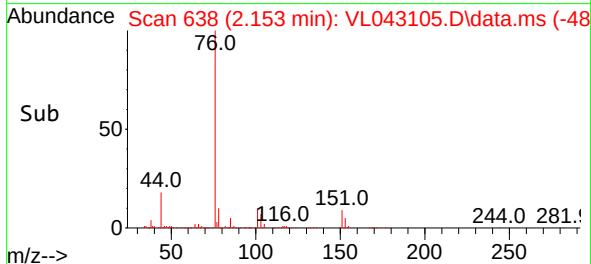
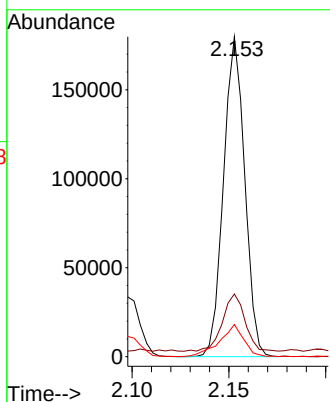
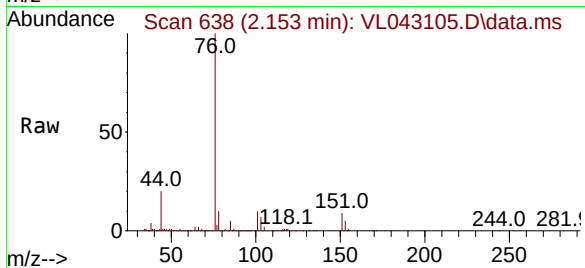




#27
Carbon Disulfide
Concen: 9.319 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

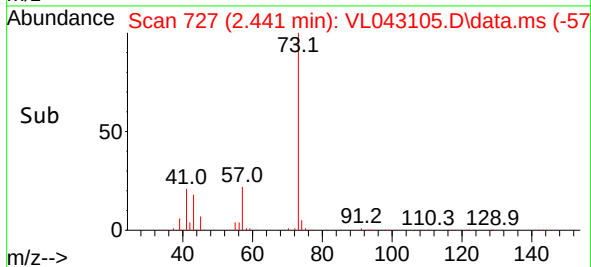
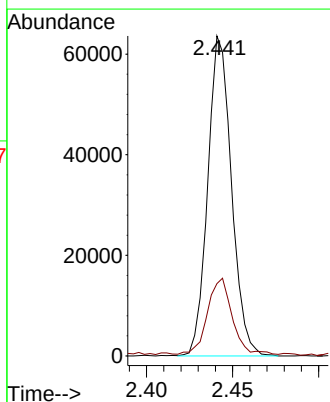
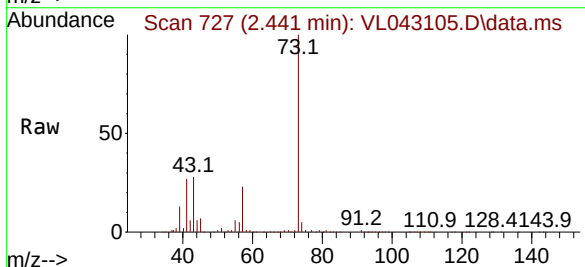
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

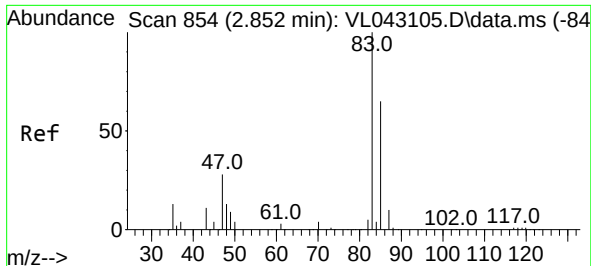
Tgt Ion: 76 Resp: 136729
Ion Ratio Lower Upper
76 100
44 20.1 16.7 25.1
78 11.5 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.384 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 73 Resp: 61076
Ion Ratio Lower Upper
73 100
57 24.8 20.5 30.7





#29

Chloroform

Concen: 9.097 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

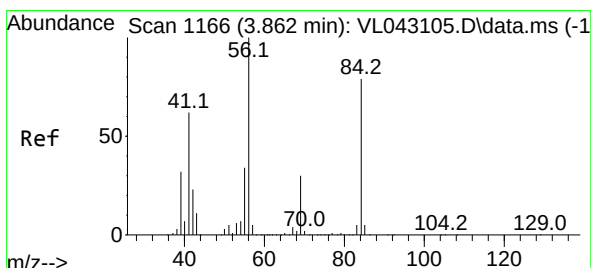
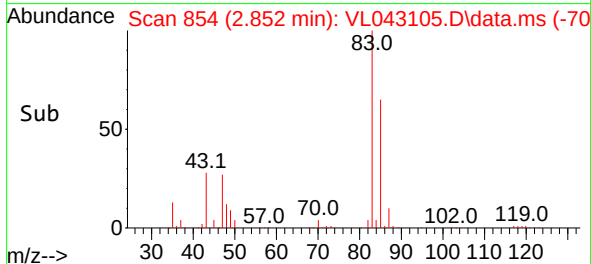
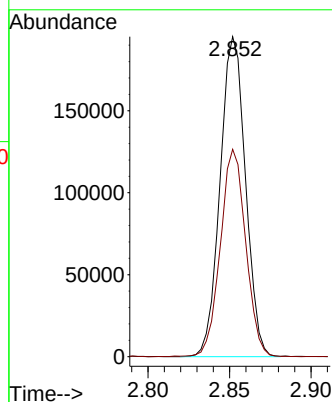
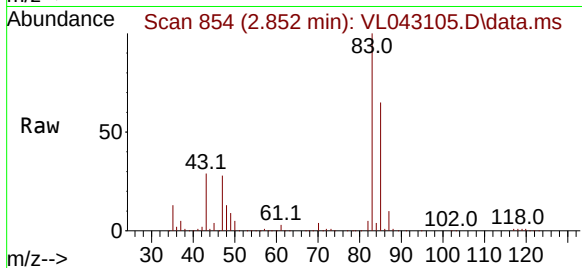
VSTDICCC010

Tgt Ion: 83 Resp: 211071

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6



#30

Cyclohexane

Concen: 9.037 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

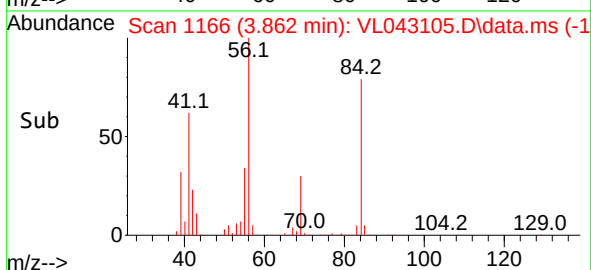
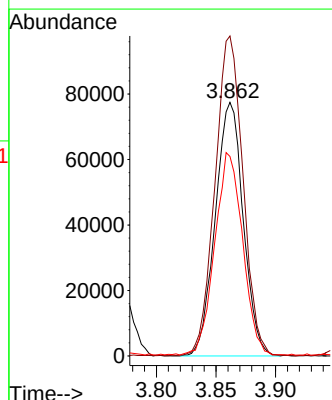
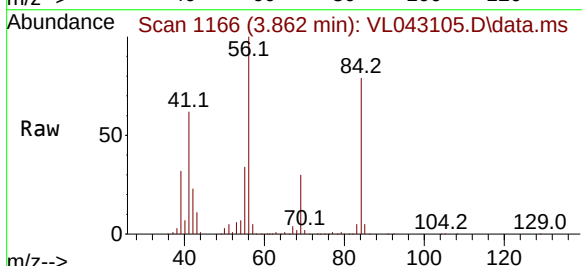
Tgt Ion: 84 Resp: 126226

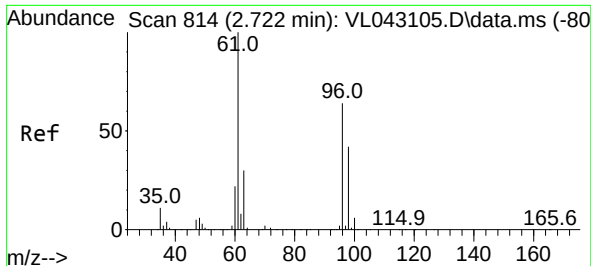
Ion Ratio Lower Upper

84 100

56 126.5 100.9 151.3

41 79.8 63.8 95.6

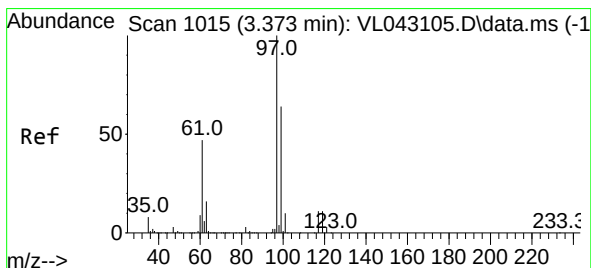
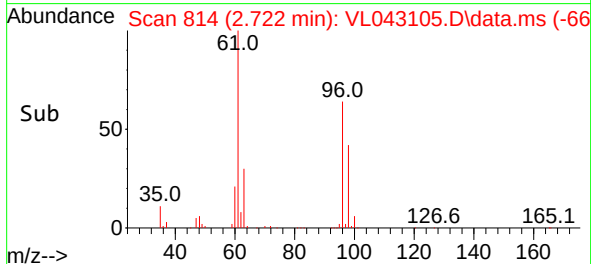
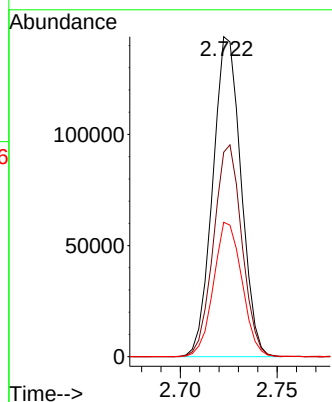
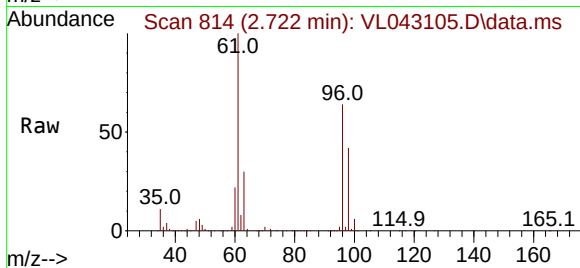




#31
 cis-1,2-Dichloroethene
 Concen: 9.553 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

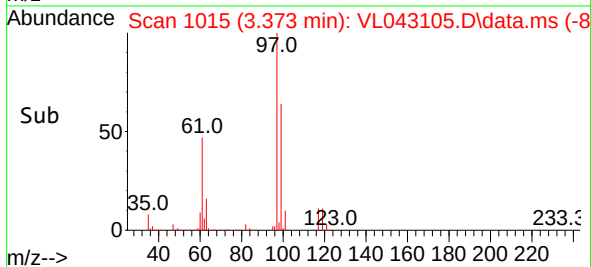
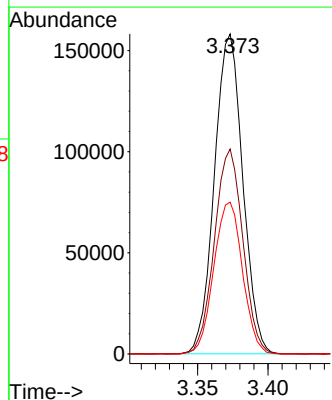
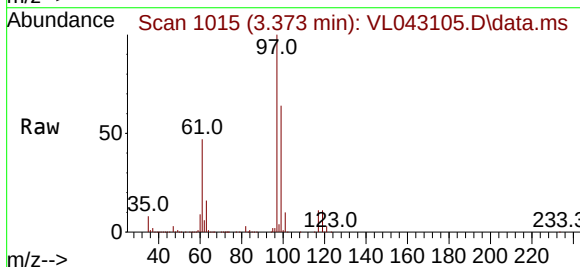
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

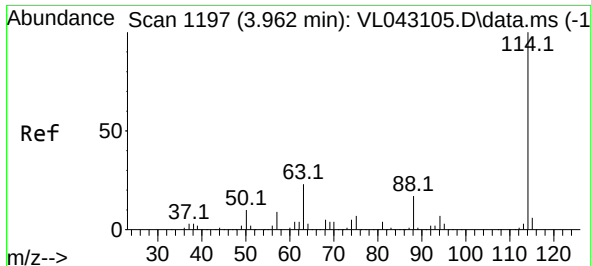
Tgt Ion: 61 Resp: 146072
 Ion Ratio Lower Upper
 61 100
 96 63.8 51.0 76.6
 98 41.9 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 9.189 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 97 Resp: 222043
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.3 76.9
 61 48.0 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

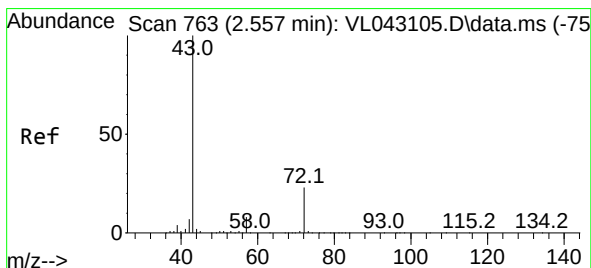
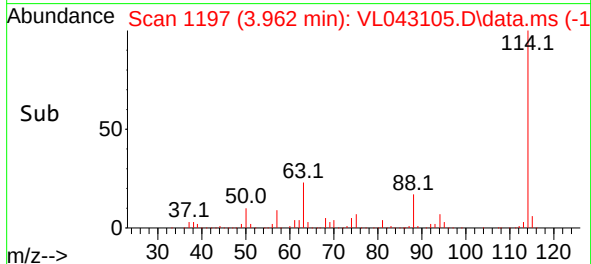
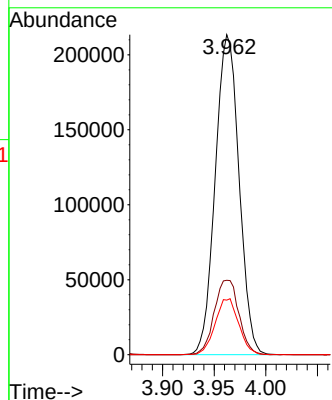
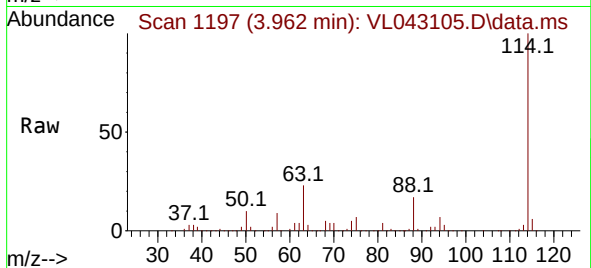
Tgt Ion:114 Resp: 341790

Ion Ratio Lower Upper

114 100

63 24.1 19.3 28.9

88 17.4 13.9 20.9



#34

2-Butanone

Concen: 8.971 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.000 min

Lab File: VL043105.D

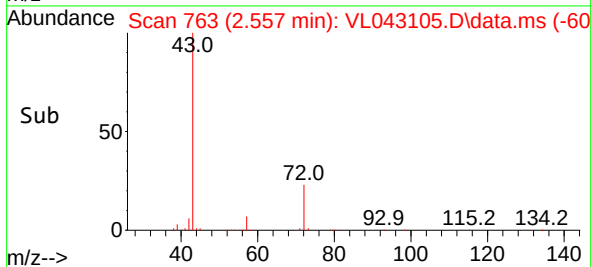
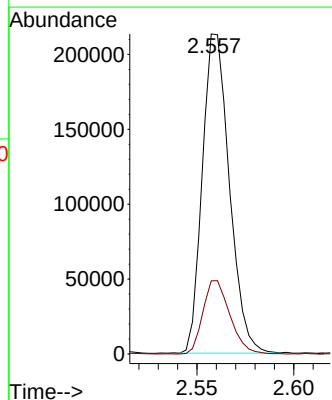
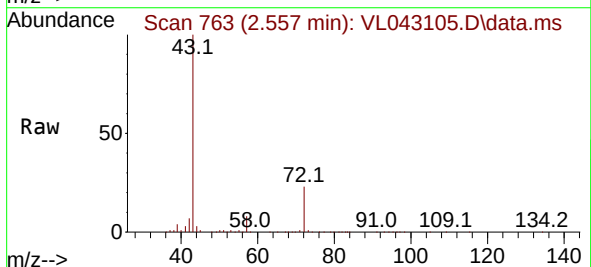
Acq: 14 Oct 2025 10:31

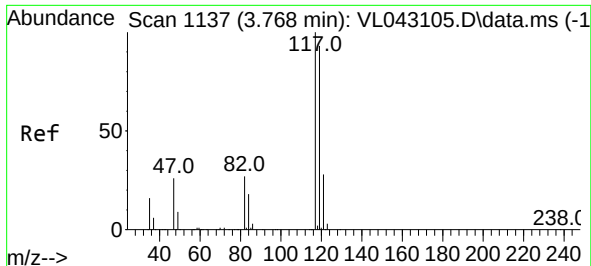
Tgt Ion: 43 Resp: 207274

Ion Ratio Lower Upper

43 100

72 22.8 18.4 27.6

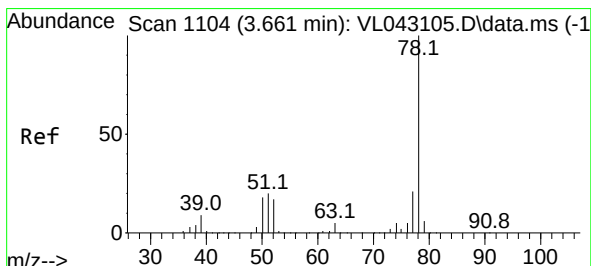
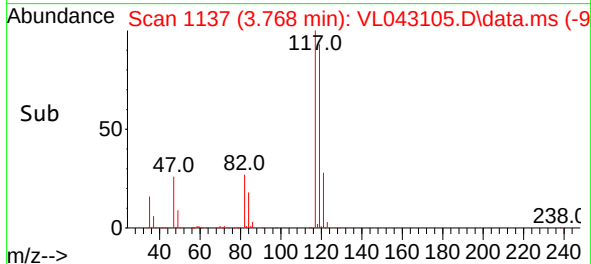
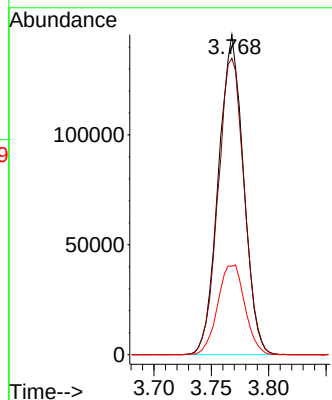
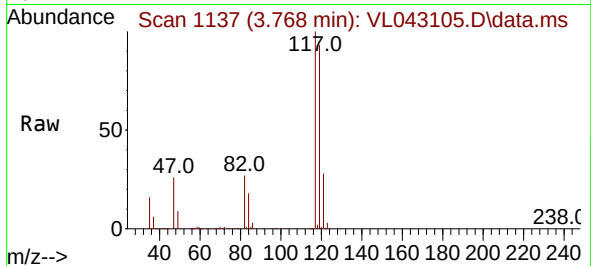




#35
Carbon Tetrachloride
Concen: 9.032 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

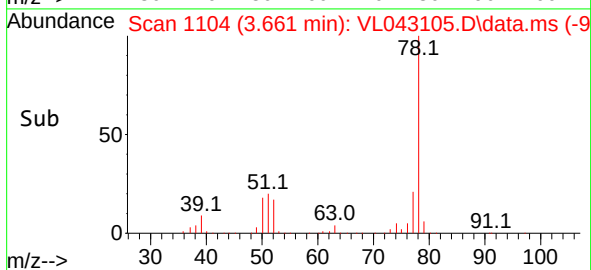
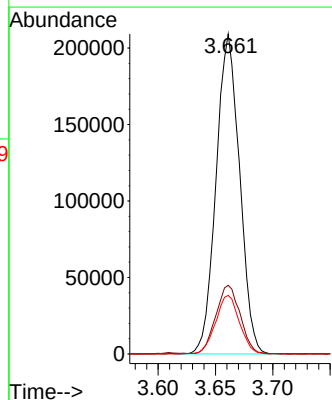
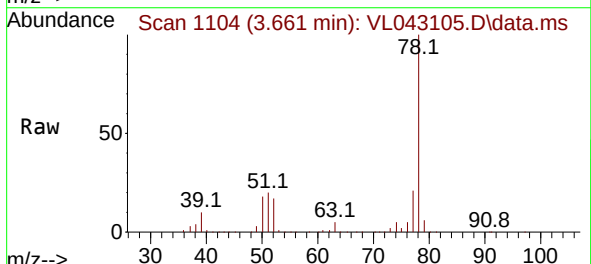
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

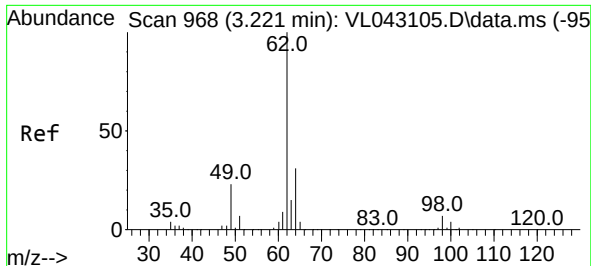
Tgt Ion:117 Resp: 221937
Ion Ratio Lower Upper
117 100
119 92.6 74.1 111.1
121 27.7 22.2 33.2



#36
Benzene
Concen: 9.246 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 78 Resp: 297653
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.3 14.6 22.0

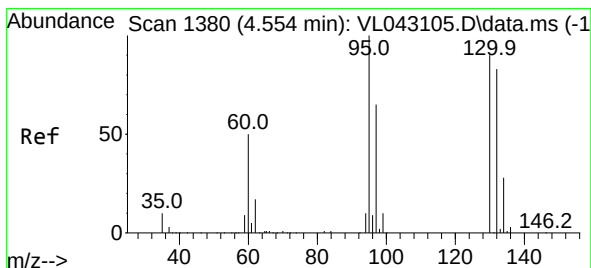
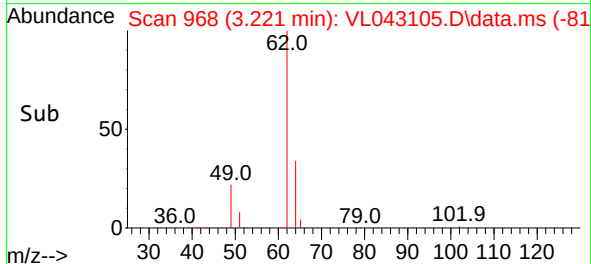
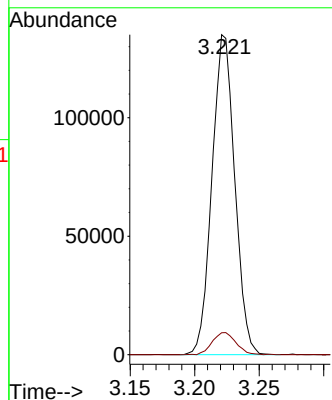
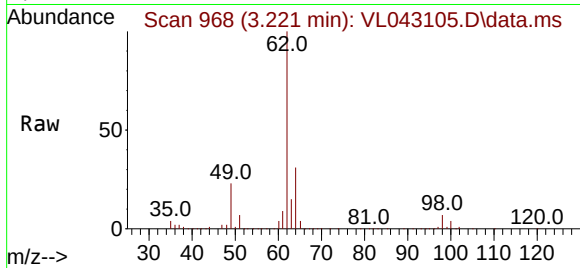




#37
1,2-Dichloroethane
Concen: 8.946 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

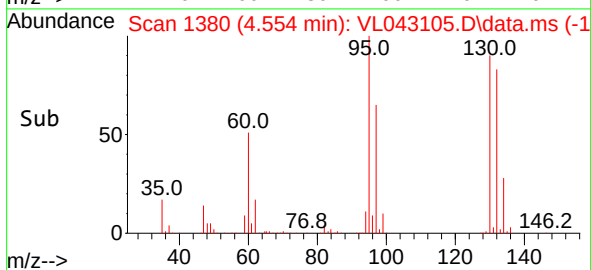
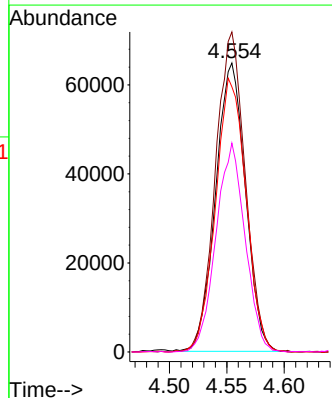
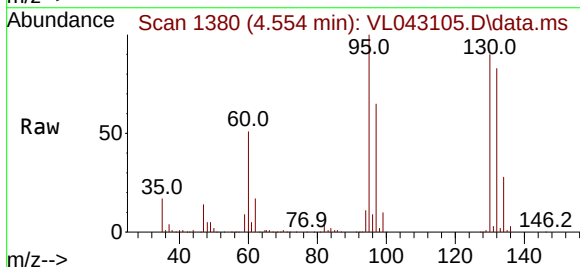
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

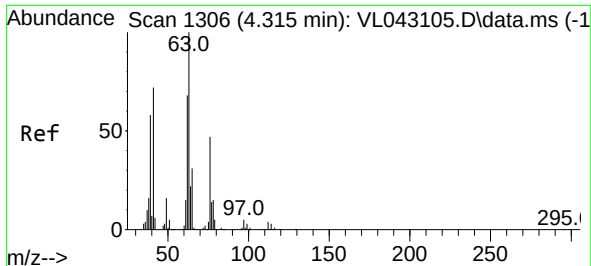
Tgt Ion: 62 Resp: 165898
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6



#38
Trichloroethene
Concen: 8.708 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:130 Resp: 116947
Ion Ratio Lower Upper
130 100
95 110.8 88.6 133.0
132 91.7 73.4 110.0
97 72.2 57.8 86.6

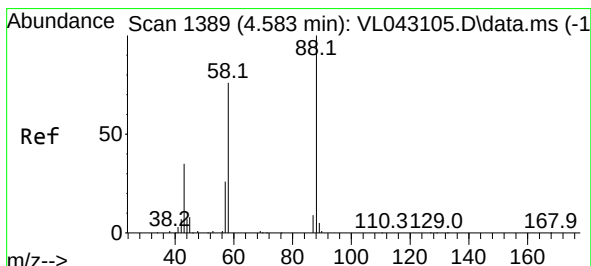
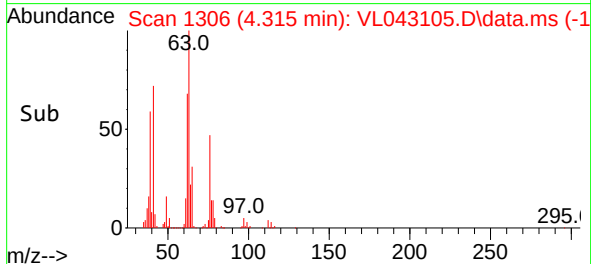
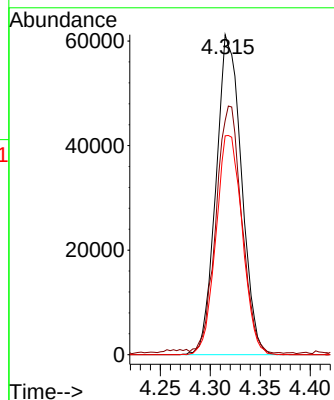
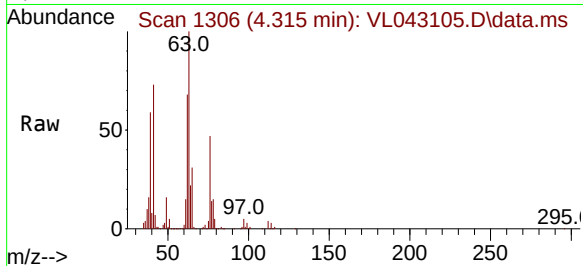




#39
 1,2-Dichloropropane
 Concen: 9.207 ppbv
 RT: 4.315 min Scan# 1306
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

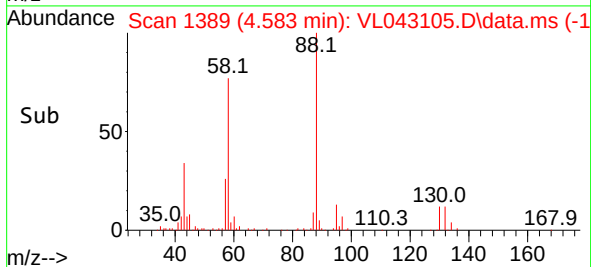
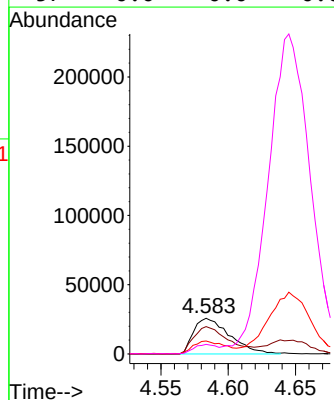
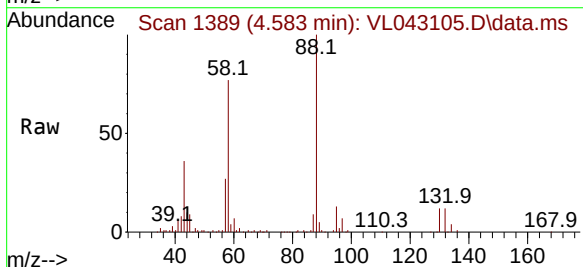
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

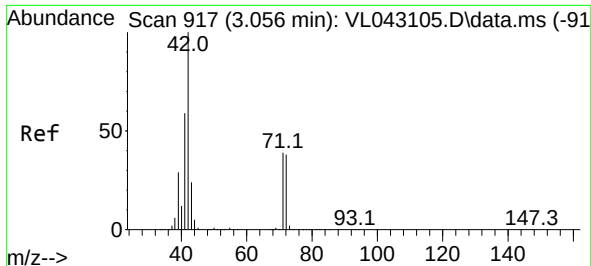
Tgt Ion: 63 Resp: 108446
 Ion Ratio Lower Upper
 63 100
 41 72.5 58.0 87.0
 62 68.4 54.7 82.1



#40
 1,4-Dioxane
 Concen: 9.153 ppbv
 RT: 4.583 min Scan# 1389
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 88 Resp: 48201
 Ion Ratio Lower Upper
 88 100
 58 74.3 61.1 91.7
 43 33.3 24.0 36.0
 57 0.0 0.0 0.0

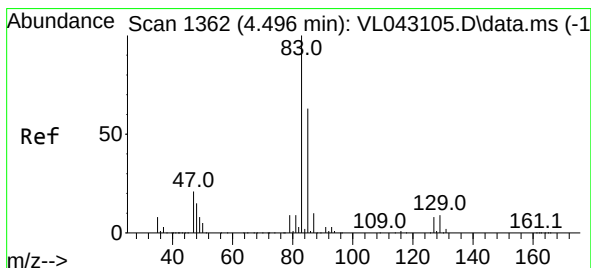
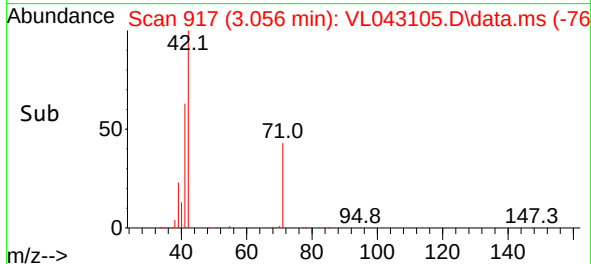
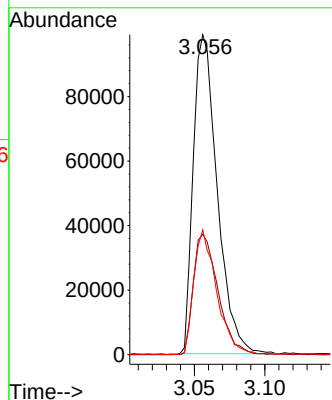
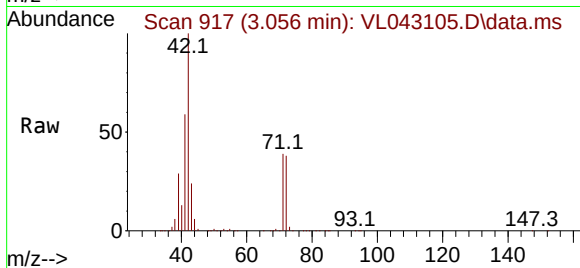




#41
Tetrahydrofuran
Concen: 9.076 ppbv
RT: 3.056 min Scan# 917
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

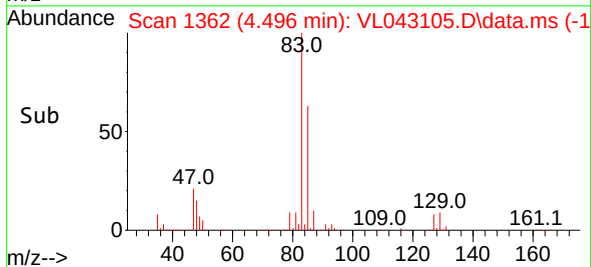
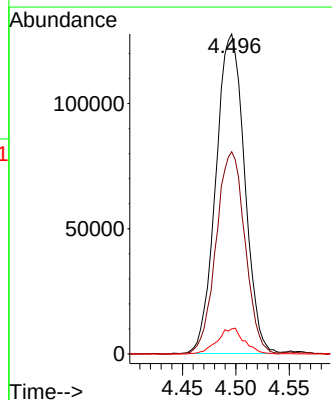
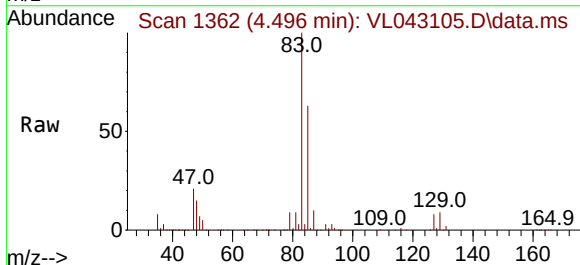
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

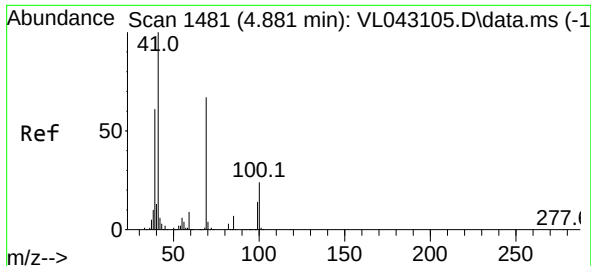
Tgt Ion: 42 Resp: 117069
Ion Ratio Lower Upper
42 100
72 39.1 31.3 46.9
71 37.8 30.4 45.6



#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 238353
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 7.9 6.3 9.5

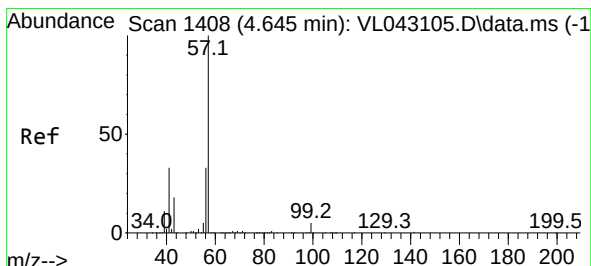
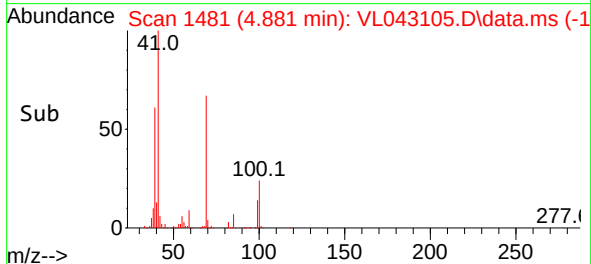
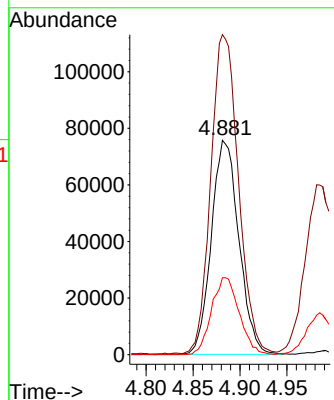
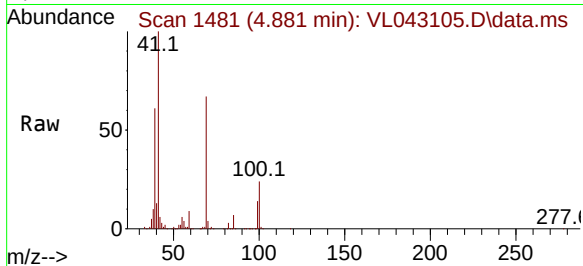




#43
Methyl Methacrylate
Concen: 9.371 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

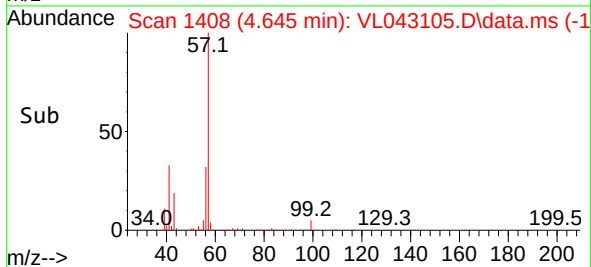
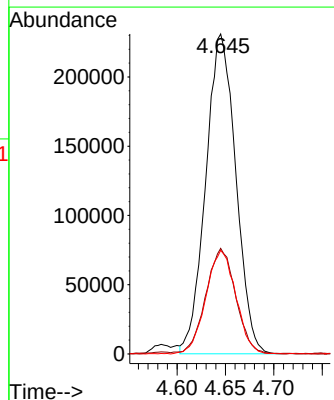
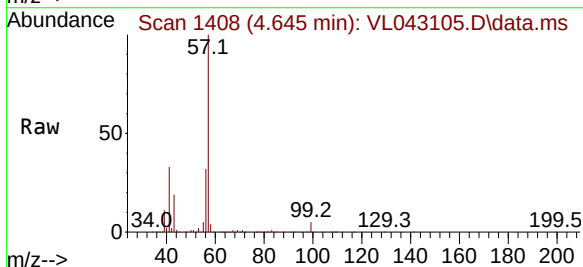
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

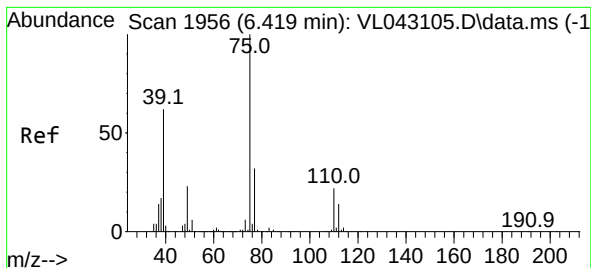
Tgt Ion: 69 Resp: 153927
Ion Ratio Lower Upper
69 100
41 149.8 120.5 180.7
100 36.2 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 9.273 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 499148
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 32.1 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.620 ppbv

RT: 6.419 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

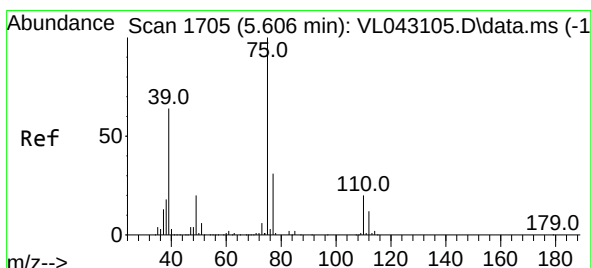
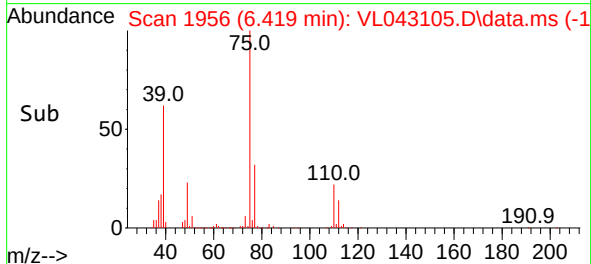
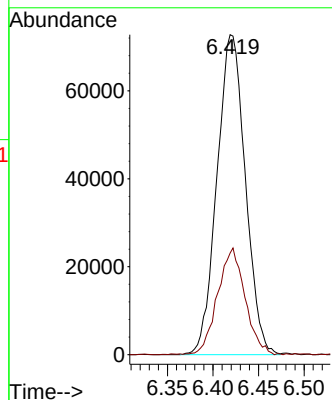
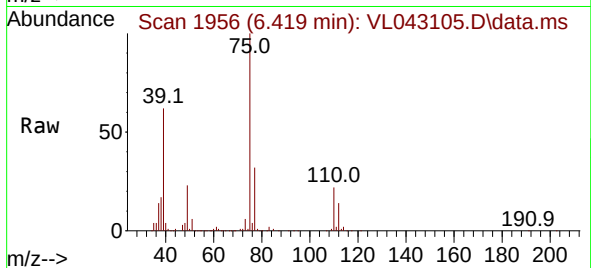
VSTDICCC010

Tgt Ion: 75 Resp: 157856

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 9.525 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

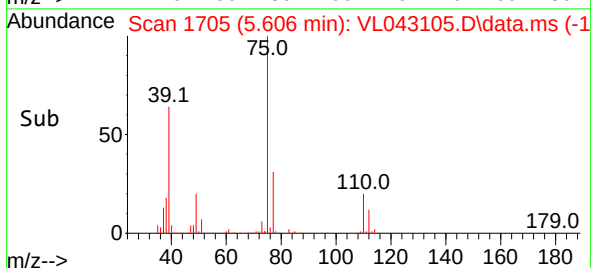
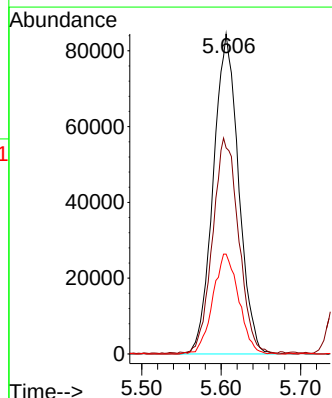
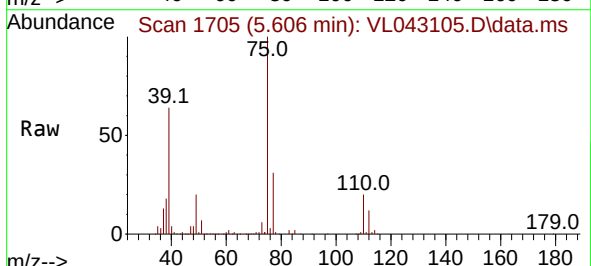
Tgt Ion: 75 Resp: 186533

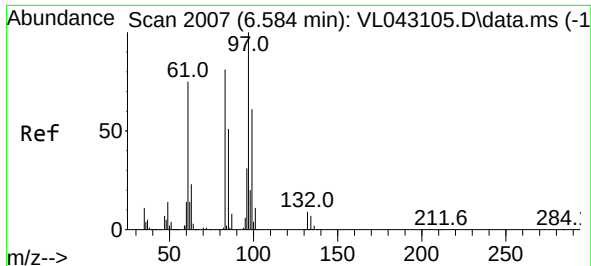
Ion Ratio Lower Upper

75 100

39 63.8 51.0 76.6

77 31.2 25.0 37.4



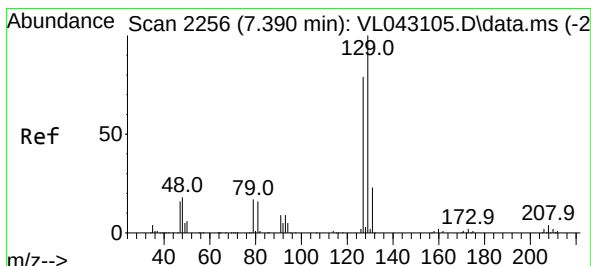
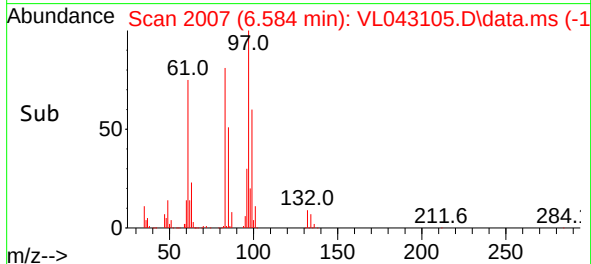
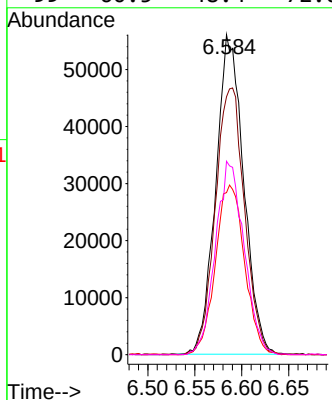
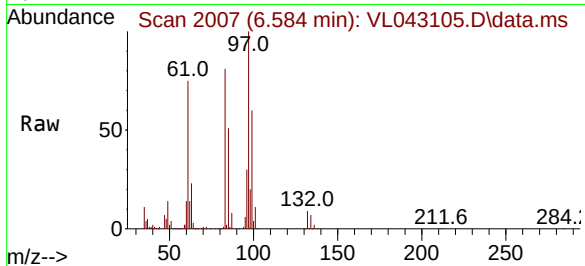


#47
 1,1,2-Trichloroethane
 Concen: 9.082 ppbv
 RT: 6.584 min Scan# 2007
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 97 Resp: 115419

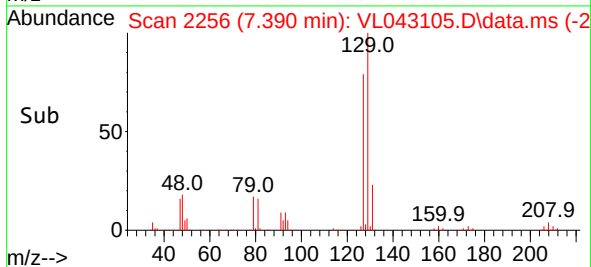
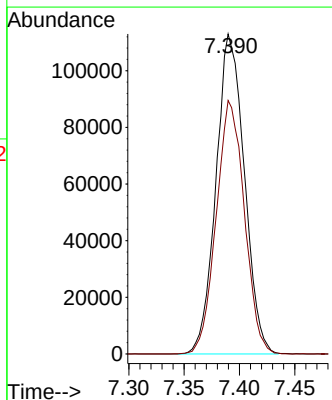
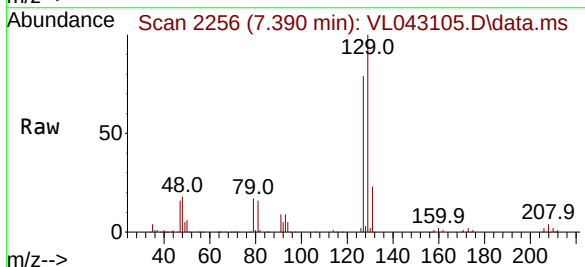
Ion	Ratio	Lower	Upper
97	100		
83	80.7	64.6	96.8
85	50.7	40.6	60.8
99	60.5	48.4	72.6

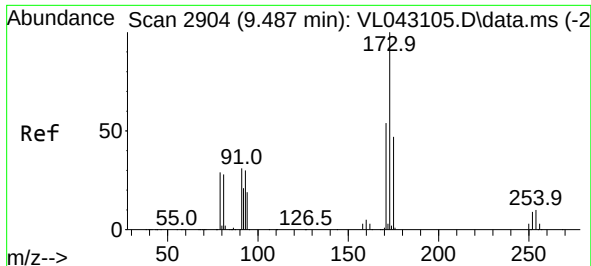


#48
 Dibromochloromethane
 Concen: 9.476 ppbv
 RT: 7.390 min Scan# 2256
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 129 Resp: 201349

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9

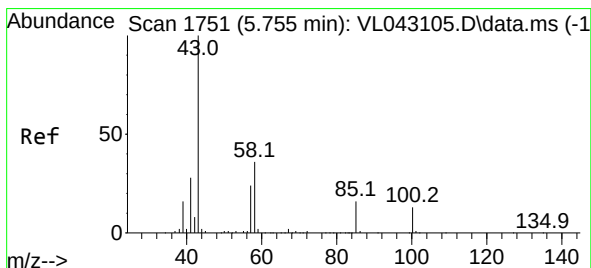
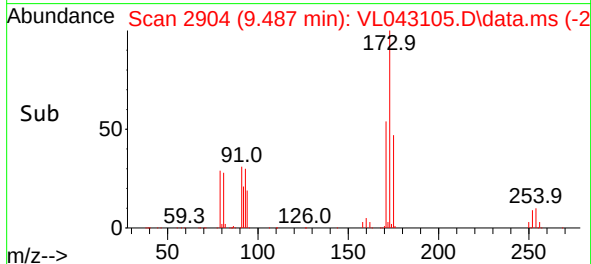
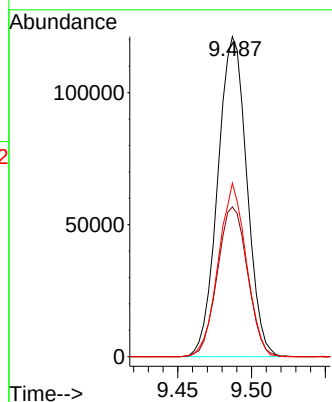
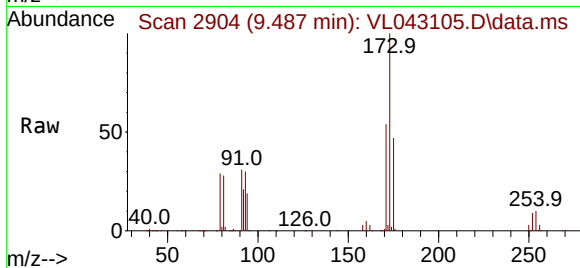




#49
Bromoform
Concen: 9.633 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

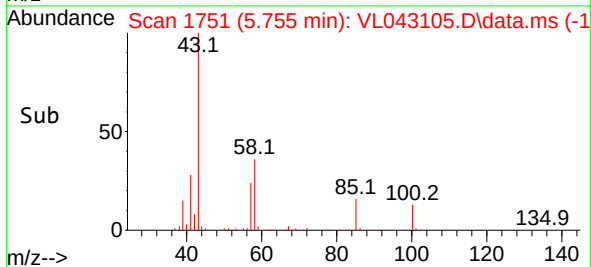
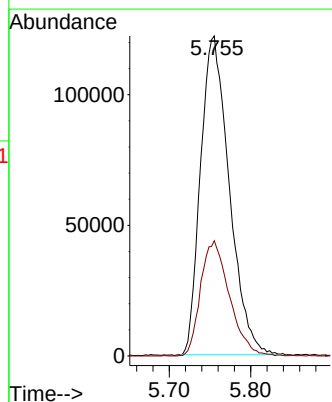
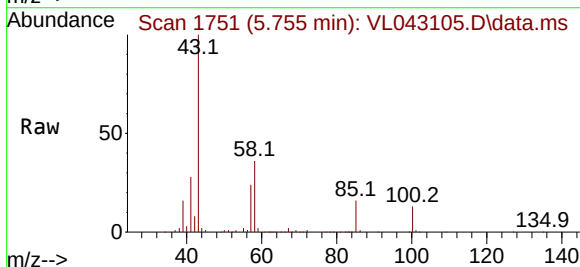
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

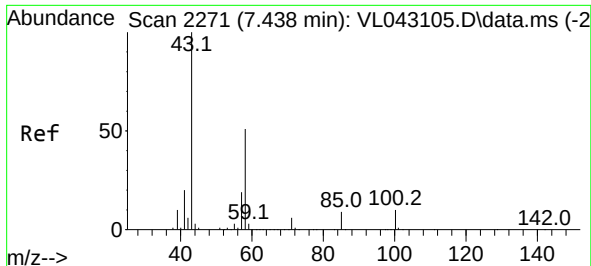
Tgt Ion:173 Resp: 166377
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
171 52.1 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 9.362 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 298401
Ion Ratio Lower Upper
43 100
58 36.3 29.1 43.7

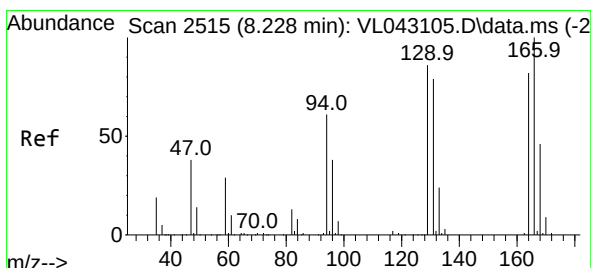
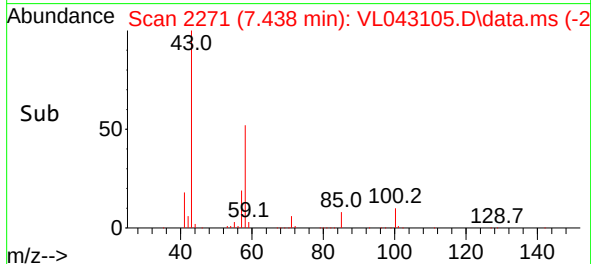
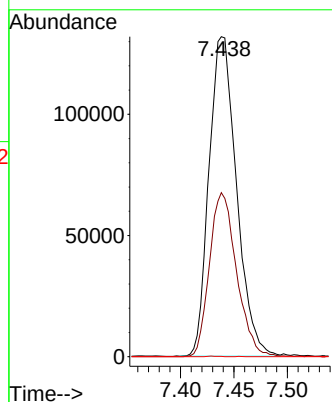
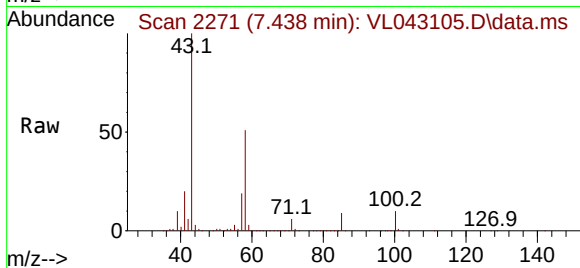




#51
2-Hexanone
Concen: 9.940 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

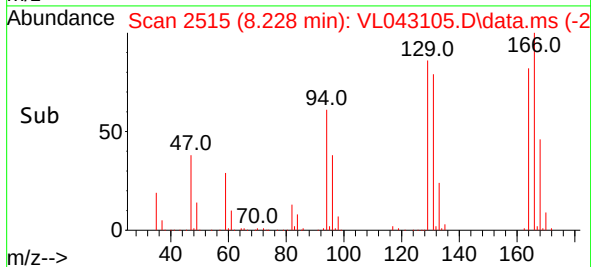
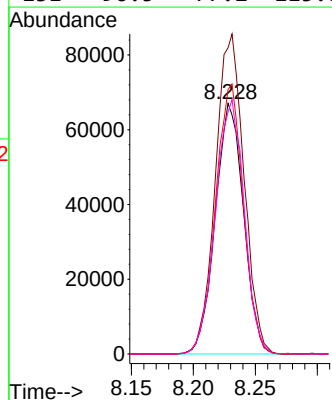
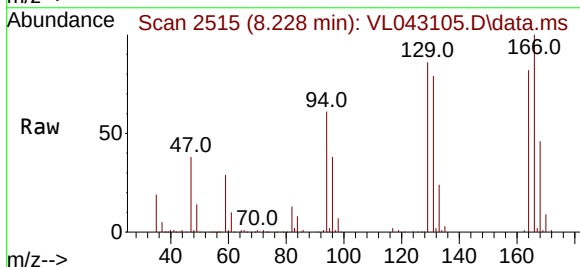
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

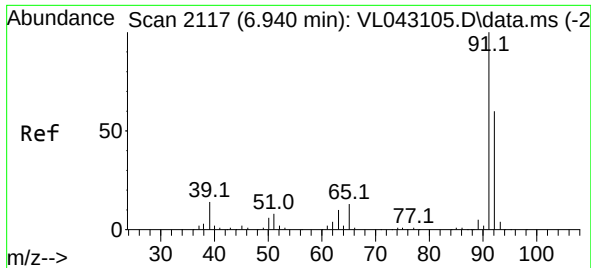
Tgt Ion: 43 Resp: 236391
Ion Ratio Lower Upper
43 100
58 50.6 40.4 60.6
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 9.192 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 164 Resp: 106710
Ion Ratio Lower Upper
164 100
166 122.0 97.6 146.4
129 105.6 84.5 126.7
131 96.5 77.2 115.8

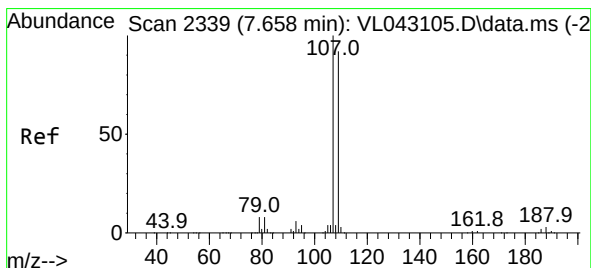
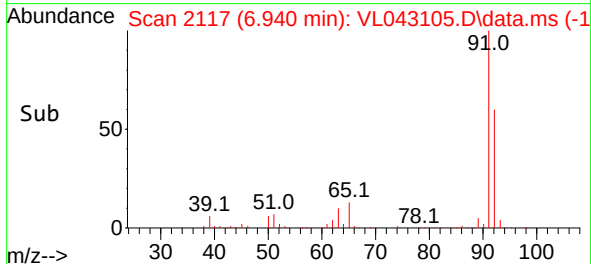
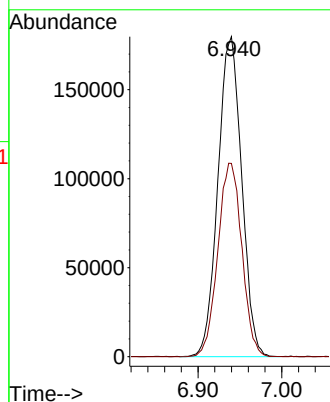
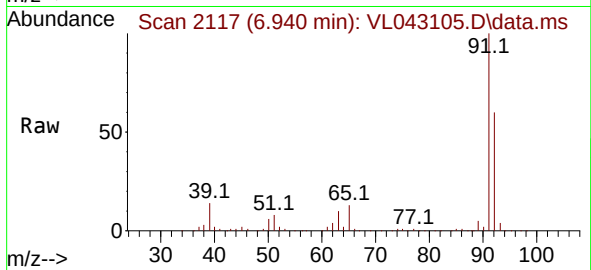




#53
Toluene
Concen: 9.266 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

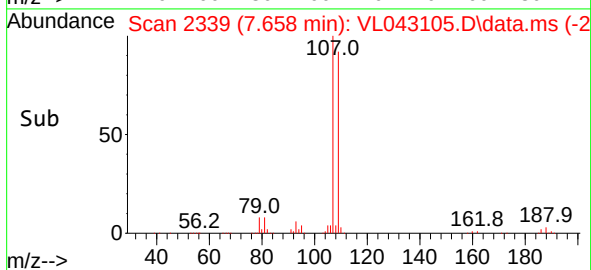
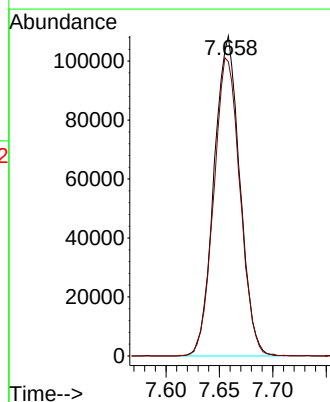
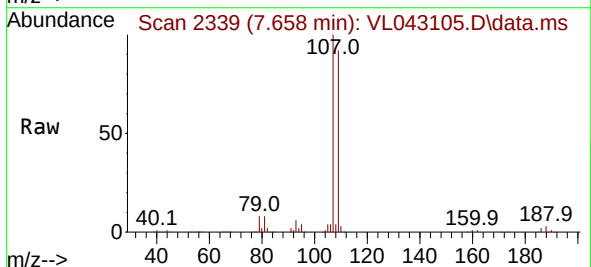
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

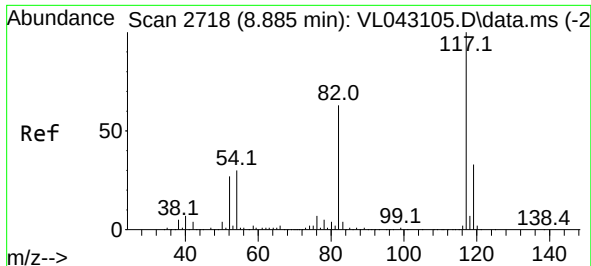
Tgt Ion: 91 Resp: 354007
Ion Ratio Lower Upper
91 100
92 61.0 48.8 73.2



#54
1,2-Dibromoethane
Concen: 9.080 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 107 Resp: 182074
Ion Ratio Lower Upper
107 100
109 91.8 73.4 110.2

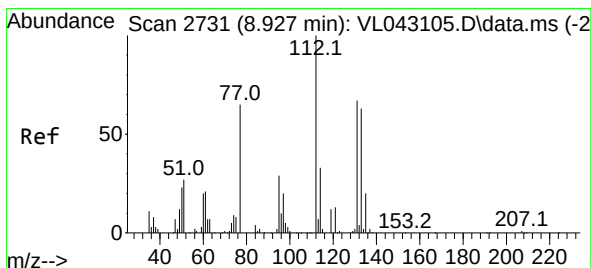
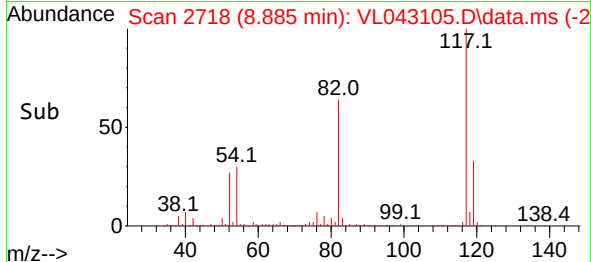
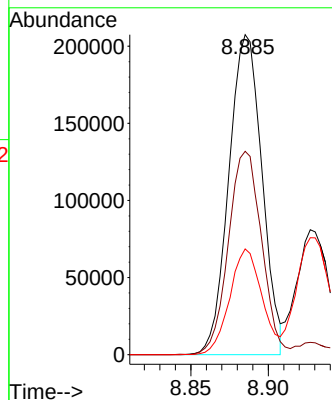
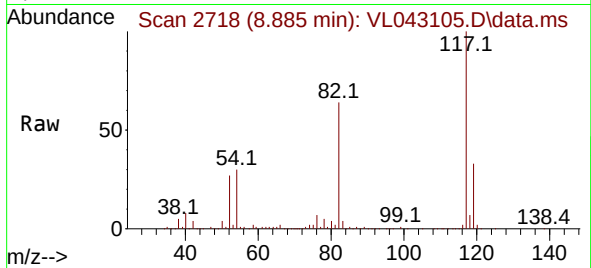




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

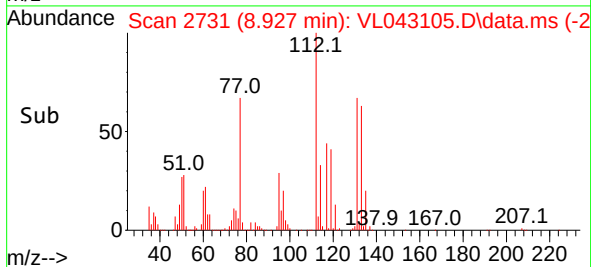
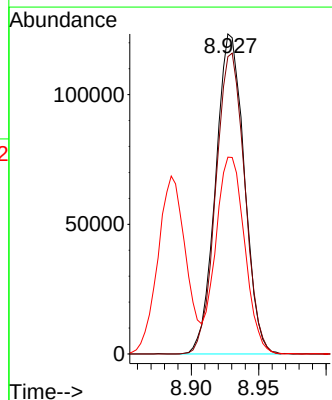
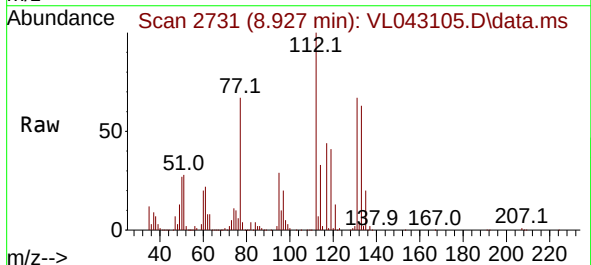
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

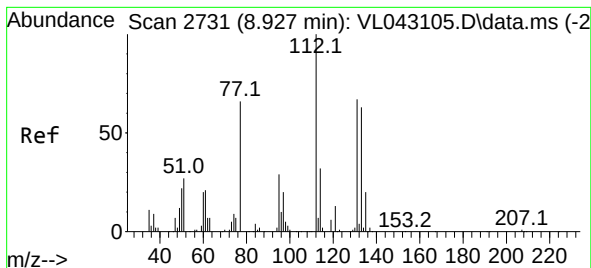
Tgt Ion:117 Resp: 309230
Ion Ratio Lower Upper
117 100
82 67.3 53.8 80.8
119 33.4 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 9.367 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585
Ion Ratio Lower Upper
131 100
133 94.6 75.7 113.5
119 63.3 50.6 76.0





#57

Chlorobenzene

Concen: 9.076 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

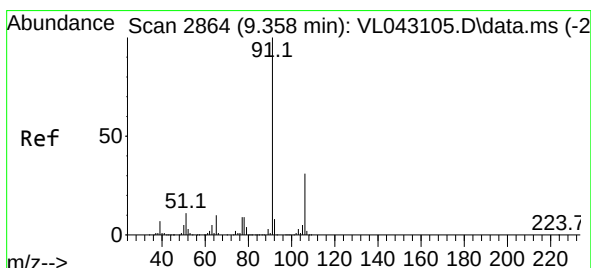
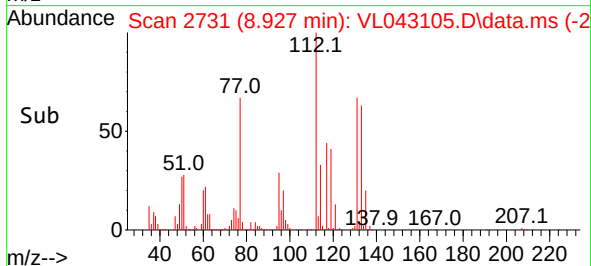
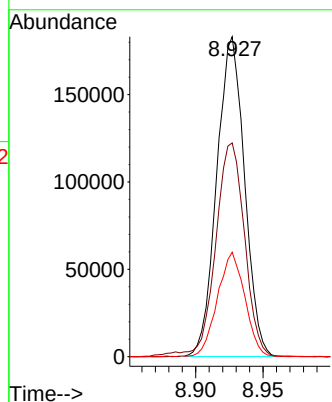
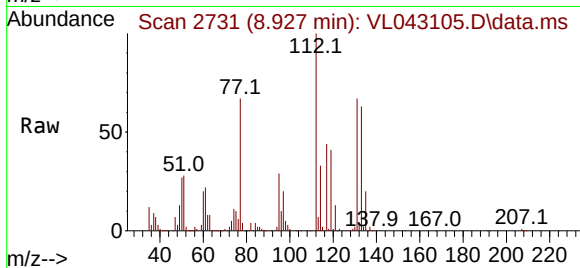
Tgt Ion:112 Resp: 262566

Ion Ratio Lower Upper

112 100

77 66.6 53.3 79.9

114 32.5 29.3 35.8



#58

Ethyl Benzene

Concen: 9.241 ppbv

RT: 9.358 min Scan# 2864

Delta R.T. 0.000 min

Lab File: VL043105.D

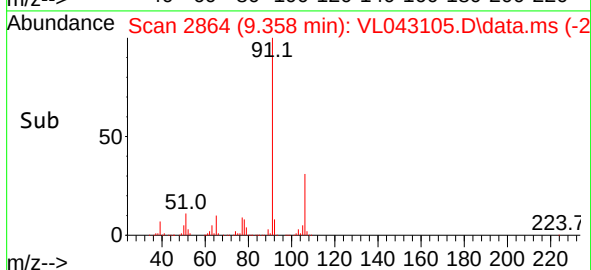
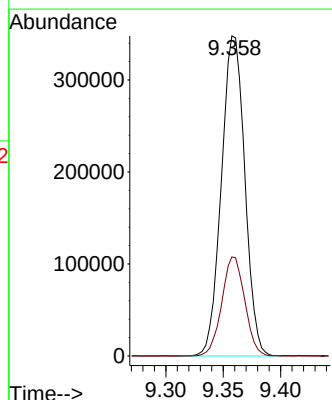
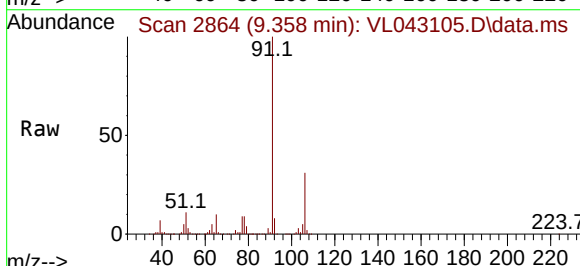
Acq: 14 Oct 2025 10:31

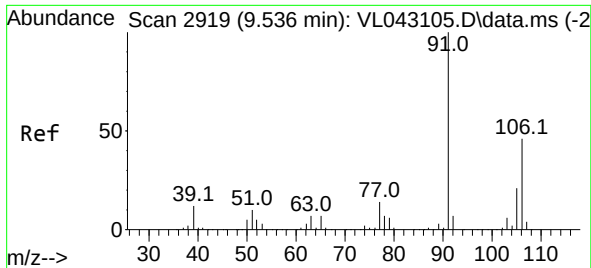
Tgt Ion: 91 Resp: 494344

Ion Ratio Lower Upper

91 100

106 31.0 24.8 37.2

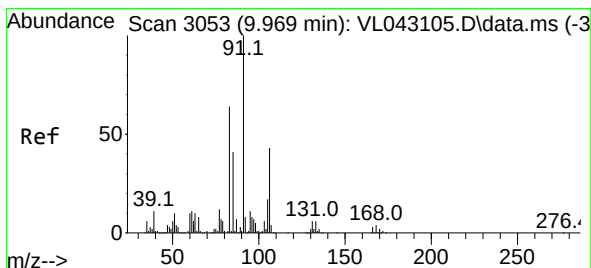
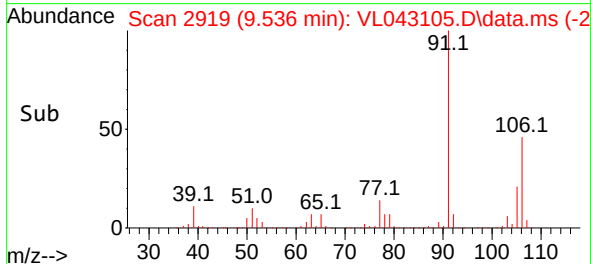
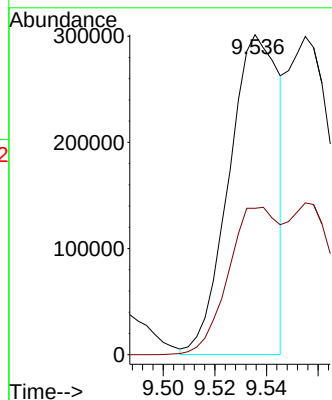
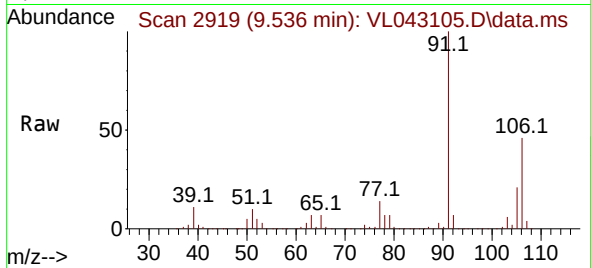




#59
 m/p-Xylene
 Concen: 9.529 ppbv
 RT: 9.536 min Scan# 2919
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

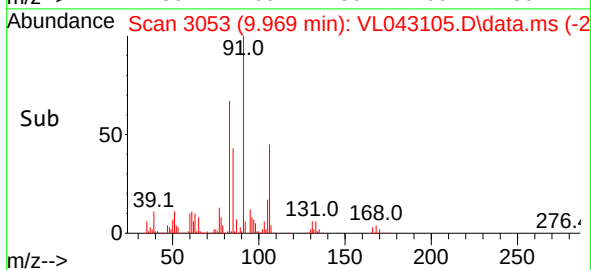
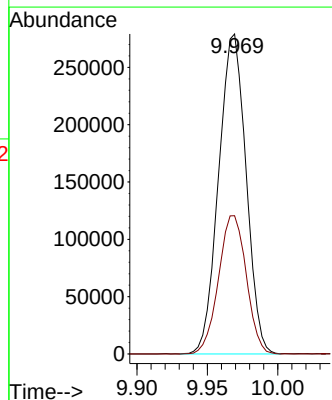
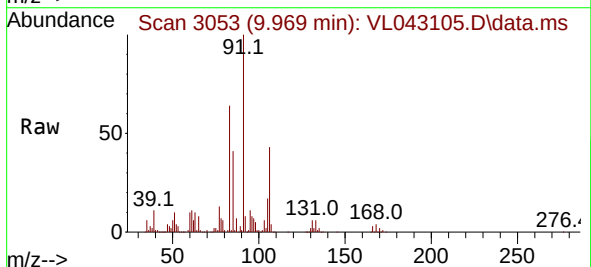
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

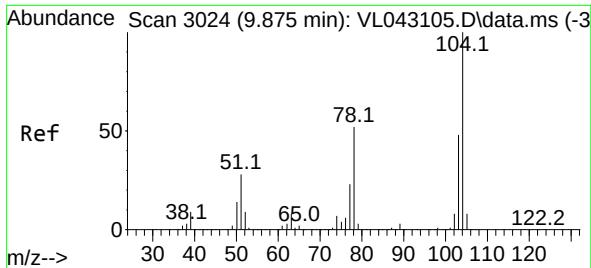
Tgt Ion: 91 Resp: 403670
 Ion Ratio Lower Upper
 91 100
 106 0.0 38.0 57.0#



#60
 o-Xylene
 Concen: 9.053 ppbv
 RT: 9.969 min Scan# 3053
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 378462
 Ion Ratio Lower Upper
 91 100
 106 43.9 21.9 65.8

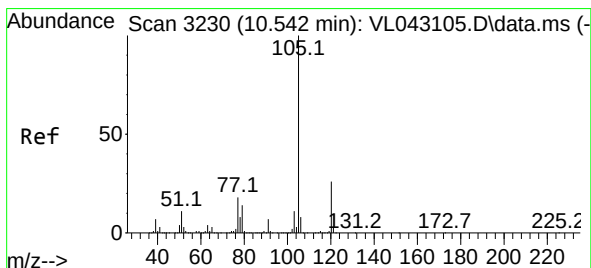
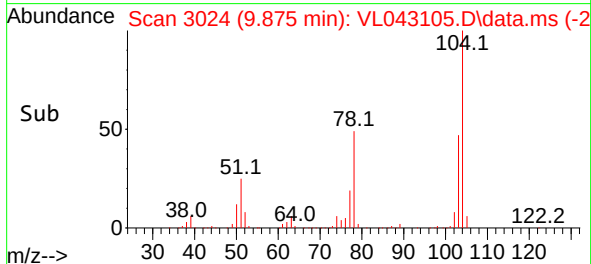
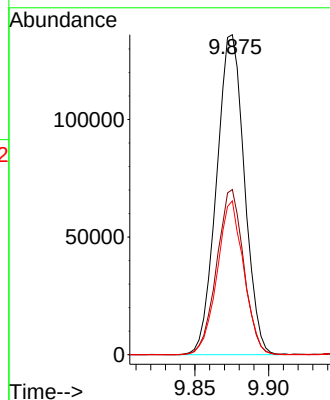
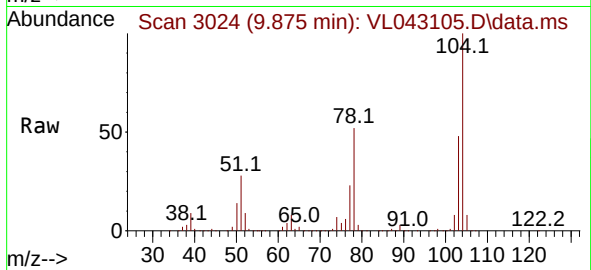




#61
Styrene
Concen: 9.477 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

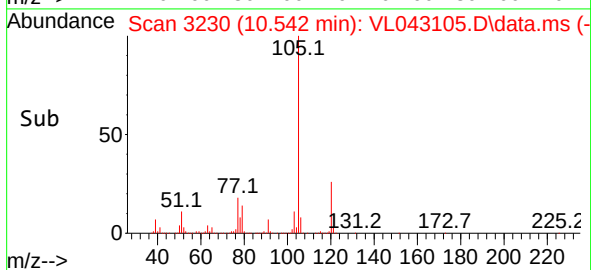
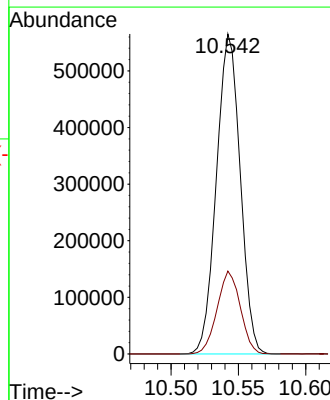
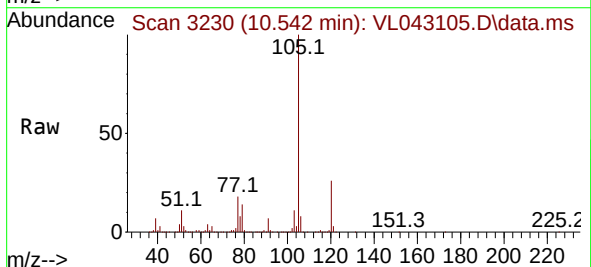
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

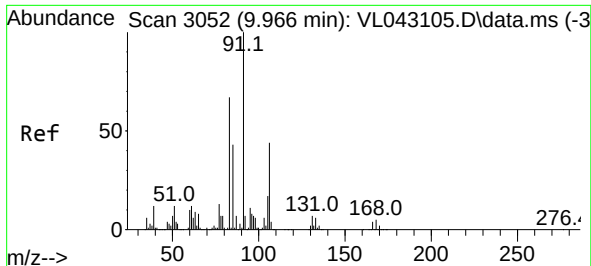
Tgt Ion:104 Resp: 178859
Ion Ratio Lower Upper
104 100
78 50.2 40.2 60.2
103 46.1 36.9 55.3



#62
Isopropylbenzene
Concen: 9.173 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 692992
Ion Ratio Lower Upper
105 100
120 25.3 20.2 30.4

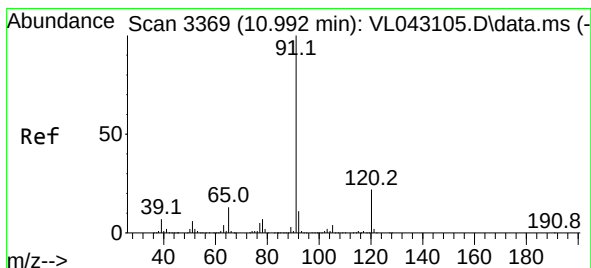
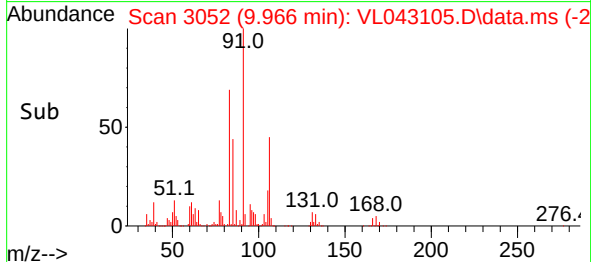
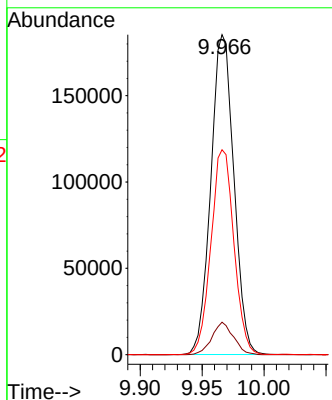
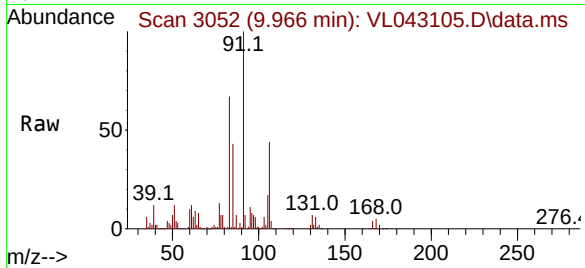




#63
1,1,2,2-Tetrachloroethane
Concen: 8.582 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

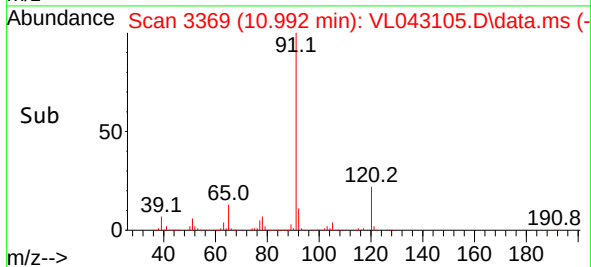
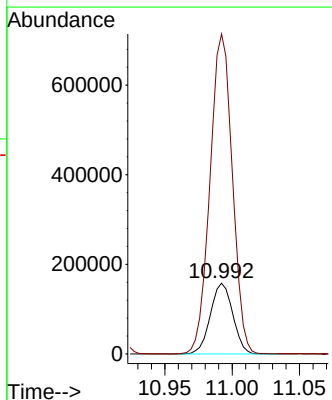
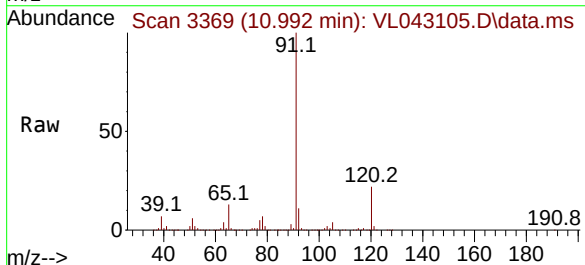
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

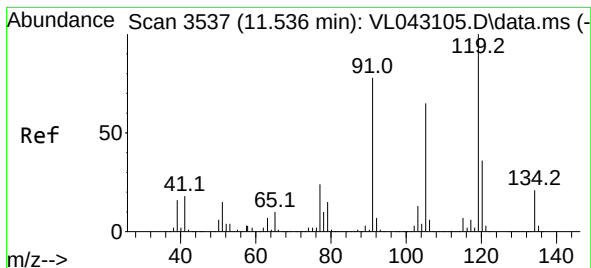
Tgt Ion: 83 Resp: 240245
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.0 32.0 96.0



#64
n-propylbenzene
Concen: 9.112 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:120 Resp: 182233
Ion Ratio Lower Upper
120 100
91 452.0 361.6 542.4





#65

tert-Butylbenzene

Concen: 8.810 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

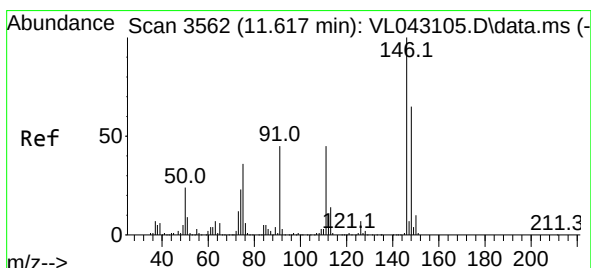
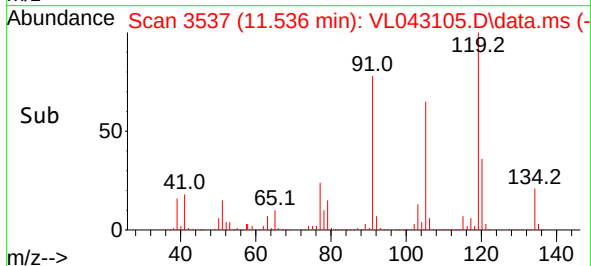
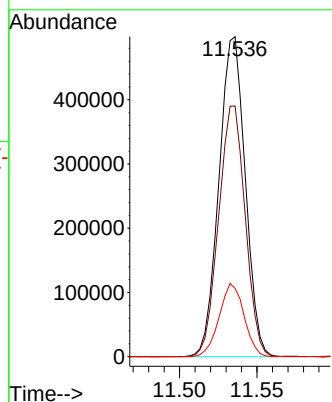
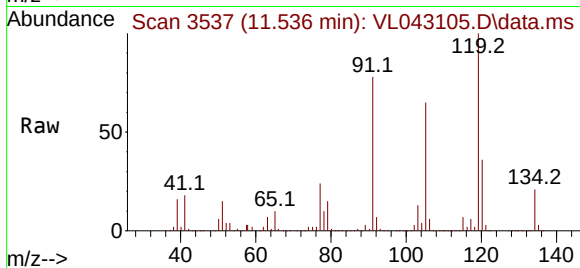
Tgt Ion:119 Resp: 587750

Ion Ratio Lower Upper

119 100

91 79.1 63.4 95.0

134 21.6 17.3 25.9



#66

Benzyl Chloride

Concen: 10.009 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

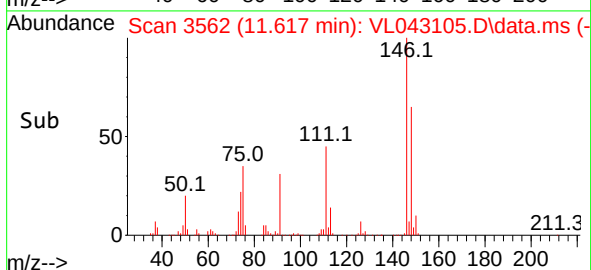
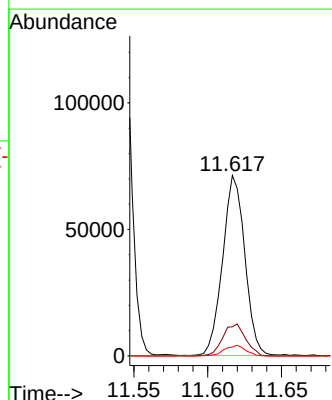
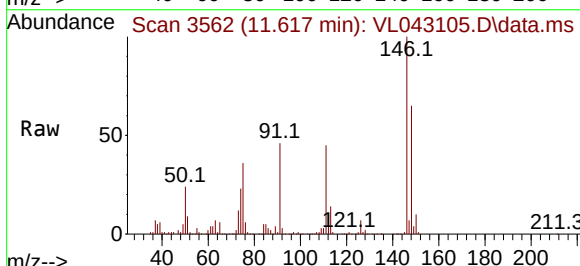
Tgt Ion: 91 Resp: 74574

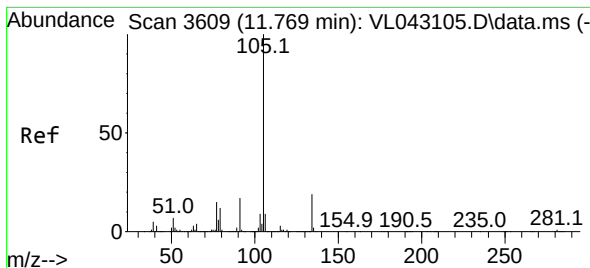
Ion Ratio Lower Upper

91 100

126 18.3 14.6 22.0

128 5.7 4.6 6.8





#67

sec-Butylbenzene

Concen: 8.809 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_1

ClientSampleId :

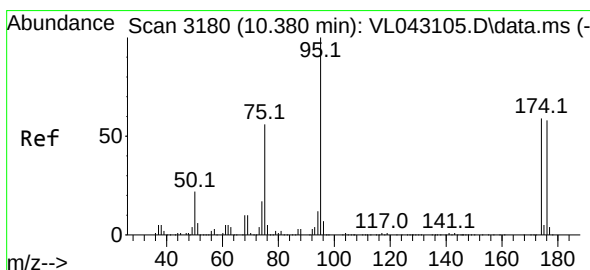
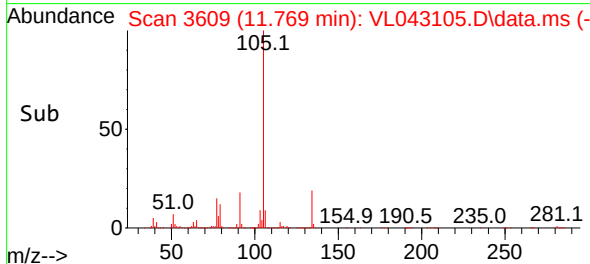
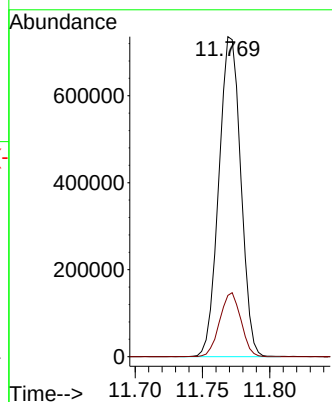
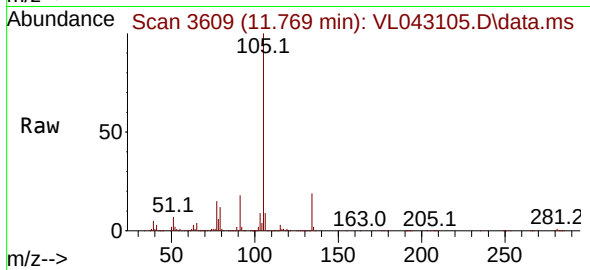
VSTDICCC010

Tgt Ion:105 Resp: 834052

Ion Ratio Lower Upper

105 100

134 19.4 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.046 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

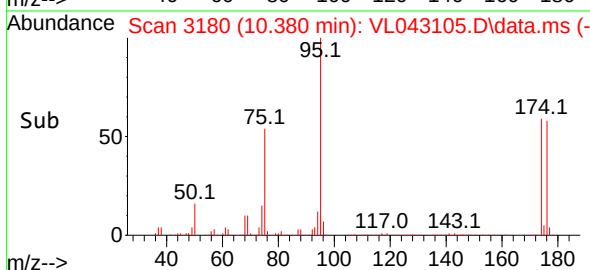
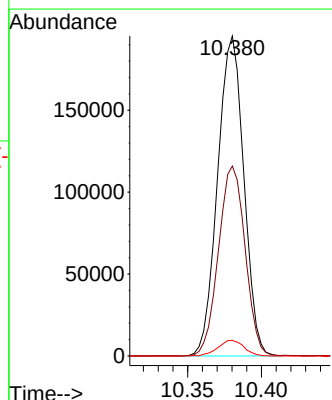
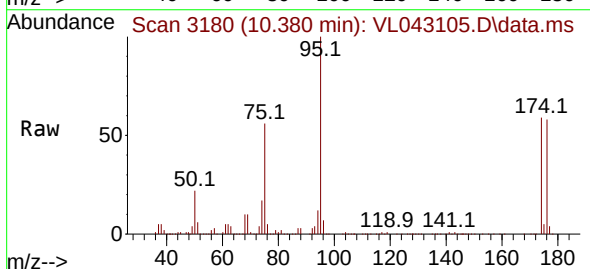
Tgt Ion: 95 Resp: 241468

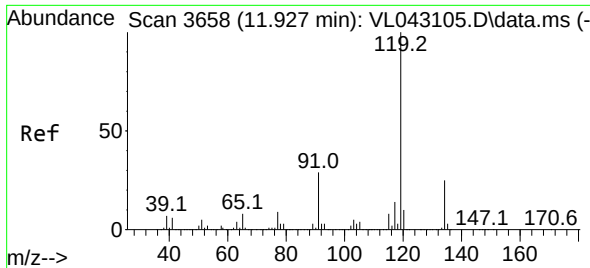
Ion Ratio Lower Upper

95 100

174 60.4 48.3 72.5

175 4.8 3.8 5.8

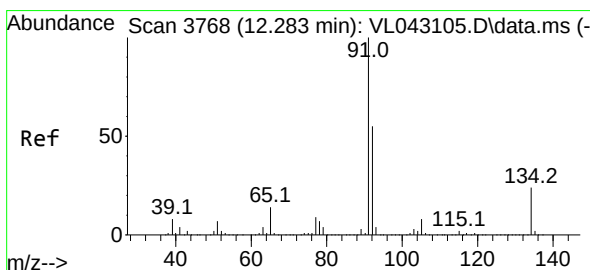
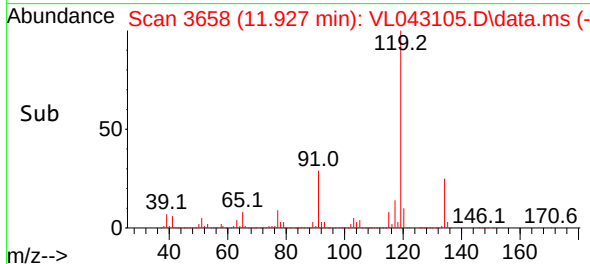
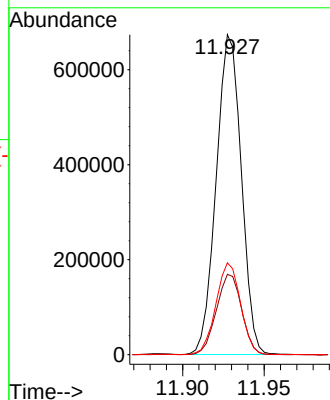
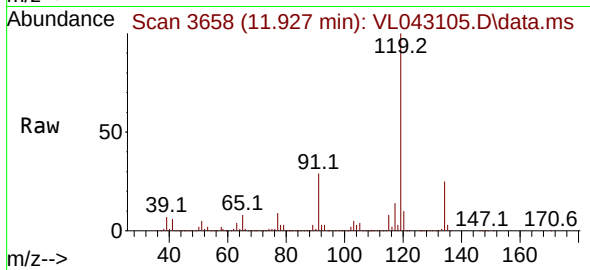




#69
 p-Isopropyltoluene
 Concen: 8.955 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

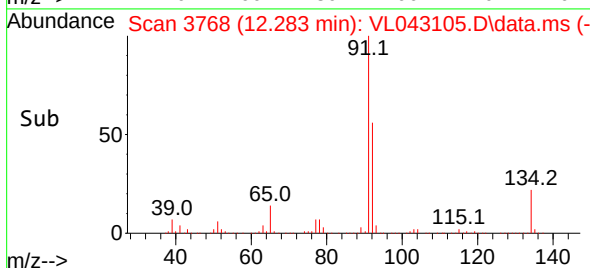
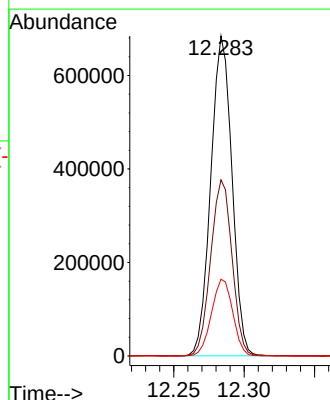
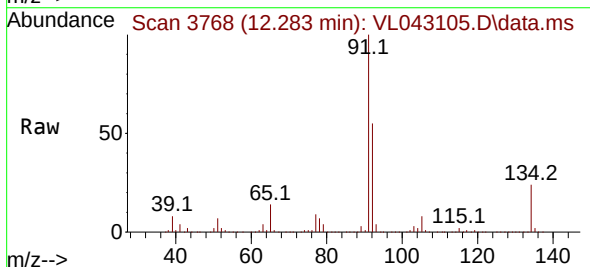
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

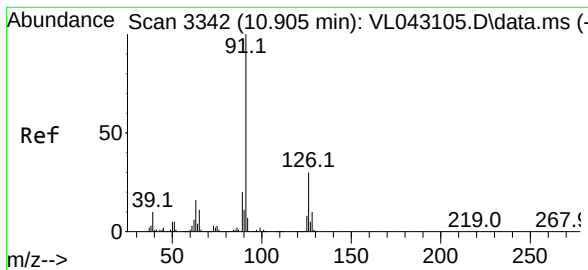
Tgt Ion:119 Resp: 720433
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.3 30.5
 91 28.3 22.6 33.8



#70
 n-Butylbenzene
 Concen: 9.053 ppbv
 RT: 12.283 min Scan# 3768
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 717743
 Ion Ratio Lower Upper
 91 100
 92 55.6 44.5 66.7
 134 24.1 19.3 28.9

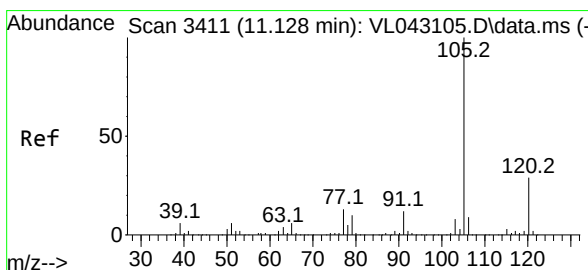
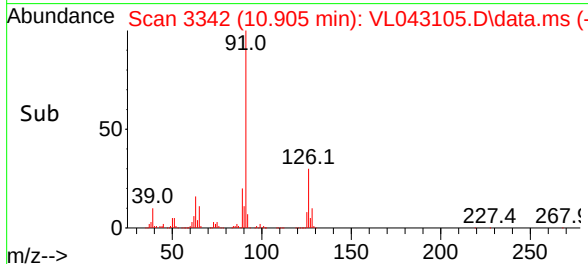
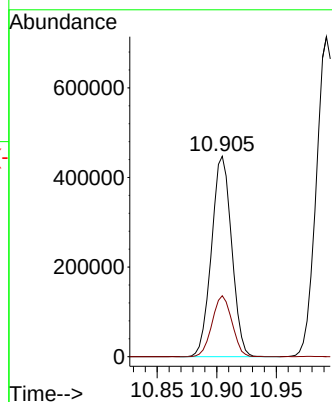
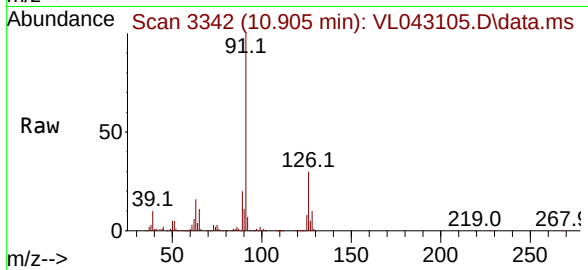




#71
2-Chlorotoluene
Concen: 9.111 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

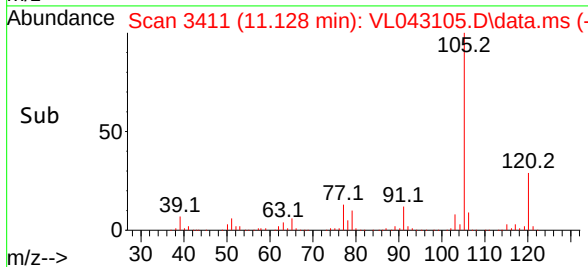
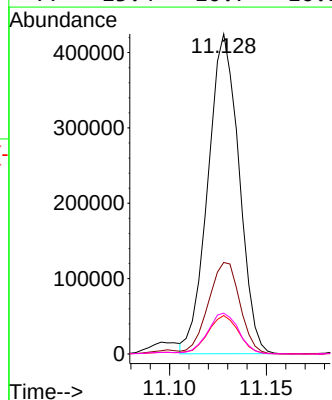
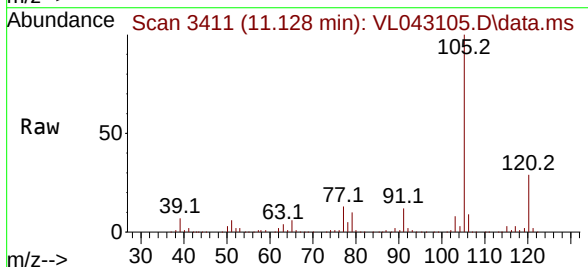
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

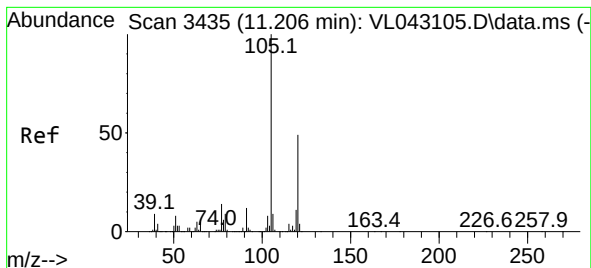
Tgt Ion: 91 Resp: 524961
Ion Ratio Lower Upper
91 100
126 30.0 12.0 48.0



#72
4-Ethyltoluene
Concen: 9.202 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 105 Resp: 473042
Ion Ratio Lower Upper
105 100
120 30.3 24.2 36.4
91 12.5 10.0 15.0
77 13.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.195 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_1

ClientSampleId :

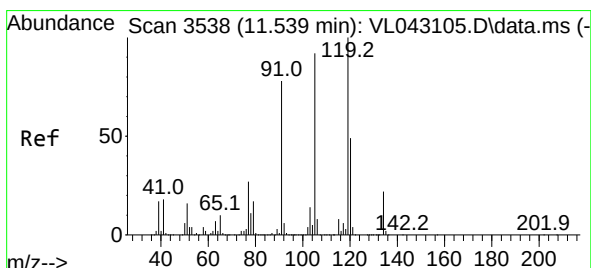
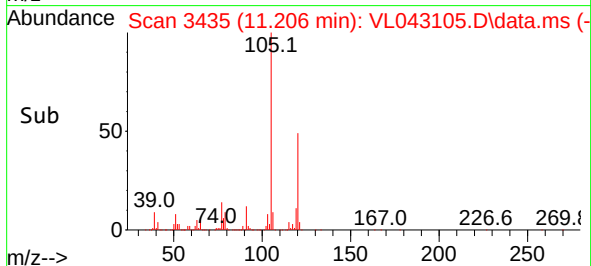
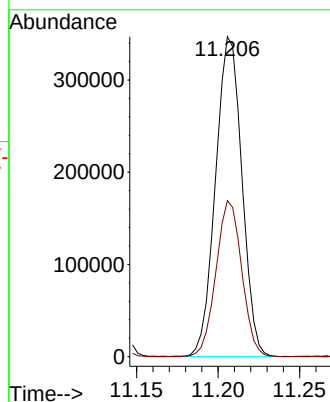
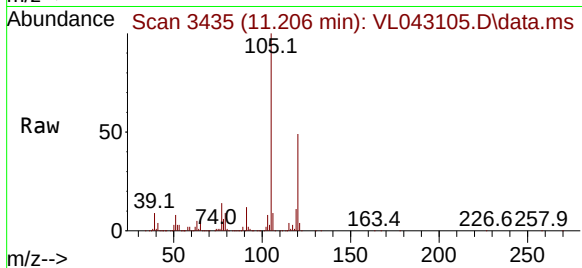
VSTDICCC010

Tgt Ion:105 Resp: 389818

Ion Ratio Lower Upper

105 100

120 48.8 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 8.676 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619

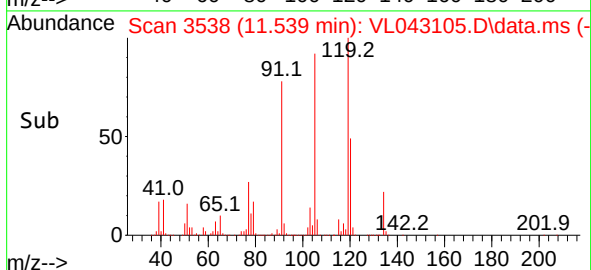
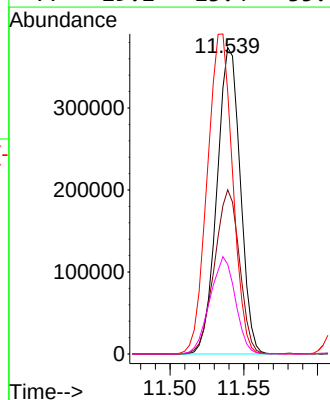
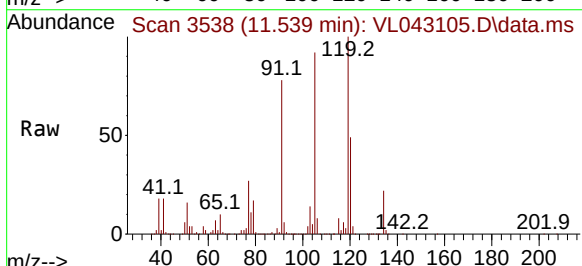
Ion Ratio Lower Upper

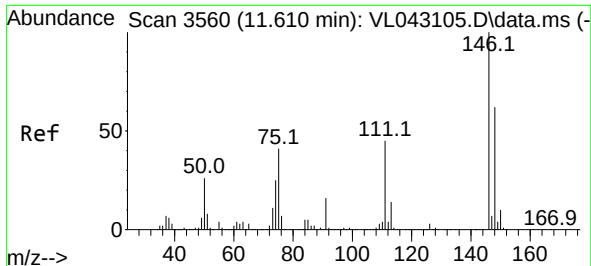
105 100

120 53.5 42.8 64.2

91 85.4 68.3 102.5

77 29.2 23.4 35.0

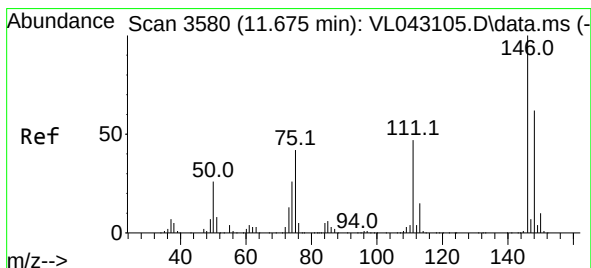
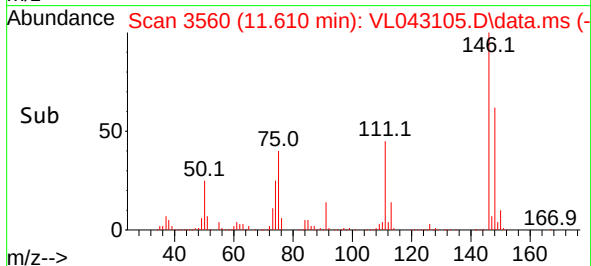
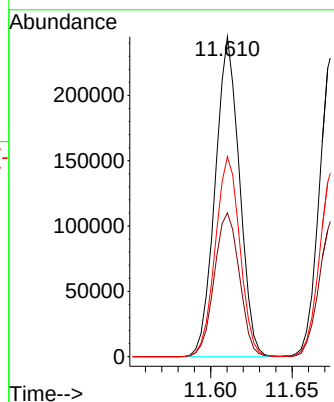
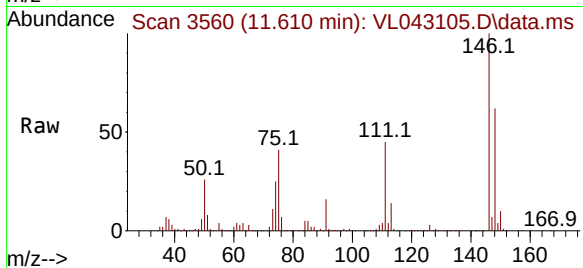




#75
1,3-Dichlorobenzene
Concen: 9.192 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

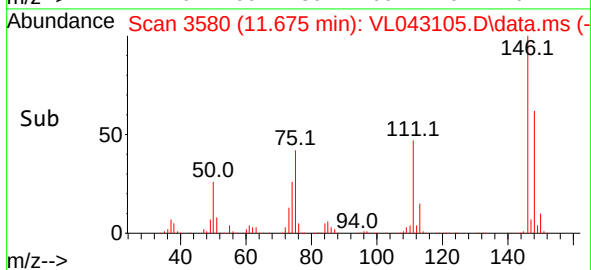
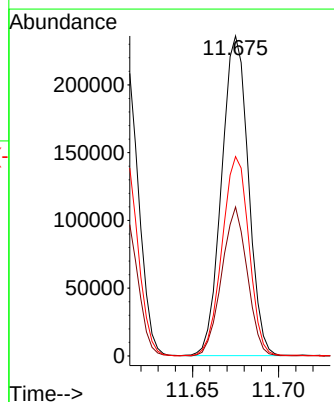
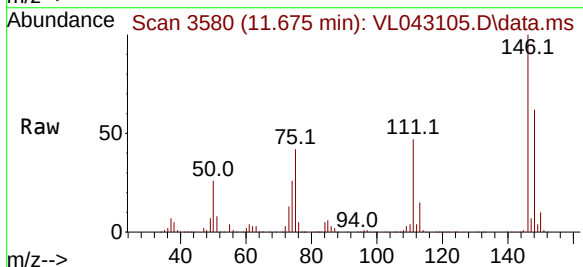
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

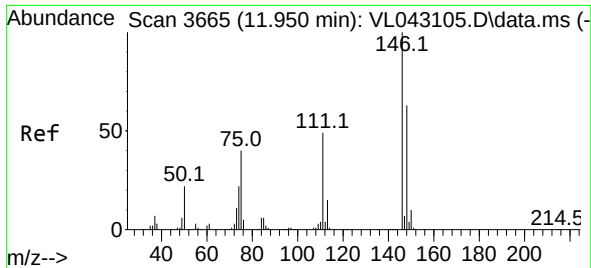
Tgt Ion:146 Resp: 252926
Ion Ratio Lower Upper
146 100
111 46.6 23.3 69.9
148 63.3 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 9.171 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:146 Resp: 254461
Ion Ratio Lower Upper
146 100
111 44.7 22.4 67.0
148 63.1 31.6 94.7

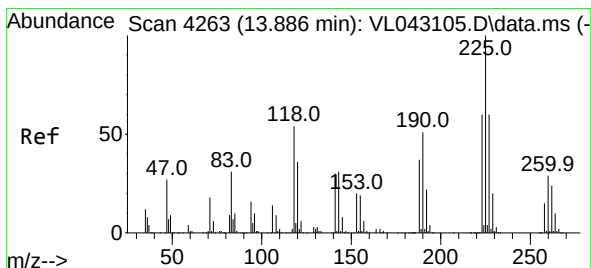
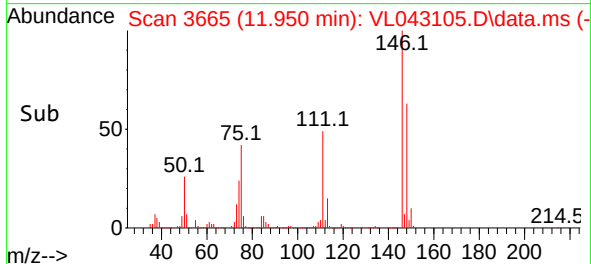
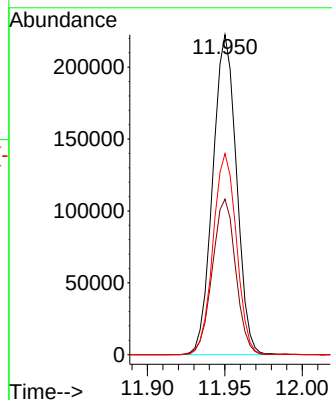
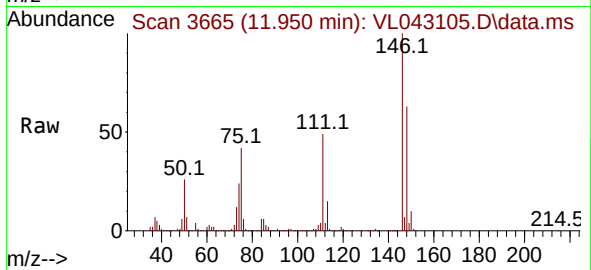




#77
1,2-Dichlorobenzene
Concen: 8.893 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

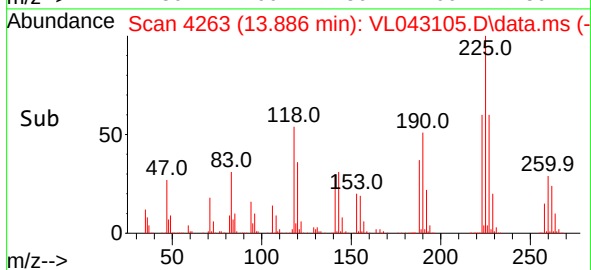
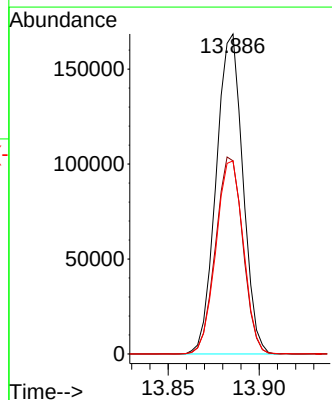
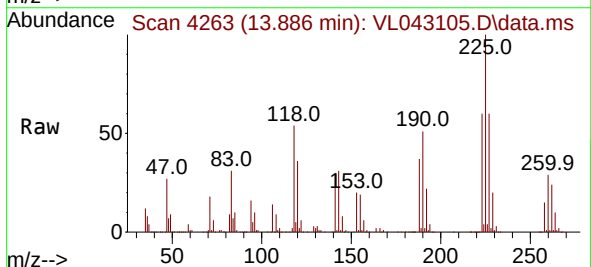
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

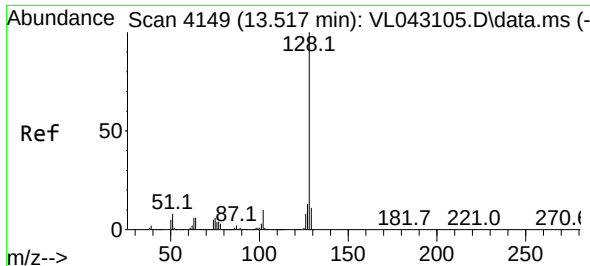
Tgt Ion:146 Resp: 236724
Ion Ratio Lower Upper
146 100
111 48.0 24.0 72.0
148 62.2 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 8.334 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:225 Resp: 171777
Ion Ratio Lower Upper
225 100
223 62.8 50.2 75.4
227 62.0 49.6 74.4

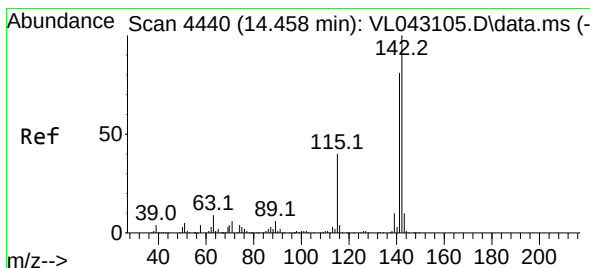
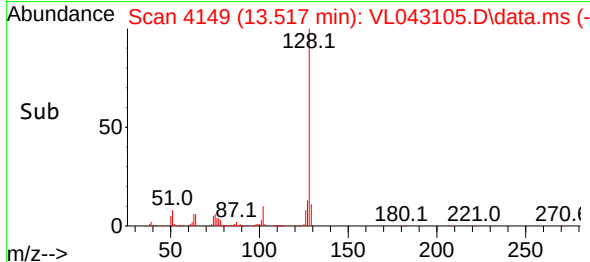
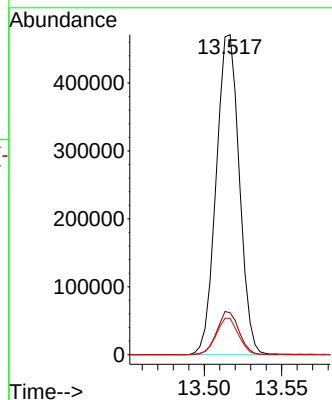
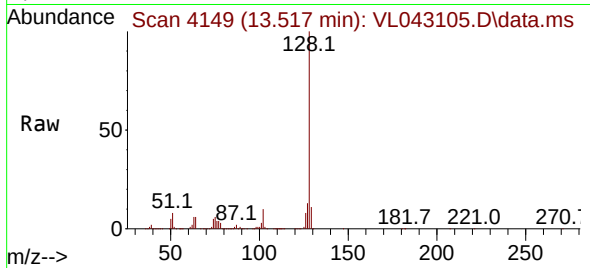




#79
Naphthalene
Concen: 9.972 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

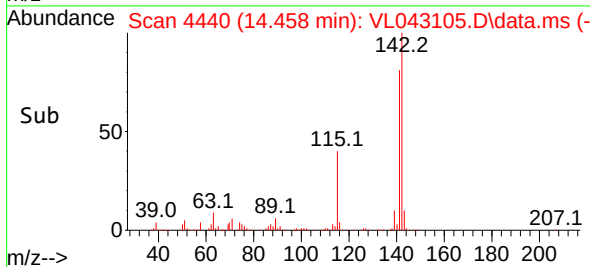
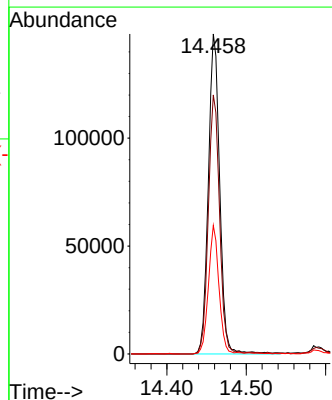
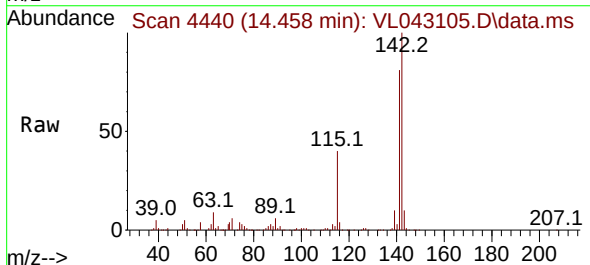
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

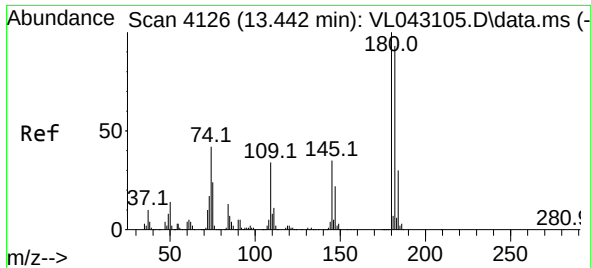
Tgt Ion:128 Resp: 488672
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 11.4 9.1 13.7



#80
Naphthalene,2-methyl-
Concen: 11.431 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:142 Resp: 147897
Ion Ratio Lower Upper
142 100
141 80.8 64.6 97.0
115 37.8 30.2 45.4





#81

1,2,4-Trichlorobenzene

Concen: 9.582 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL043105.D

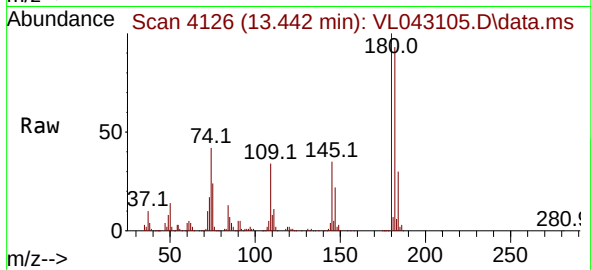
Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



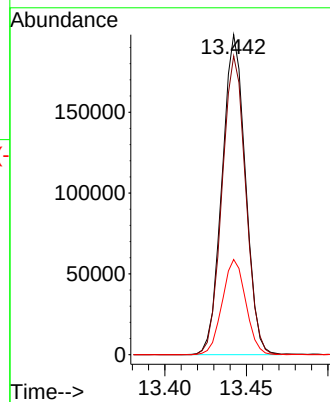
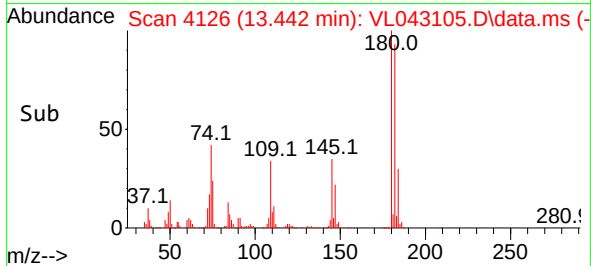
Tgt Ion:180 Resp: 197210

Ion Ratio Lower Upper

180 100

182 94.4 75.5 113.3

184 29.9 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	105309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	342939	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	313603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 244329 10.024 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	31189	2.083	ppbv	99
3) Chlorodifluoromethane	1.476	51	33217	2.050	ppbv	96
4) Chloromethane	1.535	50	12185	2.054	ppbv	93
5) Vinyl Chloride	1.583	62	11114	1.911	ppbv	92
6) Bromomethane	1.671	94	6672	2.092	ppbv	95
7) Chloroethane	1.706	64	5008	2.106	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	25897	2.140	ppbv	100
9) Propene	1.486	41	15177	2.112	ppbv	94
10) Heptane	4.982	43	42790	2.078	ppbv	97
11) Trichlorofluoromethane	1.881	101	31114	2.125	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	25091	2.128	ppbv	100
13) Ethanol	1.722	45	6363	2.394	ppbv	95
14) Bromoethene	1.784	108	9087	2.075	ppbv	97
15) Acetone	1.836	43	31756	2.225	ppbv	97
16) 1,3-Butadiene	1.612	39	13668	2.021	ppbv	99
17) tert-Butyl alcohol	2.043	59	40738	2.091	ppbv	96
18) 1,1-Dichloroethene	2.036	96	10794	2.100	ppbv	99
19) Isopropyl Alcohol	1.888	45	18326	2.073	ppbv #	40
20) Methylene Chloride	2.062	84	10694	1.906	ppbv #	82
21) Allyl Chloride	2.098	41	21902	2.090	ppbv	93
22) trans-1,2-Dichloroethene	2.344	96	12511	2.036	ppbv	98
23) Vinyl Acetate	2.464	43	48282	2.322	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	25066	2.112	ppbv	99
25) Ethyl Acetate	2.836	43	74929	2.129	ppbv	99
26) Hexane	2.829	57	32595	2.010	ppbv	93
27) Carbon Disulfide	2.153	76	31705	2.134	ppbv	95
28) Methyl tert-Butyl Ether	2.441	73	16207	2.196	ppbv	98
29) Chloroform	2.849	83	48367	2.058	ppbv	99
30) Cyclohexane	3.859	84	29270	2.069	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	31925	2.061	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	51049	2.086	ppbv	98
34) 2-Butanone	2.558	43	48458	2.090	ppbv	99
35) Carbon Tetrachloride	3.765	117	51073	2.071	ppbv	97
36) Benzene	3.658	78	70156	2.172	ppbv	98
37) 1,2-Dichloroethane	3.218	62	38767	2.083	ppbv	100
38) Trichloroethene	4.551	130	27272	2.024	ppbv	96
39) 1,2-Dichloropropane	4.315	63	25427	2.151	ppbv	92
40) 1,4-Dioxane	4.584	88	4954	0.938	ppbv #	21
41) Tetrahydrofuran	3.059	42	26362	2.037	ppbv	98
42) Bromodichloromethane	4.496	83	54224	2.106	ppbv #	93
43) Methyl Methacrylate	4.878	69	33805	2.051	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	115417	2.137	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	34728	2.109	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

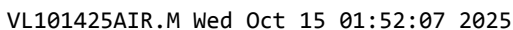
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

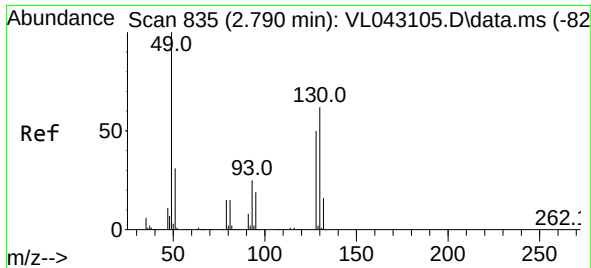
Quant Time: Oct 15 01:51:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	23612	1.202	ppbv	98
47) 1,1,2-Trichloroethane	6.584	97	26359	2.067	ppbv	94
48) Dibromochloromethane	7.390	129	45751	2.146	ppbv	99
49) Bromoform	9.484	173	37314	2.153	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	66811	2.089	ppbv	99
51) 2-Hexanone	7.438	43	50642	2.122	ppbv #	99
52) Tetrachloroethene	8.228	164	24183	2.076	ppbv	91
53) Toluene	6.937	91	80660	2.104	ppbv	99
54) 1,2-Dibromoethane	7.655	107	42320	2.103	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.924	131	41712	2.110	ppbv	94
57) Chlorobenzene	8.924	112	62714	2.138	ppbv	97
58) Ethyl Benzene	9.354	91	114403	2.109	ppbv	99
59) m/p-Xylene	9.532	91	96158	2.238	ppbv #	29
60) o-Xylene	9.963	91	91223	2.152	ppbv	98
61) Styrene	9.872	104	41631	2.175	ppbv	98
62) Isopropylbenzene	10.539	105	164073	2.142	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	58510	2.061	ppbv	99
64) n-propylbenzene	10.989	120	43648	2.152	ppbv	96
65) tert-Butylbenzene	11.529	119	148300	2.192	ppbv	99
66) Benzyl Chloride	11.617	91	15656	2.072	ppbv	98
67) sec-Butylbenzene	11.769	105	210525	2.193	ppbv	99
69) p-Isopropyltoluene	11.928	119	180060	2.207	ppbv	99
70) n-Butylbenzene	12.284	91	178676	2.222	ppbv	98
71) 2-Chlorotoluene	10.902	91	126551	2.166	ppbv	99
72) 4-Ethyltoluene	11.125	105	113233	2.172	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	92650	2.155	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	104352	2.169	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	62709	2.247	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	60877	2.164	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	57304	2.123	ppbv	97
78) Hexachloro-1,3-Butadiene	13.883	225	46796	2.239	ppbv	98
79) Naphthalene	13.514	128	123642	2.488	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	32308	2.462	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	50394	2.414	ppbv	99

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

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

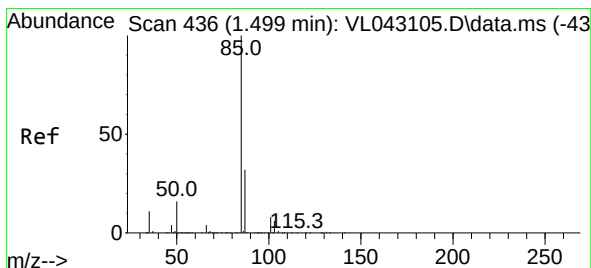
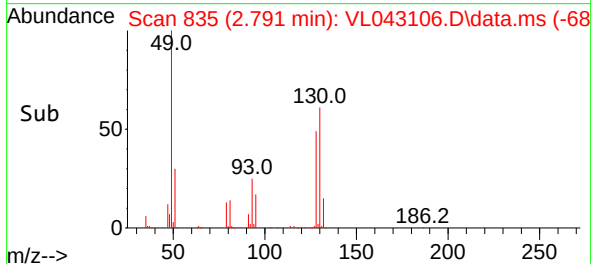
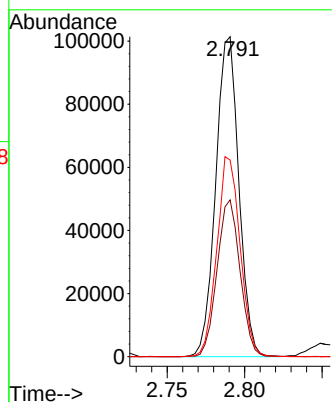
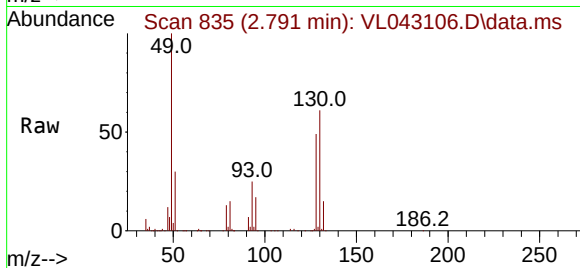




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

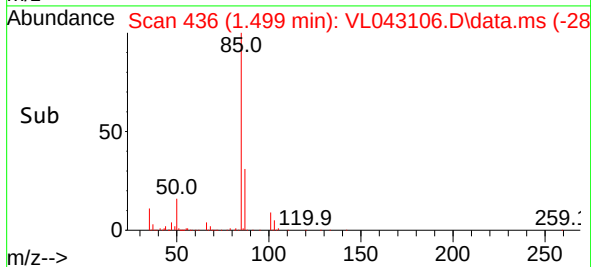
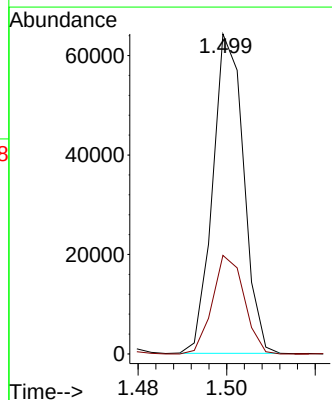
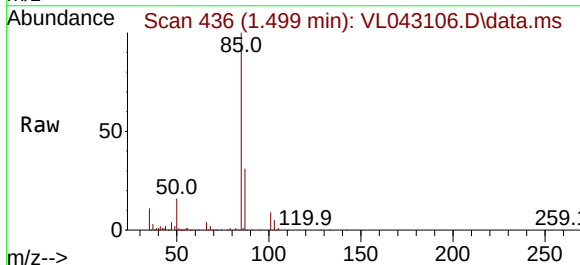
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

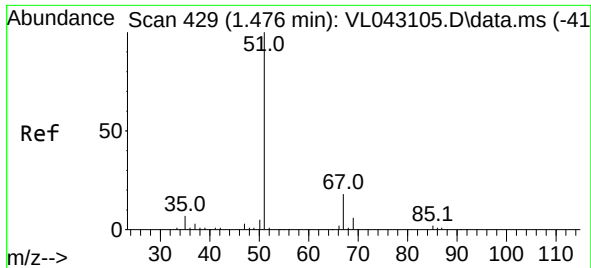
Tgt Ion: 49 Resp: 105309
Ion Ratio Lower Upper
49 100
128 48.8 24.4 73.4
130 62.8 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189
Ion Ratio Lower Upper
85 100
87 30.9 25.3 37.9

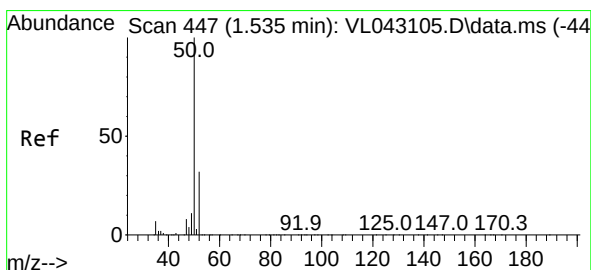
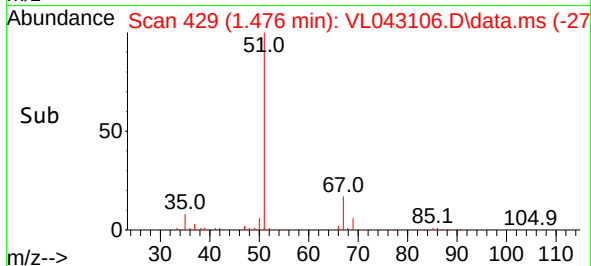
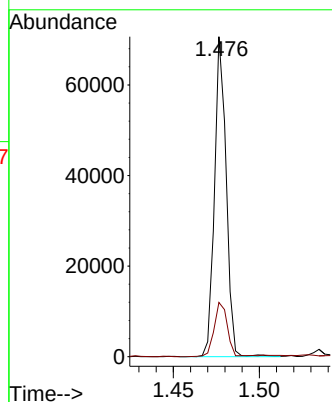
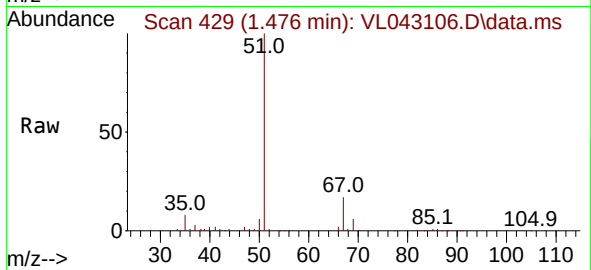




#3
Chlorodifluoromethane
Concen: 2.050 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

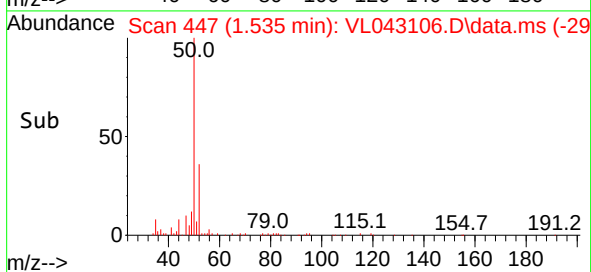
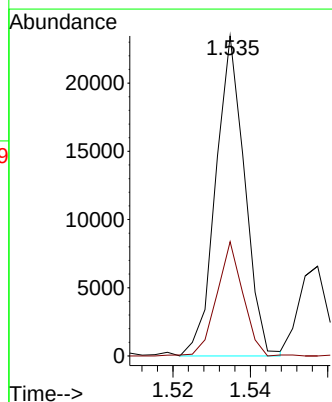
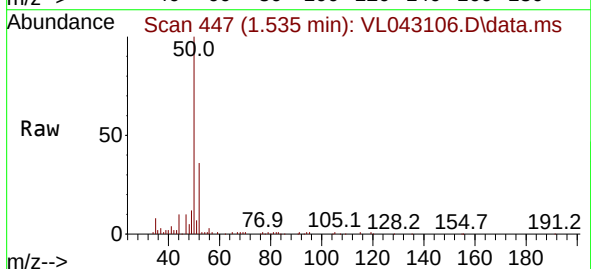
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

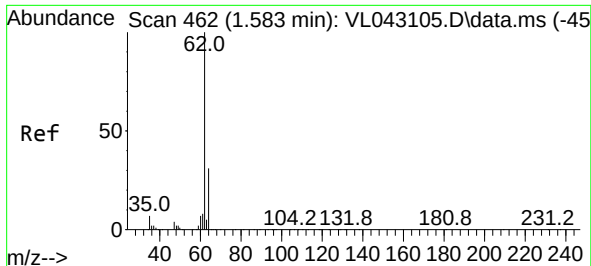
Tgt Ion: 51 Resp: 33217
Ion Ratio Lower Upper
51 100
67 20.6 15.1 22.7



#4
Chloromethane
Concen: 2.054 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 50 Resp: 12185
Ion Ratio Lower Upper
50 100
52 35.4 25.2 37.8

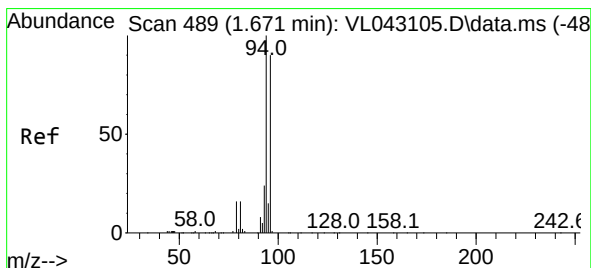
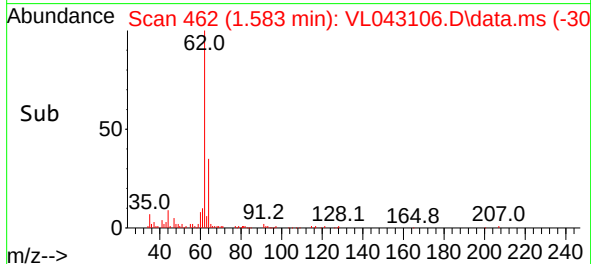
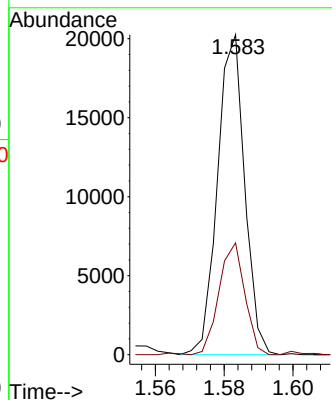
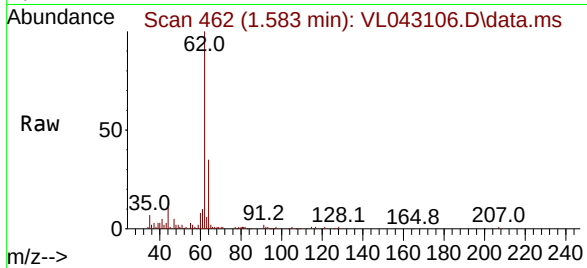




#5
 Vinyl Chloride
 Concen: 1.911 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

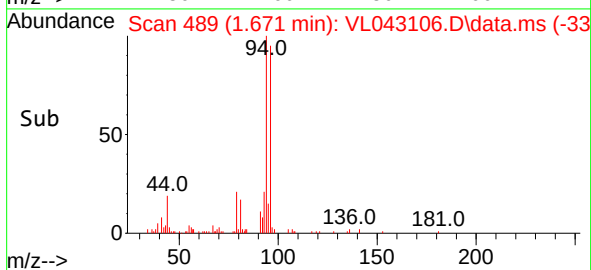
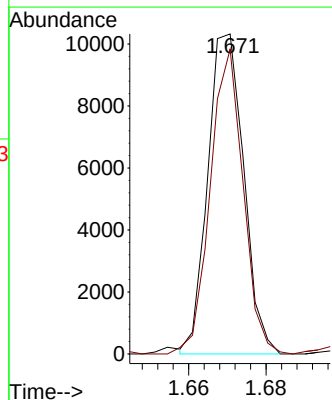
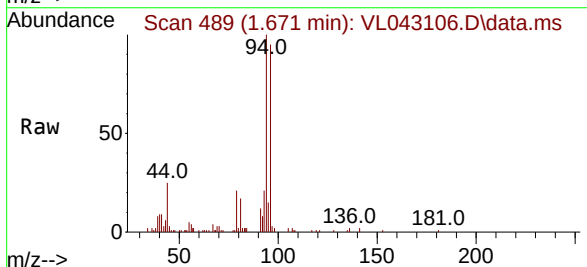
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

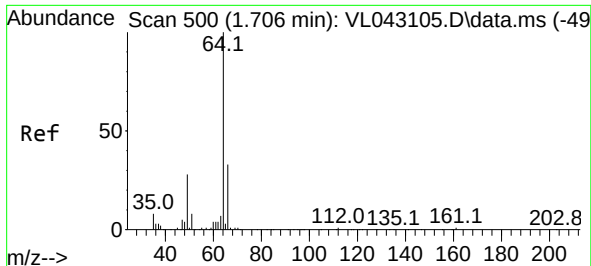
Tgt Ion: 62 Resp: 11114
 Ion Ratio Lower Upper
 62 100
 64 35.0 24.6 36.8



#6
 Bromomethane
 Concen: 2.092 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 94 Resp: 6672
 Ion Ratio Lower Upper
 94 100
 96 94.6 72.2 108.4

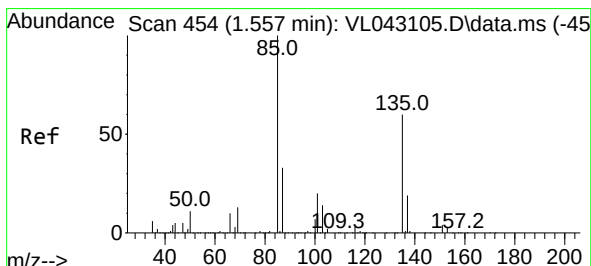
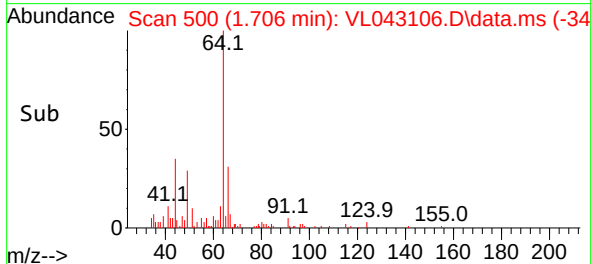
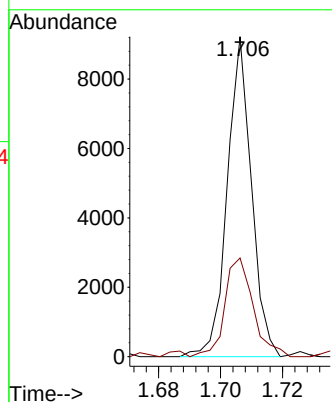
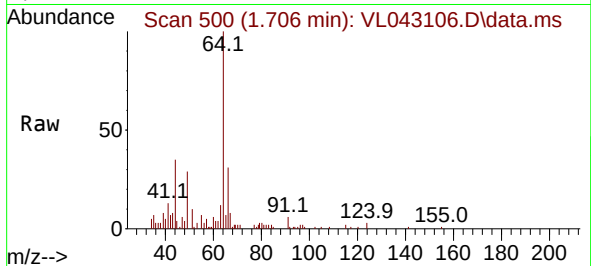




#7
Chloroethane
Concen: 2.106 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

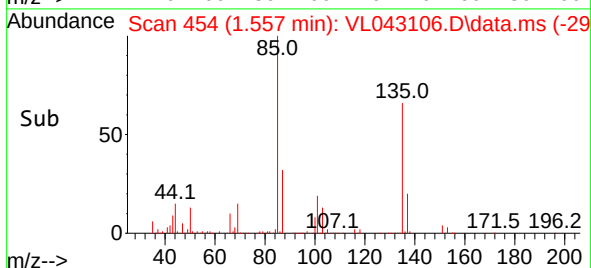
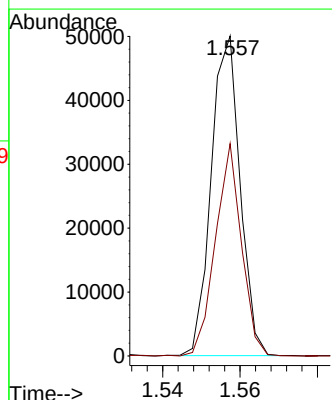
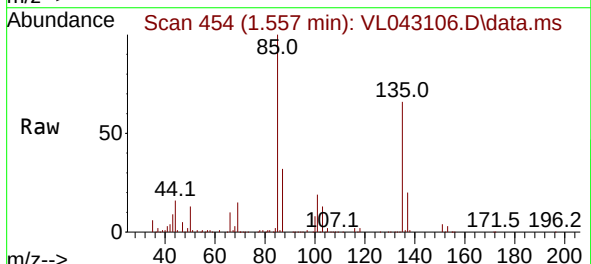
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

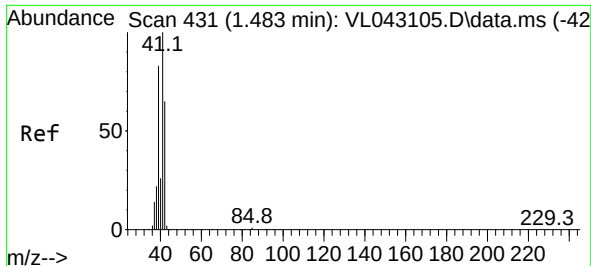
Tgt Ion: 64 Resp: 5008
Ion Ratio Lower Upper
64 100
66 30.8 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 2.140 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 25897
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 2.112 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

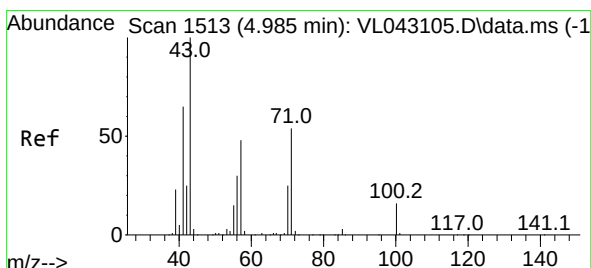
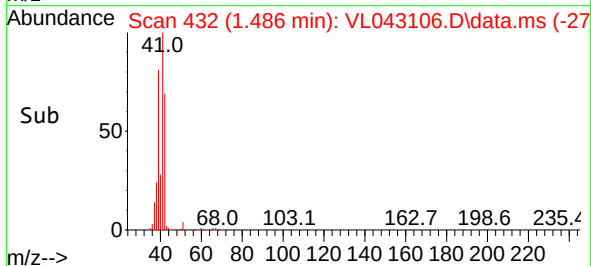
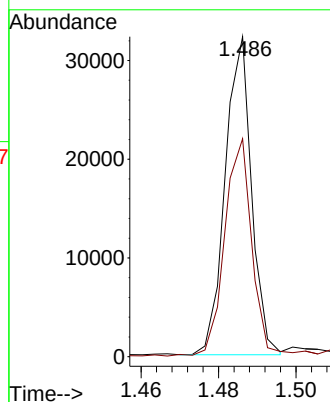
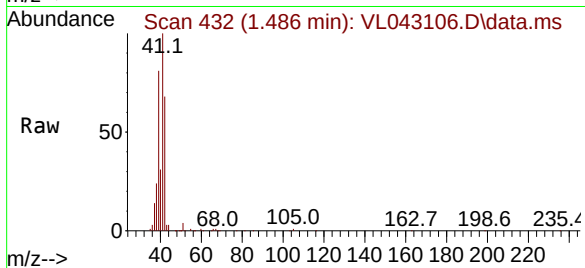
VSTDIC002

Tgt Ion: 41 Resp: 15177

Ion Ratio Lower Upper

41 100

42 74.0 55.1 82.7



#10

Heptane

Concen: 2.078 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043106.D

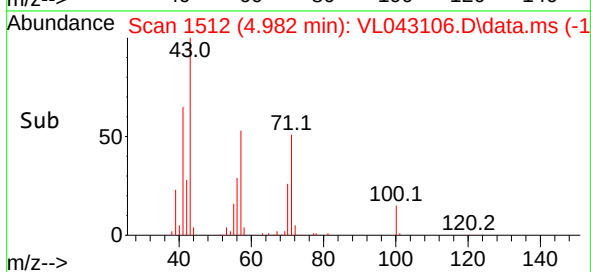
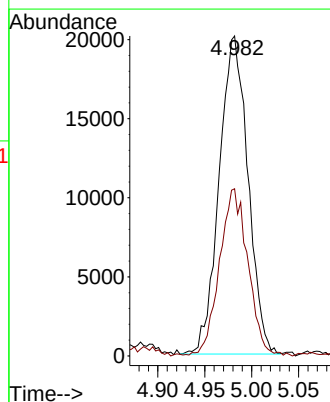
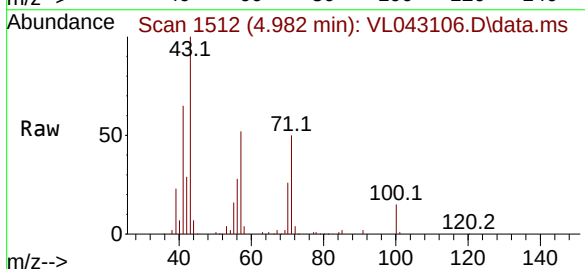
Acq: 14 Oct 2025 11:27

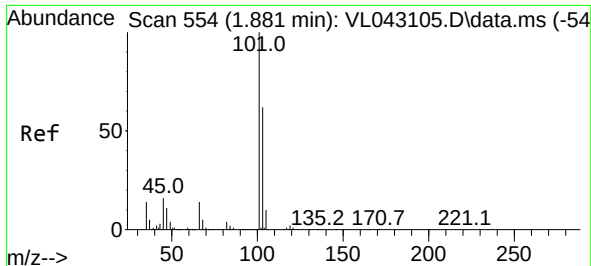
Tgt Ion: 43 Resp: 42790

Ion Ratio Lower Upper

43 100

57 52.8 40.8 61.2

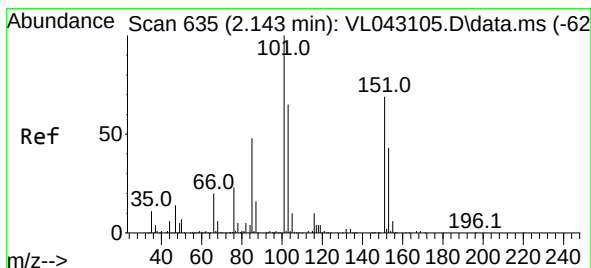
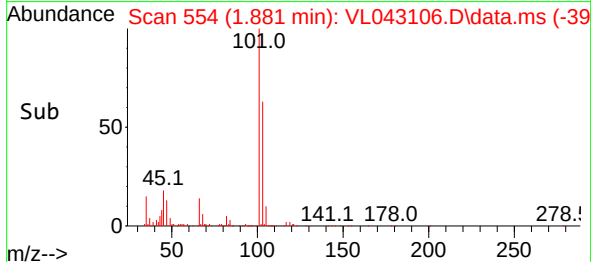
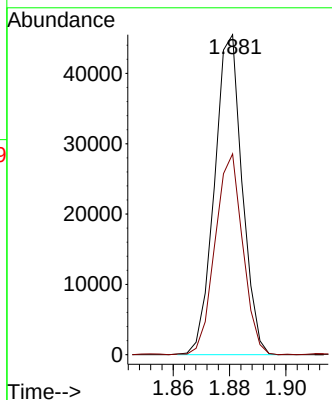
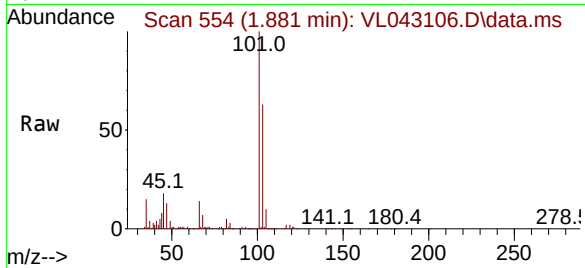




#11
 Trichlorofluoromethane
 Concen: 2.125 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

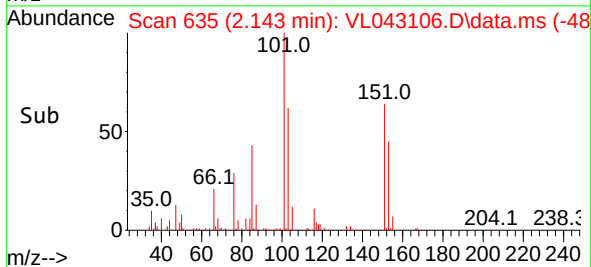
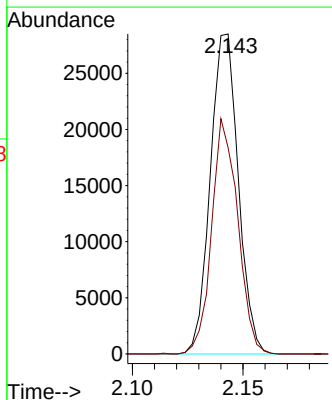
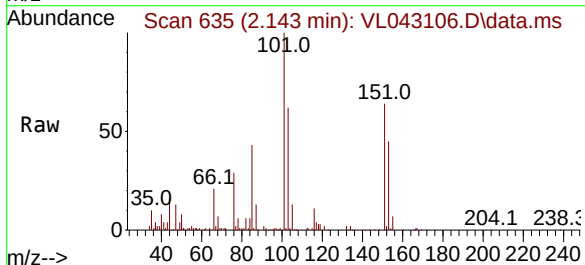
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

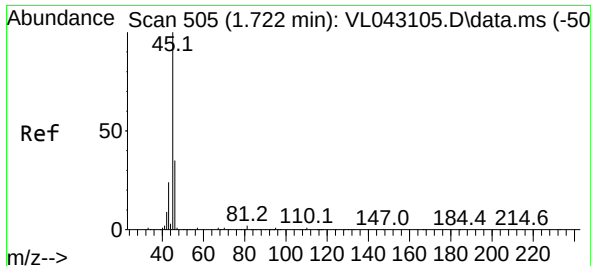
Tgt Ion:101 Resp: 31114
 Ion Ratio Lower Upper
 101 100
 103 62.8 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.128 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion:101 Resp: 25091
 Ion Ratio Lower Upper
 101 100
 151 68.5 54.7 82.1

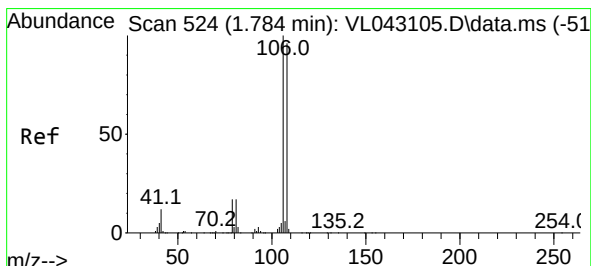
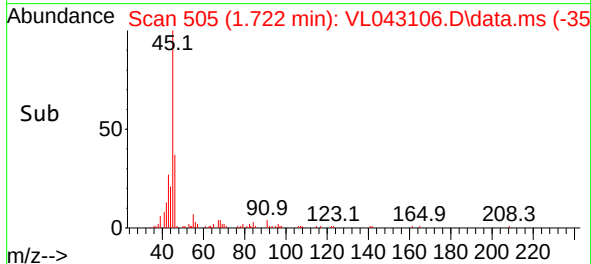
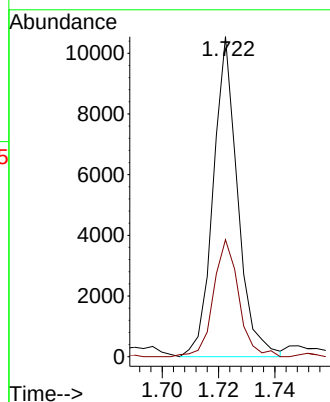
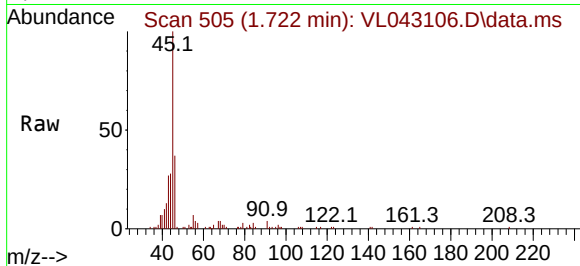




#13
Ethanol
Concen: 2.394 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

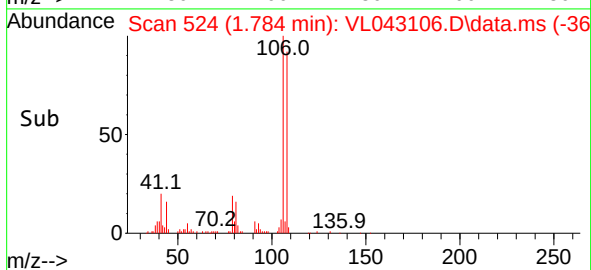
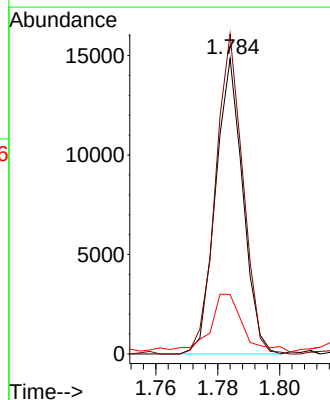
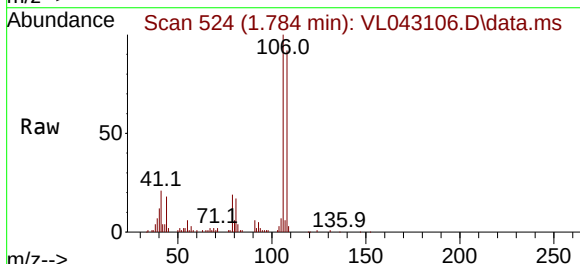
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

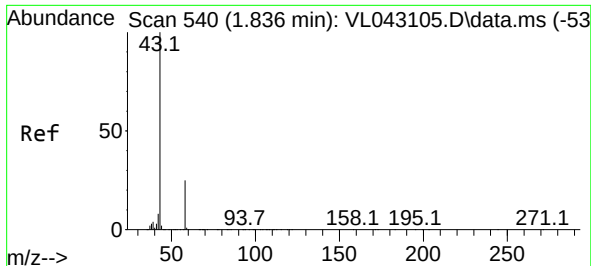
Tgt Ion: 45 Resp: 6363
Ion Ratio Lower Upper
45 100
46 39.6 14.7 58.9



#14
Bromoethene
Concen: 2.075 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 108 Resp: 9087
Ion Ratio Lower Upper
108 100
106 109.1 84.4 126.6
79 19.1 15.3 22.9

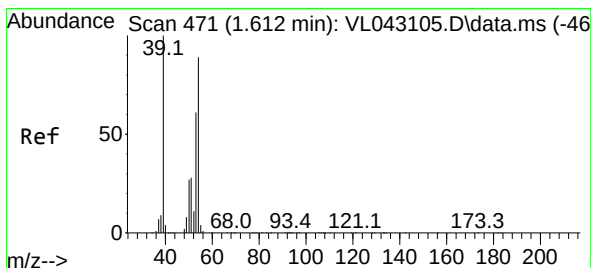
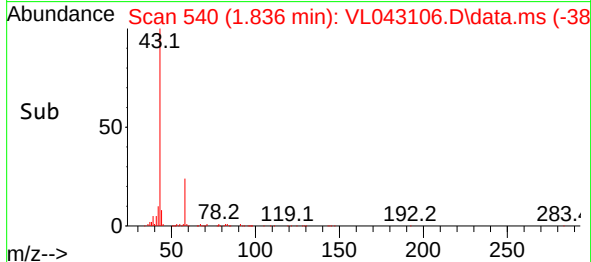
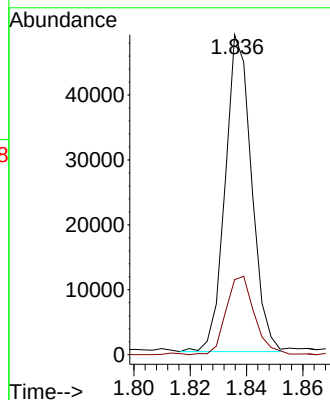
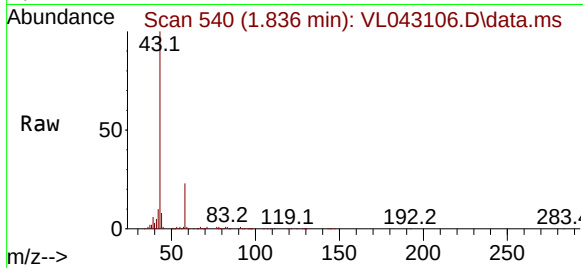




#15
Acetone
Concen: 2.225 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

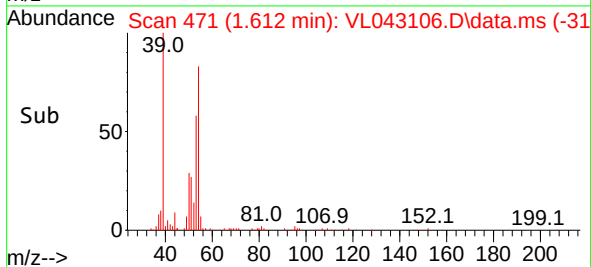
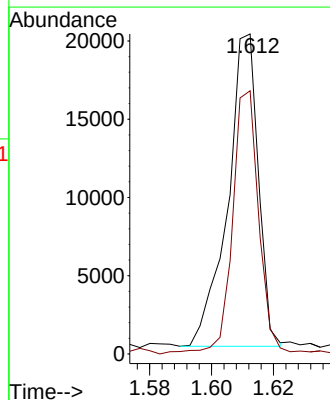
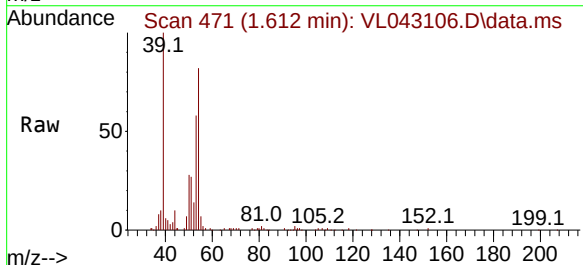
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

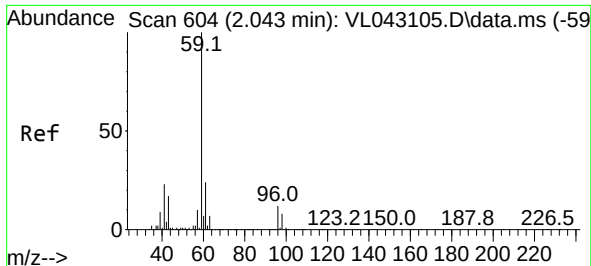
Tgt Ion: 43 Resp: 31756
Ion Ratio Lower Upper
43 100
58 27.3 20.8 31.2



#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 39 Resp: 13668
Ion Ratio Lower Upper
39 100
54 74.3 59.0 88.4





#17

tert-Butyl alcohol

Concen: 2.091 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_1

ClientSampleId :

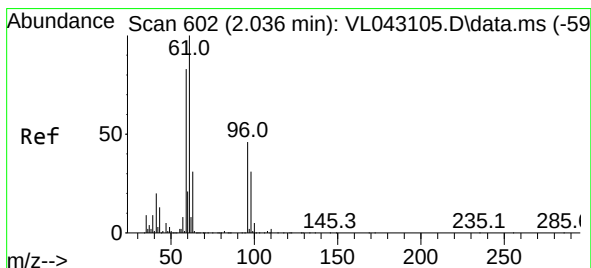
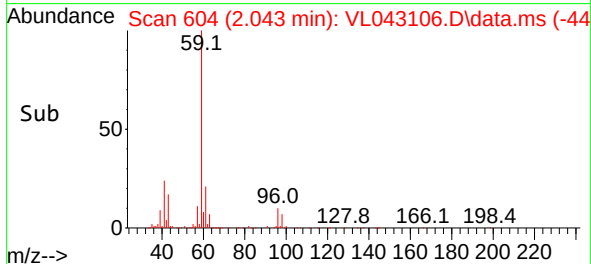
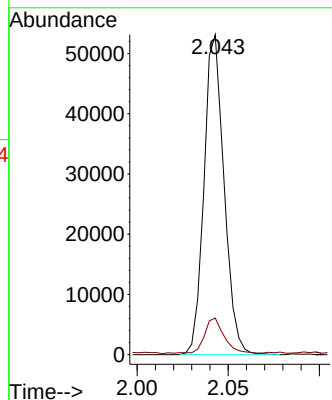
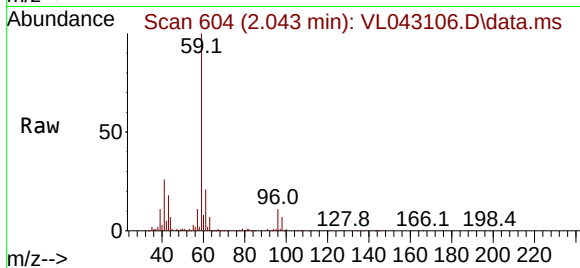
VSTDIC002

Tgt Ion: 59 Resp: 40738

Ion Ratio Lower Upper

59 100

57 11.9 8.2 12.4



#18

1,1-Dichloroethene

Concen: 2.100 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

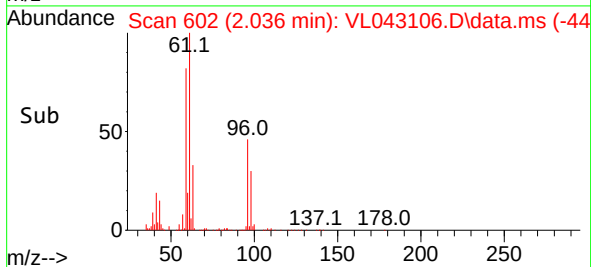
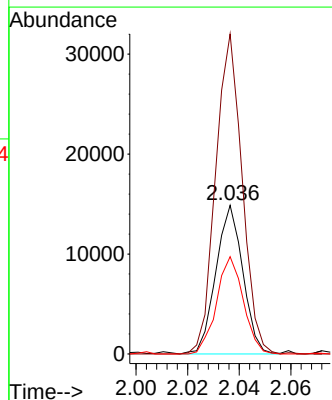
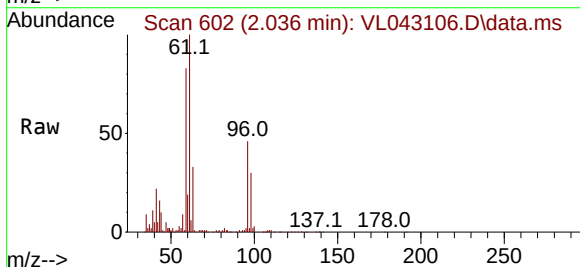
Tgt Ion: 96 Resp: 10794

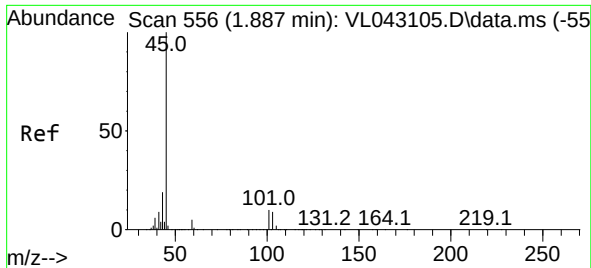
Ion Ratio Lower Upper

96 100

61 215.2 173.4 260.0

98 65.4 53.2 79.8

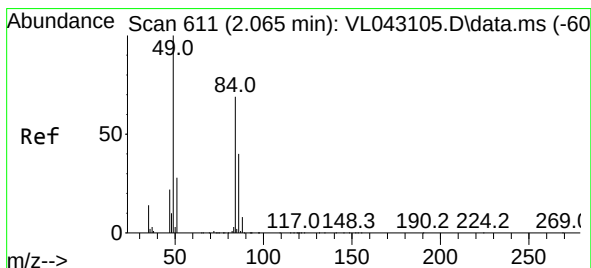
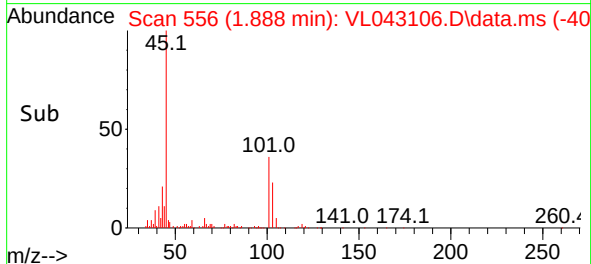
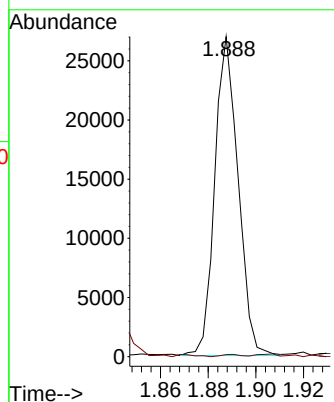
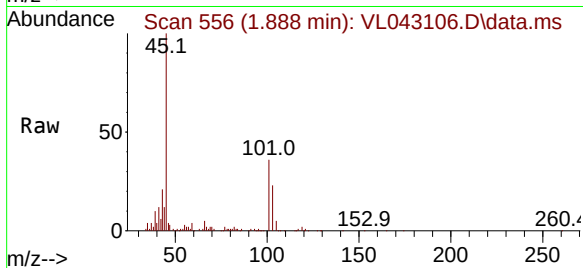




#19
Isopropyl Alcohol
Concen: 2.073 ppbv
RT: 1.888 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

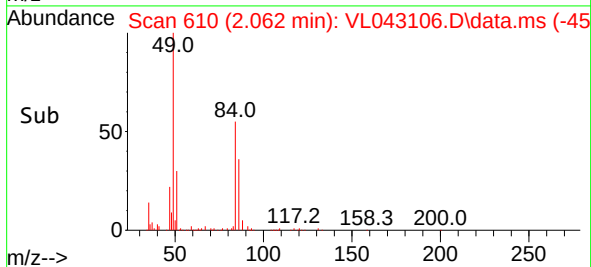
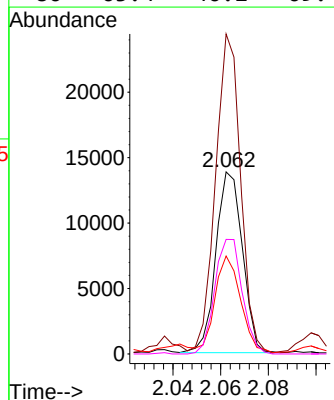
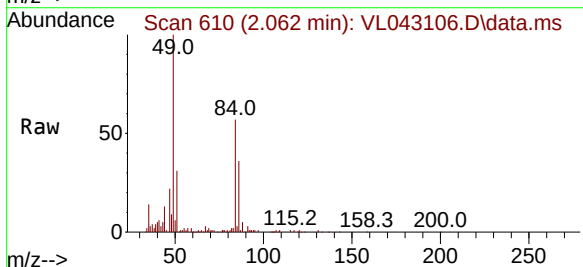
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

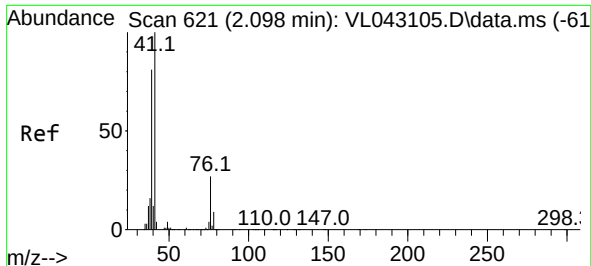
Tgt Ion: 45 Resp: 18326
Ion Ratio Lower Upper
45 100
58 2.3 31.3 46.9#



#20
Methylene Chloride
Concen: 1.906 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 10694
Ion Ratio Lower Upper
84 100
49 175.6 116.6 175.0#
51 53.2 34.8 52.2#
86 63.4 46.2 69.4

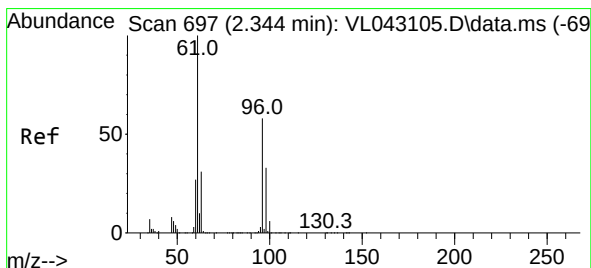
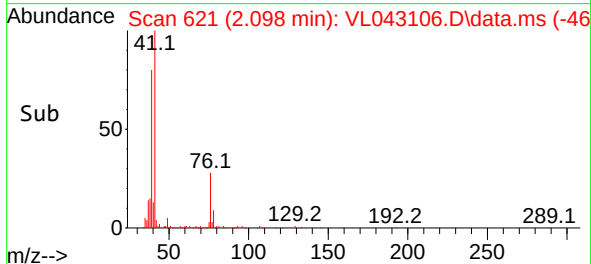
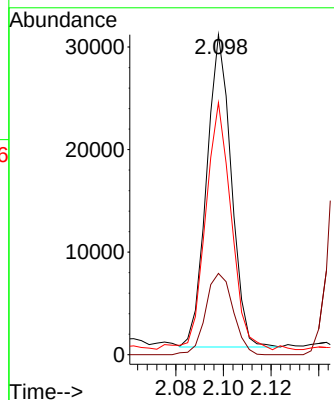
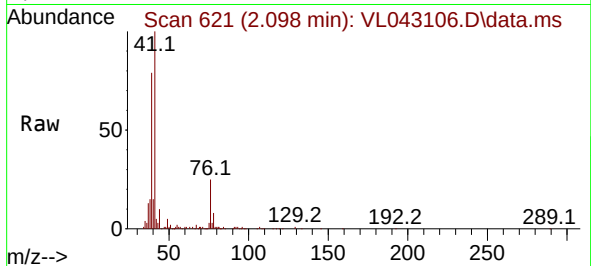




#21
 Allyl Chloride
 Concen: 2.090 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

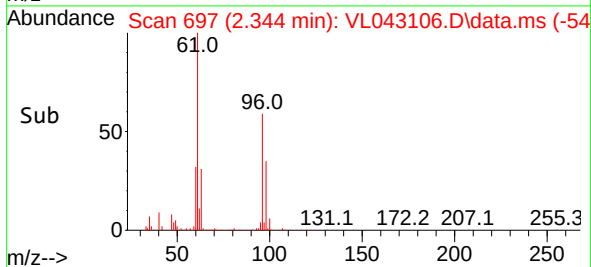
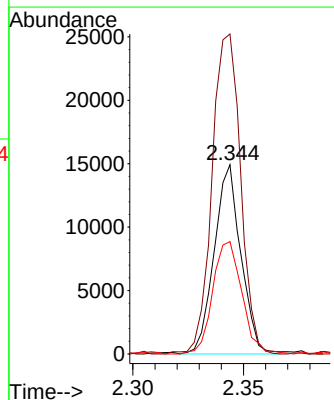
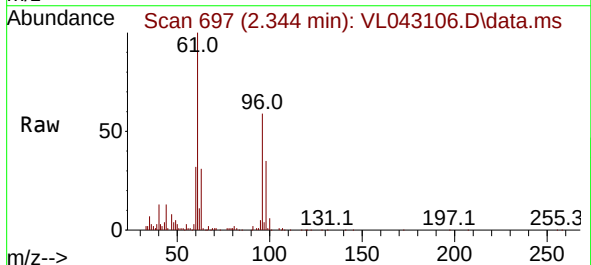
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

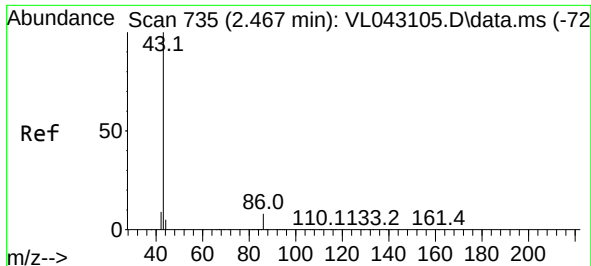
Tgt Ion:	41	Resp:	21902
Ion	Ratio	Lower	Upper
41	100		
76	28.9	21.5	32.3
39	83.1	60.8	91.2



#22
 trans-1,2-Dichloroethene
 Concen: 2.036 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion:	96	Resp:	12511
Ion	Ratio	Lower	Upper
96	100		
61	169.0	137.0	205.6
98	59.3	45.5	68.3



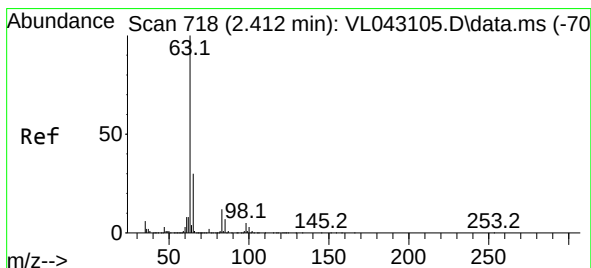
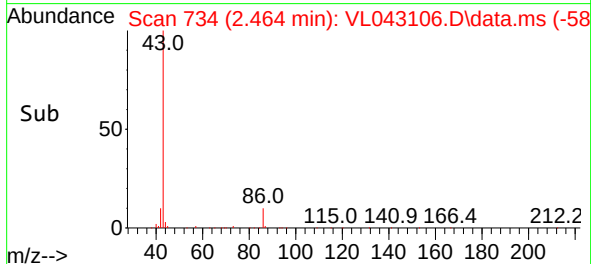
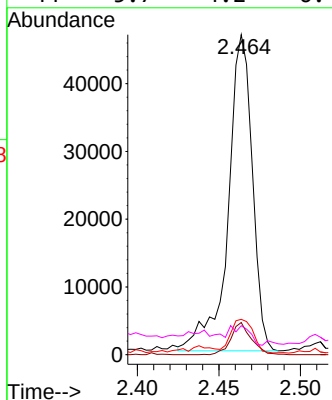
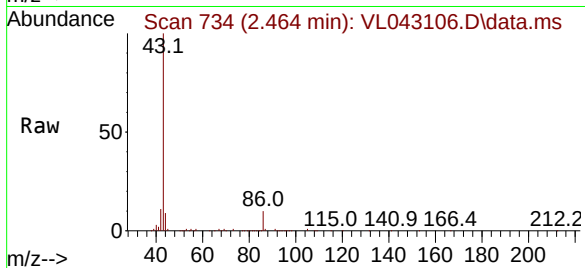


#23
 Vinyl Acetate
 Concen: 2.322 ppbv
 RT: 2.464 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

Tgt Ion: 43 Resp: 48282

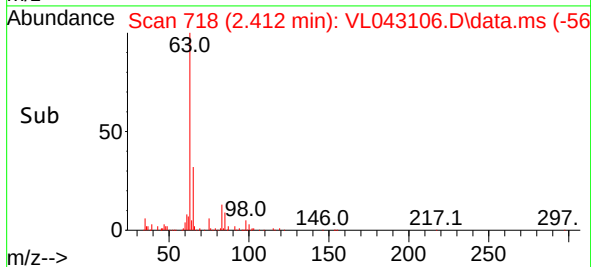
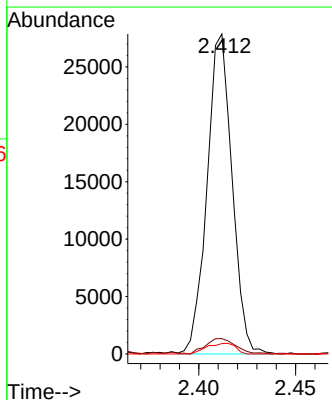
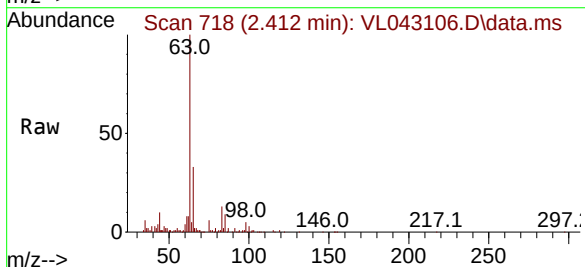
Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.2	9.2#
42	10.6	7.6	11.4
44	5.7	4.2	6.4

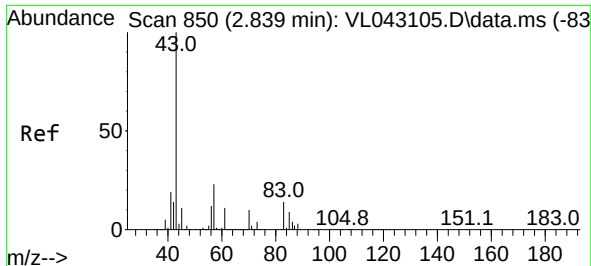


#24
 1,1-Dichloroethane
 Concen: 2.112 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 63 Resp: 25066

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	3.2	1.5	4.4

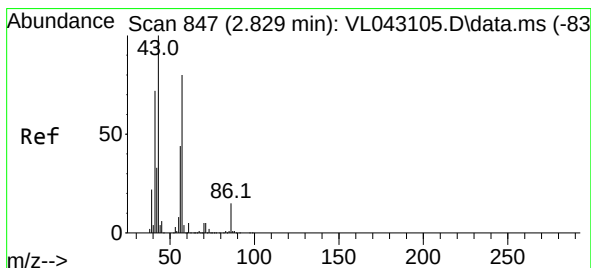
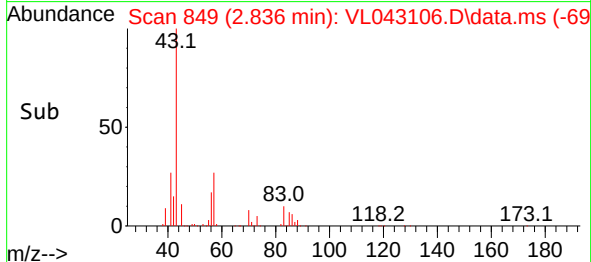
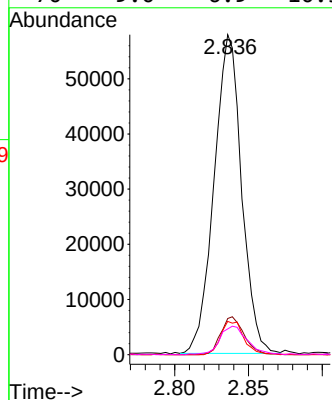
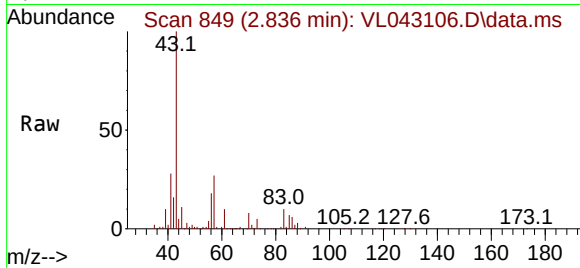




#25
Ethyl Acetate
Concen: 2.129 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

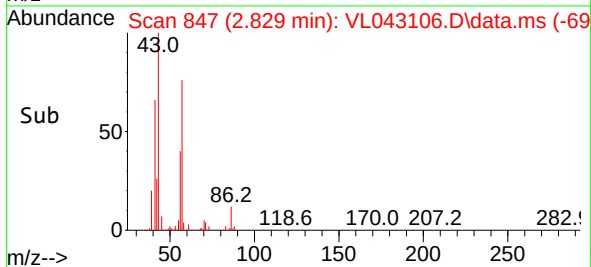
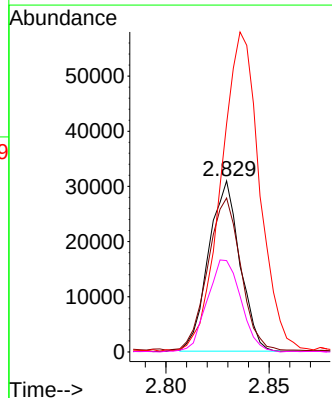
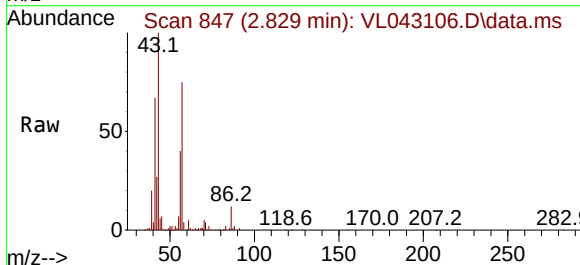
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

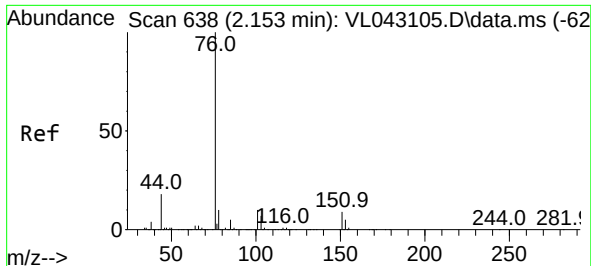
Tgt Ion:	43	Resp:	74929
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	8.9	7.0	10.6
70	9.0	6.9	10.3



#26
Hexane
Concen: 2.010 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:	57	Resp:	32595
Ion	Ratio	Lower	Upper
57	100		
41	96.4	71.4	107.0
43	233.0	178.5	267.7
56	58.8	42.2	63.4

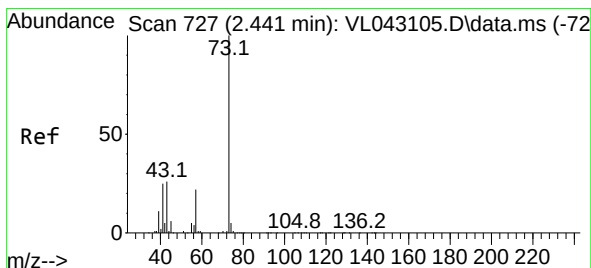
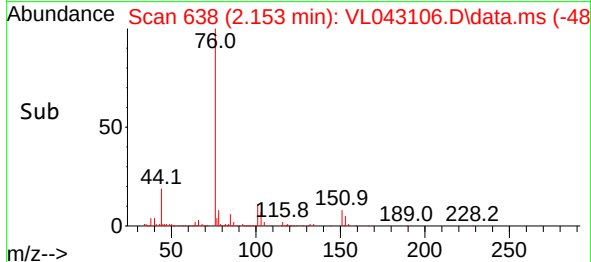
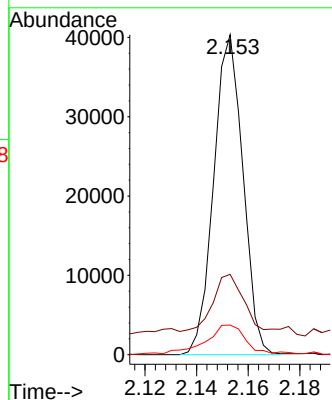
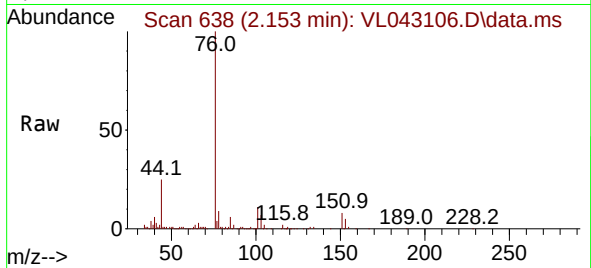




#27
Carbon Disulfide
Concen: 2.134 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

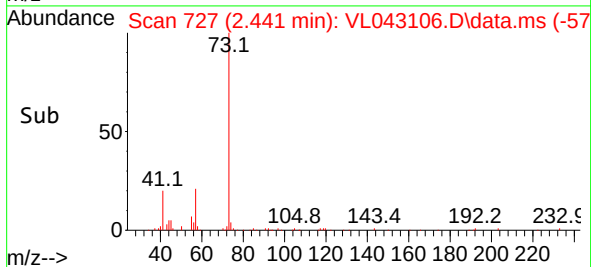
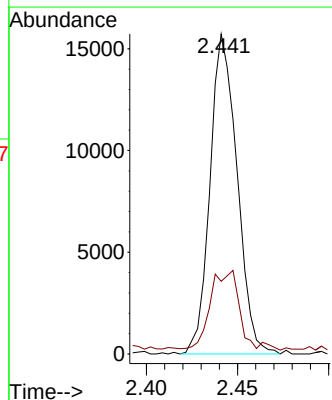
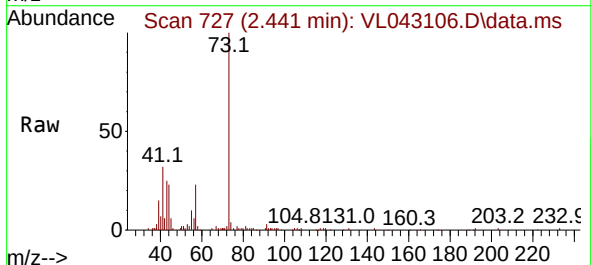
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

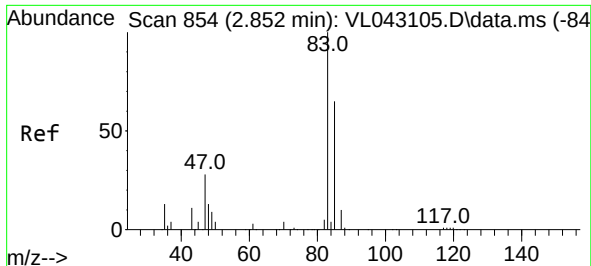
Tgt Ion: 76 Resp: 31705
Ion Ratio Lower Upper
76 100
44 23.1 16.7 25.1
78 13.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 2.196 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 73 Resp: 16207
Ion Ratio Lower Upper
73 100
57 26.6 20.5 30.7





#29

Chloroform

Concen: 2.058 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

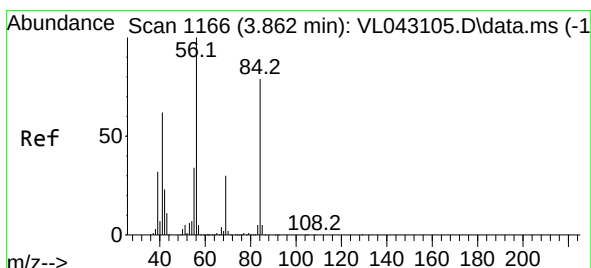
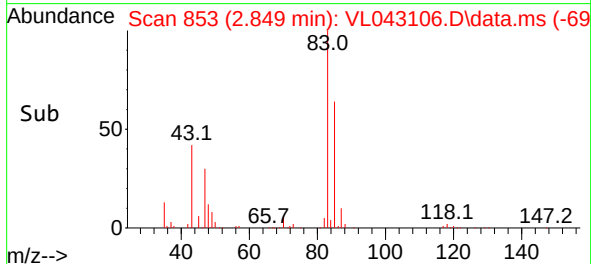
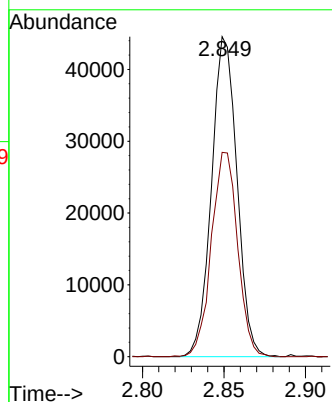
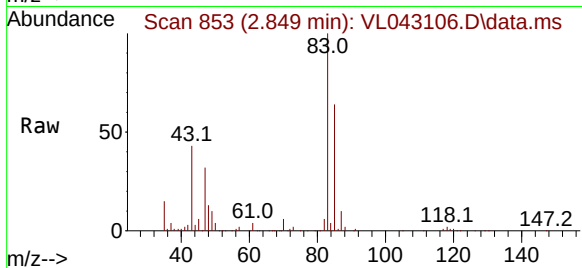
VSTDICC002

Tgt Ion: 83 Resp: 48367

Ion Ratio Lower Upper

83 100

85 63.9 51.8 77.6



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

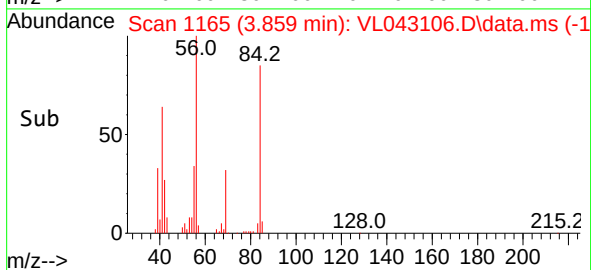
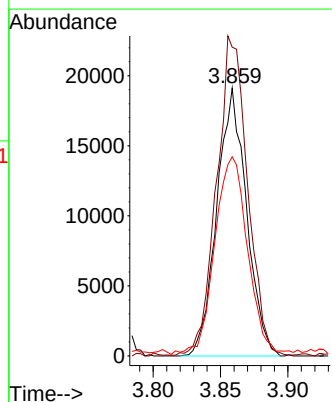
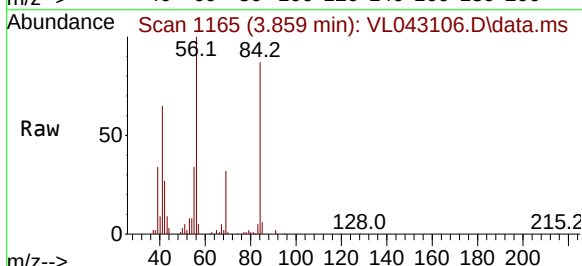
Tgt Ion: 84 Resp: 29270

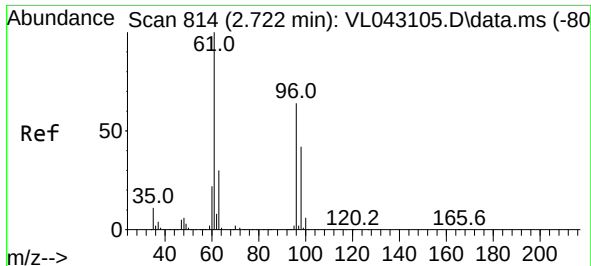
Ion Ratio Lower Upper

84 100

56 125.6 100.9 151.3

41 79.0 63.8 95.6

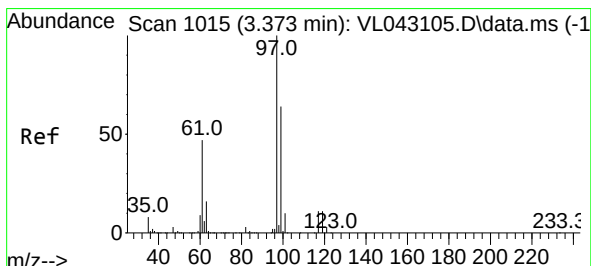
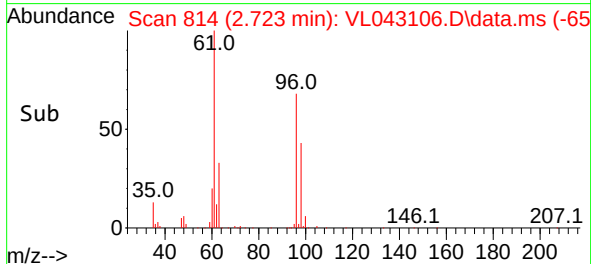
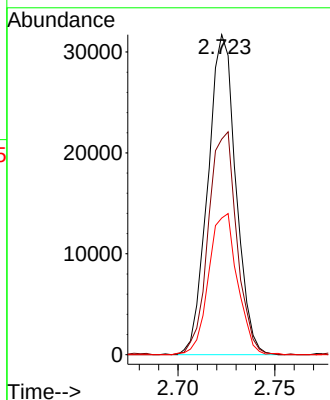
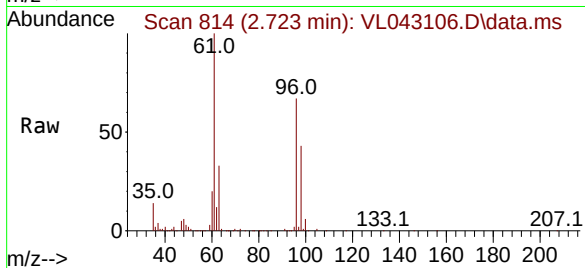




#31
 cis-1,2-Dichloroethene
 Concen: 2.061 ppbv
 RT: 2.723 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

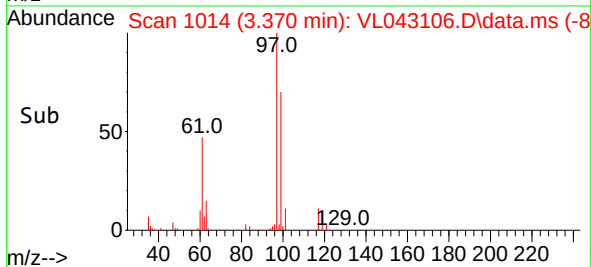
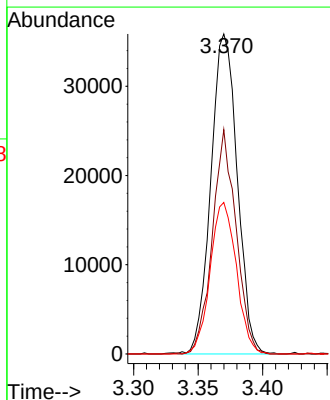
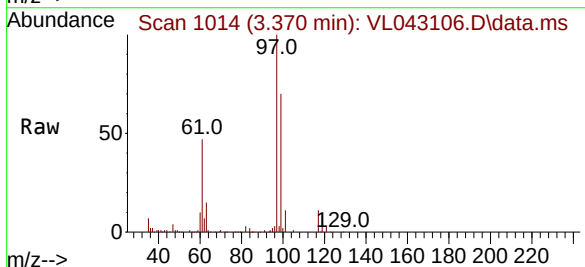
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

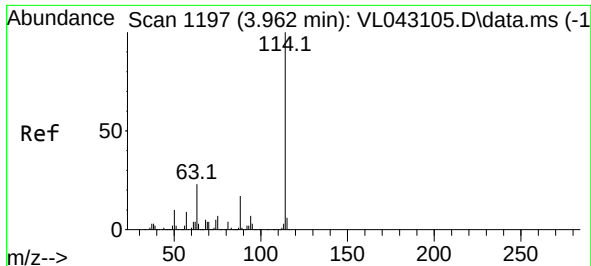
Tgt Ion: 61 Resp: 31925
 Ion Ratio Lower Upper
 61 100
 96 67.3 51.0 76.6
 98 42.3 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 2.086 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 97 Resp: 51049
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.3 76.9
 61 46.9 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

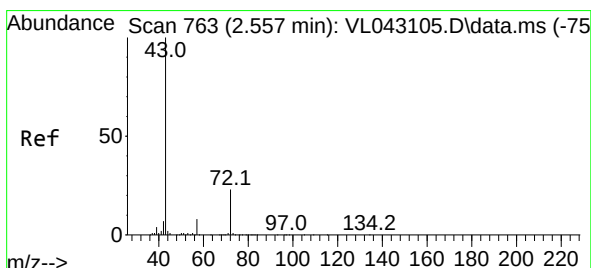
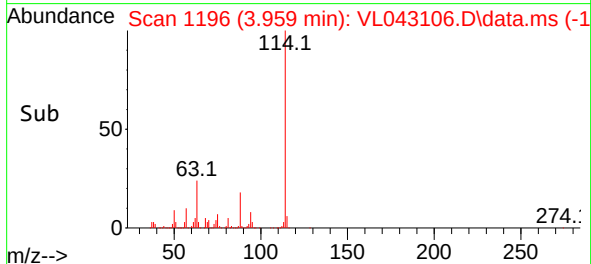
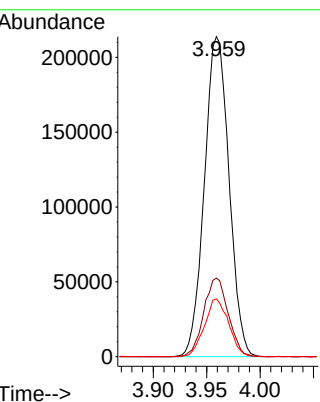
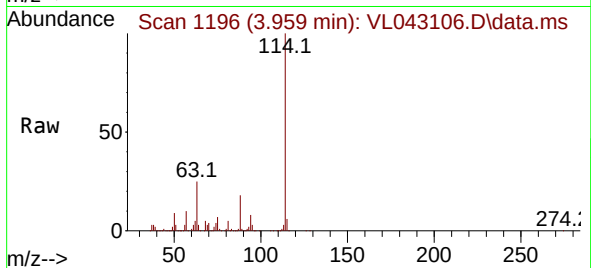
Tgt Ion:114 Resp: 342939

Ion Ratio Lower Upper

114 100

63 24.5 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 2.090 ppbv

RT: 2.558 min Scan# 763

Delta R.T. 0.000 min

Lab File: VL043106.D

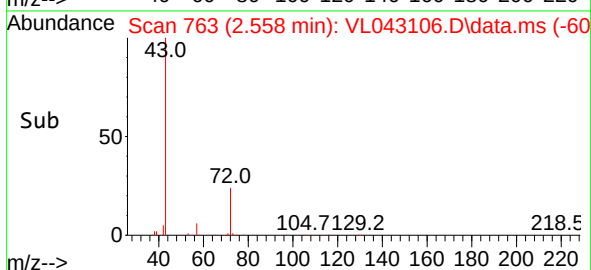
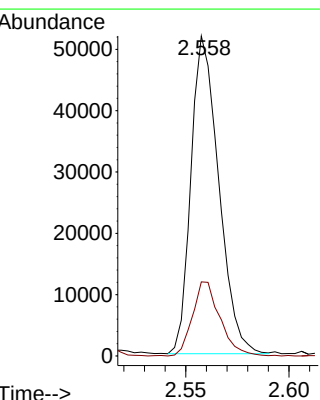
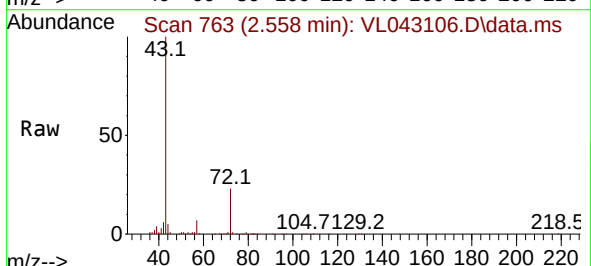
Acq: 14 Oct 2025 11:27

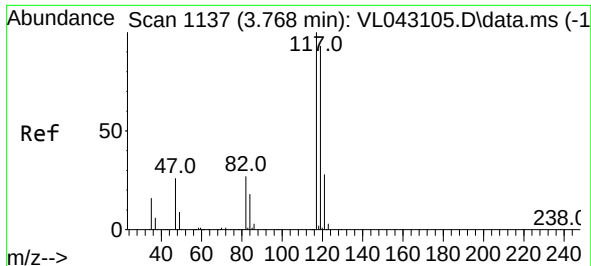
Tgt Ion: 43 Resp: 48458

Ion Ratio Lower Upper

43 100

72 23.3 18.4 27.6

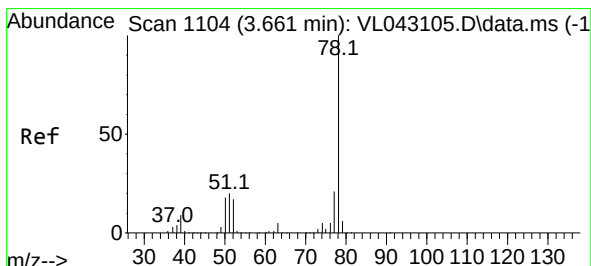
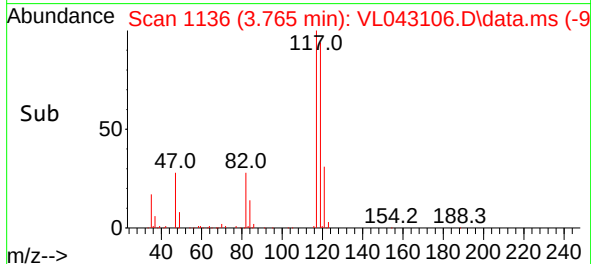
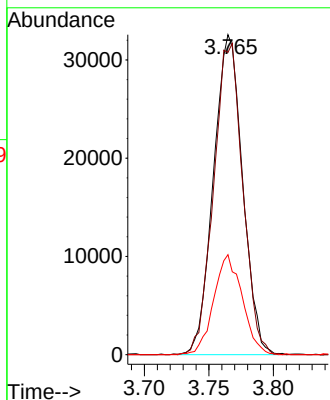
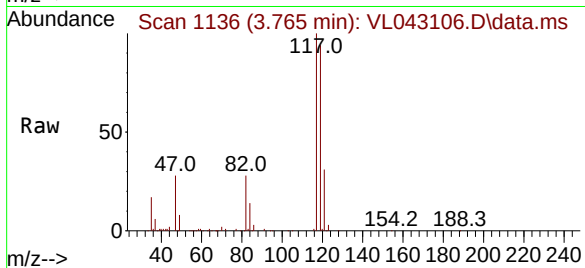




#35
Carbon Tetrachloride
Concen: 2.071 ppbv
RT: 3.765 min Scan# 1137
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

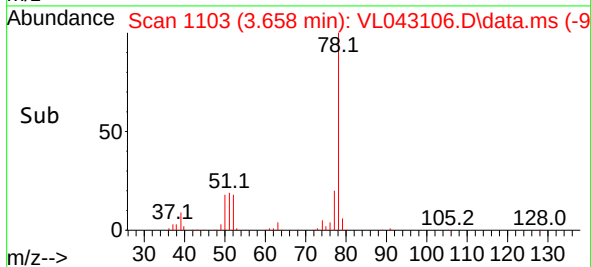
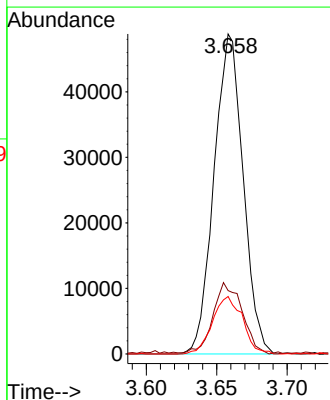
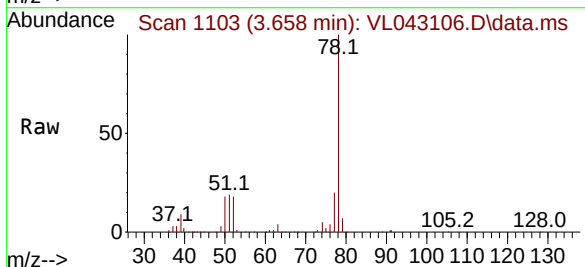
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

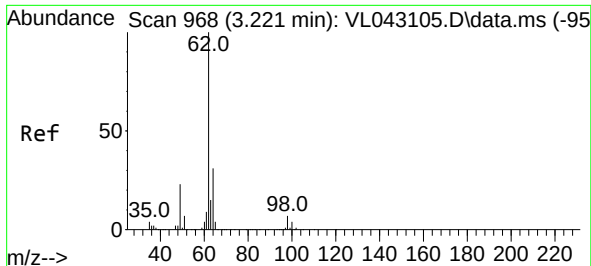
Tgt Ion:117 Resp: 51073
Ion Ratio Lower Upper
117 100
119 94.2 74.1 111.1
121 31.3 22.2 33.2



#36
Benzene
Concen: 2.172 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 78 Resp: 70156
Ion Ratio Lower Upper
78 100
77 19.5 17.0 25.6
50 18.0 14.6 22.0

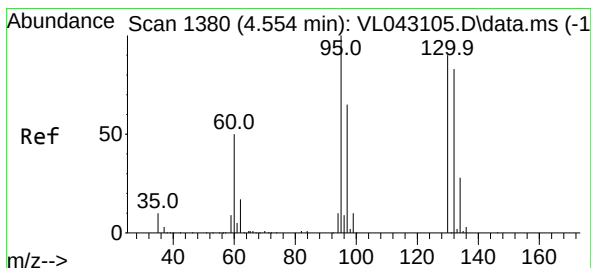
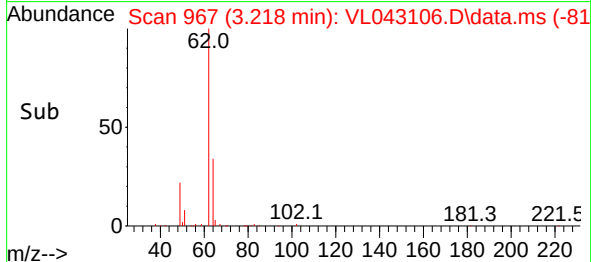
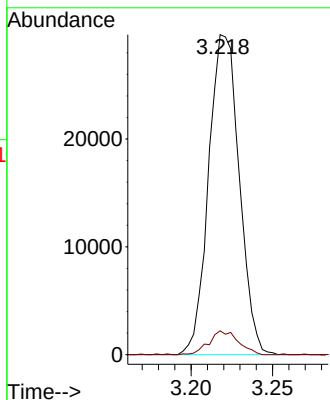
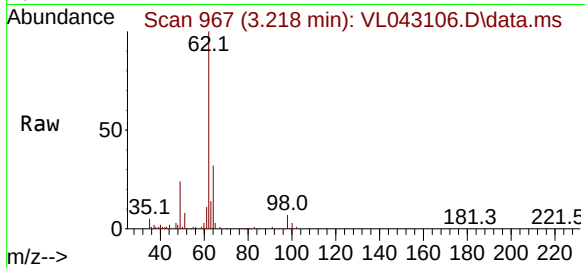




#37
1,2-Dichloroethane
Concen: 2.083 ppbv
RT: 3.218 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

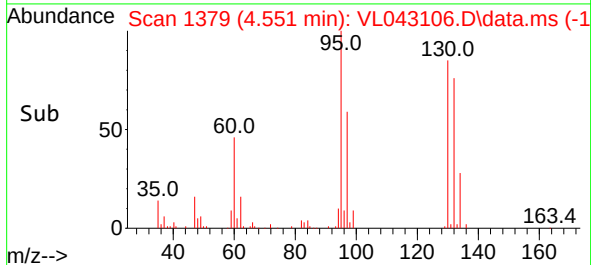
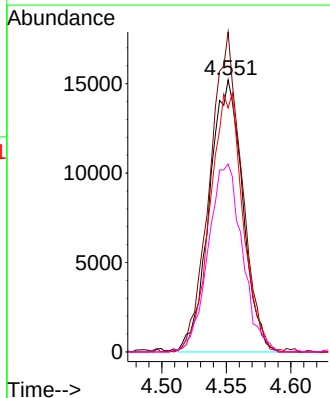
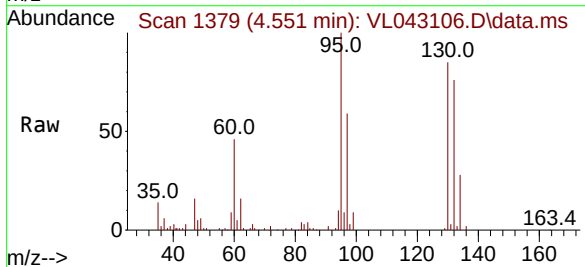
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

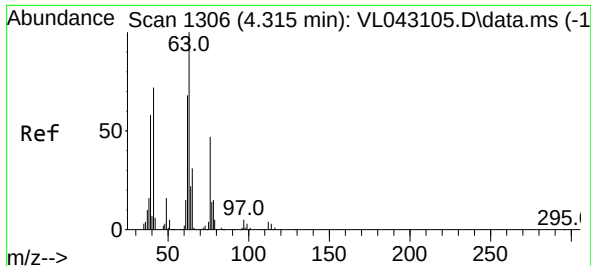
Tgt Ion: 62 Resp: 38767
Ion Ratio Lower Upper
62 100
98 7.3 5.8 8.6



#38
Trichloroethene
Concen: 2.024 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:130 Resp: 27272
Ion Ratio Lower Upper
130 100
95 117.1 88.6 133.0
132 89.0 73.4 110.0
97 69.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 2.151 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

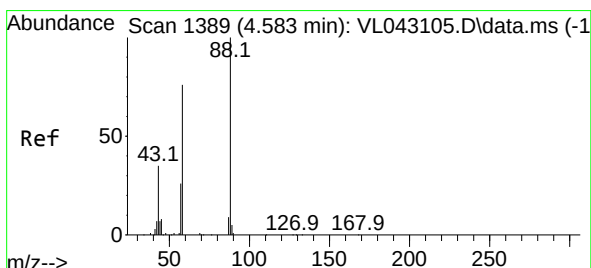
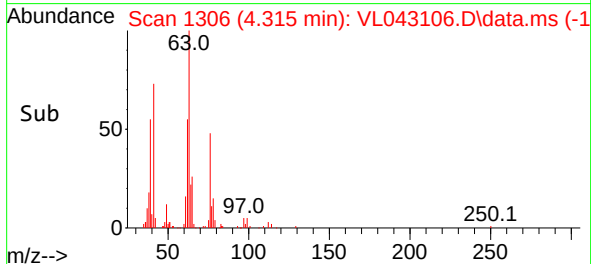
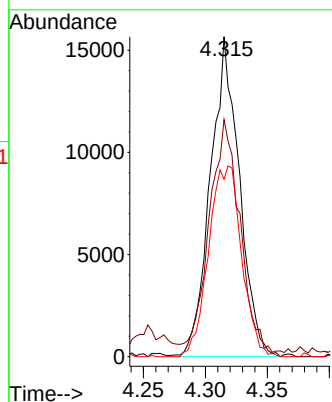
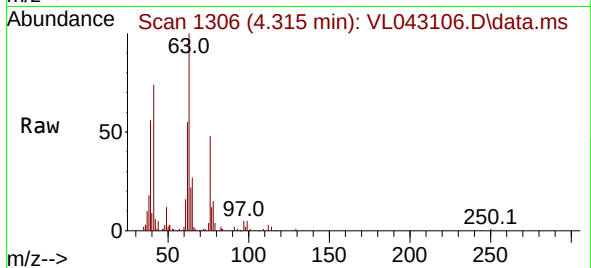
Tgt Ion: 63 Resp: 25427

Ion Ratio Lower Upper

63 100

41 72.3 58.0 87.0

62 55.5 54.7 82.1



#40

1,4-Dioxane

Concen: 0.938 ppbv

RT: 4.584 min Scan# 1389

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion: 88 Resp: 4954

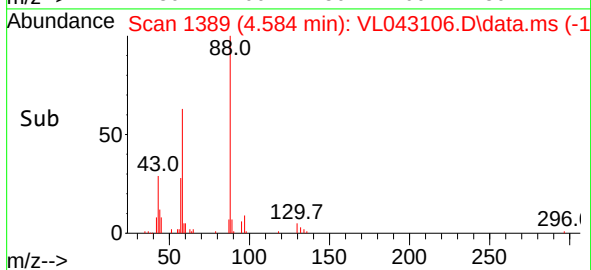
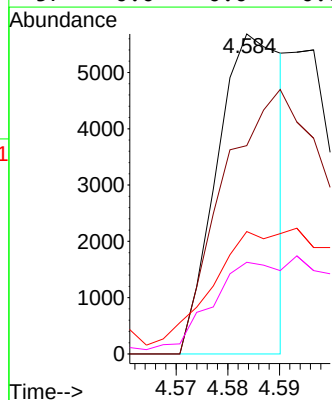
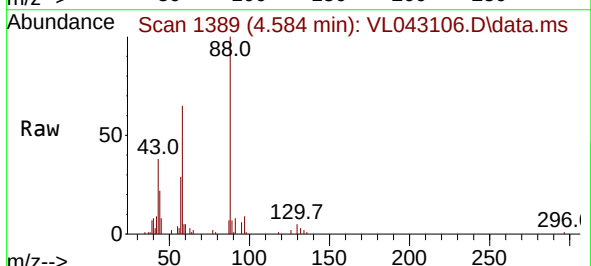
Ion Ratio Lower Upper

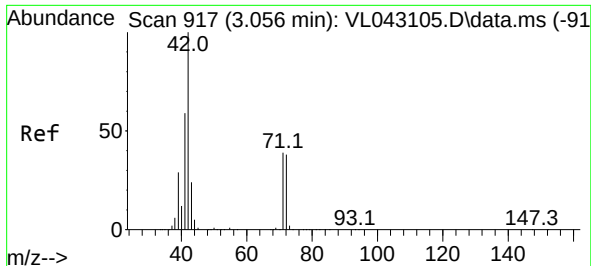
88 100

58 0.0 61.1 91.7#

43 0.0 24.0 36.0#

57 0.0 0.0 0.0

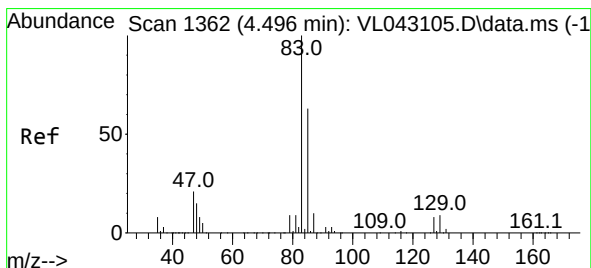
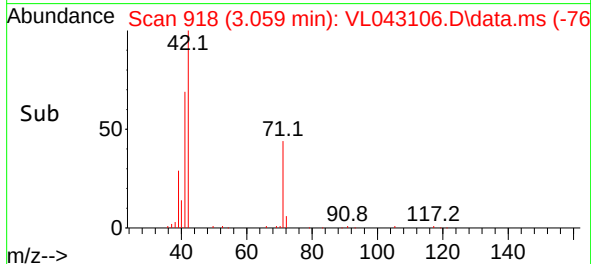
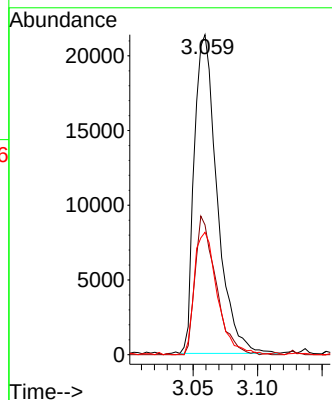
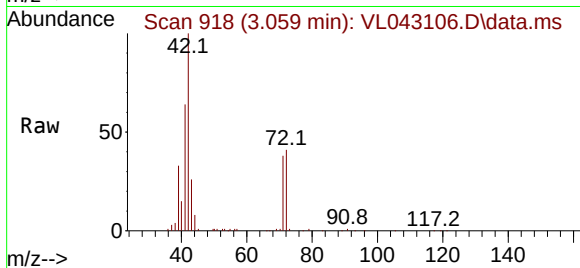




#41
Tetrahydrofuran
Concen: 2.037 ppbv
RT: 3.059 min Scan# 917
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

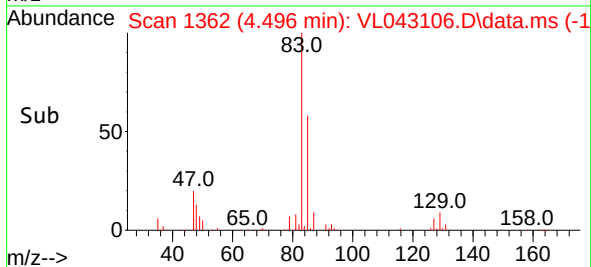
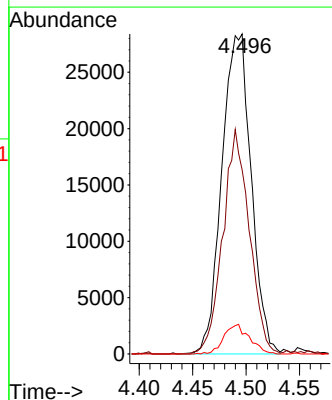
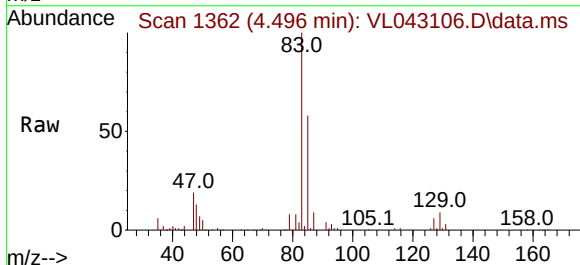
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

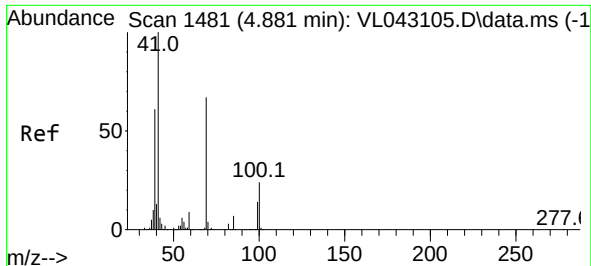
Tgt Ion: 42 Resp: 26362
Ion Ratio Lower Upper
42 100
72 39.7 31.3 46.9
71 39.4 30.4 45.6



#42
Bromodichloromethane
Concen: 2.106 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 54224
Ion Ratio Lower Upper
83 100
85 57.6 50.6 75.8
127 6.2 6.3 9.5

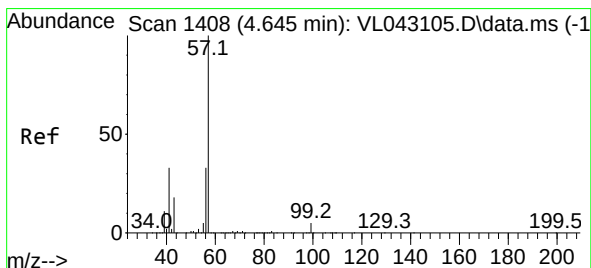
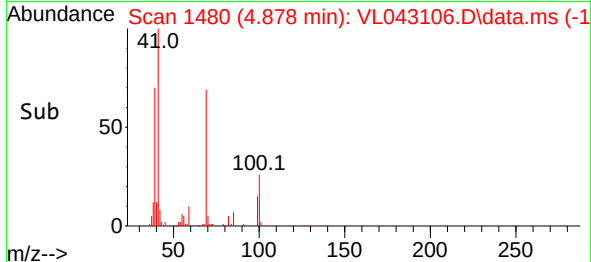
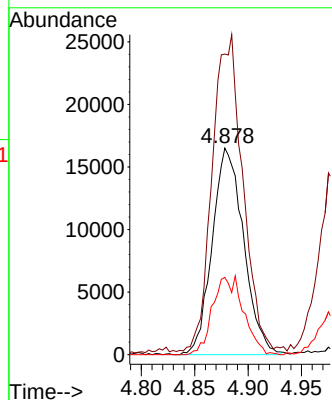
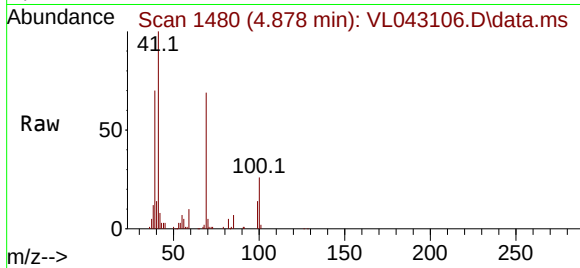




#43
Methyl Methacrylate
Concen: 2.051 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

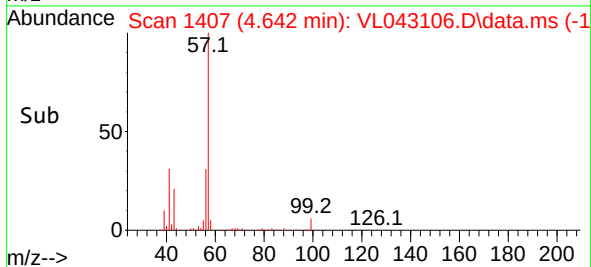
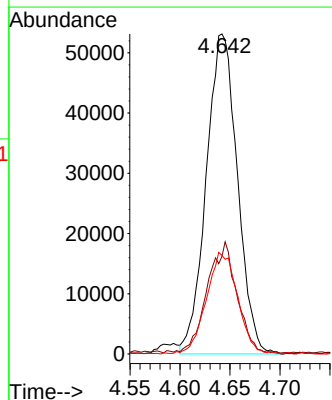
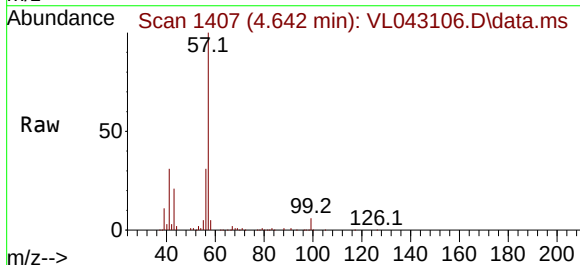
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

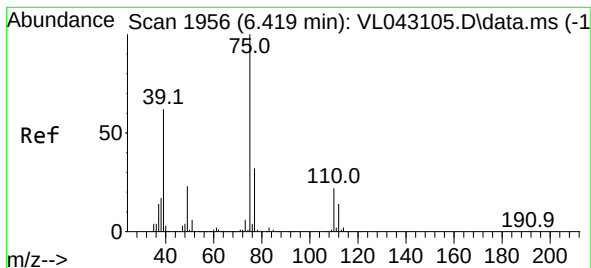
Tgt Ion: 69 Resp: 33805
Ion Ratio Lower Upper
69 100
41 151.4 120.5 180.7
100 37.3 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 2.137 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 115417
Ion Ratio Lower Upper
57 100
41 34.0 26.3 39.5
56 31.9 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 2.109 ppbv

RT: 6.416 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

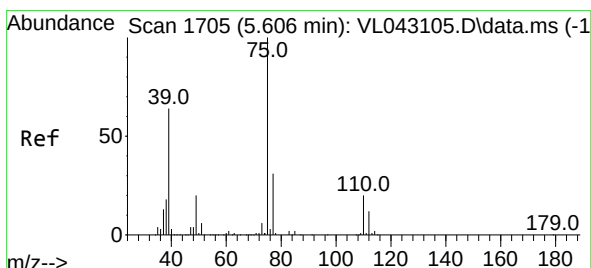
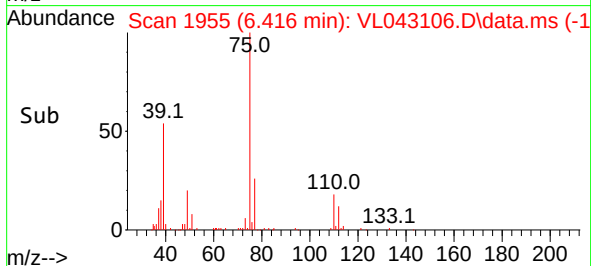
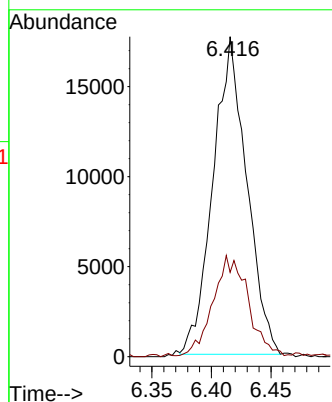
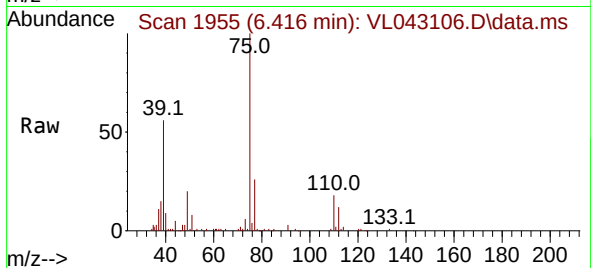
VSTDICC002

Tgt Ion: 75 Resp: 34728

Ion Ratio Lower Upper

75 100

77 26.3 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 1.202 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. -0.006 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

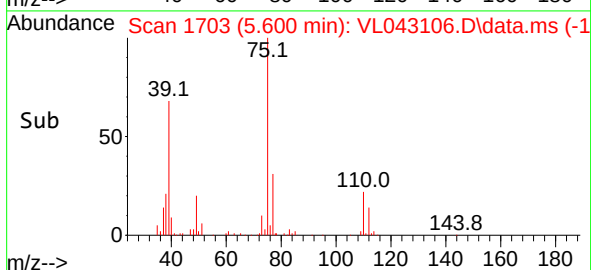
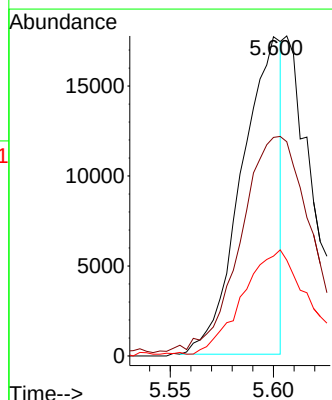
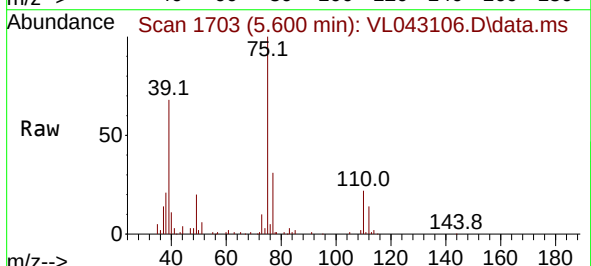
Tgt Ion: 75 Resp: 23612

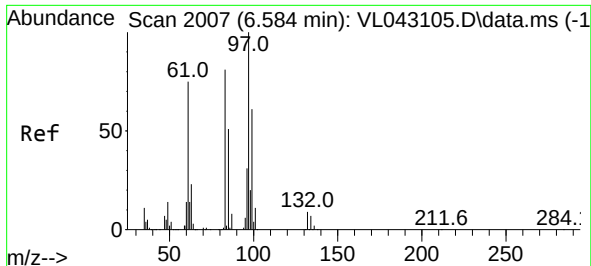
Ion Ratio Lower Upper

75 100

39 65.4 51.0 76.6

77 30.3 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 2.067 ppbv

RT: 6.584 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 26359

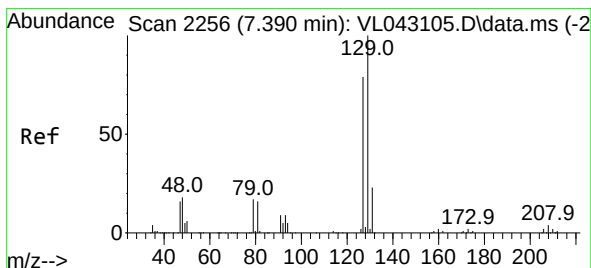
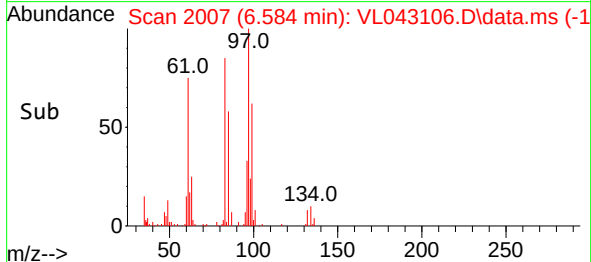
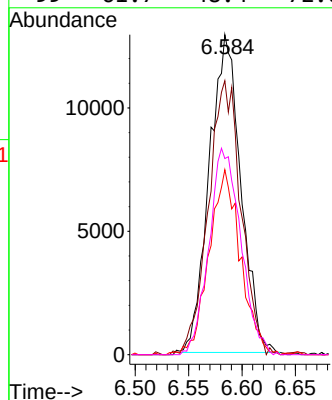
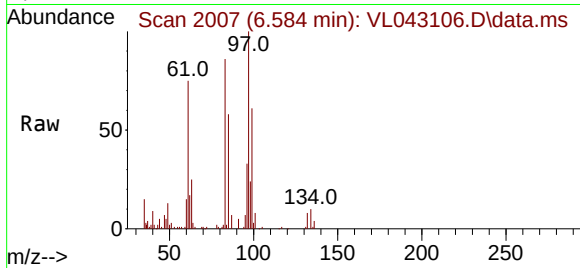
Ion Ratio Lower Upper

97 100

83 86.2 64.6 96.8

85 58.2 40.6 60.8

99 61.7 48.4 72.6



#48

Dibromochloromethane

Concen: 2.146 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VL043106.D

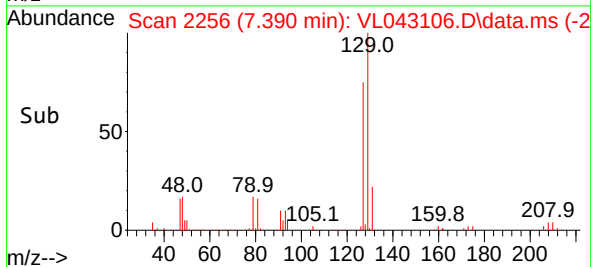
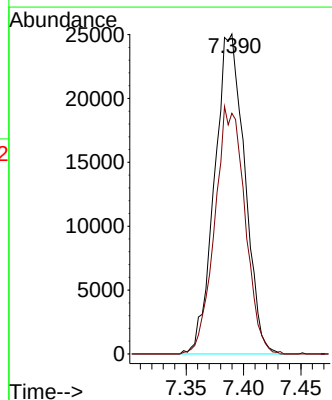
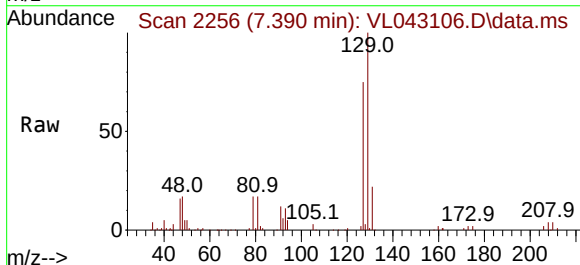
Acq: 14 Oct 2025 11:27

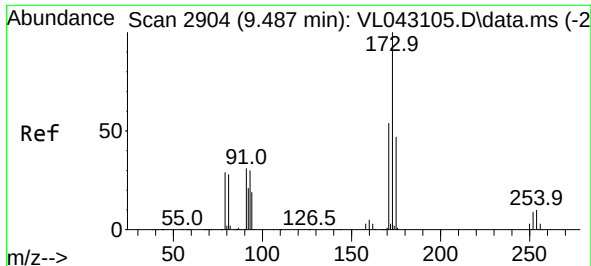
Tgt Ion: 129 Resp: 45751

Ion Ratio Lower Upper

129 100

127 77.3 39.3 117.9

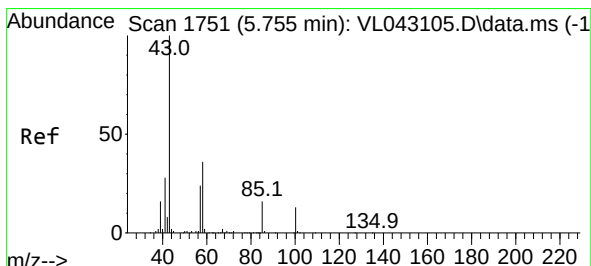
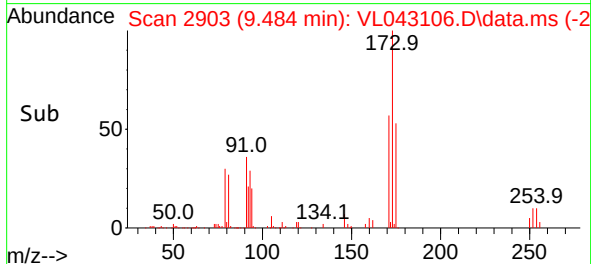
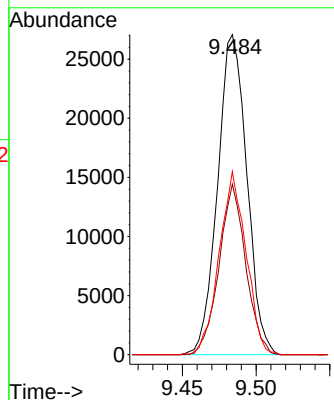
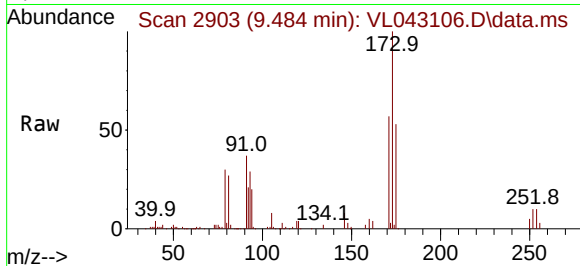




#49
Bromoform
Concen: 2.153 ppbv
RT: 9.484 min Scan# 2904
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

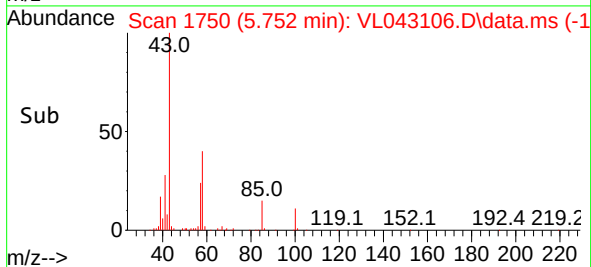
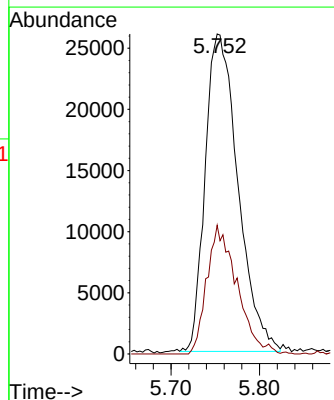
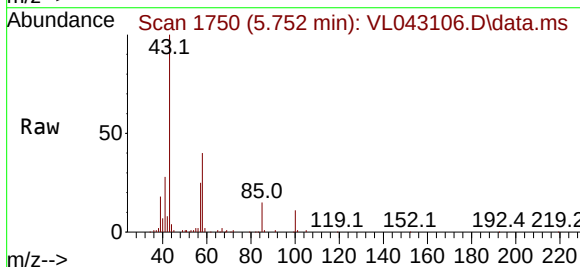
Instrument : MSVOA_L
ClientSampleId : VSTDIC002

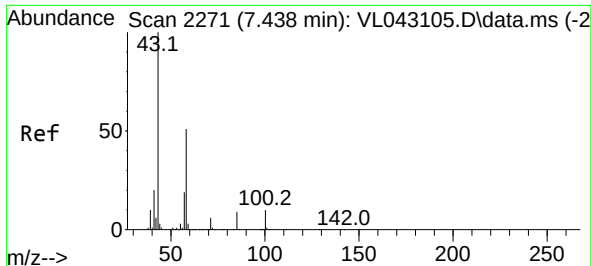
Tgt Ion:173 Resp: 37314
Ion Ratio Lower Upper
173 100
175 48.7 38.8 58.2
171 52.7 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 2.089 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 66811
Ion Ratio Lower Upper
43 100
58 37.2 29.1 43.7

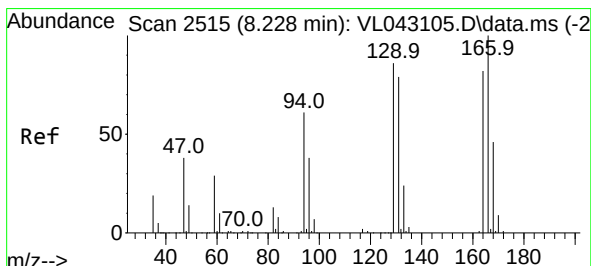
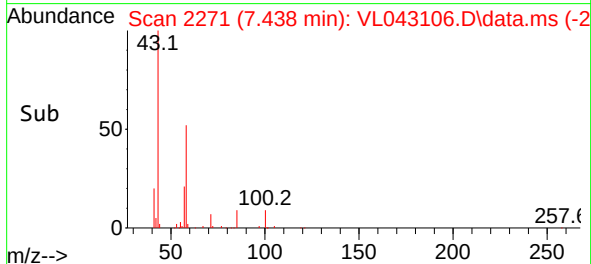
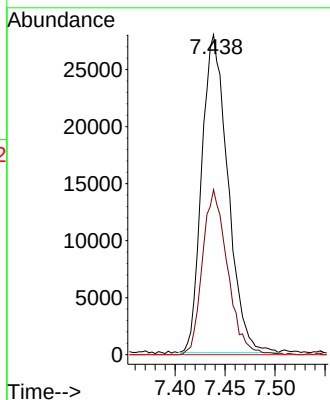
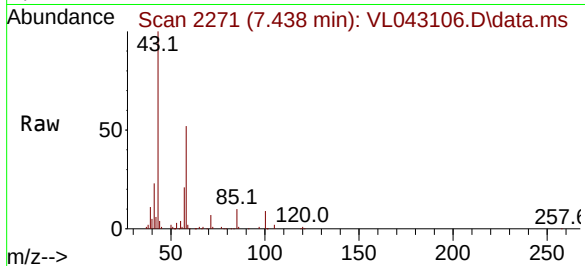




#51
2-Hexanone
Concen: 2.122 ppbv
RT: 7.438 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

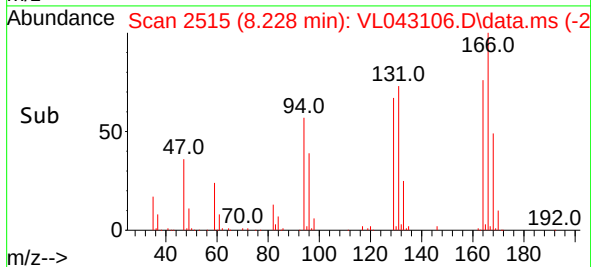
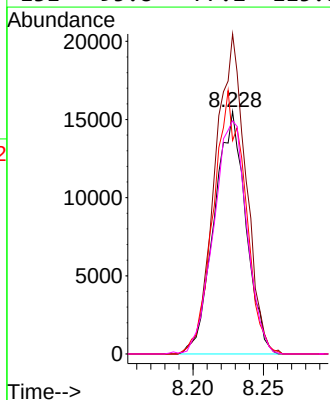
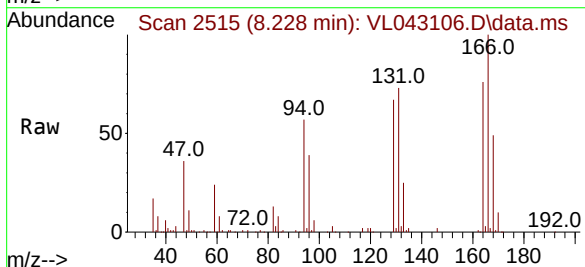
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

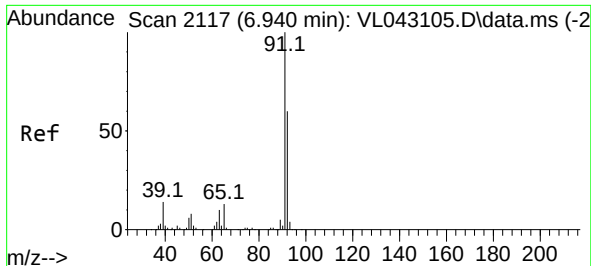
Tgt Ion: 43 Resp: 50642
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 2.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 164 Resp: 24183
Ion Ratio Lower Upper
164 100
166 132.0 97.6 146.4
129 88.0 84.5 126.7
131 95.8 77.2 115.8

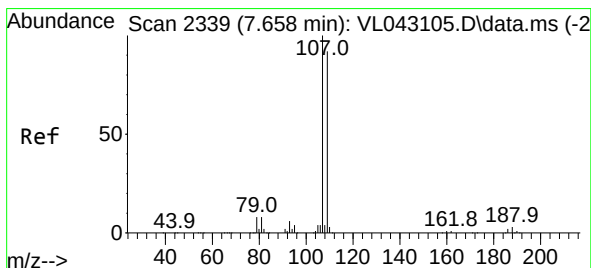
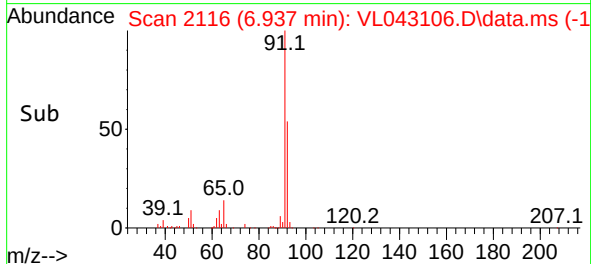
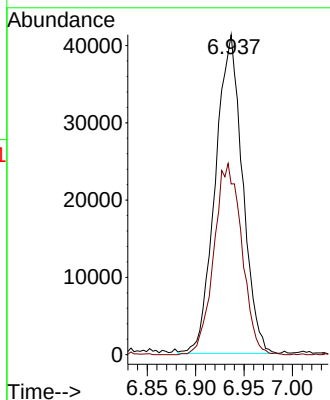
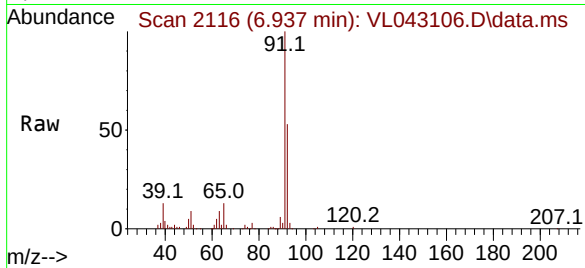




#53
Toluene
Concen: 2.104 ppbv
RT: 6.937 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

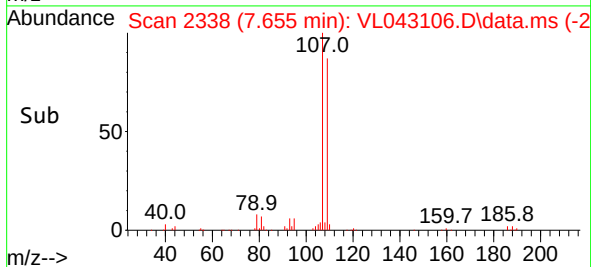
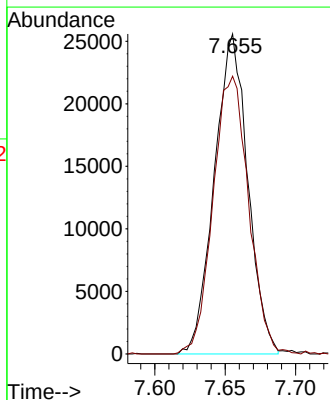
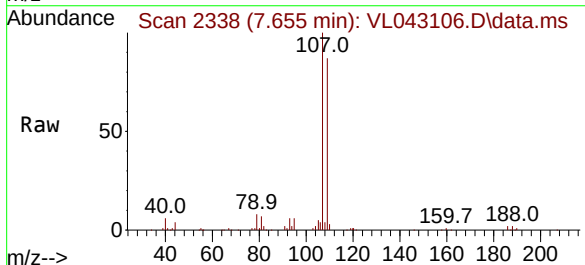
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

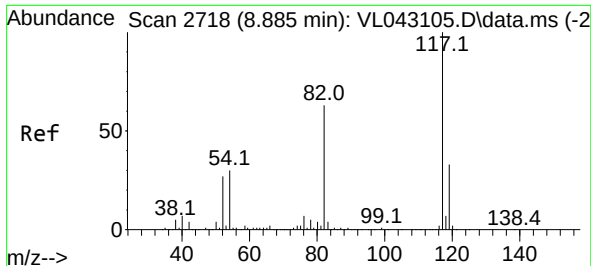
Tgt Ion: 91 Resp: 80660
Ion Ratio Lower Upper
91 100
92 61.5 48.8 73.2



#54
1,2-Dibromoethane
Concen: 2.103 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 107 Resp: 42320
Ion Ratio Lower Upper
107 100
109 86.5 73.4 110.2

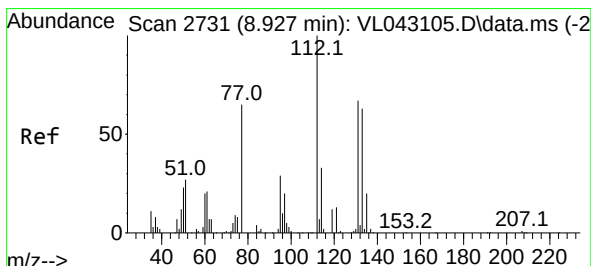
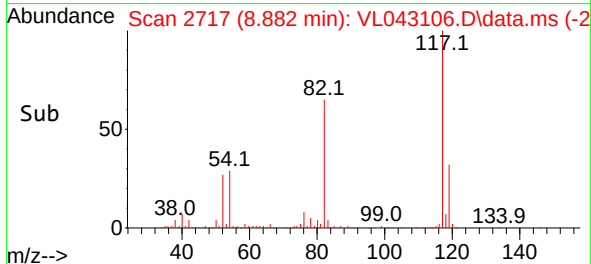
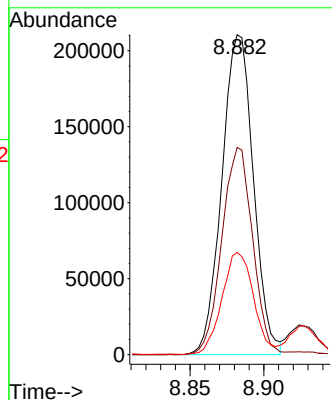
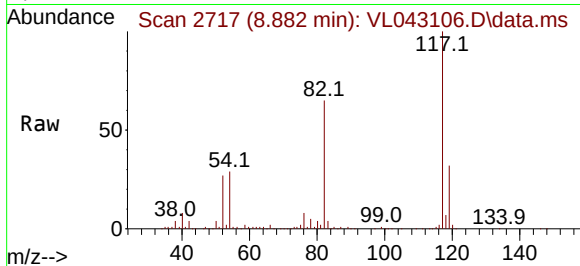




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

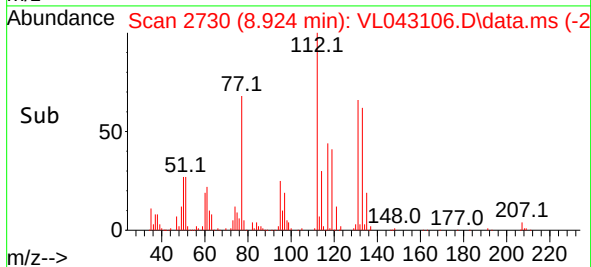
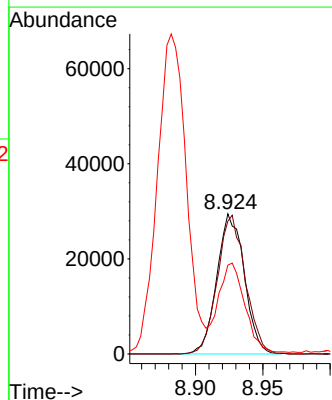
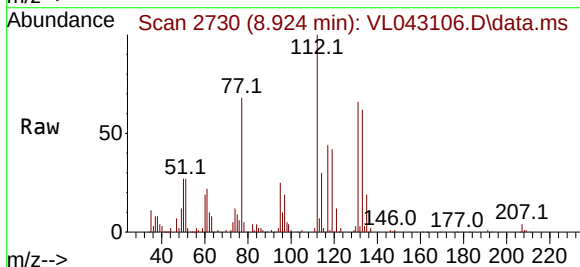
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

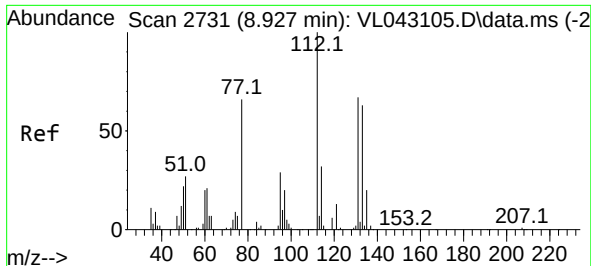
Tgt Ion:117 Resp: 313603
Ion Ratio Lower Upper
117 100
82 63.9 53.8 80.8
119 32.3 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 2.110 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:131 Resp: 41712
Ion Ratio Lower Upper
131 100
133 101.2 75.7 113.5
119 59.2 50.6 76.0

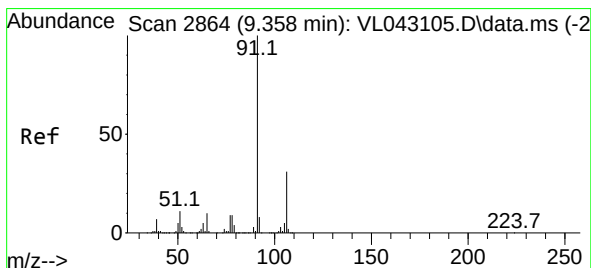
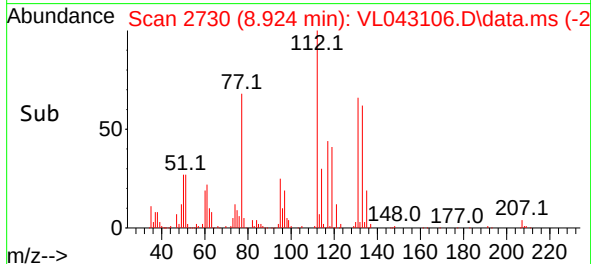
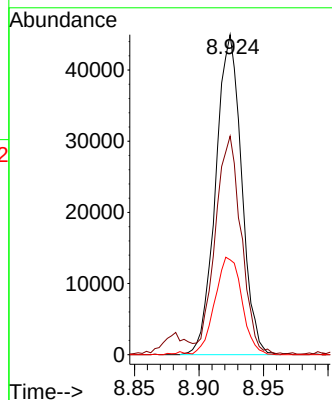
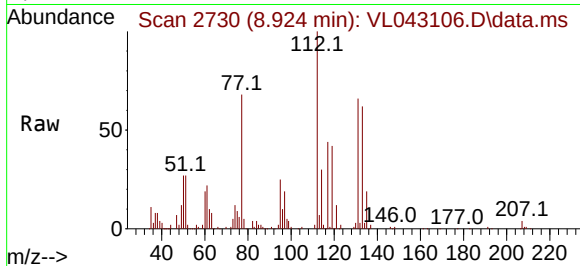




#57
Chlorobenzene
Concen: 2.138 ppbv
RT: 8.924 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

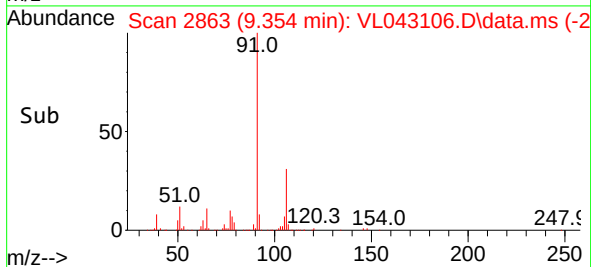
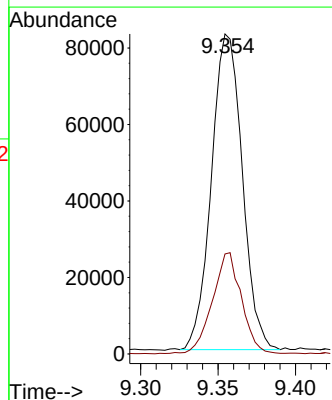
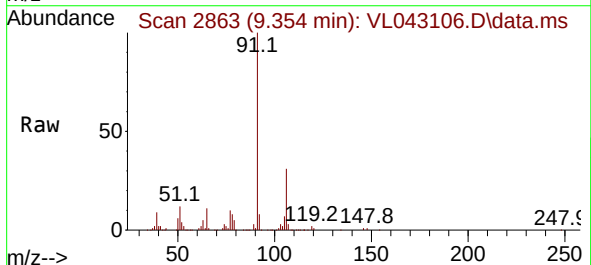
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

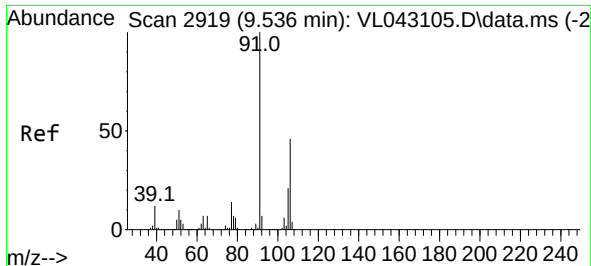
Tgt Ion:112 Resp: 62714
Ion Ratio Lower Upper
112 100
77 67.8 53.3 79.9
114 29.6 29.3 35.8



#58
Ethyl Benzene
Concen: 2.109 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 114403
Ion Ratio Lower Upper
91 100
106 31.5 24.8 37.2

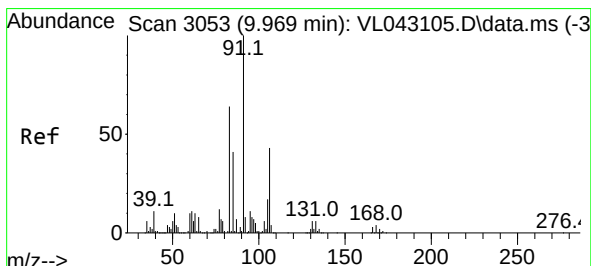
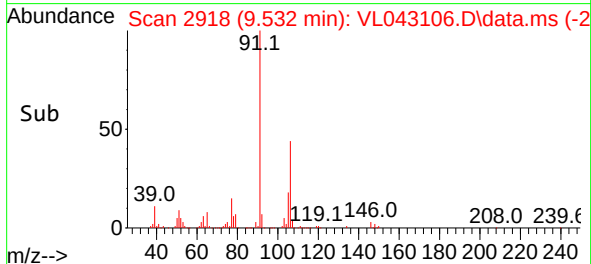
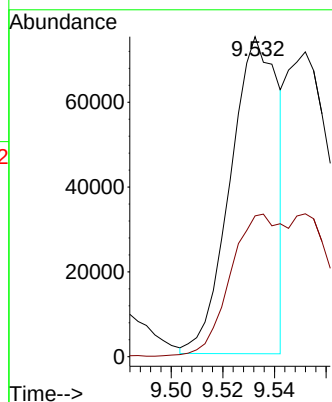
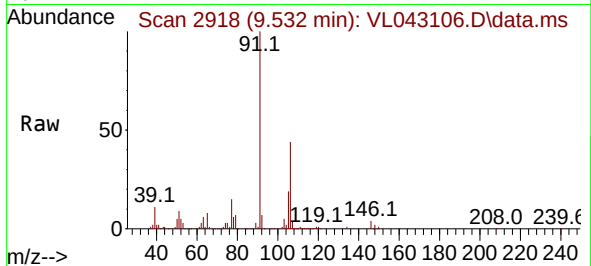




#59
m/p-Xylene
Concen: 2.238 ppbv
RT: 9.532 min Scan# 2919
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

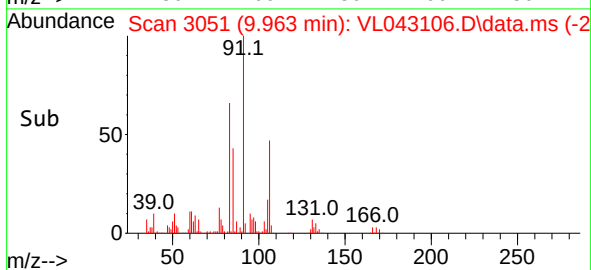
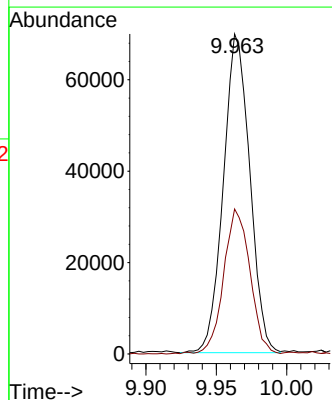
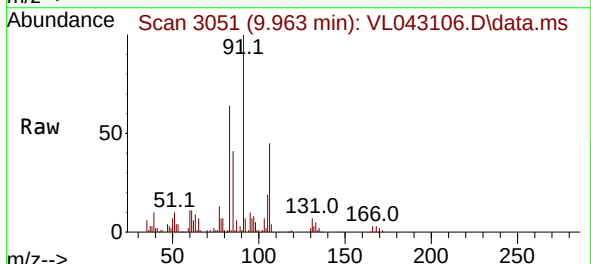
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

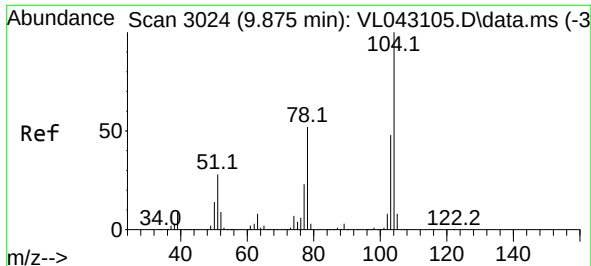
Tgt Ion: 91 Resp: 96158
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 2.152 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 91223
Ion Ratio Lower Upper
91 100
106 45.2 21.9 65.8

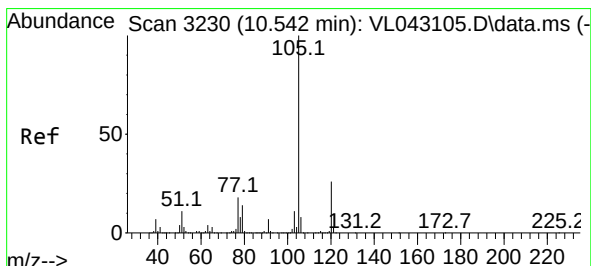
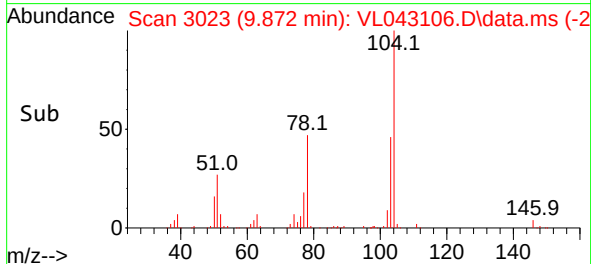
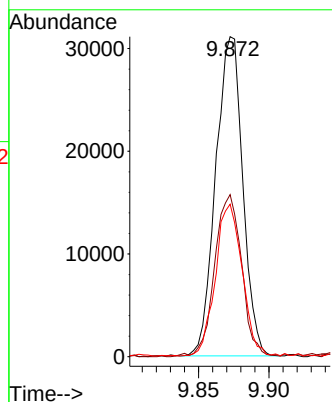
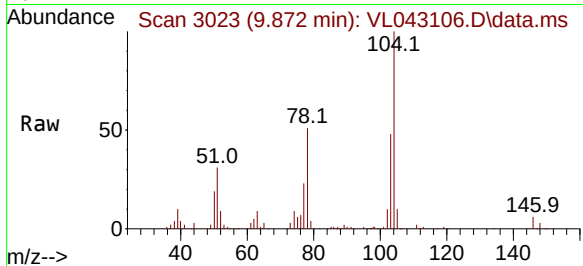




#61
Styrene
Concen: 2.175 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

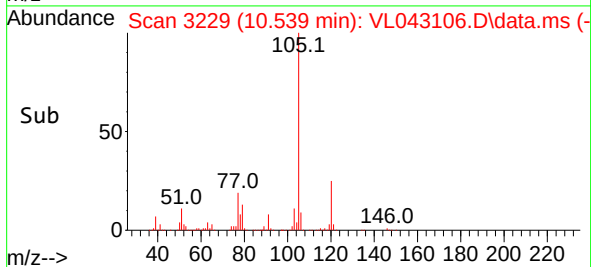
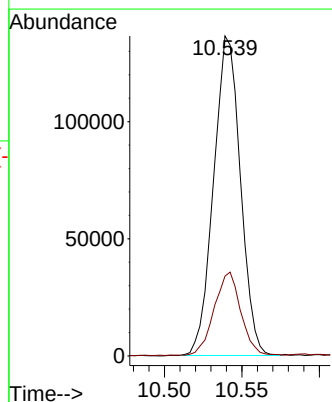
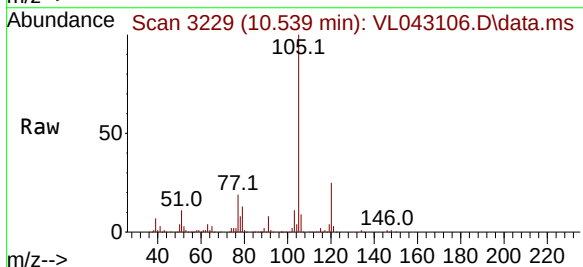
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

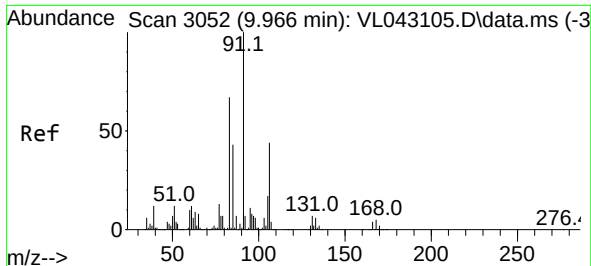
Tgt Ion:104 Resp: 41631
Ion Ratio Lower Upper
104 100
78 51.1 40.2 60.2
103 47.4 36.9 55.3



#62
Isopropylbenzene
Concen: 2.142 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 164073
Ion Ratio Lower Upper
105 100
120 26.1 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 2.061 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

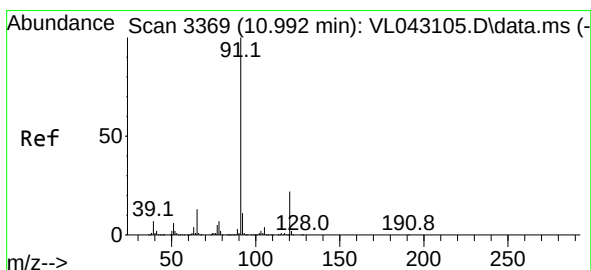
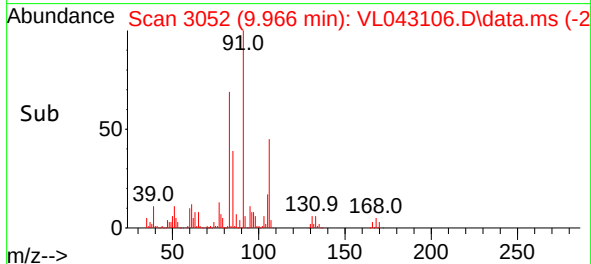
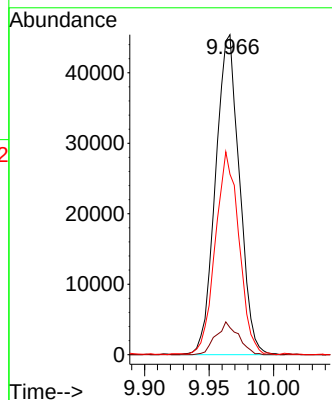
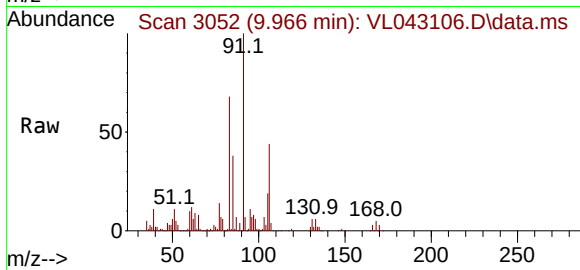
Tgt Ion: 83 Resp: 58510

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

85 63.2 32.0 96.0



#64

n-propylbenzene

Concen: 2.152 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.003 min

Lab File: VL043106.D

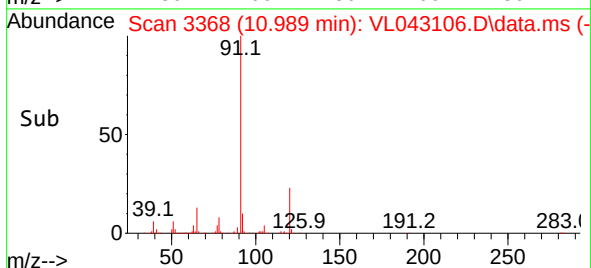
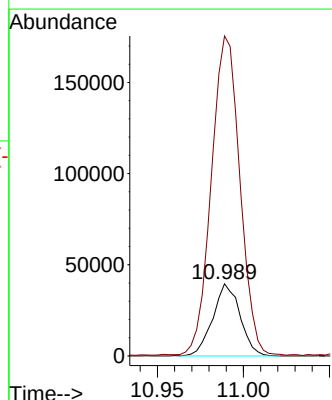
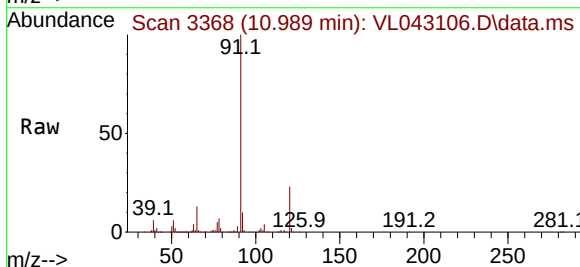
Acq: 14 Oct 2025 11:27

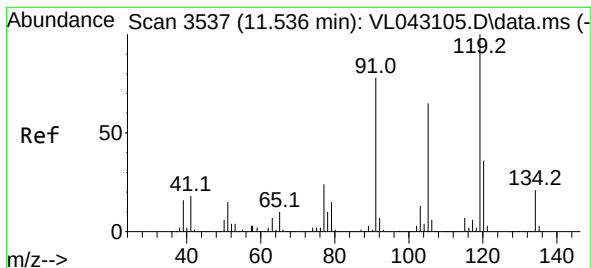
Tgt Ion: 120 Resp: 43648

Ion Ratio Lower Upper

120 100

91 462.4 361.6 542.4

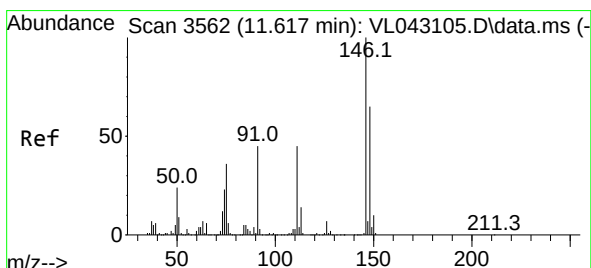
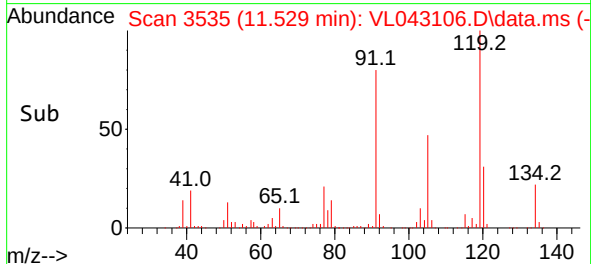
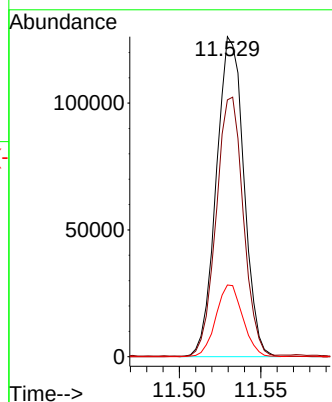
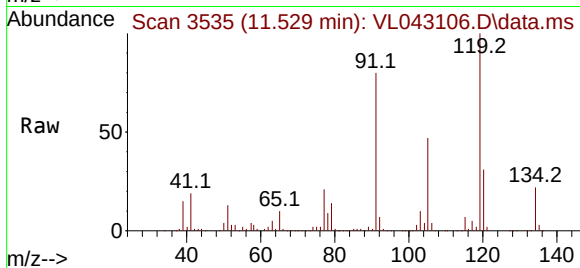




#65
tert-Butylbenzene
Concen: 2.192 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

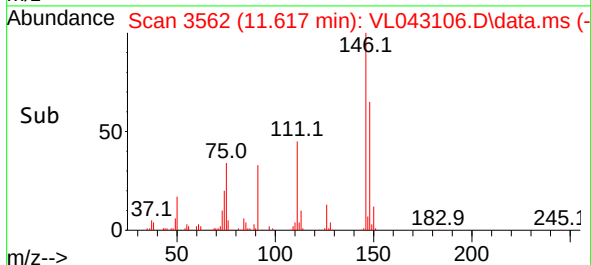
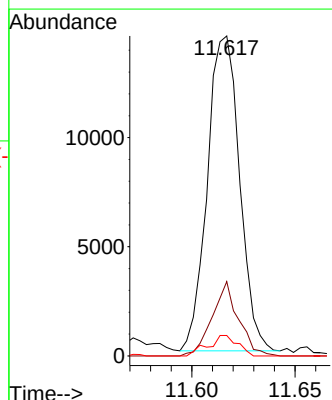
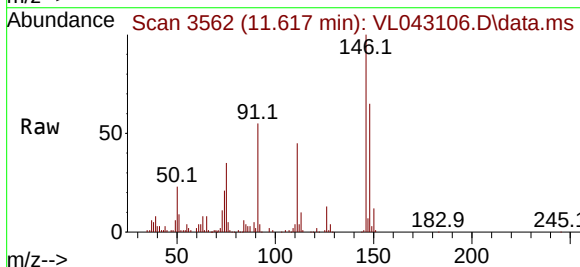
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

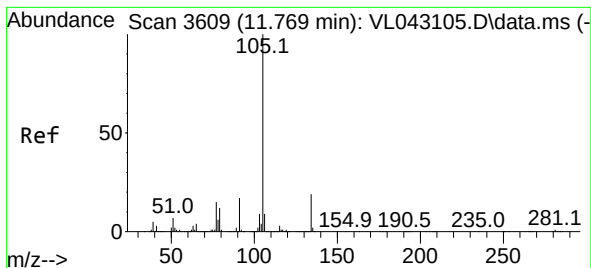
Tgt Ion:119 Resp: 148300
Ion Ratio Lower Upper
119 100
91 80.2 63.4 95.0
134 22.0 17.3 25.9



#66
Benzyl Chloride
Concen: 2.072 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 15656
Ion Ratio Lower Upper
91 100
126 19.2 14.6 22.0
128 5.9 4.6 6.8





#67

sec-Butylbenzene

Concen: 2.193 ppbv

RT: 11.769 min Scan# 3179

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_1

ClientSampleId :

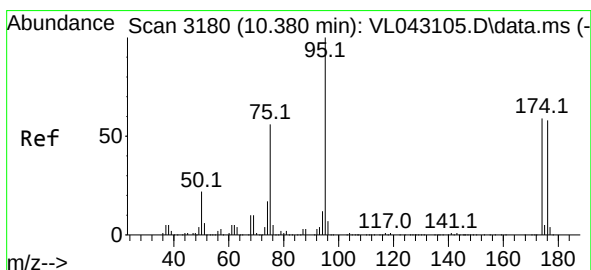
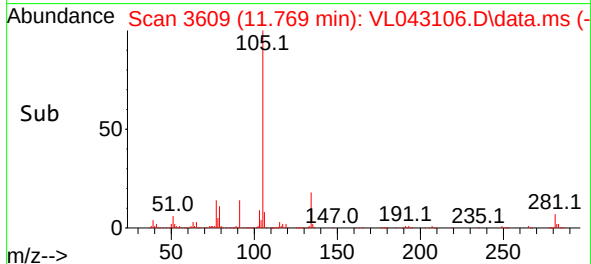
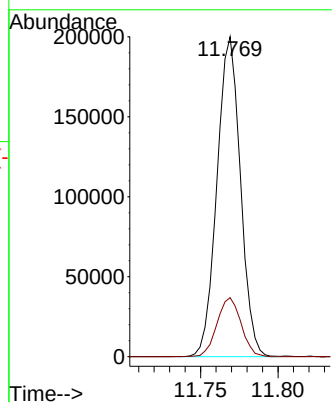
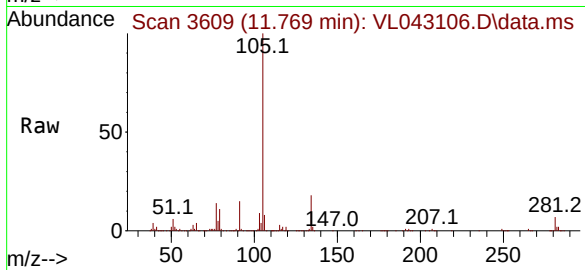
VSTDIC002

Tgt Ion:105 Resp: 210525

Ion Ratio Lower Upper

105 100

134 18.9 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.024 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

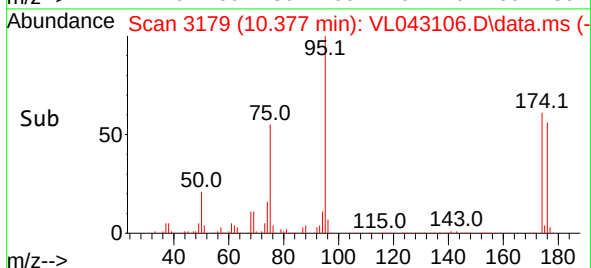
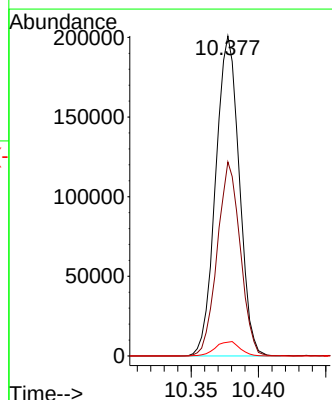
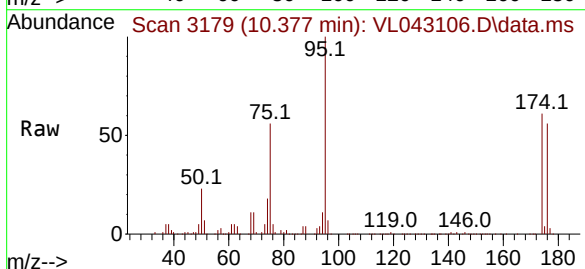
Tgt Ion: 95 Resp: 244329

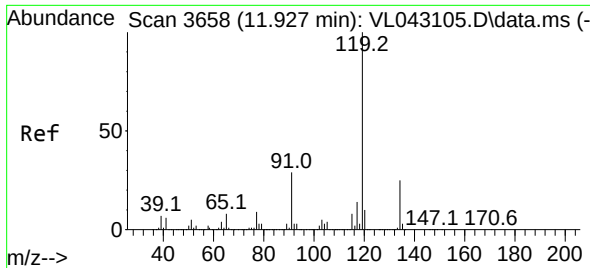
Ion Ratio Lower Upper

95 100

174 59.2 48.3 72.5

175 4.7 3.8 5.8

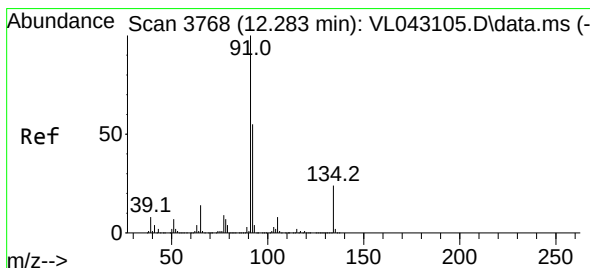
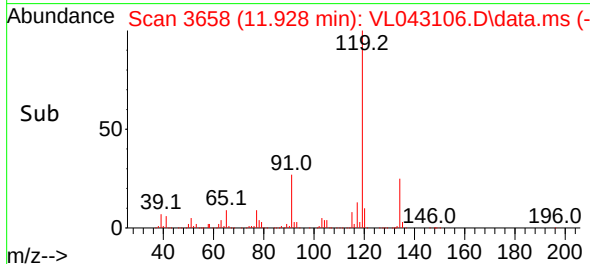
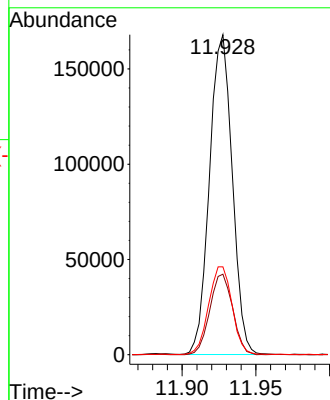
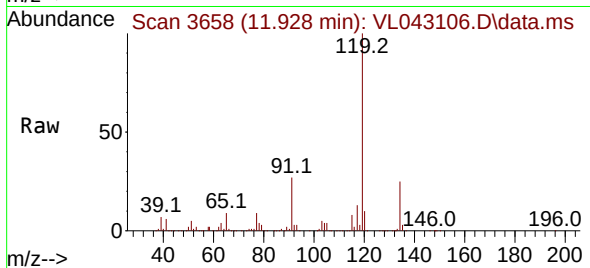




#69
 p-Isopropyltoluene
 Concen: 2.207 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

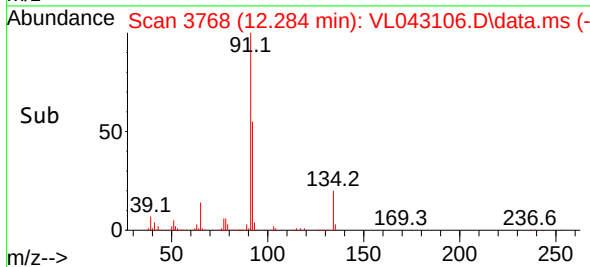
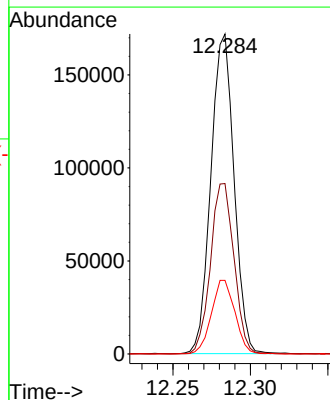
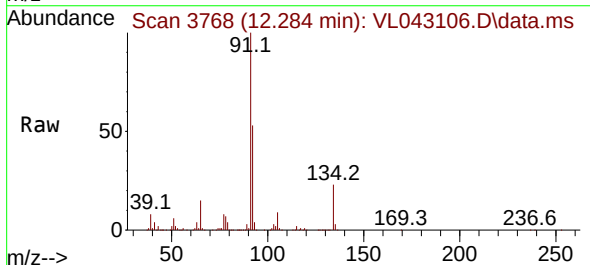
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

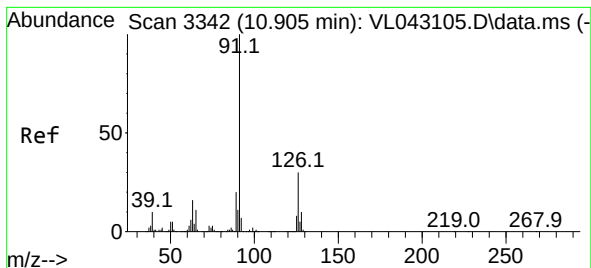
Tgt Ion: 119 Resp: 180060
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.3 30.5
 91 29.0 22.6 33.8



#70
 n-Butylbenzene
 Concen: 2.222 ppbv
 RT: 12.284 min Scan# 3768
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 178676
 Ion Ratio Lower Upper
 91 100
 92 54.2 44.5 66.7
 134 23.4 19.3 28.9

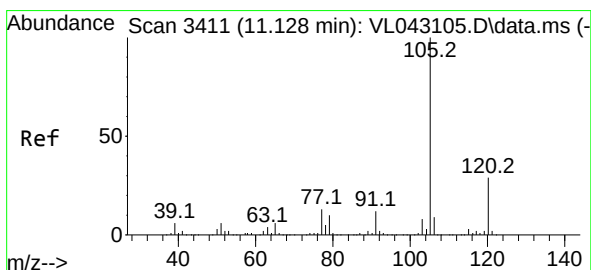
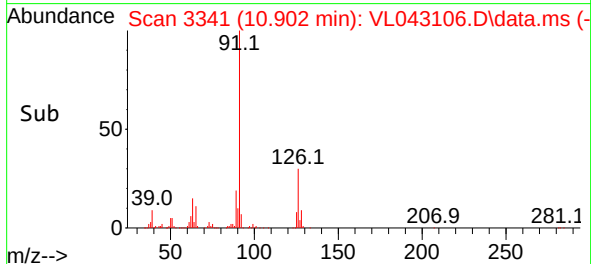
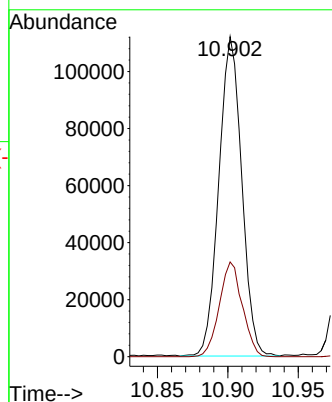
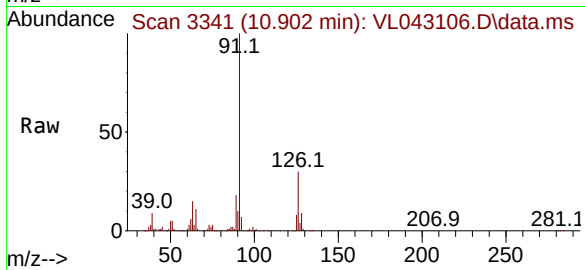




#71
2-Chlorotoluene
Concen: 2.166 ppbv
RT: 10.902 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

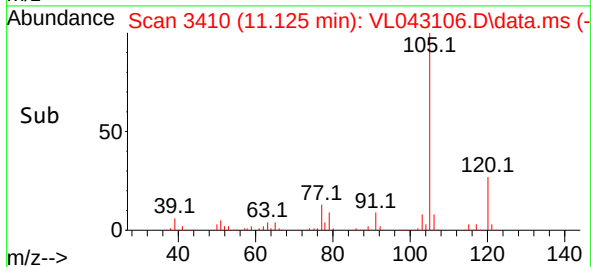
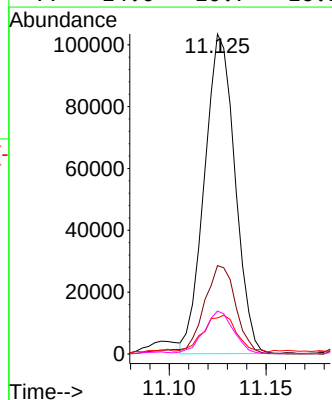
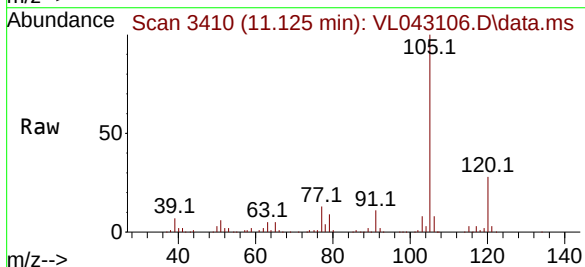
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

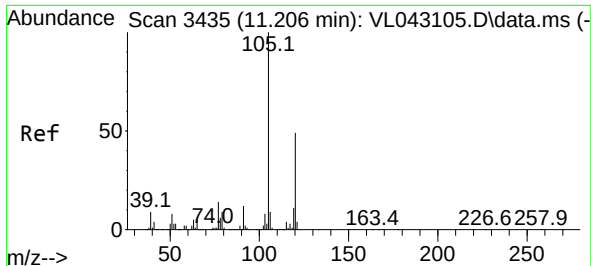
Tgt Ion: 91 Resp: 126551
Ion Ratio Lower Upper
91 100
126 29.7 12.0 48.0



#72
4-Ethyltoluene
Concen: 2.172 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 113233
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 14.8 10.0 15.0
77 14.0 10.7 16.1

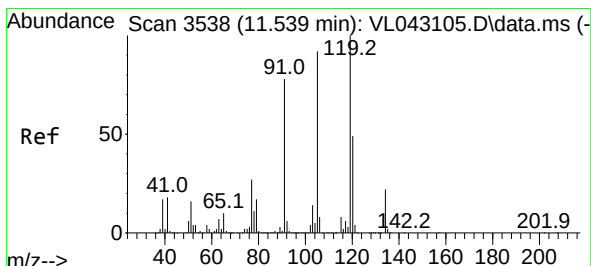
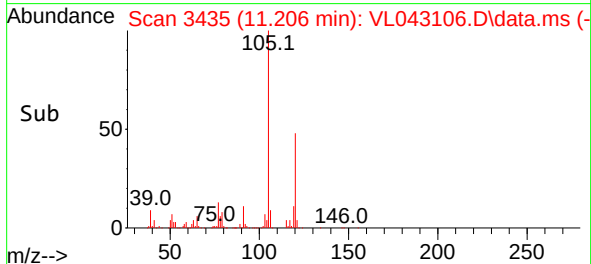
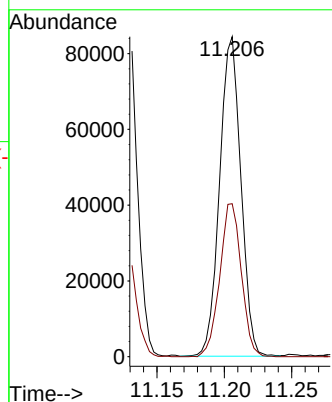
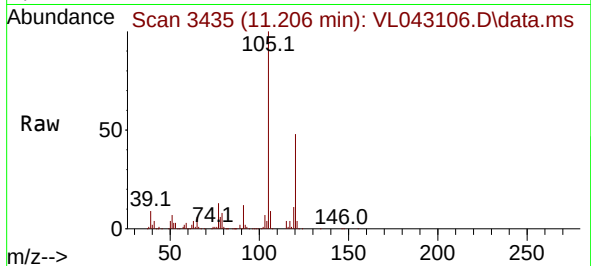




#73
1,3,5-Trimethylbenzene
Concen: 2.155 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

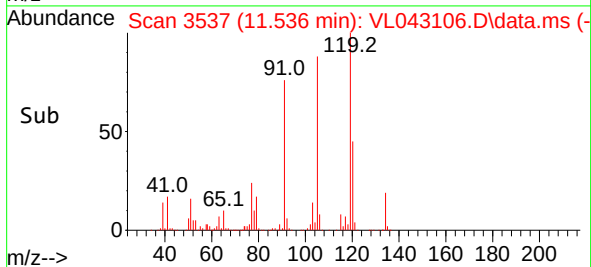
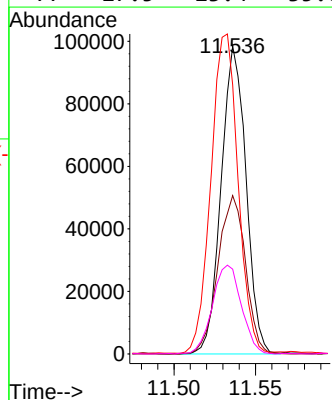
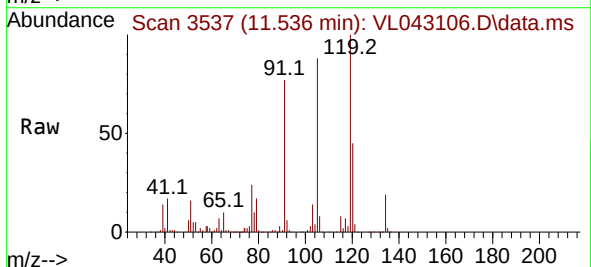
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

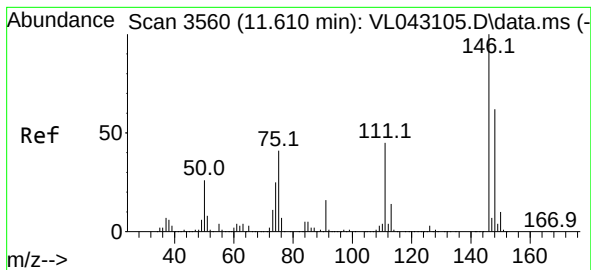
Tgt Ion:105 Resp: 92650
Ion Ratio Lower Upper
105 100
120 47.9 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352
Ion Ratio Lower Upper
105 100
120 51.4 42.8 64.2
91 87.0 68.3 102.5
77 27.5 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 2.247 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

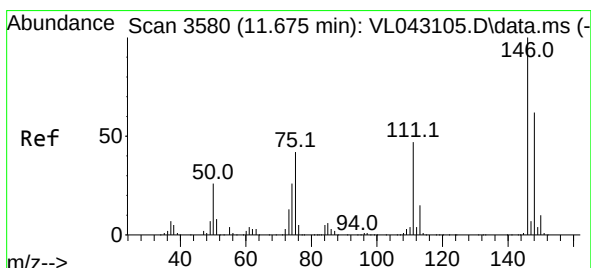
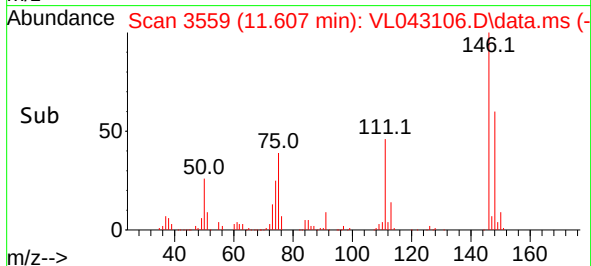
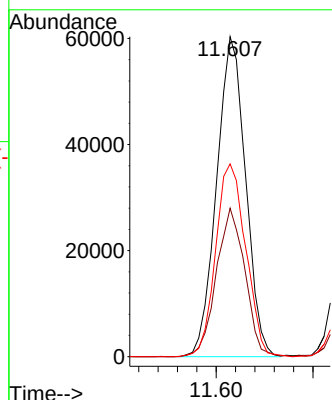
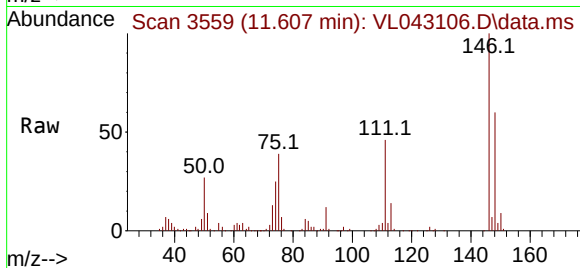
Tgt Ion:146 Resp: 62709

Ion Ratio Lower Upper

146 100

111 45.8 23.3 69.9

148 62.6 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 2.164 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

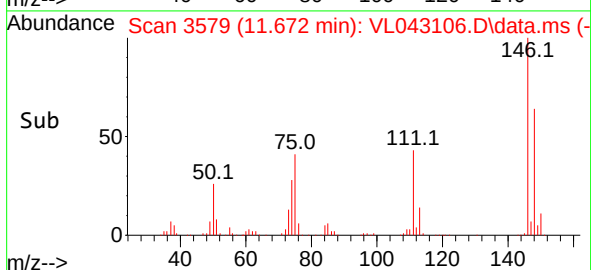
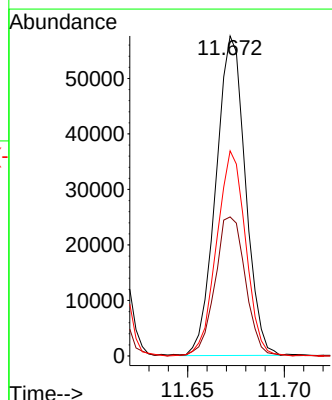
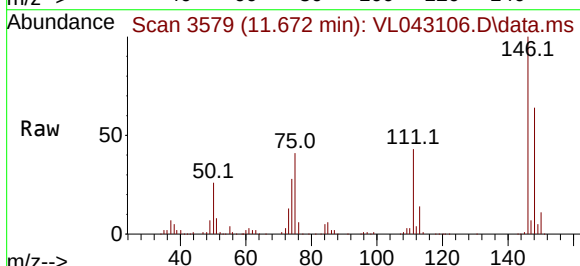
Tgt Ion:146 Resp: 60877

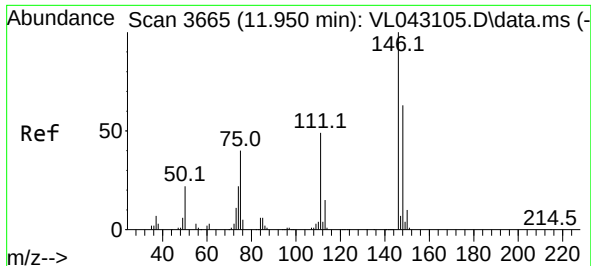
Ion Ratio Lower Upper

146 100

111 44.9 22.4 67.0

148 63.3 31.6 94.7

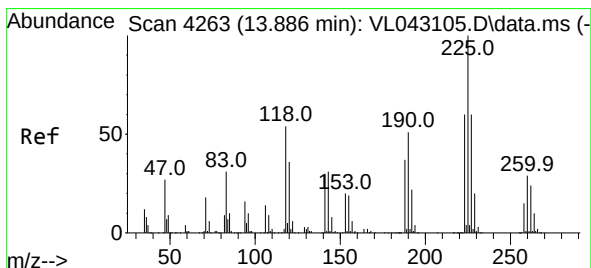
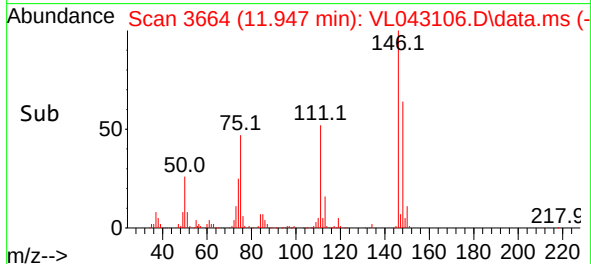
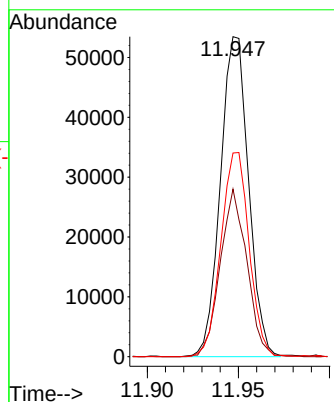
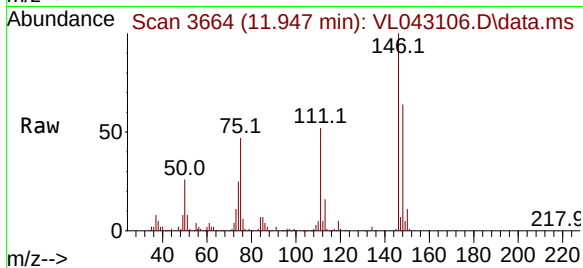




#77
1,2-Dichlorobenzene
Concen: 2.123 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

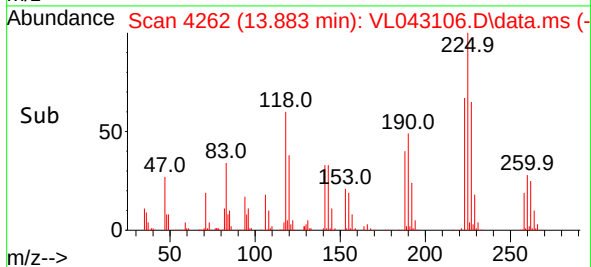
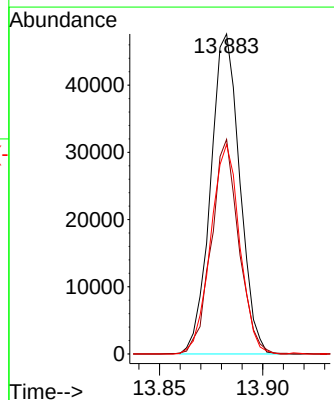
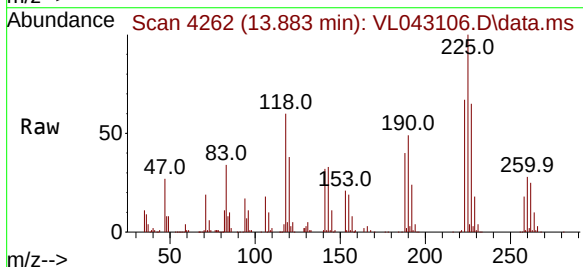
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

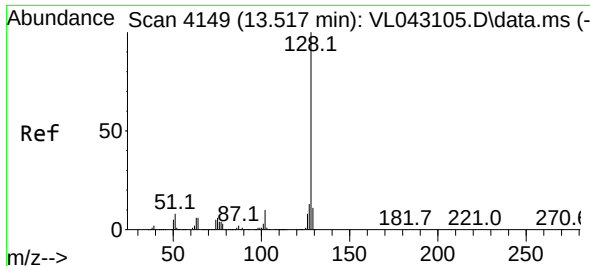
Tgt Ion:146 Resp: 57304
Ion Ratio Lower Upper
146 100
111 49.7 24.0 72.0
148 64.3 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:225 Resp: 46796
Ion Ratio Lower Upper
225 100
223 63.2 50.2 75.4
227 65.2 49.6 74.4

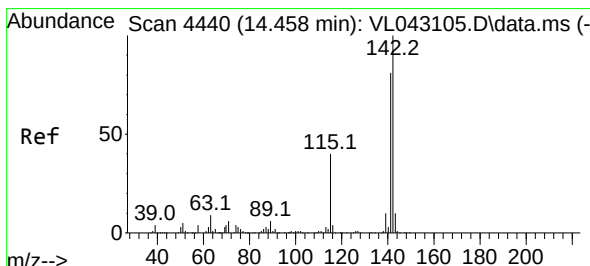
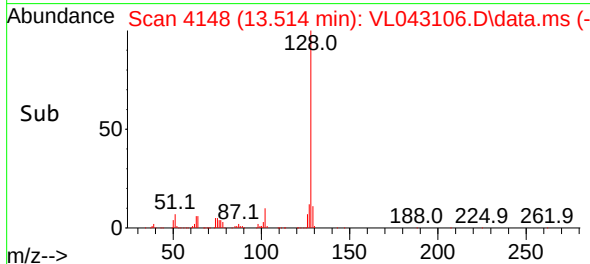
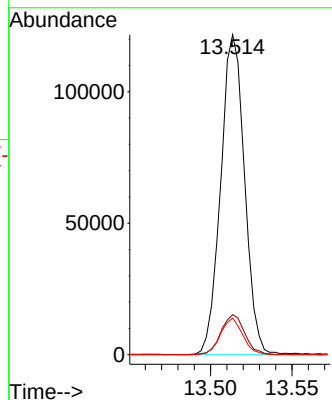
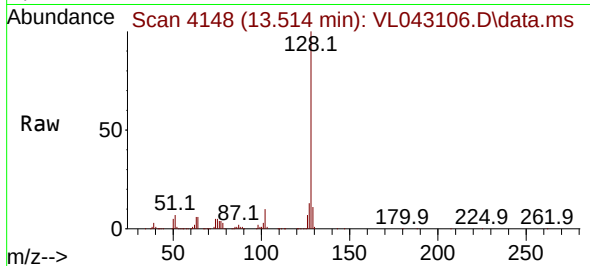




#79
Naphthalene
Concen: 2.488 ppbv
RT: 13.514 min Scan# 4149
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

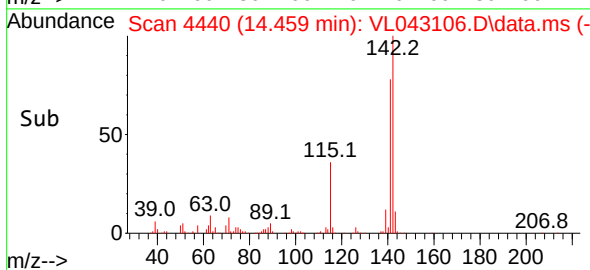
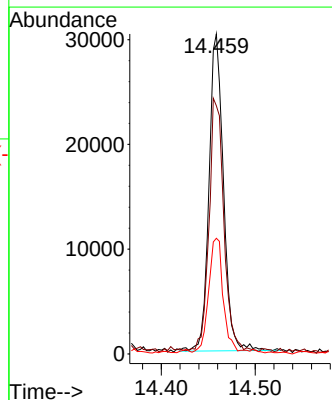
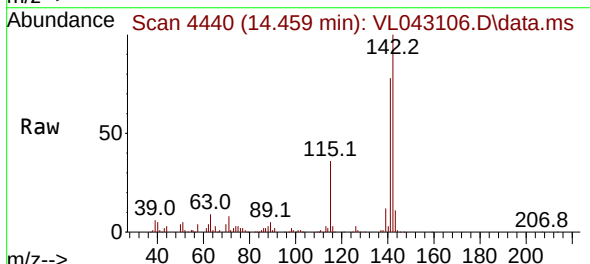
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

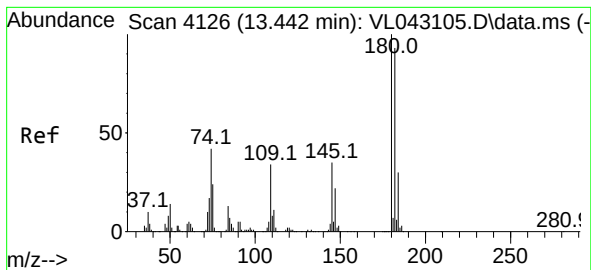
Tgt Ion:128 Resp: 123642
Ion Ratio Lower Upper
128 100
127 12.5 10.5 15.7
129 11.4 9.1 13.7



#80
Naphthalene,2-methyl-
Concen: 2.462 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:142 Resp: 32308
Ion Ratio Lower Upper
142 100
141 82.6 64.6 97.0
115 39.7 30.2 45.4

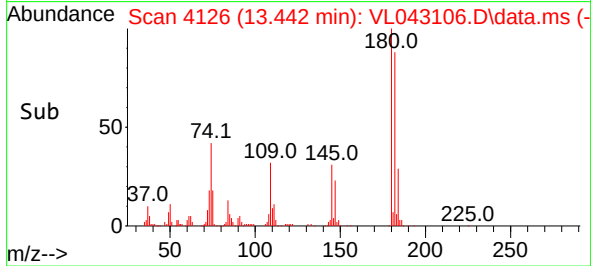
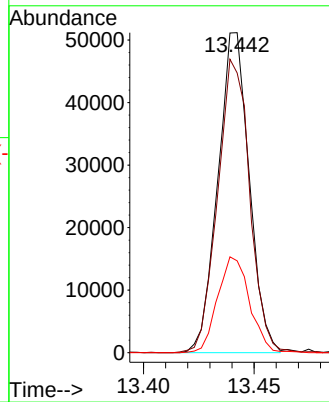
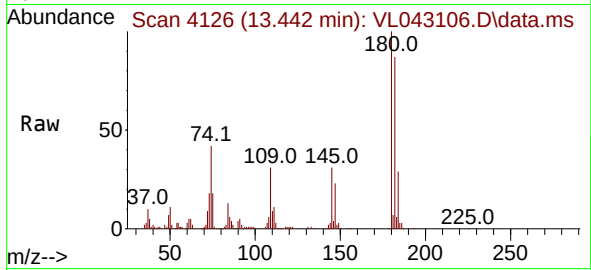




#81
 1,2,4-Trichlorobenzene
 Concen: 2.414 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 50394
 Ion Ratio Lower Upper
 180 100
 182 93.9 75.5 113.3
 184 30.6 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Oct 15 01:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	102307	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	336268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	305409	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	235307	9.912	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	15620	1.074	ppbv	99
3) Chlorodifluoromethane	1.476	51	16692	1.061	ppbv #	91
4) Chloromethane	1.534	50	6353	1.103	ppbv	93
5) Vinyl Chloride	1.580	62	5694	1.008	ppbv	96
6) Bromomethane	1.667	94	3462	1.117	ppbv	98
7) Chloroethane	1.706	64	2615	1.132	ppbv #	82
8) Dichlorotetrafluoroethane	1.554	85	12940	1.101	ppbv	98
9) Propene	1.483	41	7291	1.045	ppbv	100
10) Heptane	4.978	43	22011	1.100	ppbv	99
11) Trichlorofluoromethane	1.877	101	14927	1.049	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.140	101	12484	1.090	ppbv	99
13) Ethanol	1.722	45	3143	1.217	ppbv	83
14) Bromoethene	1.780	108	4440	1.043	ppbv #	90
15) Acetone	1.835	43	15572	1.123	ppbv	90
16) 1,3-Butadiene	1.609	39	7157	1.089	ppbv	97
17) tert-Butyl alcohol	2.043	59	20941	1.106	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	5510	1.103	ppbv	88
19) Isopropyl Alcohol	1.887	45	9796	1.141	ppbv #	85
20) Methylene Chloride	2.062	84	6261	1.149	ppbv	96
21) Allyl Chloride	2.094	41	10737	1.055	ppbv #	82
22) trans-1,2-Dichloroethene	2.340	96	7119	1.193	ppbv	92
23) Vinyl Acetate	2.463	43	19477	0.964	ppbv	99
24) 1,1-Dichloroethane	2.405	63	12656	1.097	ppbv #	94
25) Ethyl Acetate	2.832	43	37093	1.085	ppbv	98
26) Hexane	2.826	57	17152	1.089	ppbv	98
27) Carbon Disulfide	2.149	76	15760	1.092	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	7847	1.095	ppbv #	87
29) Chloroform	2.845	83	24527	1.074	ppbv	90
30) Cyclohexane	3.855	84	14819	1.078	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	16311	1.084	ppbv	93
32) 1,1,1-Trichloroethane	3.366	97	24948	1.049	ppbv	98
34) 2-Butanone	2.557	43	23811	1.047	ppbv	100
35) Carbon Tetrachloride	3.761	117	24969	1.033	ppbv	93
36) Benzene	3.651	78	32940	1.040	ppbv	99
37) 1,2-Dichloroethane	3.217	62	19213	1.053	ppbv	100
38) Trichloroethene	4.544	130	13512	1.023	ppbv	96
39) 1,2-Dichloropropane	4.311	63	12435	1.073	ppbv	92
40) 1,4-Dioxane	4.593	88	3225	0.622	ppbv #	21
41) Tetrahydrofuran	3.056	42	13251	1.044	ppbv	99
42) Bromodichloromethane	4.486	83	26069	1.032	ppbv #	94
43) Methyl Methacrylate	4.878	69	17195	1.064	ppbv	97
44) 2,2,4-Trimethylpentane	4.638	57	57382	1.084	ppbv	96
45) t-1,3-Dichloropropene	6.415	75	7304	0.452	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

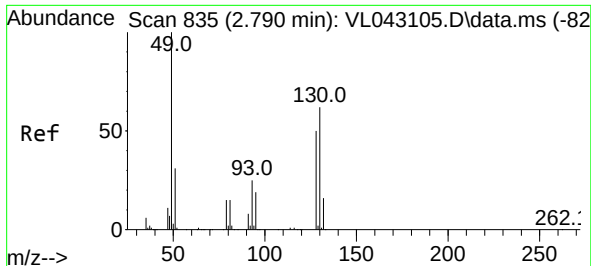
Quant Time: Oct 15 01:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	19830	1.029	ppbv	94
47) 1,1,2-Trichloroethane	6.577	97	12876	1.030	ppbv	98
48) Dibromochloromethane	7.383	129	21874	1.046	ppbv	97
49) Bromoform	9.480	173	17320	1.019	ppbv	96
50) 4-Methyl-2-Pentanone	5.745	43	11642	0.371	ppbv #	38
51) 2-Hexanone	7.441	43	23817	1.018	ppbv #	95
52) Tetrachloroethene	8.224	164	12319	1.079	ppbv	91
53) Toluene	6.930	91	39079	1.040	ppbv	98
54) 1,2-Dibromoethane	7.652	107	19711	0.999	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.920	131	20279	1.053	ppbv	96
57) Chlorobenzene	8.920	112	30824	1.079	ppbv	97
58) Ethyl Benzene	9.351	91	55420	1.049	ppbv	96
59) m/p-Xylene	9.532	91	45483	1.087	ppbv #	29
60) o-Xylene	9.963	91	44925	1.088	ppbv	100
61) Styrene	9.869	104	19809	1.063	ppbv	98
62) Isopropylbenzene	10.535	105	81579	1.093	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	28230	1.021	ppbv	100
64) n-propylbenzene	10.985	120	21685	1.098	ppbv	98
65) tert-Butylbenzene	11.529	119	72781	1.105	ppbv	99
66) Benzyl Chloride	11.613	91	7918	1.076	ppbv	97
67) sec-Butylbenzene	11.765	105	103152	1.103	ppbv	100
69) p-Isopropyltoluene	11.924	119	88443	1.113	ppbv	99
70) n-Butylbenzene	12.280	91	86120	1.100	ppbv	98
71) 2-Chlorotoluene	10.898	91	60994	1.072	ppbv	99
72) 4-Ethyltoluene	11.121	105	53788	1.059	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	44786	1.070	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	52118	1.112	ppbv	95
75) 1,3-Dichlorobenzene	11.604	146	29186	1.074	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	29225	1.066	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	29146	1.109	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	23330	1.146	ppbv	99
79) Naphthalene	13.510	128	53930	1.114	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	10851	0.849	ppbv	94
81) 1,2,4-Trichlorobenzene	13.439	180	22161	1.090	ppbv	98

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

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

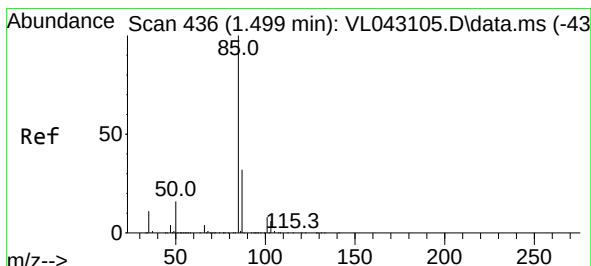
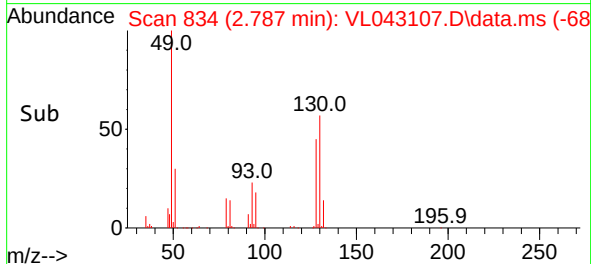
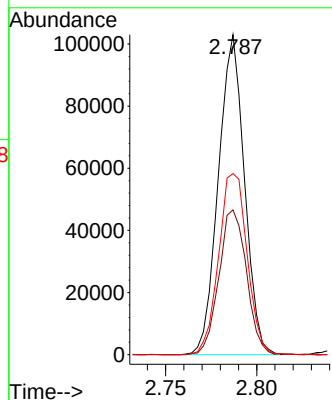
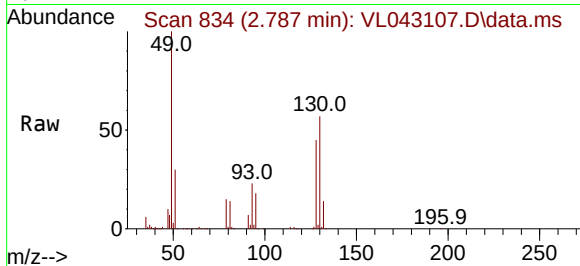




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

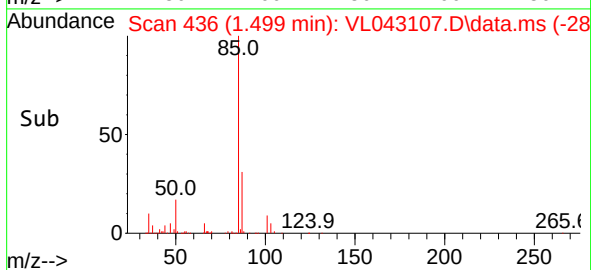
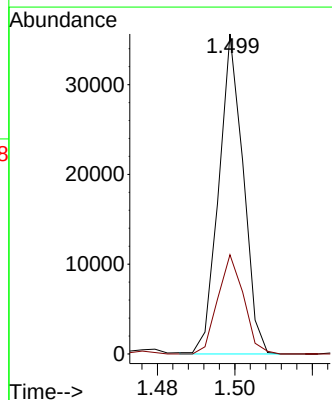
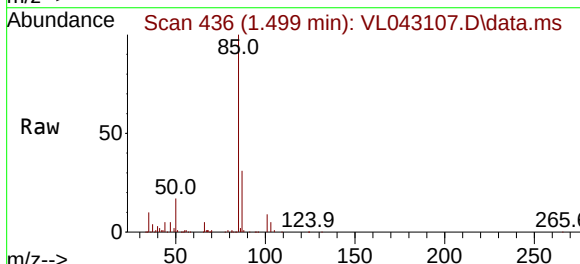
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

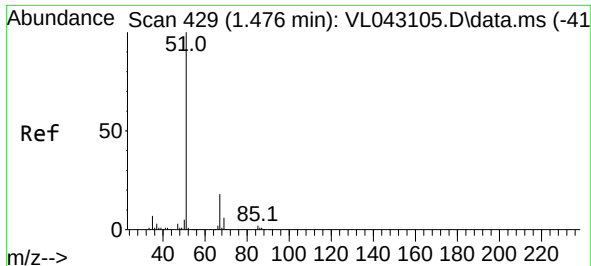
Tgt Ion: 49 Resp: 102307
Ion Ratio Lower Upper
49 100
128 48.0 24.4 73.4
130 62.0 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 1.074 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620
Ion Ratio Lower Upper
85 100
87 31.0 25.3 37.9

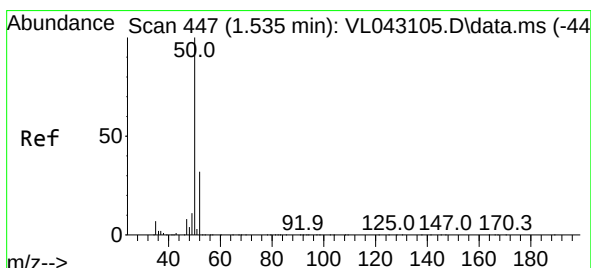
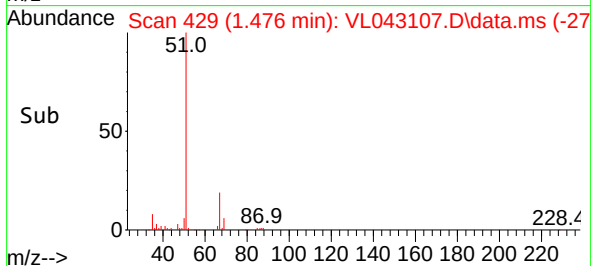
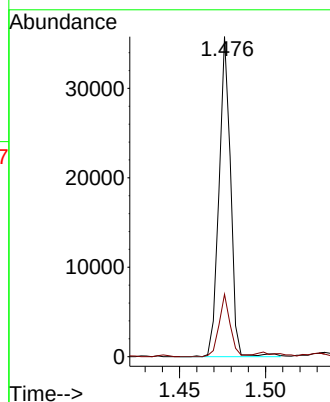
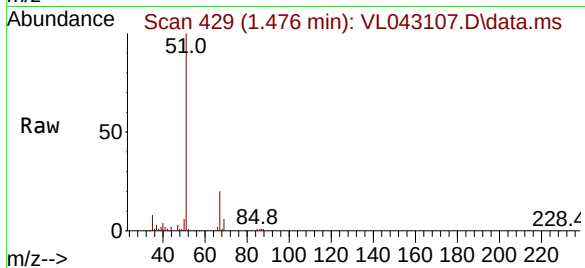




#3
Chlorodifluoromethane
Concen: 1.061 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

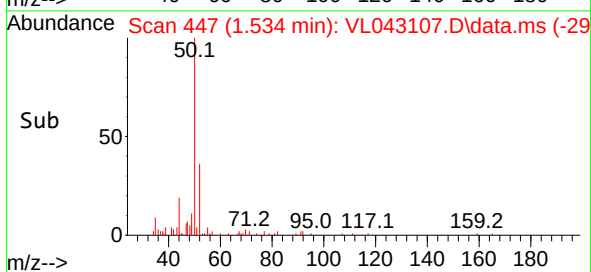
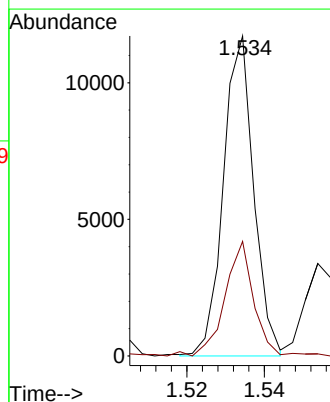
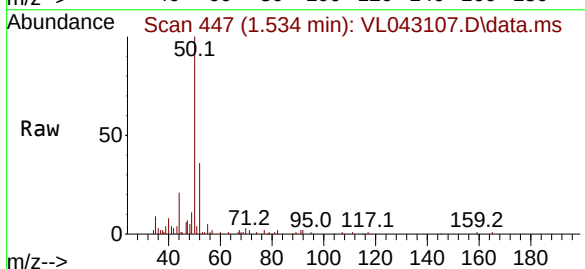
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

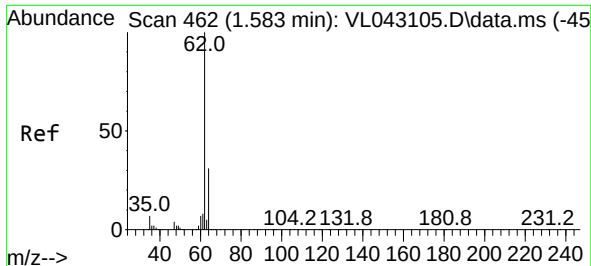
Tgt Ion: 51 Resp: 16692
Ion Ratio Lower Upper
51 100
67 22.8 15.1 22.7#



#4
Chloromethane
Concen: 1.103 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 50 Resp: 6353
Ion Ratio Lower Upper
50 100
52 35.6 25.2 37.8

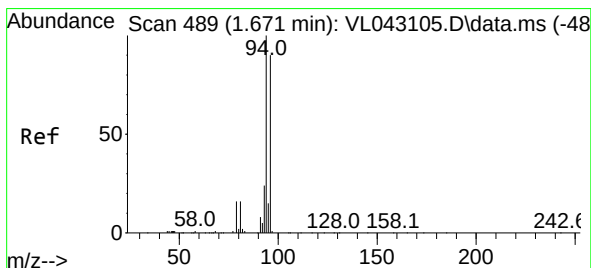
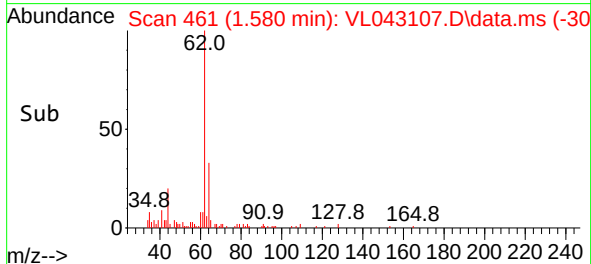
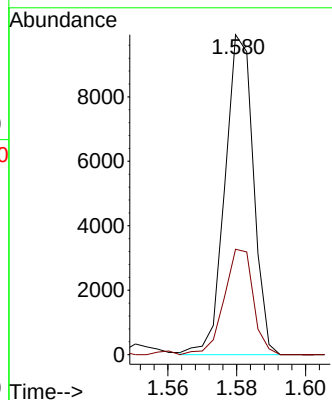
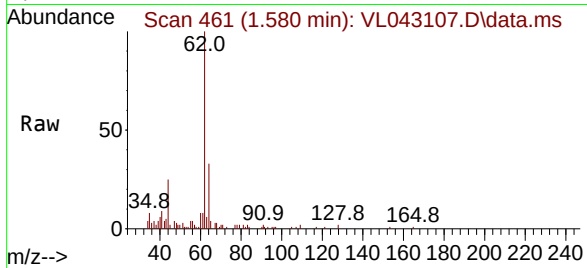




#5
 Vinyl Chloride
 Concen: 1.008 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

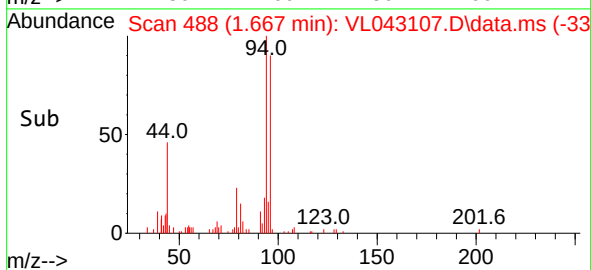
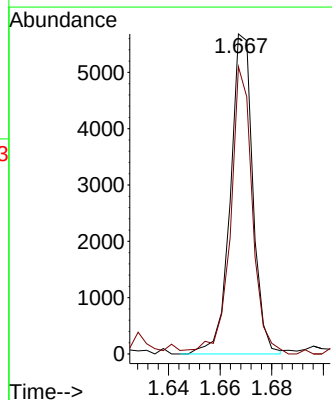
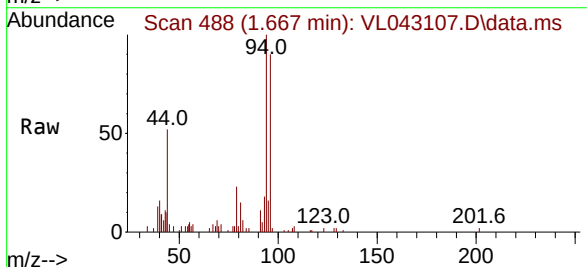
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

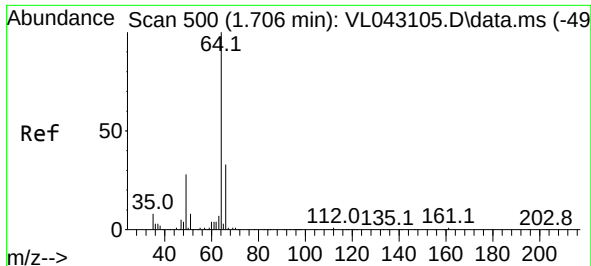
Tgt Ion: 62 Resp: 5694
 Ion Ratio Lower Upper
 62 100
 64 32.9 24.6 36.8



#6
 Bromomethane
 Concen: 1.117 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 94 Resp: 3462
 Ion Ratio Lower Upper
 94 100
 96 88.6 72.2 108.4

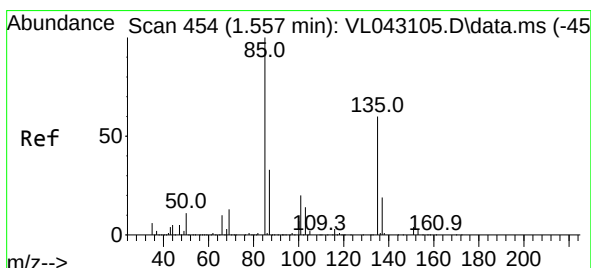
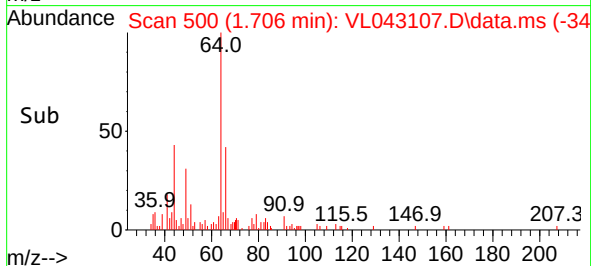
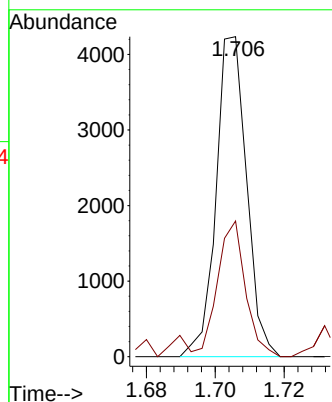
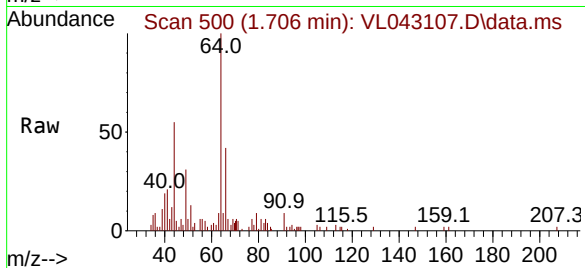




#7
Chloroethane
Concen: 1.132 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

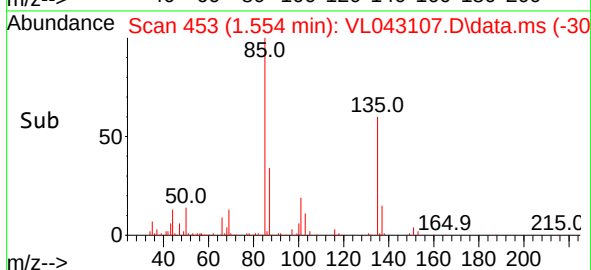
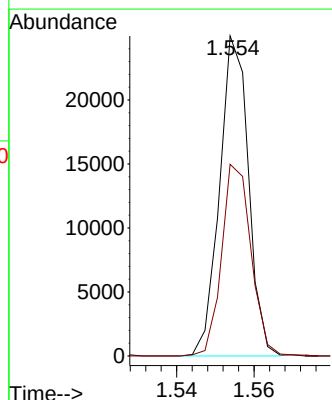
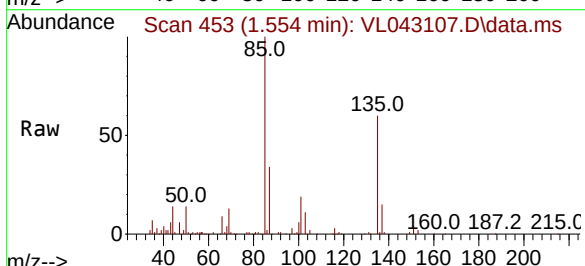
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

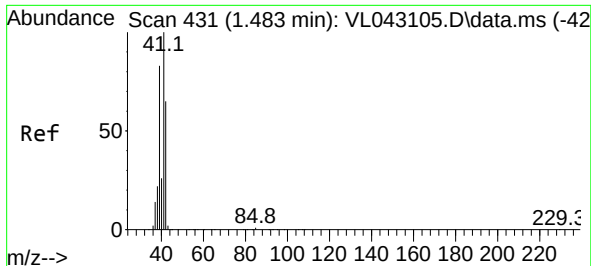
Tgt Ion: 64 Resp: 2615
Ion Ratio Lower Upper
64 100
66 42.4 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 1.101 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 12940
Ion Ratio Lower Upper
85 100
135 61.5 48.2 72.4





#9

Propene

Concen: 1.045 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

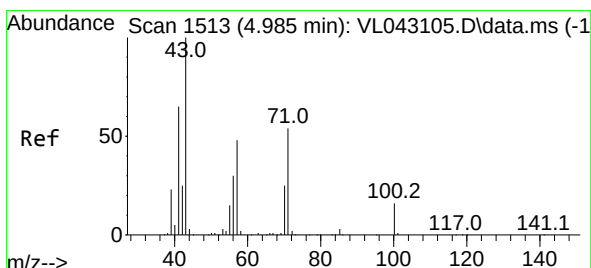
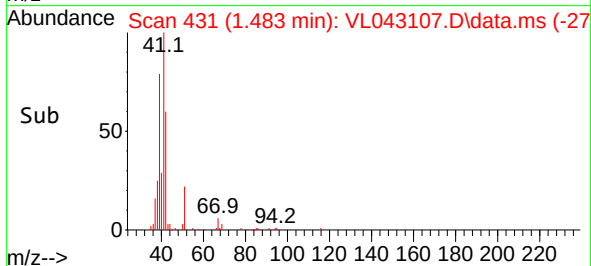
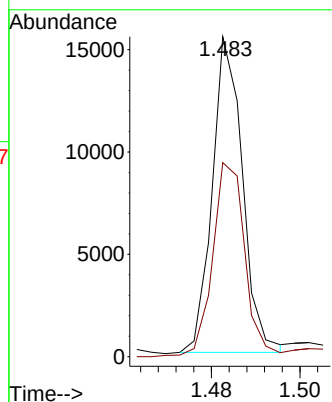
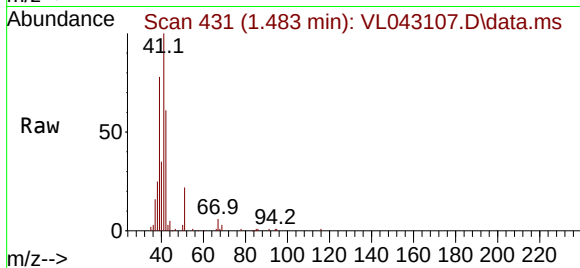
VSTDIC001

Tgt Ion: 41 Resp: 7291

Ion Ratio Lower Upper

41 100

42 68.5 55.1 82.7



#10

Heptane

Concen: 1.100 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.007 min

Lab File: VL043107.D

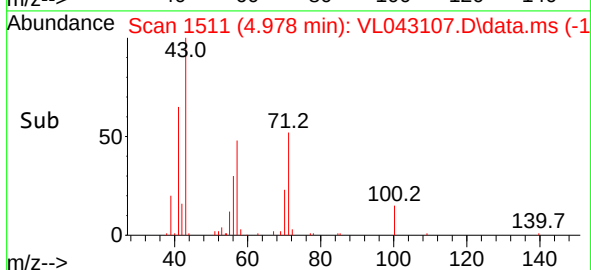
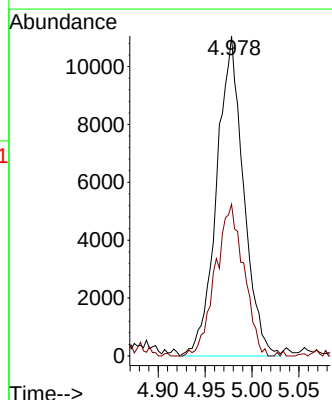
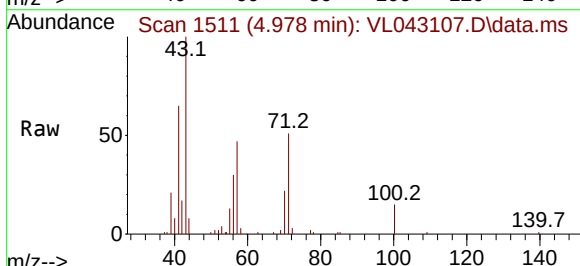
Acq: 14 Oct 2025 12:01

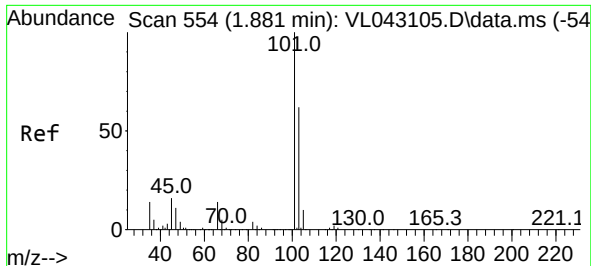
Tgt Ion: 43 Resp: 22011

Ion Ratio Lower Upper

43 100

57 50.4 40.8 61.2

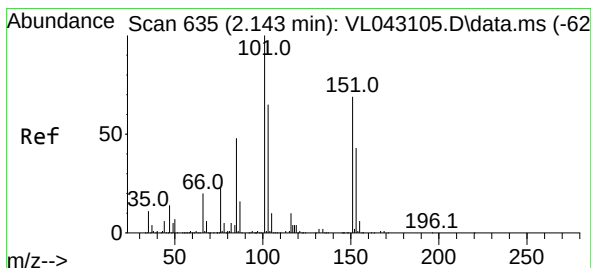
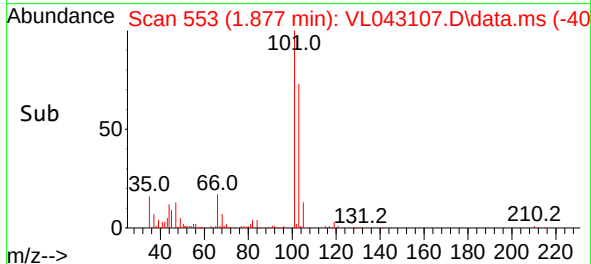
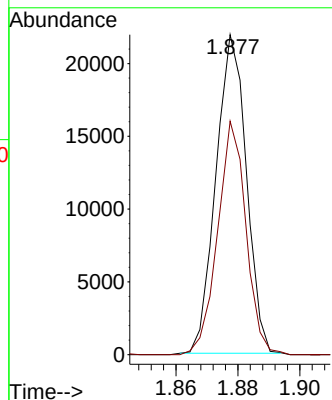
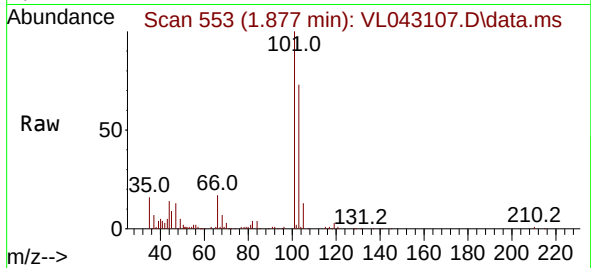




#11
 Trichlorofluoromethane
 Concen: 1.049 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

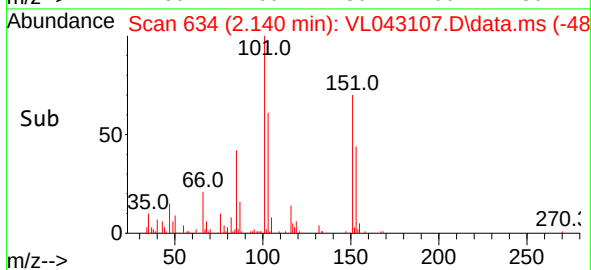
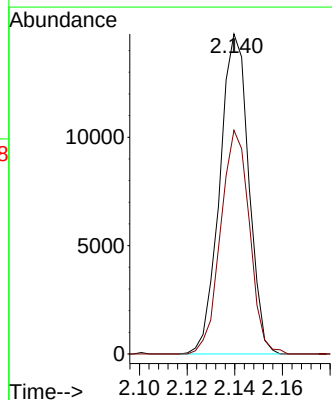
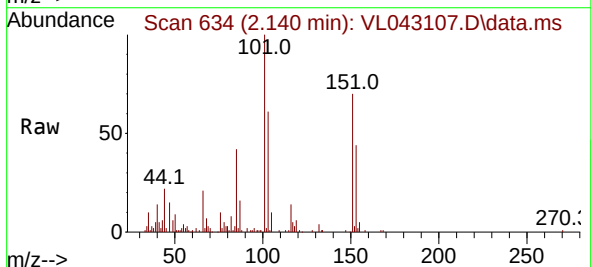
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

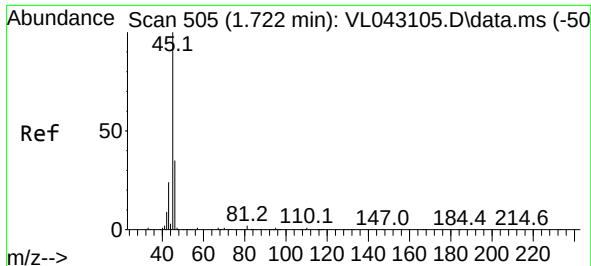
Tgt Ion:101 Resp: 14927
 Ion Ratio Lower Upper
 101 100
 103 73.3 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.090 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion:101 Resp: 12484
 Ion Ratio Lower Upper
 101 100
 151 69.5 54.7 82.1

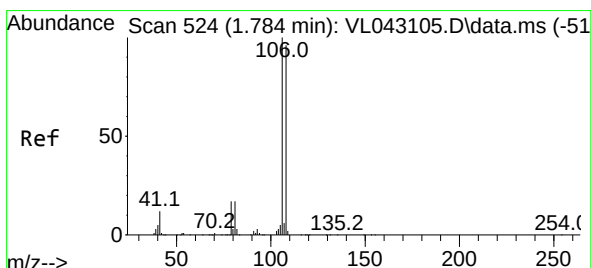
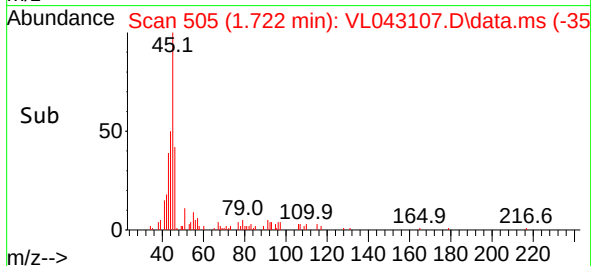
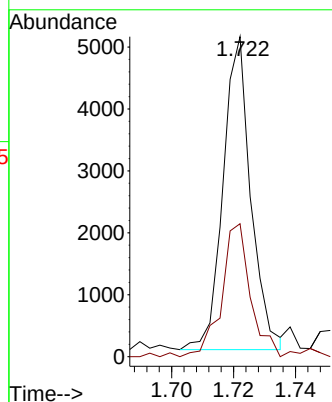
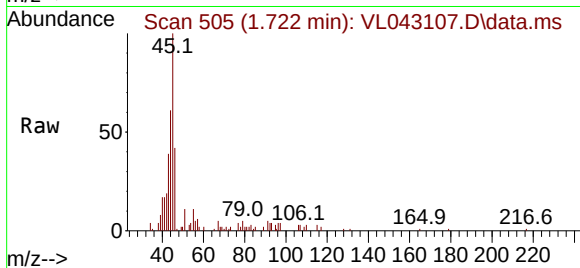




#13
Ethanol
Concen: 1.217 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

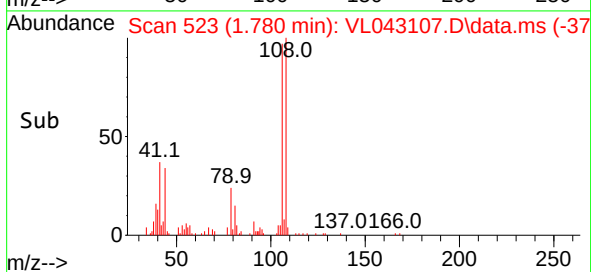
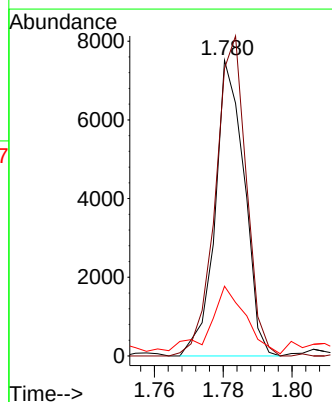
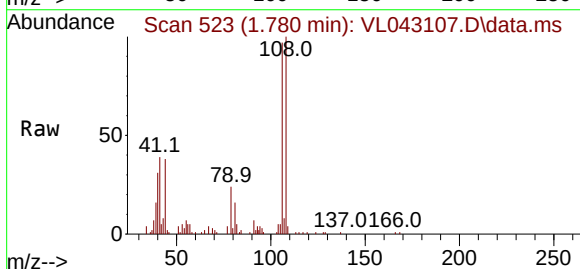
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

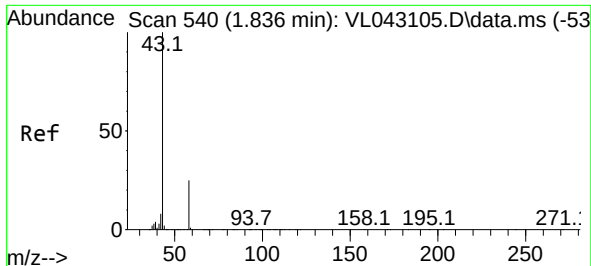
Tgt Ion: 45 Resp: 3143
Ion Ratio Lower Upper
45 100
46 46.7 14.7 58.9



#14
Bromoethene
Concen: 1.043 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 108 Resp: 4440
Ion Ratio Lower Upper
108 100
106 113.7 84.4 126.6
79 28.9 15.3 22.9

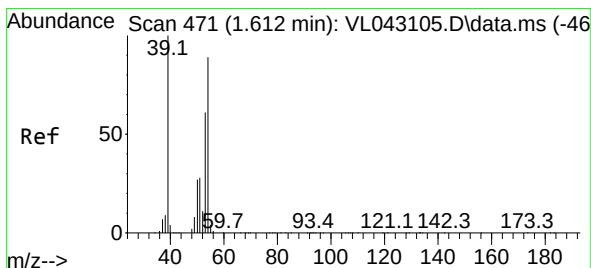
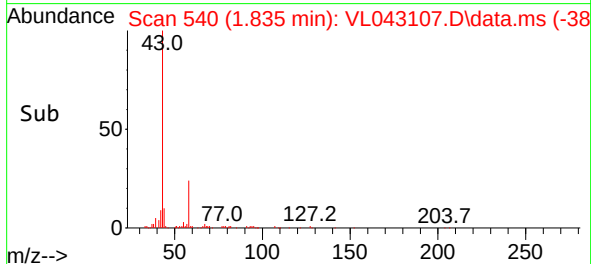
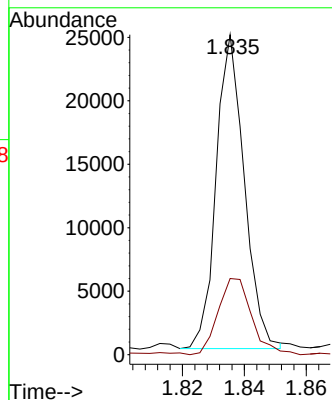
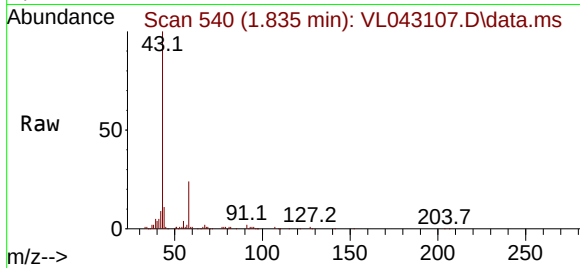




#15
Acetone
Concen: 1.123 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

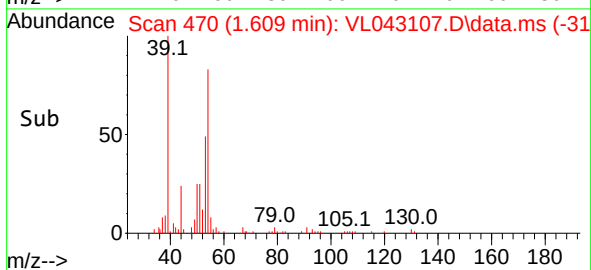
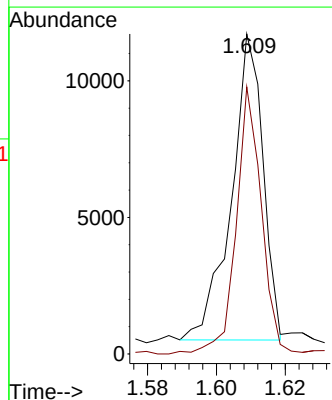
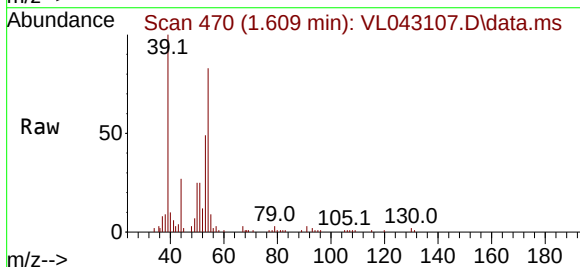
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

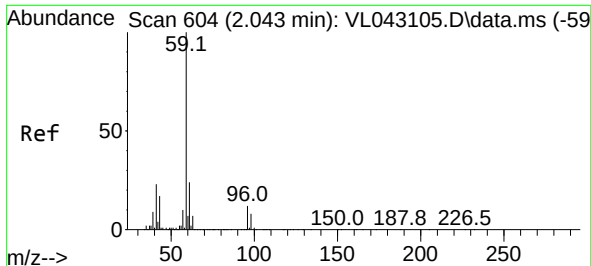
Tgt Ion: 43 Resp: 15572
Ion Ratio Lower Upper
43 100
58 31.0 20.8 31.2



#16
1,3-Butadiene
Concen: 1.089 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 39 Resp: 7157
Ion Ratio Lower Upper
39 100
54 70.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 1.106 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

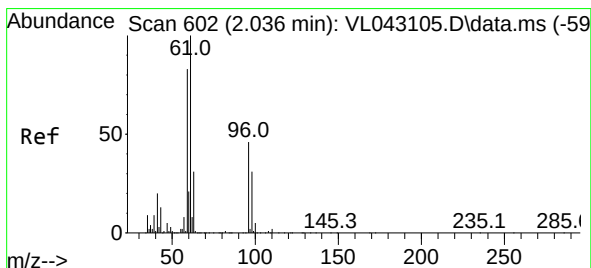
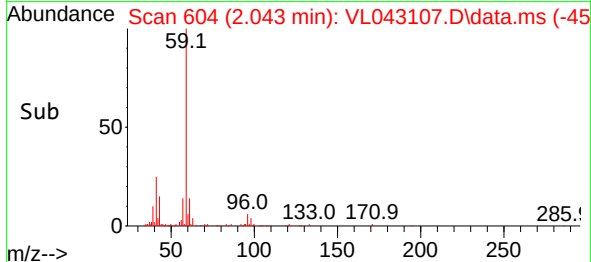
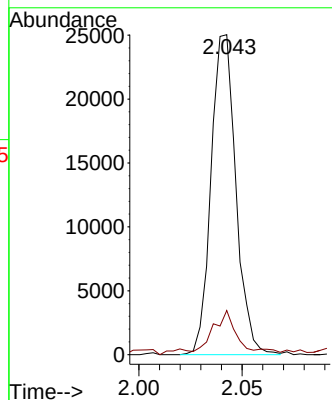
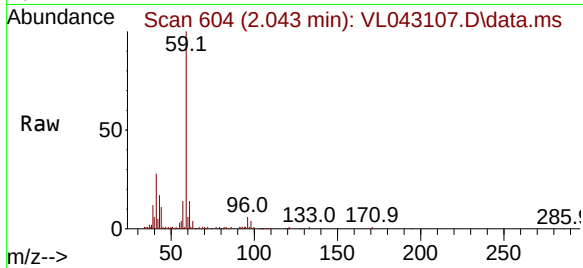
VSTDIC001

Tgt Ion: 59 Resp: 20941

Ion Ratio Lower Upper

59 100

57 14.0 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 1.103 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

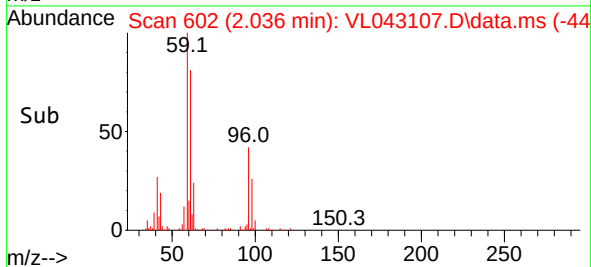
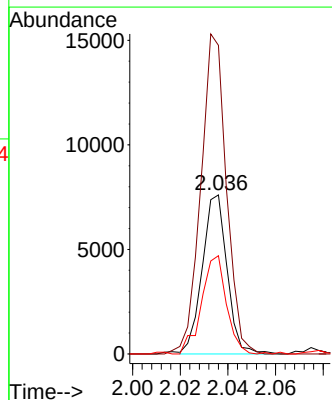
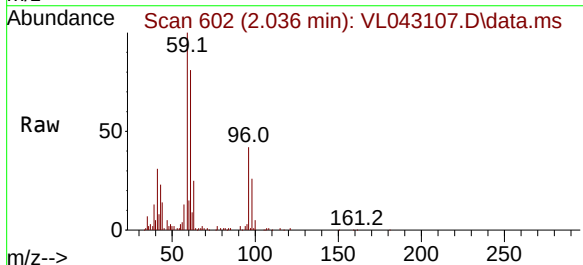
Tgt Ion: 96 Resp: 5510

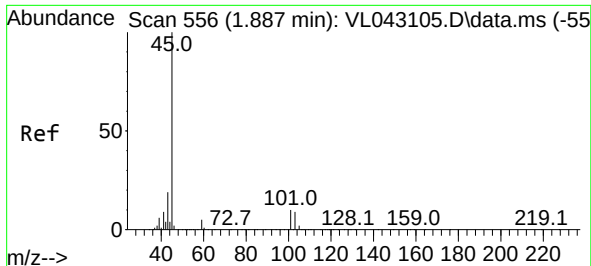
Ion Ratio Lower Upper

96 100

61 194.0 173.4 260.0

98 61.7 53.2 79.8

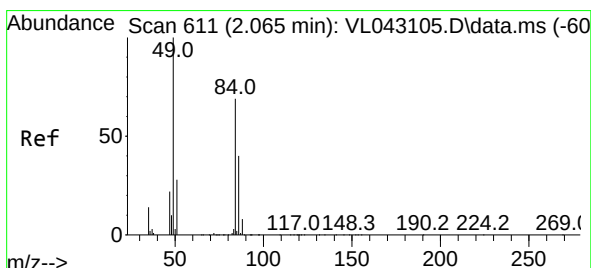
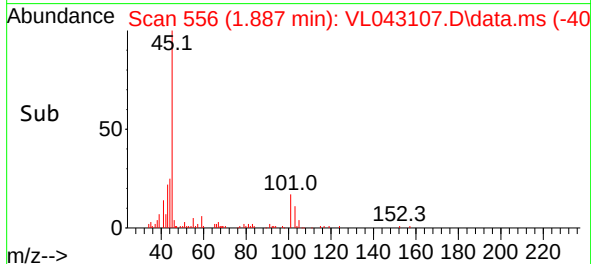
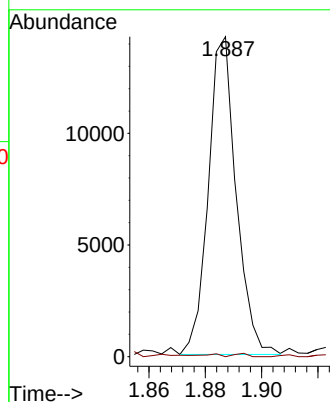
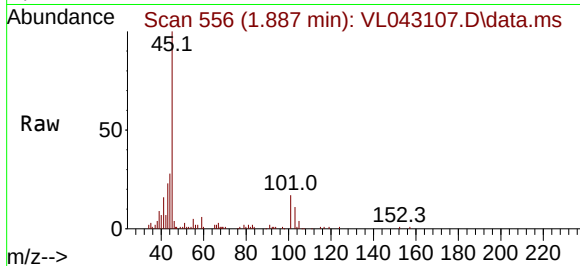




#19
Isopropyl Alcohol
Concen: 1.141 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

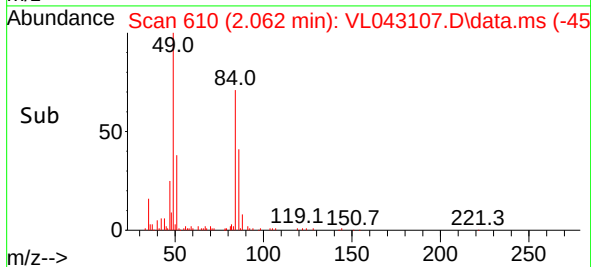
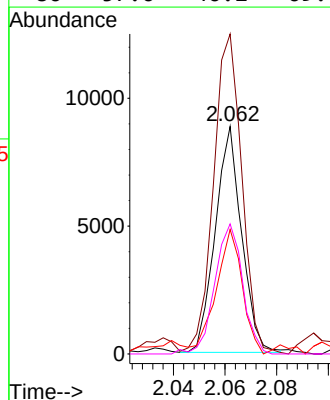
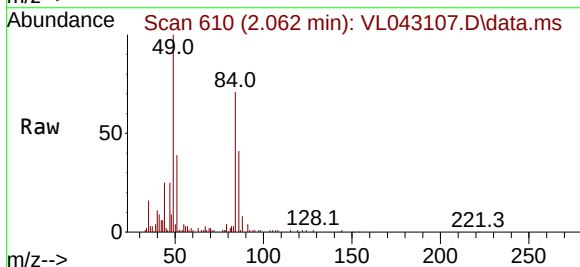
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

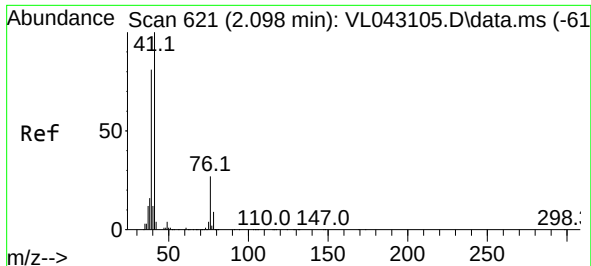
Tgt Ion: 45 Resp: 9796
Ion Ratio Lower Upper
45 100
58 48.1 31.3 46.9#



#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 6261
Ion Ratio Lower Upper
84 100
49 140.9 116.6 175.0
51 51.2 34.8 52.2
86 57.6 46.2 69.4

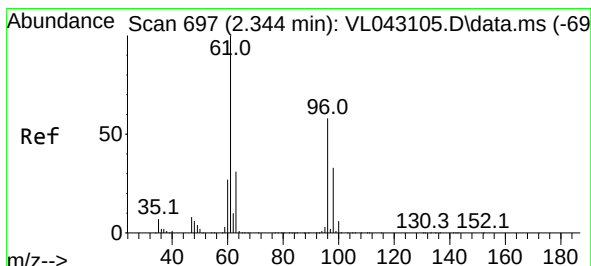
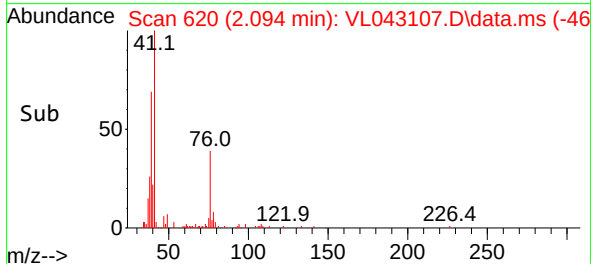
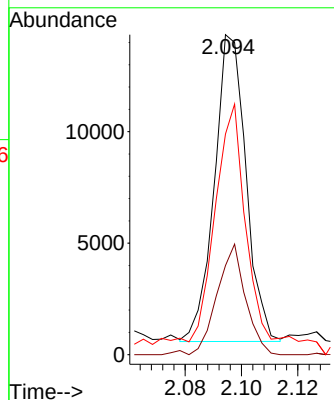
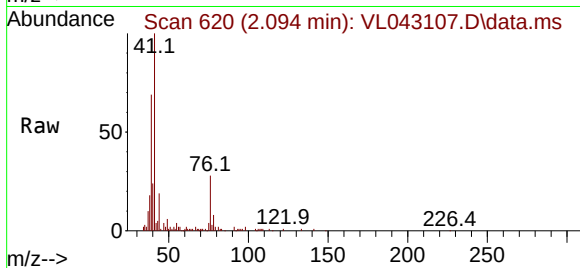




#21
 Allyl Chloride
 Concen: 1.055 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

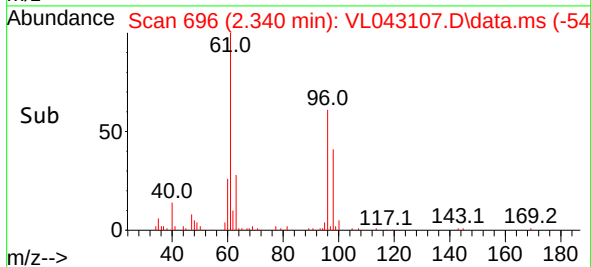
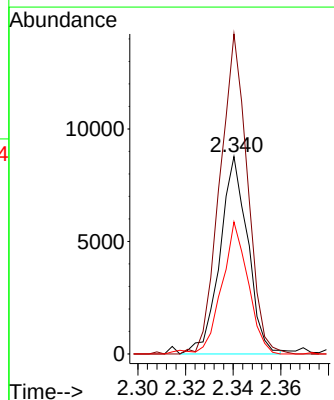
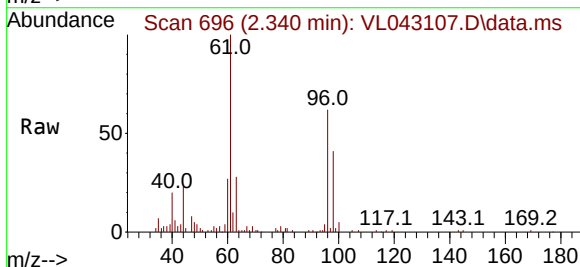
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

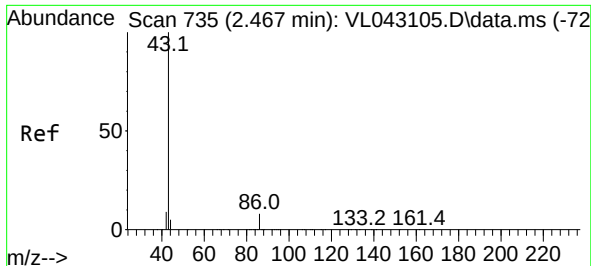
Tgt Ion: 41 Resp: 10737
 Ion Ratio Lower Upper
 41 100
 76 32.6 21.5 32.3#
 39 94.1 60.8 91.2#



#22
 trans-1,2-Dichloroethene
 Concen: 1.193 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 7119
 Ion Ratio Lower Upper
 96 100
 61 162.1 137.0 205.6
 98 66.9 45.5 68.3

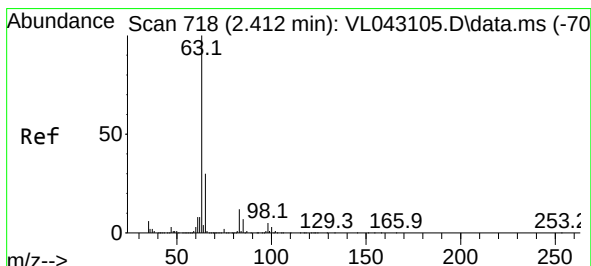
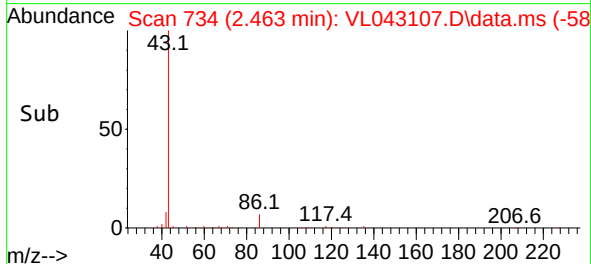
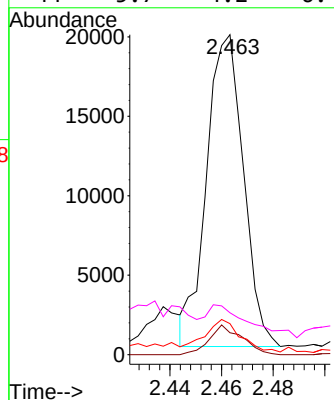
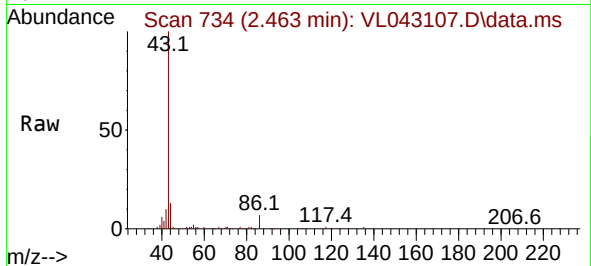




#23
 Vinyl Acetate
 Concen: 0.964 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

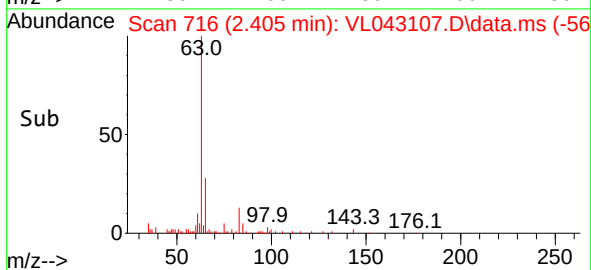
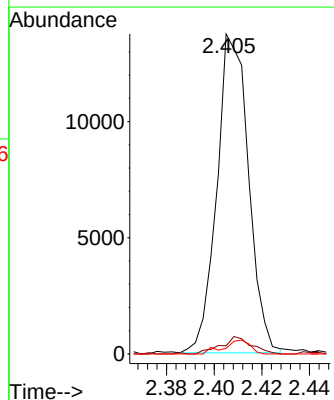
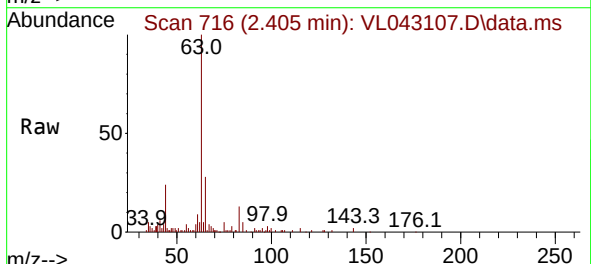
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

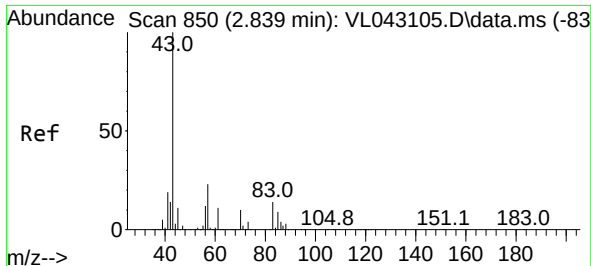
Tgt Ion: 43	Resp: 19477
Ion Ratio	Lower Upper
43 100	
86 7.0	6.2 9.2
42 9.1	7.6 11.4
44 5.7	4.2 6.4



#24
 1,1-Dichloroethane
 Concen: 1.097 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 63	Resp:	12656	
Ion Ratio	Lower	Upper	
63 100			
98 2.6	2.6	7.8#	
100 1.7	1.5	4.4	



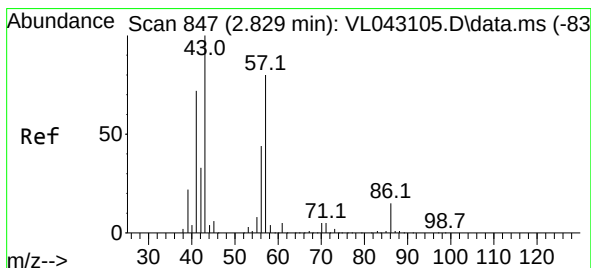
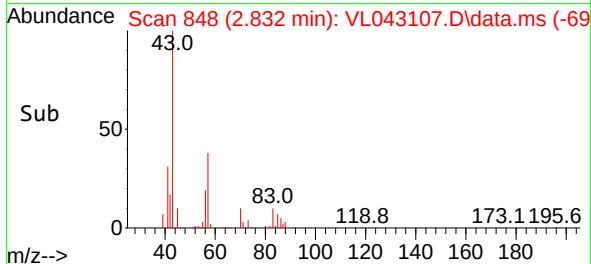
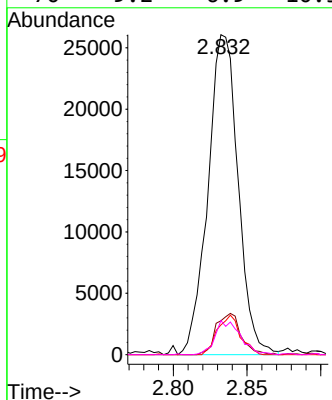
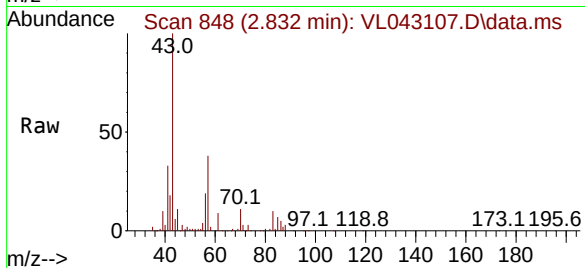


#25
Ethyl Acetate
Concen: 1.085 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 37093

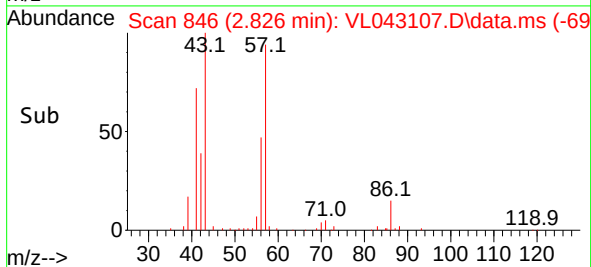
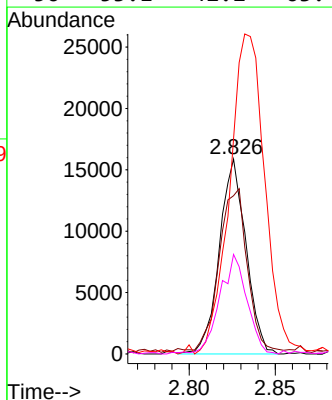
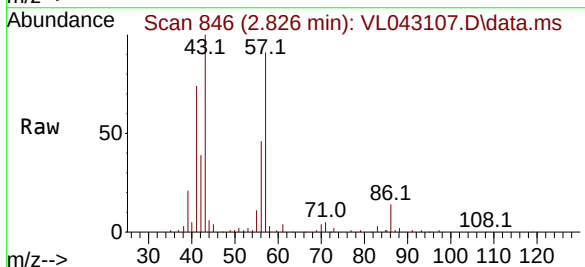
Ion	Ratio	Lower	Upper
43	100		
45	10.8	7.8	11.8
61	9.4	7.0	10.6
70	9.2	6.9	10.3

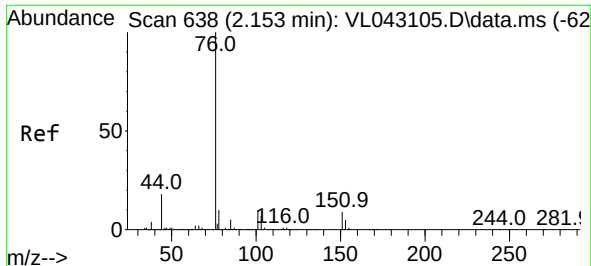


#26
Hexane
Concen: 1.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 17152

Ion	Ratio	Lower	Upper
57	100		
41	91.8	71.4	107.0
43	219.3	178.5	267.7
56	53.1	42.2	63.4





#27

Carbon Disulfide

Concen: 1.092 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

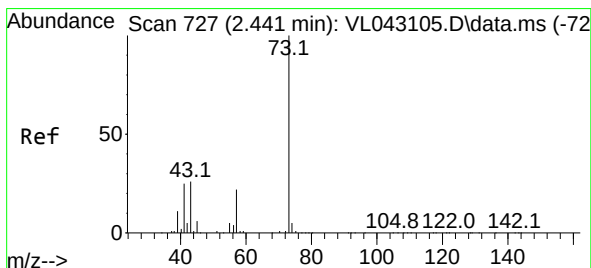
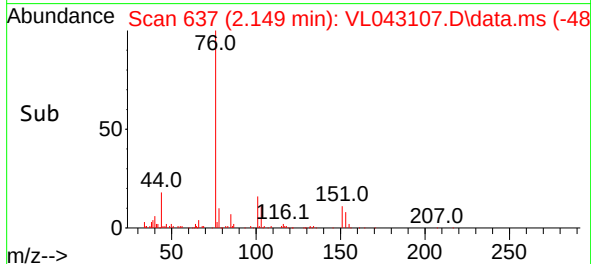
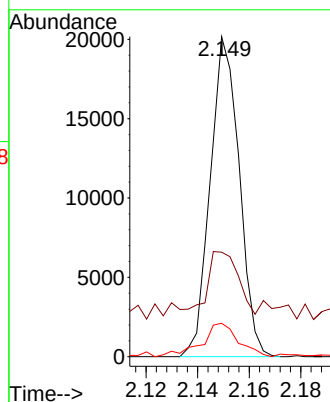
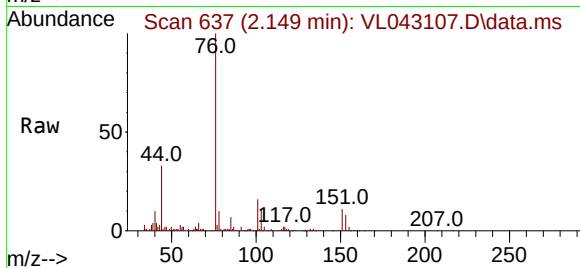
Tgt Ion: 76 Resp: 15760

Ion Ratio Lower Upper

76 100

44 47.9 16.7 25.1#

78 14.2 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 1.095 ppbv

RT: 2.441 min Scan# 727

Delta R.T. -0.000 min

Lab File: VL043107.D

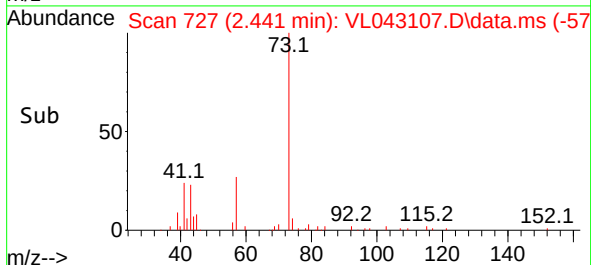
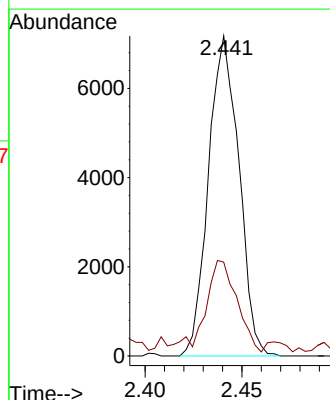
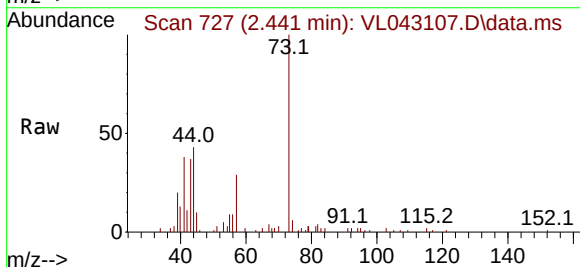
Acq: 14 Oct 2025 12:01

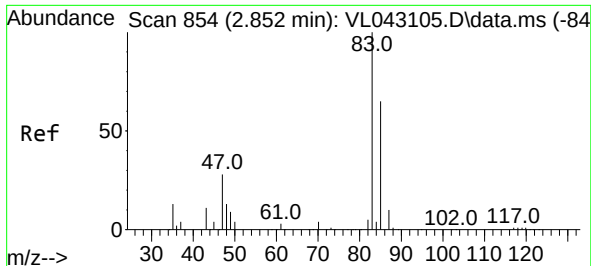
Tgt Ion: 73 Resp: 7847

Ion Ratio Lower Upper

73 100

57 32.3 20.5 30.7#





#29

Chloroform

Concen: 1.074 ppbv

RT: 2.845 min Scan# 8

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

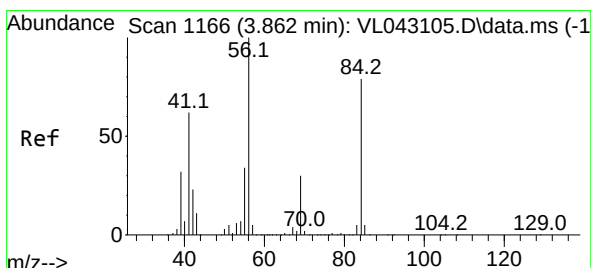
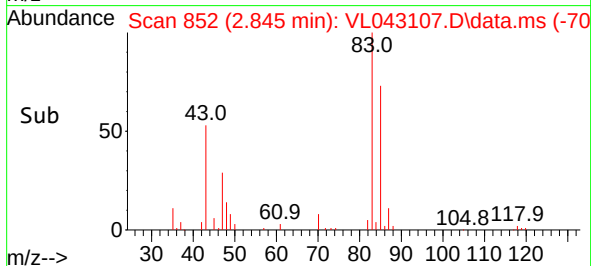
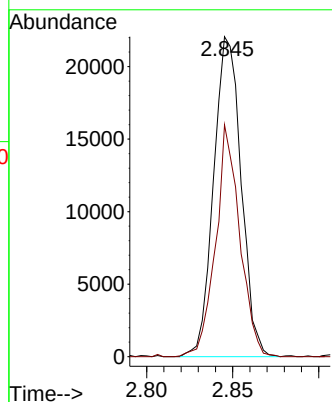
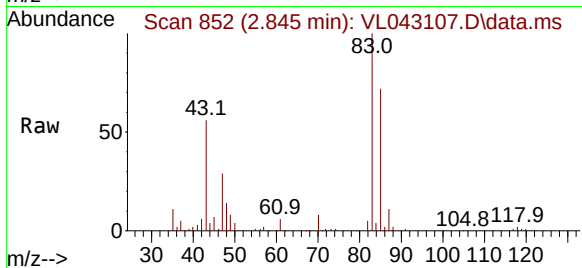
VSTDIC001

Tgt Ion: 83 Resp: 24527

Ion Ratio Lower Upper

83 100

85 72.4 51.8 77.6



#30

Cyclohexane

Concen: 1.078 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

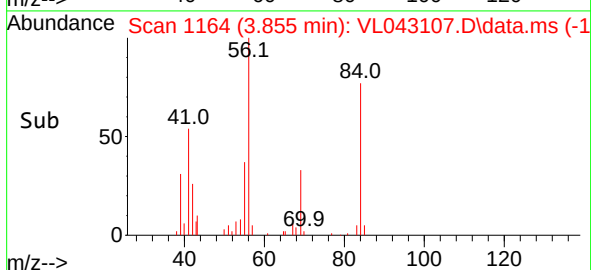
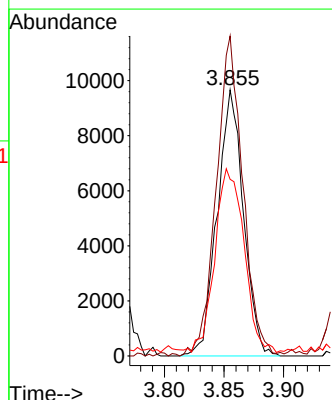
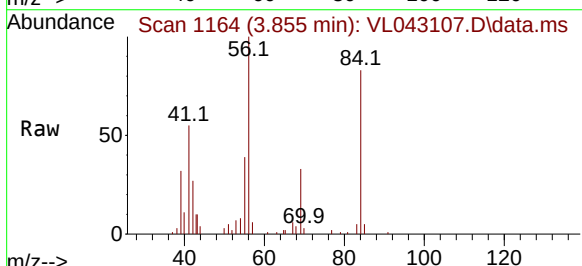
Tgt Ion: 84 Resp: 14819

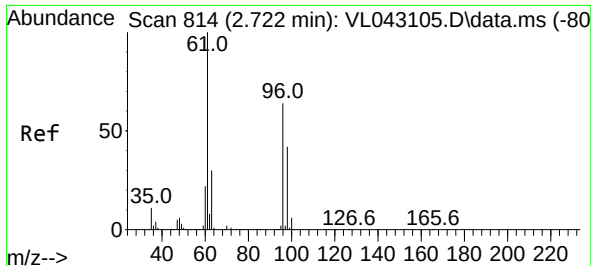
Ion Ratio Lower Upper

84 100

56 122.3 100.9 151.3

41 78.1 63.8 95.6

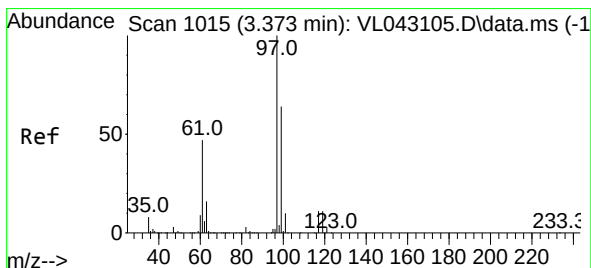
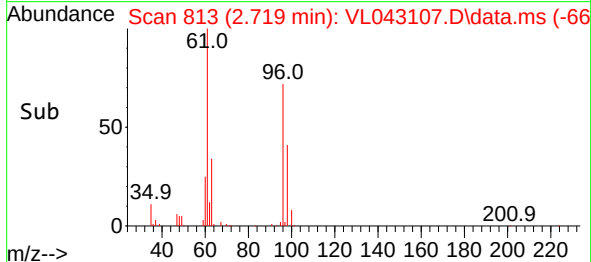
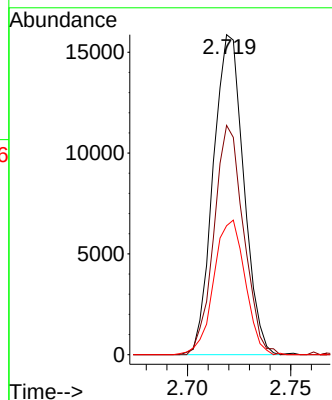
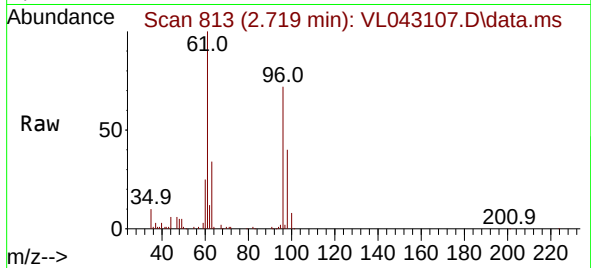




#31
 cis-1,2-Dichloroethene
 Concen: 1.084 ppbv
 RT: 2.719 min Scan# 814
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

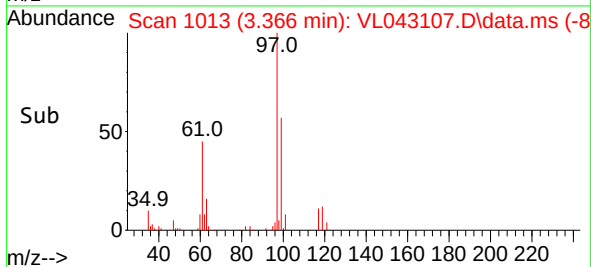
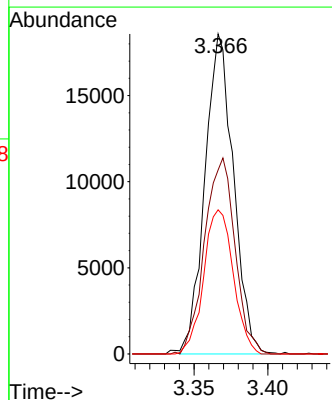
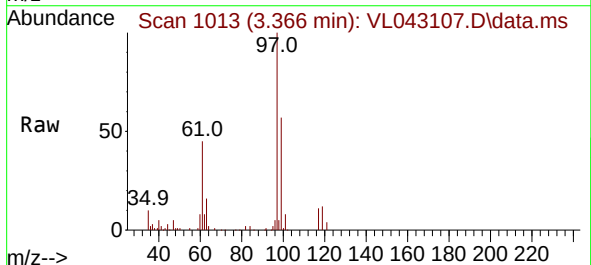
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

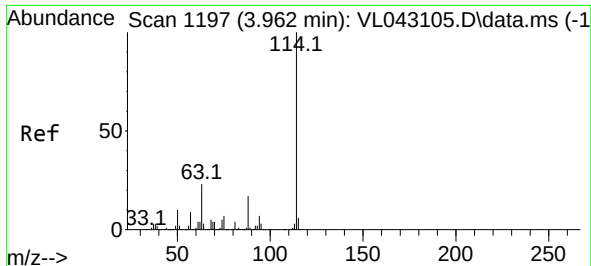
Tgt Ion: 61 Resp: 16311
 Ion Ratio Lower Upper
 61 100
 96 71.6 51.0 76.6
 98 39.9 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 1.049 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.3 76.9
 61 46.8 38.4 57.6

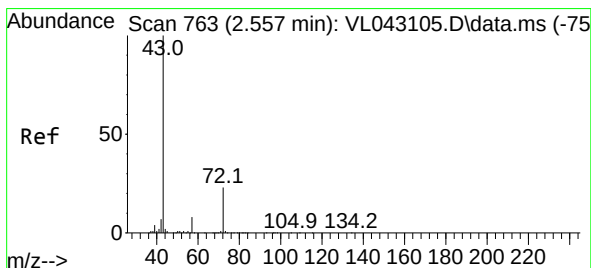
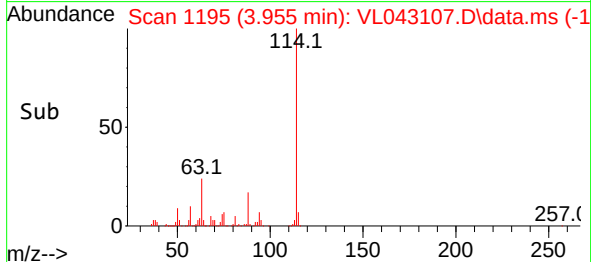
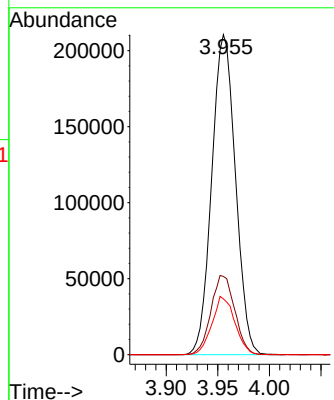
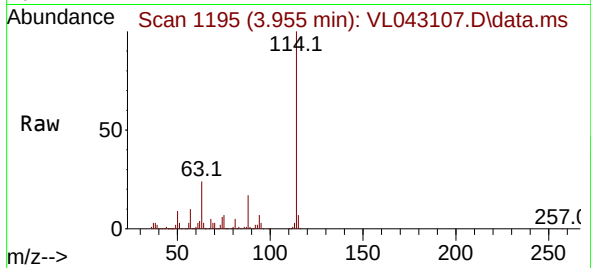




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

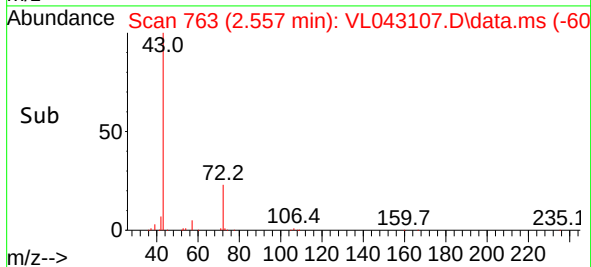
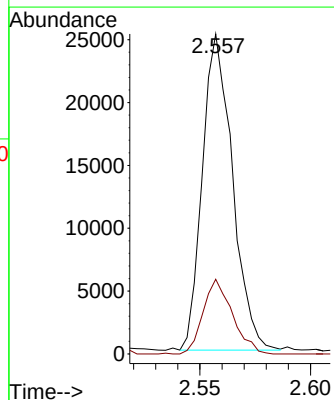
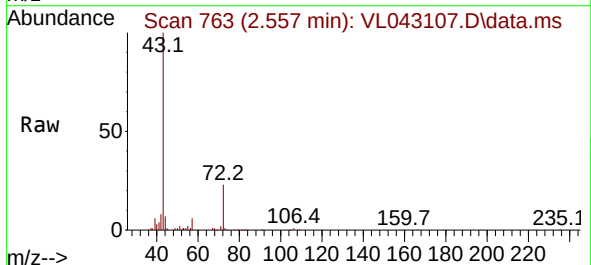
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

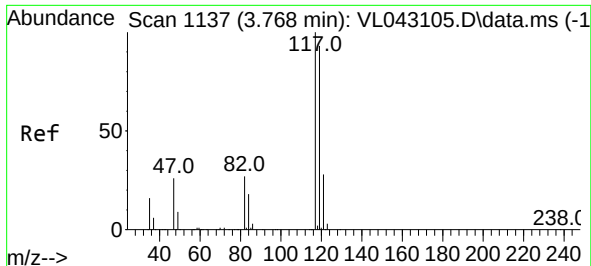
Tgt Ion:114 Resp: 336268
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.3 28.9
 88 17.6 13.9 20.9



#34
 2-Butanone
 Concen: 1.047 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 23811
 Ion Ratio Lower Upper
 43 100
 72 23.0 18.4 27.6

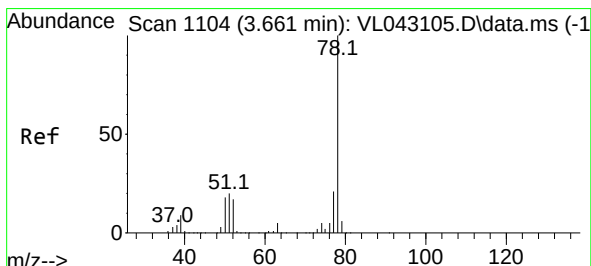
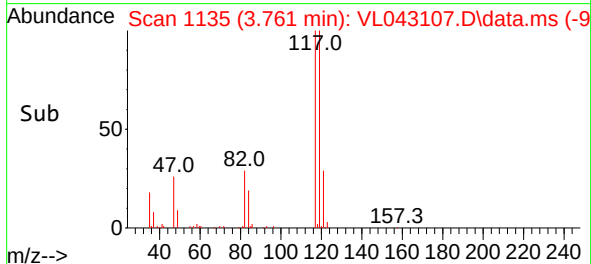
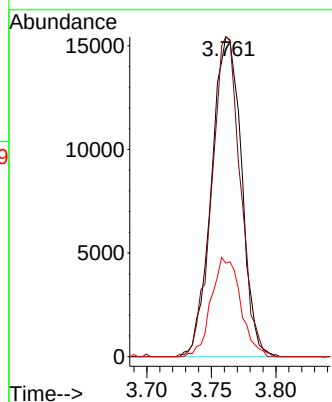
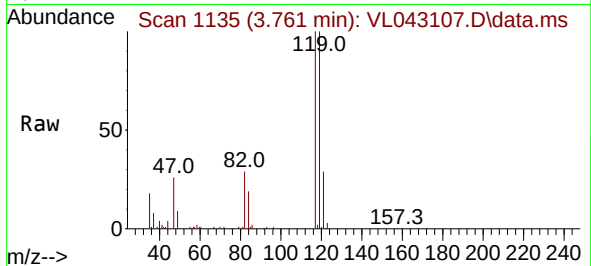




#35
Carbon Tetrachloride
Concen: 1.033 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

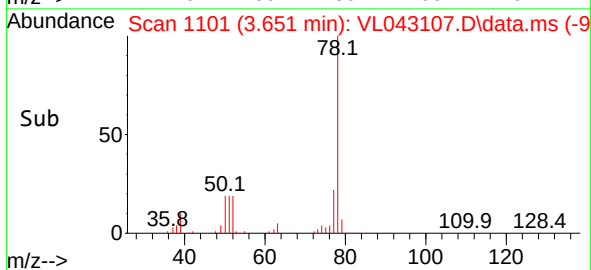
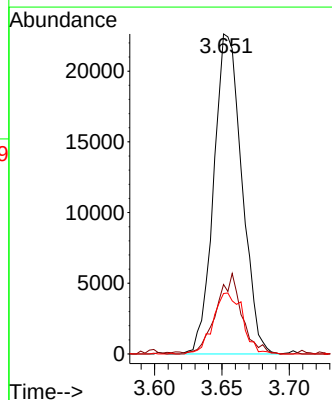
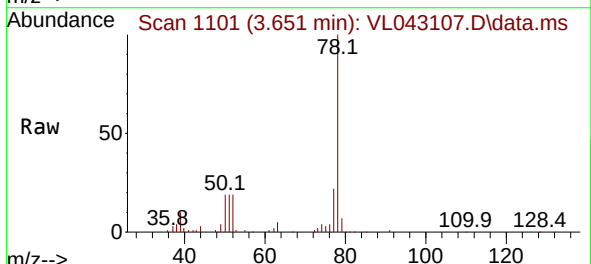
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

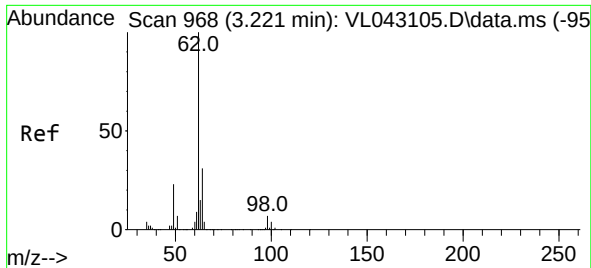
Tgt Ion:117 Resp: 24969
Ion Ratio Lower Upper
117 100
119 99.8 74.1 111.1
121 29.3 22.2 33.2



#36
Benzene
Concen: 1.040 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 78 Resp: 32940
Ion Ratio Lower Upper
78 100
77 21.7 17.0 25.6
50 18.9 14.6 22.0

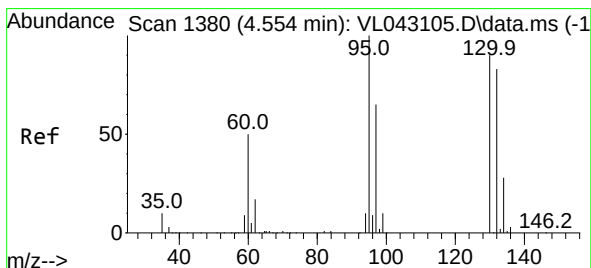
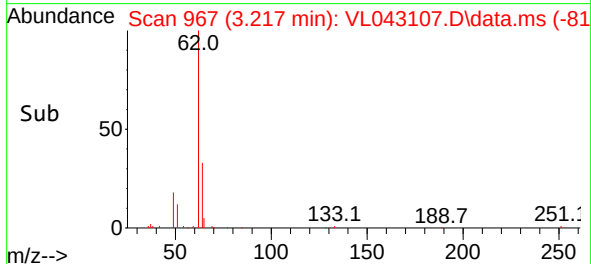
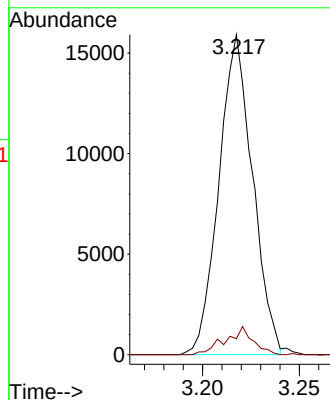
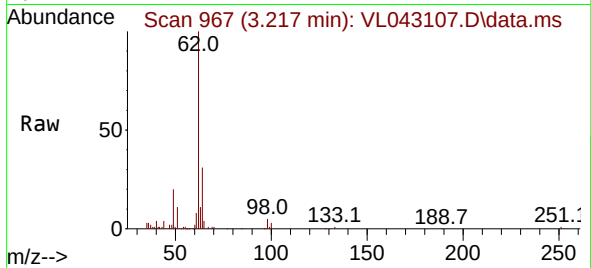




#37
1,2-Dichloroethane
Concen: 1.053 ppbv
RT: 3.217 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

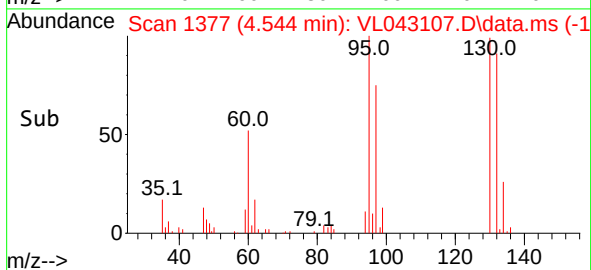
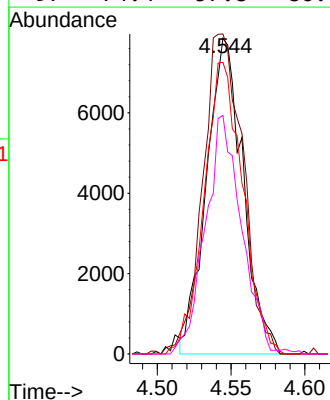
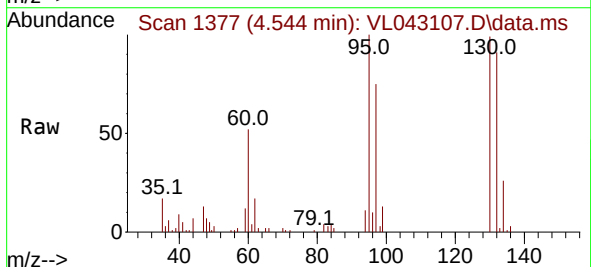
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

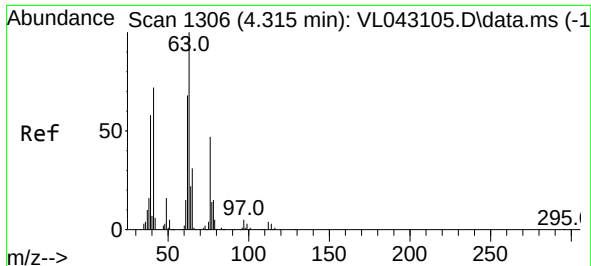
Tgt Ion: 62 Resp: 19213
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6



#38
Trichloroethene
Concen: 1.023 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:130 Resp: 13512
Ion Ratio Lower Upper
130 100
95 101.4 88.6 133.0
132 91.5 73.4 110.0
97 74.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 1.073 ppbv

RT: 4.311 min Scan# 1306

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

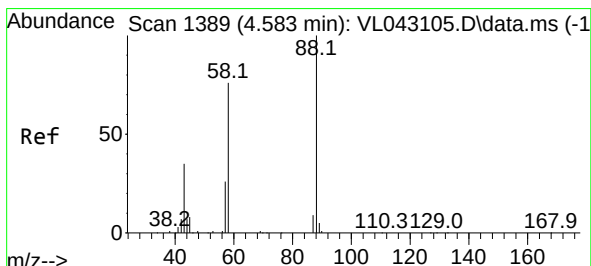
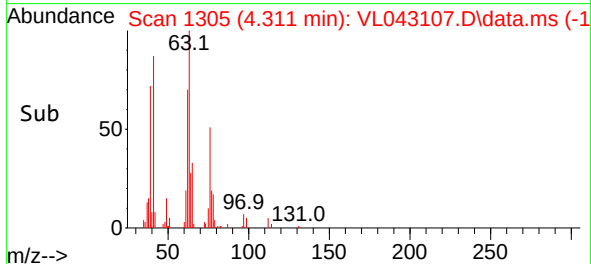
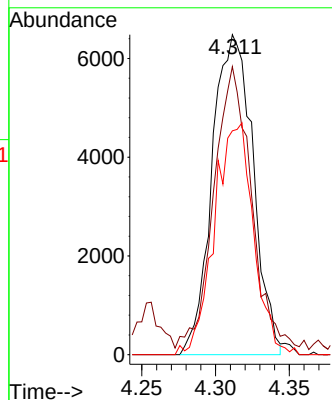
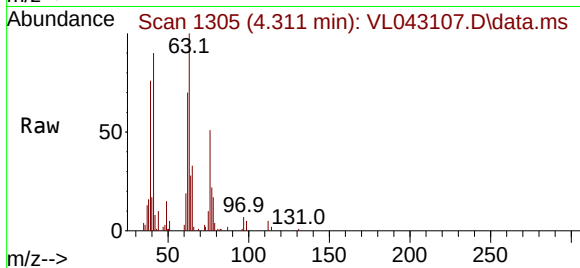
Tgt Ion: 63 Resp: 12435

Ion Ratio Lower Upper

63 100

41 84.3 58.0 87.0

62 67.2 54.7 82.1



#40

1,4-Dioxane

Concen: 0.622 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.009 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion: 88 Resp: 3225

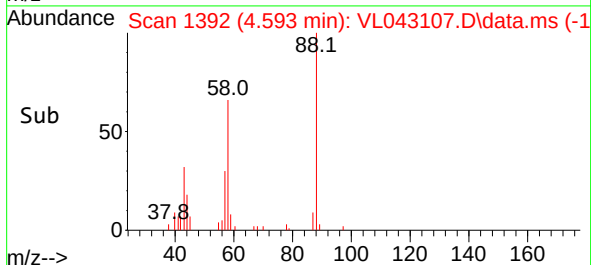
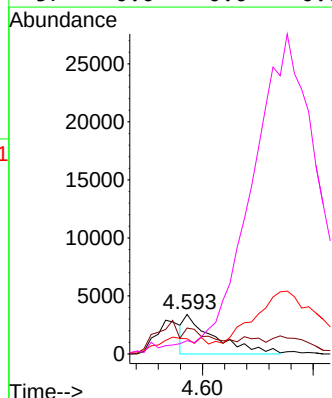
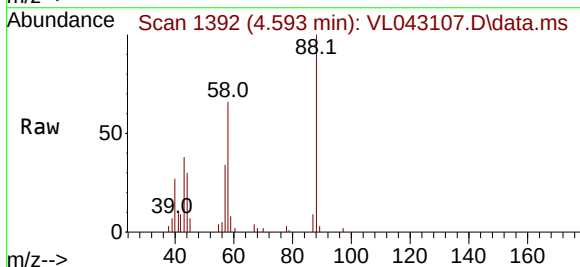
Ion Ratio Lower Upper

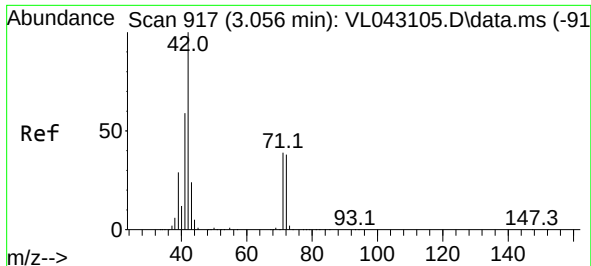
88 100

58 0.0 61.1 91.7#

43 0.0 24.0 36.0#

57 0.0 0.0 0.0

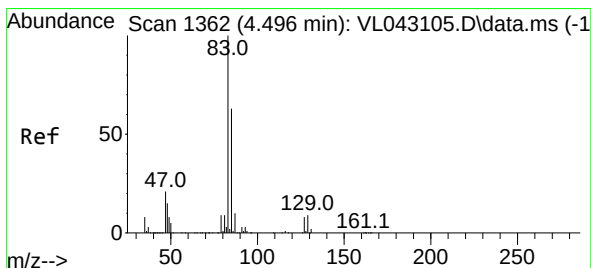
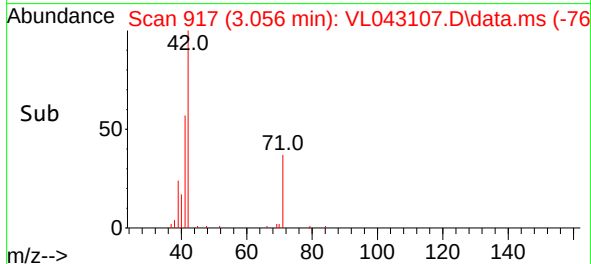
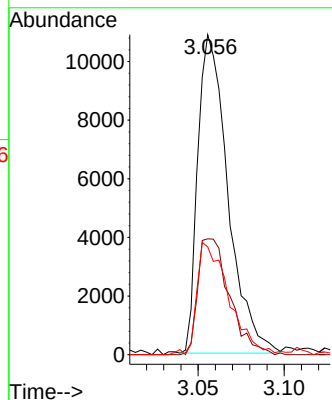
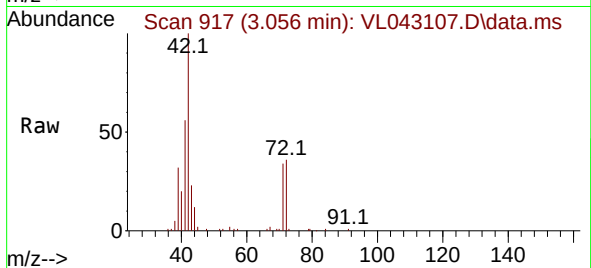




#41
Tetrahydrofuran
Concen: 1.044 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

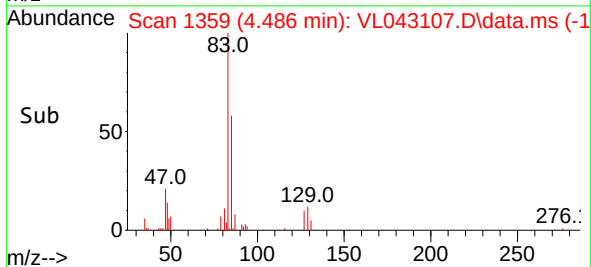
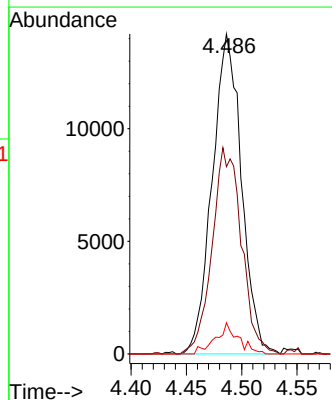
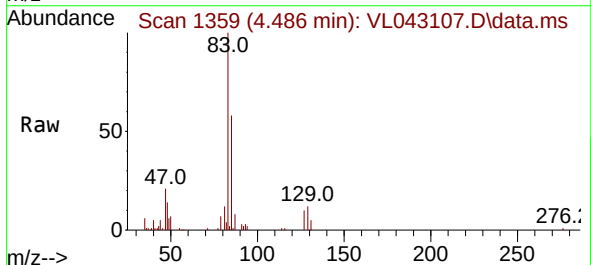
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

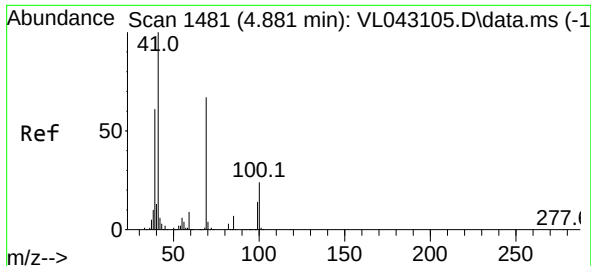
Tgt Ion:	42	Resp:	13251
Ion	Ratio	Lower	Upper
42	100		
72	38.1	31.3	46.9
71	38.6	30.4	45.6



#42
Bromodichloromethane
Concen: 1.032 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:	83	Resp:	26069
Ion	Ratio	Lower	Upper
83	100		
85	58.5	50.6	75.8
127	9.8	6.3	9.5

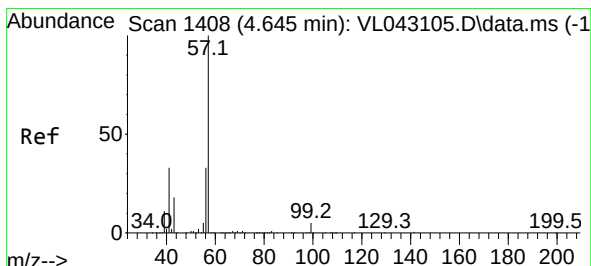
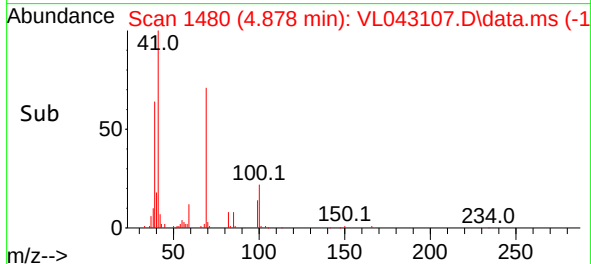
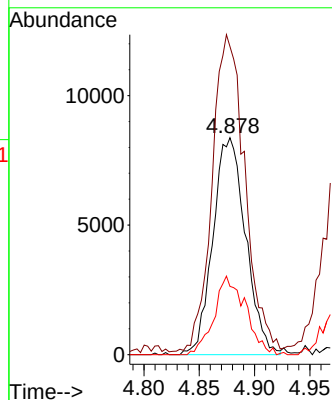
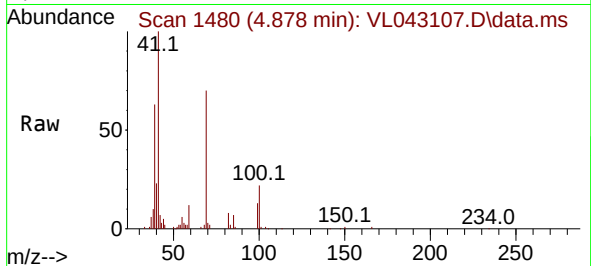




#43
Methyl Methacrylate
Concen: 1.064 ppbv
RT: 4.878 min Scan# 1481
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

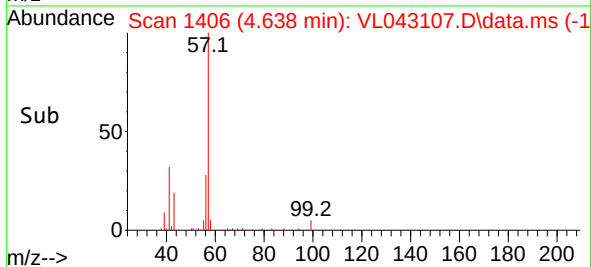
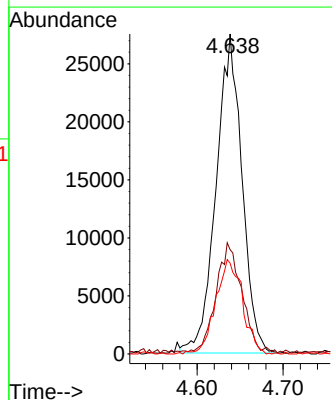
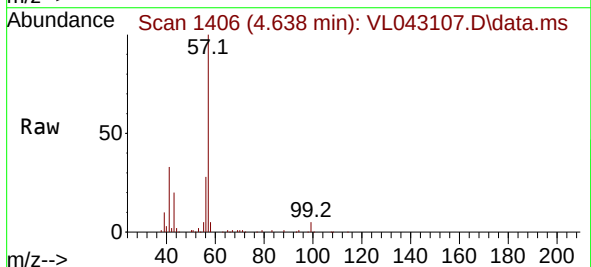
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

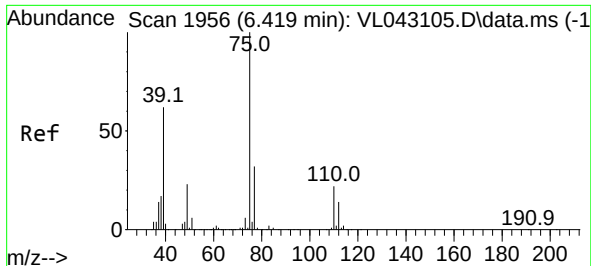
Tgt Ion: 69 Resp: 17195
Ion Ratio Lower Upper
69 100
41 145.9 120.5 180.7
100 35.0 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 1.084 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382
Ion Ratio Lower Upper
57 100
41 35.4 26.3 39.5
56 30.7 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 0.452 ppbv

RT: 6.415 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

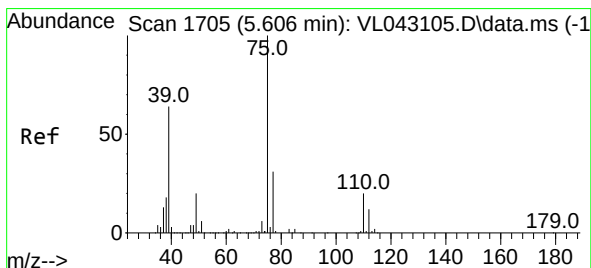
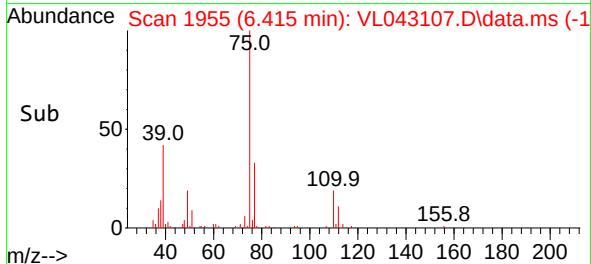
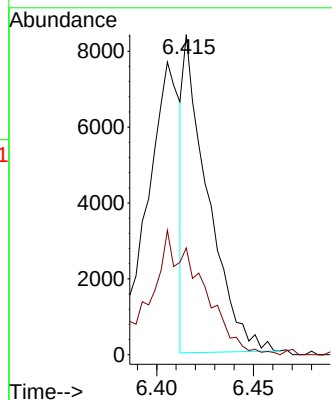
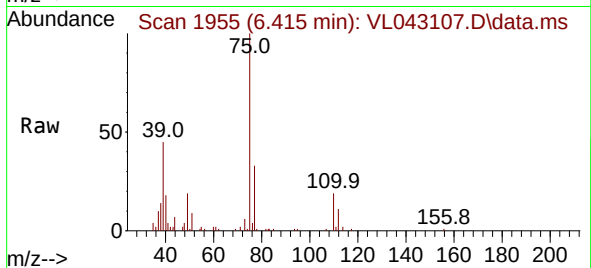
VSTDICC001

Tgt Ion: 75 Resp: 7304

Ion Ratio Lower Upper

75 100

77 33.4 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 1.029 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

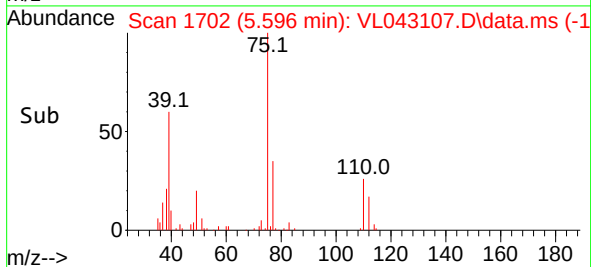
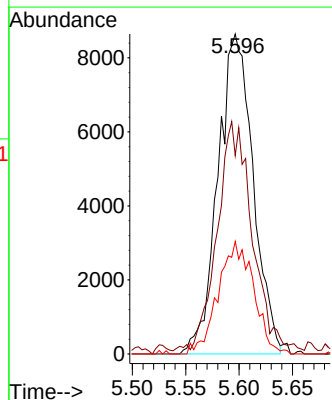
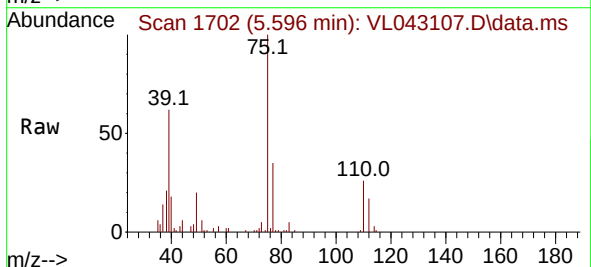
Tgt Ion: 75 Resp: 19830

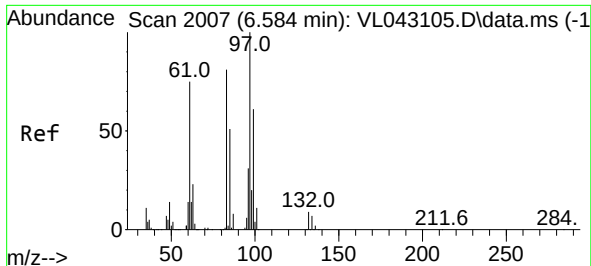
Ion Ratio Lower Upper

75 100

39 59.6 51.0 76.6

77 35.1 25.0 37.4



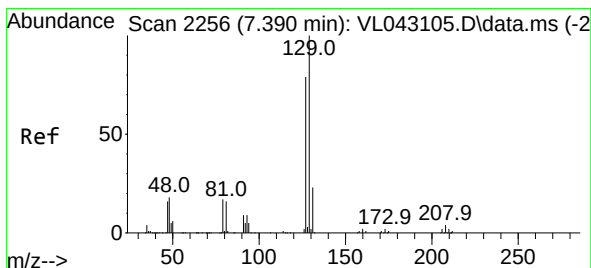
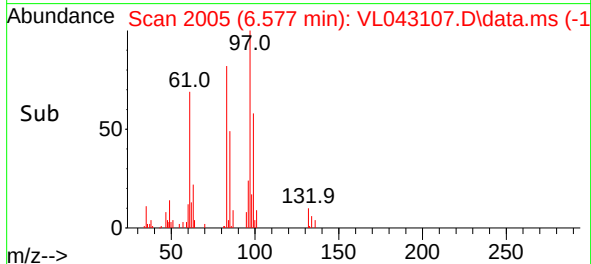
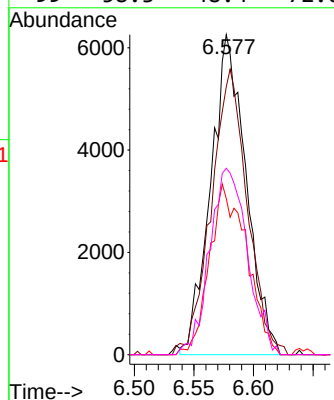
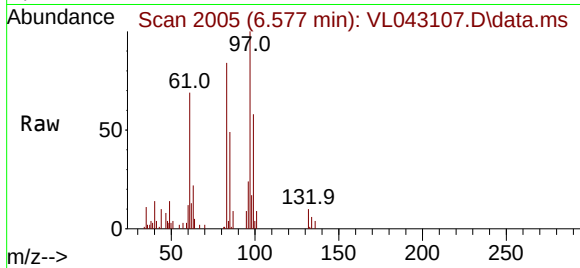


#47
1,1,2-Trichloroethane
Concen: 1.030 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

Tgt Ion: 97 Resp: 12876

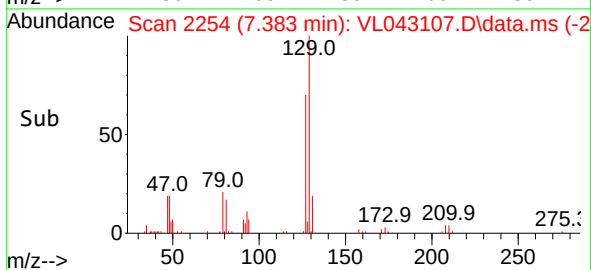
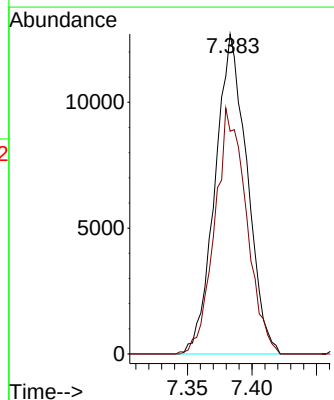
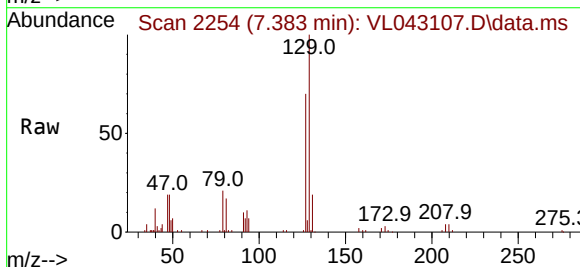
Ion	Ratio	Lower	Upper
97	100		
83	80.9	64.6	96.8
85	48.8	40.6	60.8
99	58.3	48.4	72.6

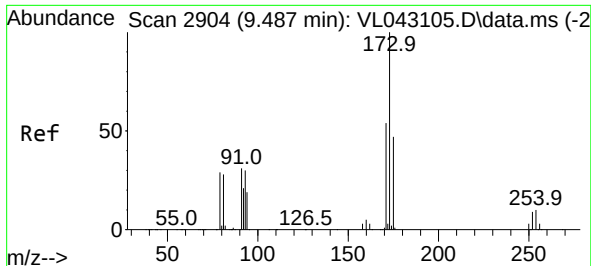


#48
Dibromochloromethane
Concen: 1.046 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 129 Resp: 21874

Ion	Ratio	Lower	Upper
129	100		
127	76.1	39.3	117.9

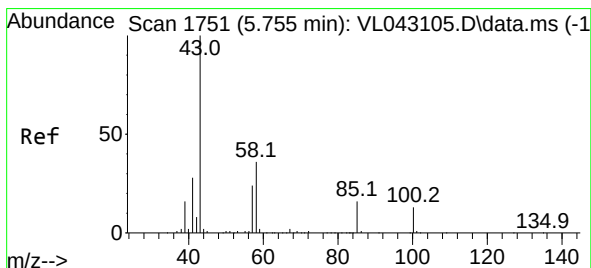
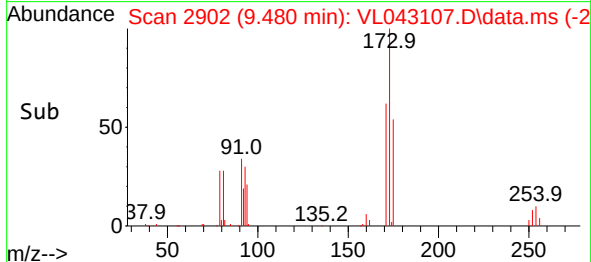
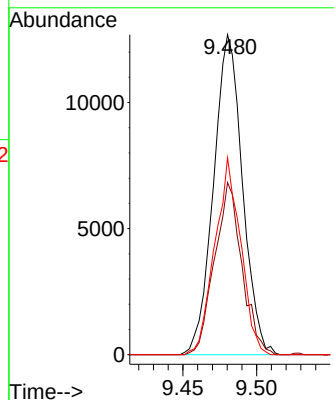
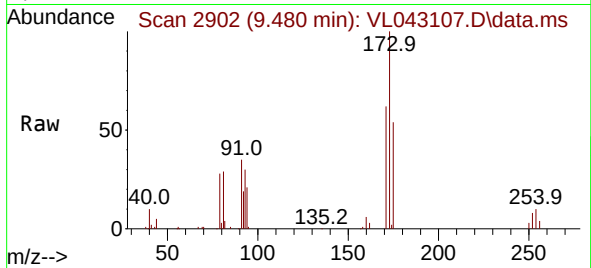




#49
Bromoform
Concen: 1.019 ppbv
RT: 9.480 min Scan# 2904
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

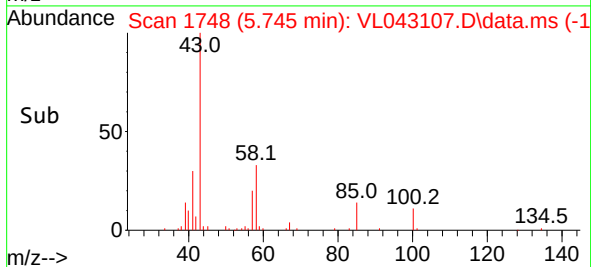
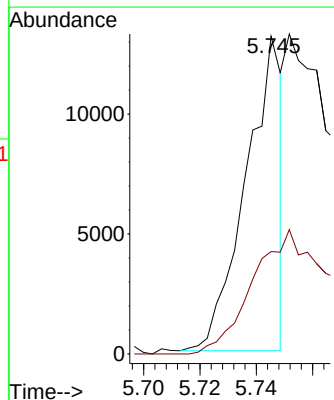
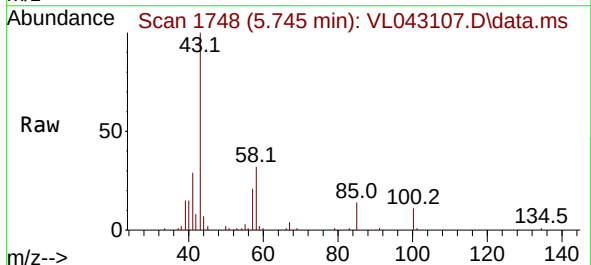
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

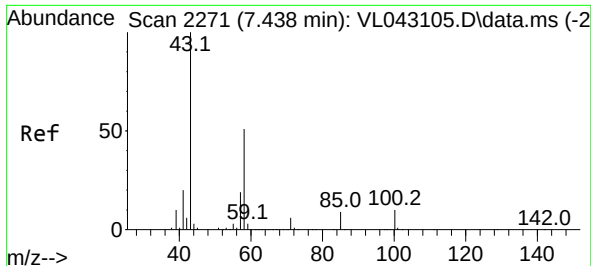
Tgt Ion:173 Resp: 17320
Ion Ratio Lower Upper
173 100
175 50.9 38.8 58.2
171 55.0 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 0.371 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 11642
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#

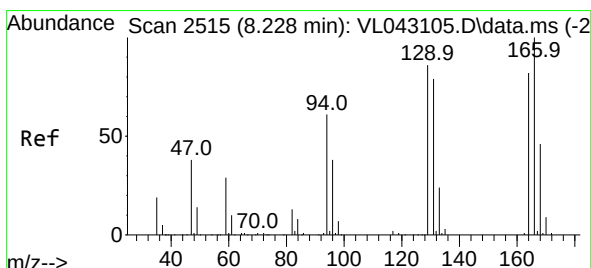
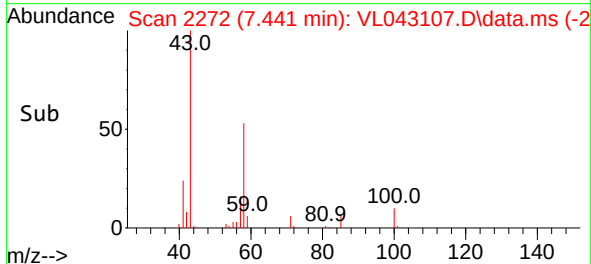
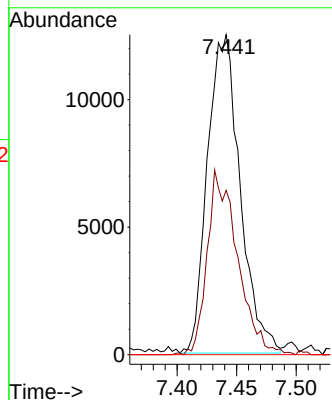
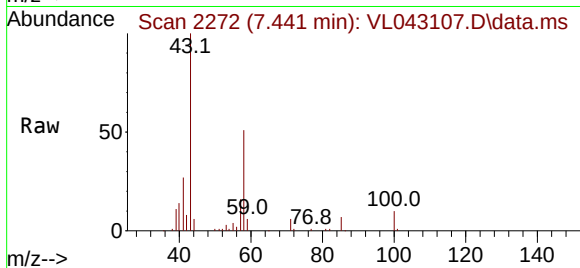




#51
2-Hexanone
Concen: 1.018 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

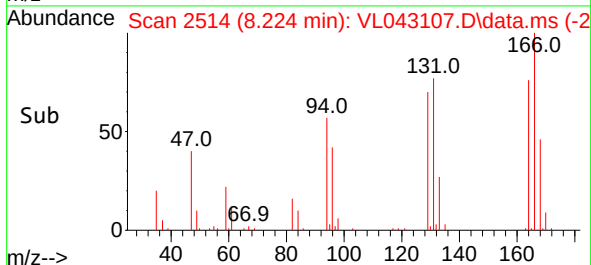
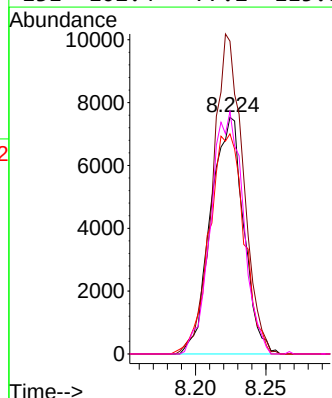
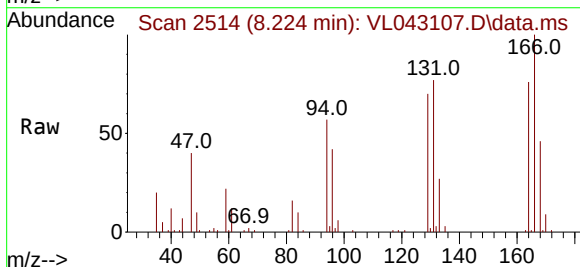
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

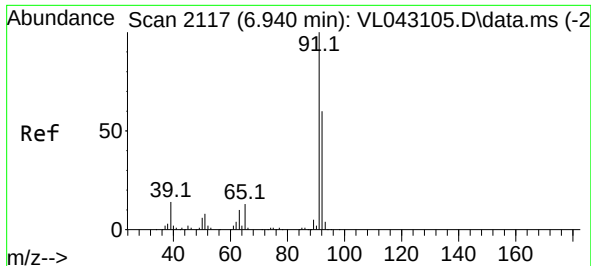
Tgt Ion: 43 Resp: 23817
Ion Ratio Lower Upper
43 100
58 53.7 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.079 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 164 Resp: 12319
Ion Ratio Lower Upper
164 100
166 132.1 97.6 146.4
129 93.0 84.5 126.7
131 102.4 77.2 115.8

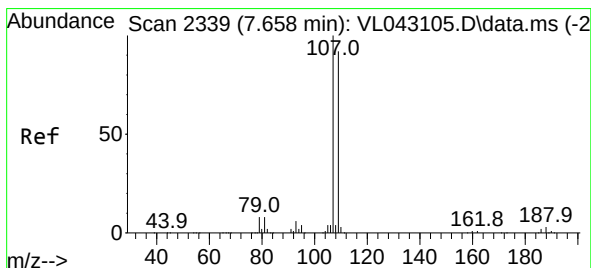
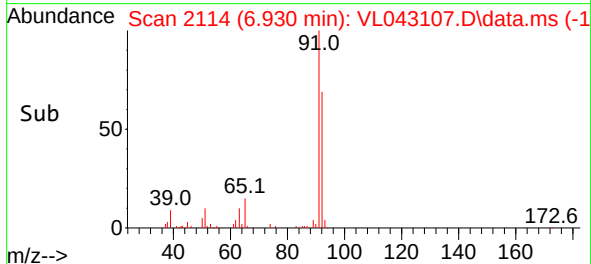
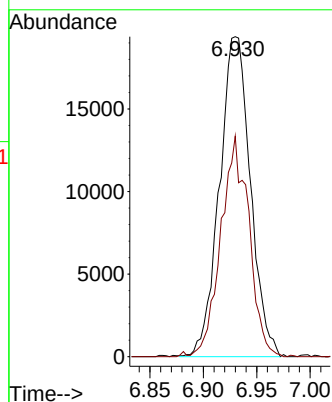
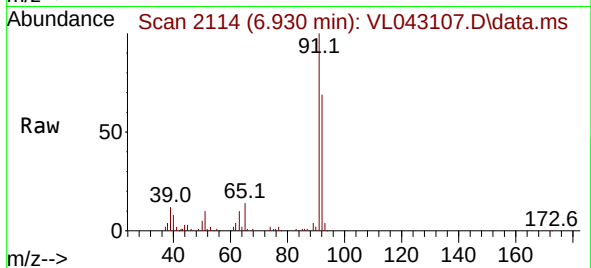




#53
Toluene
Concen: 1.040 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

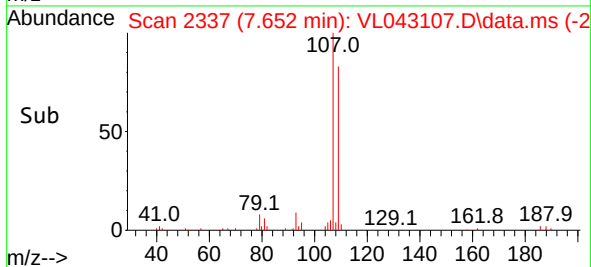
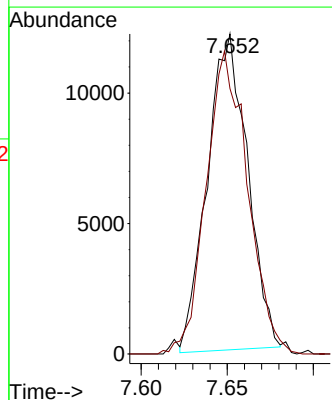
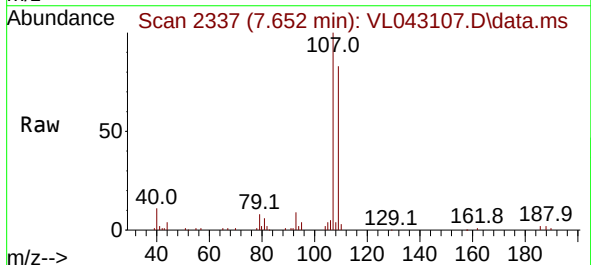
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

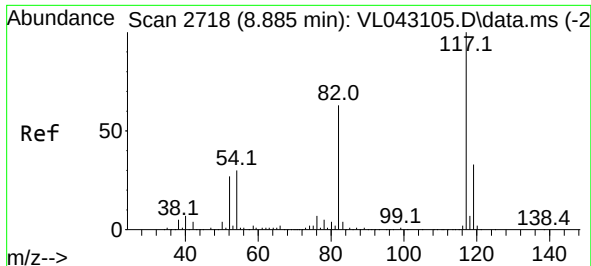
Tgt Ion: 91 Resp: 39079
Ion Ratio Lower Upper
91 100
92 62.8 48.8 73.2



#54
1,2-Dibromoethane
Concen: 0.999 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 107 Resp: 19711
Ion Ratio Lower Upper
107 100
109 80.7 73.4 110.2

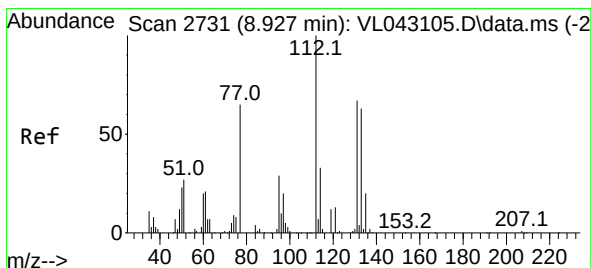
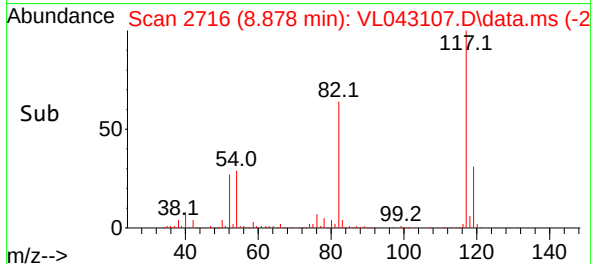
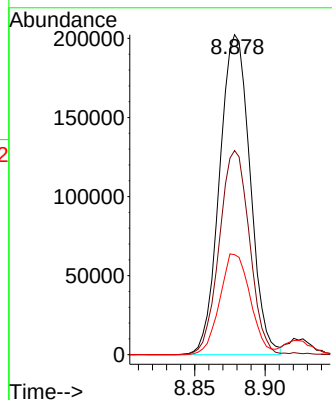
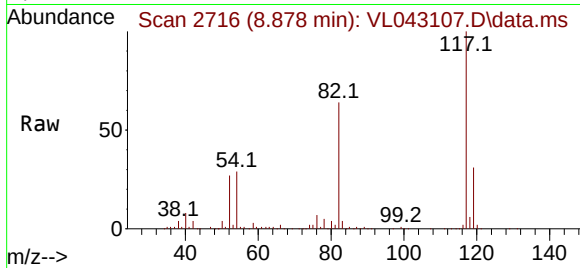




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

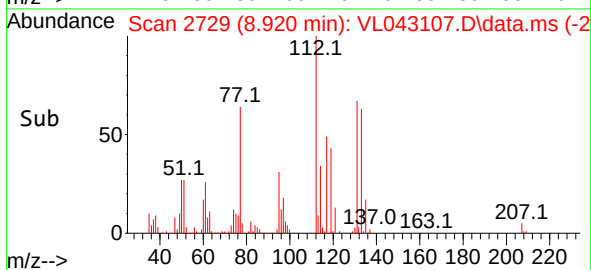
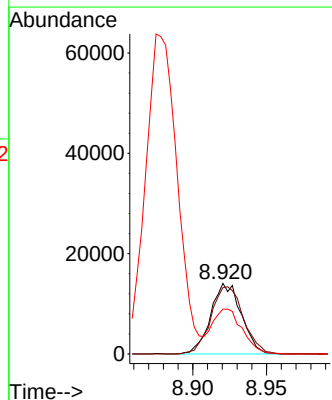
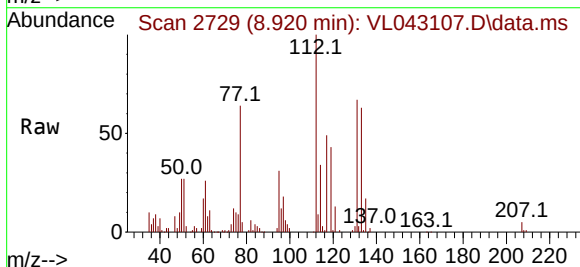
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

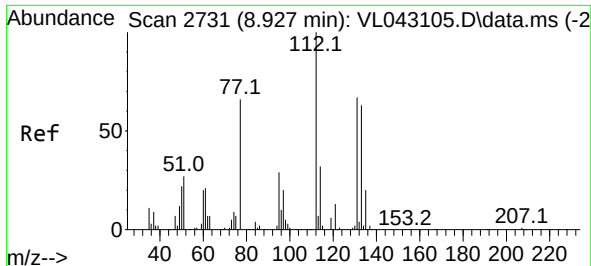
Tgt Ion:117 Resp: 305409
Ion Ratio Lower Upper
117 100
82 63.4 53.8 80.8
119 32.3 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 1.053 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:131 Resp: 20279
Ion Ratio Lower Upper
131 100
133 100.9 75.7 113.5
119 62.1 50.6 76.0

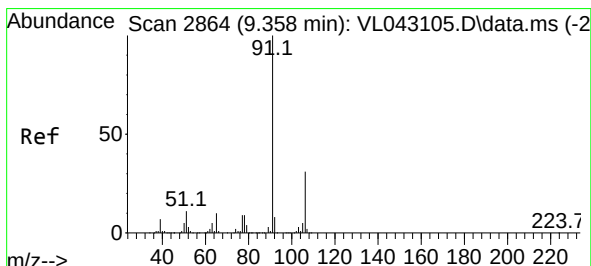
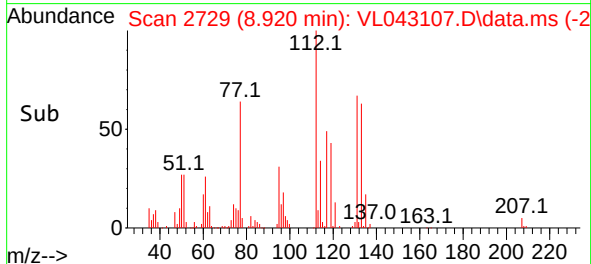
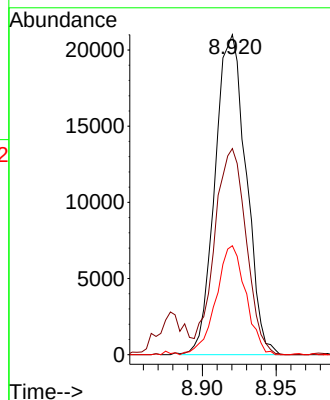
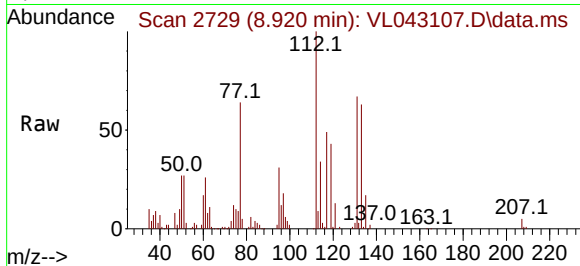




#57
Chlorobenzene
Concen: 1.079 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

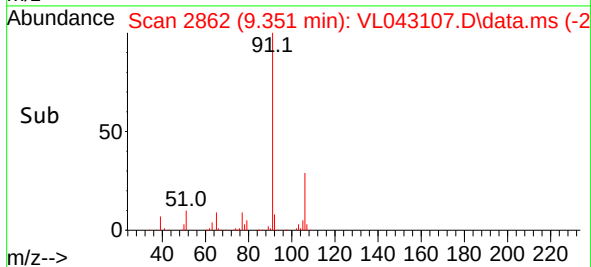
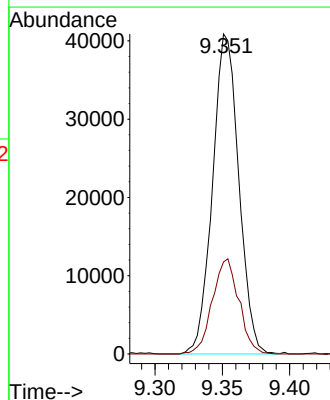
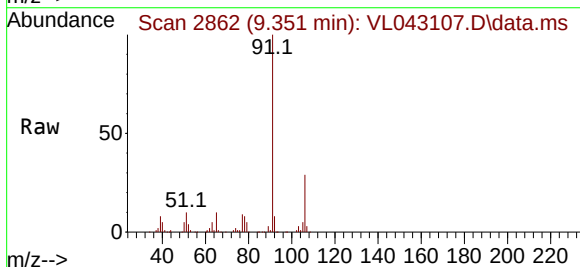
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

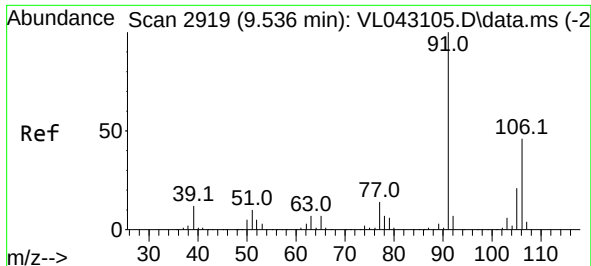
Tgt Ion:112 Resp: 30824
Ion Ratio Lower Upper
112 100
77 64.2 53.3 79.9
114 34.1 29.3 35.8



#58
Ethyl Benzene
Concen: 1.049 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 55420
Ion Ratio Lower Upper
91 100
106 28.7 24.8 37.2

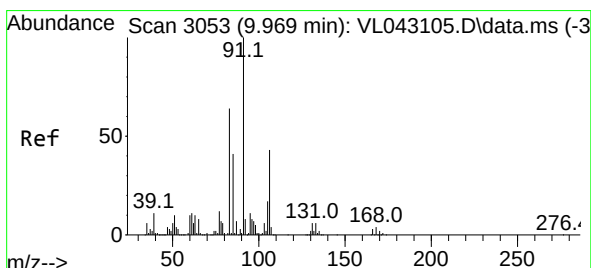
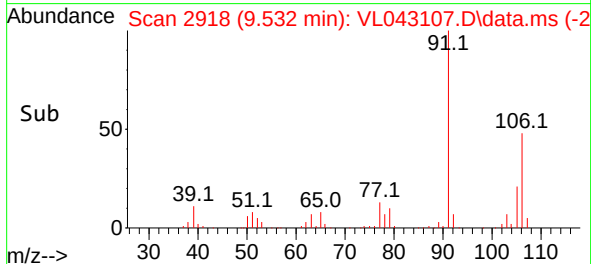
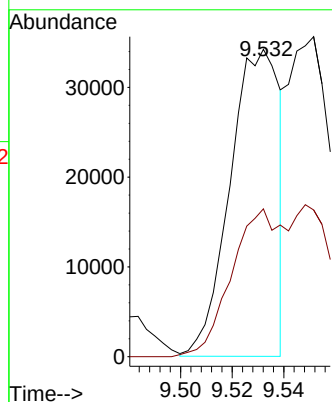
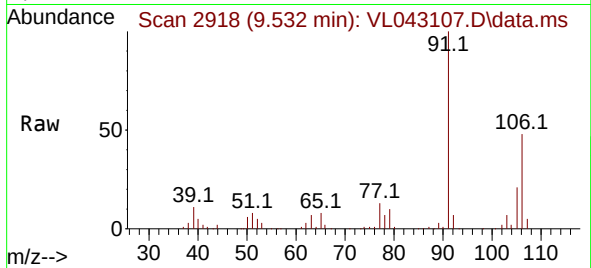




#59
m/p-Xylene
Concen: 1.087 ppbv
RT: 9.532 min Scan# 2919
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

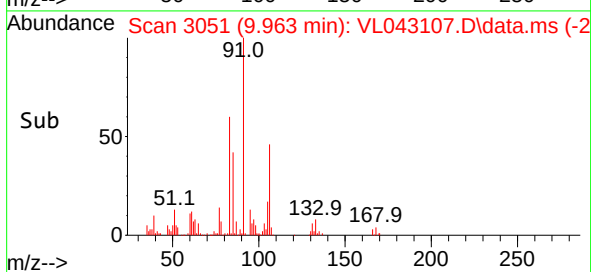
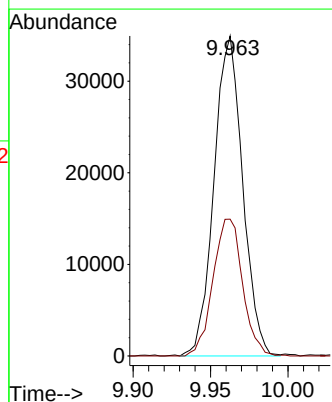
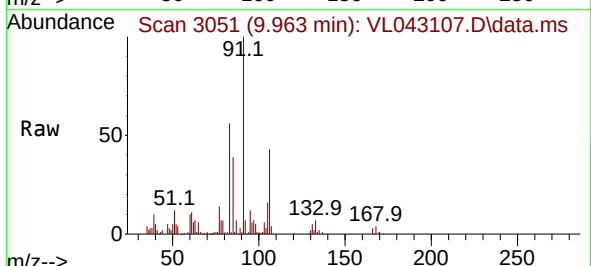
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

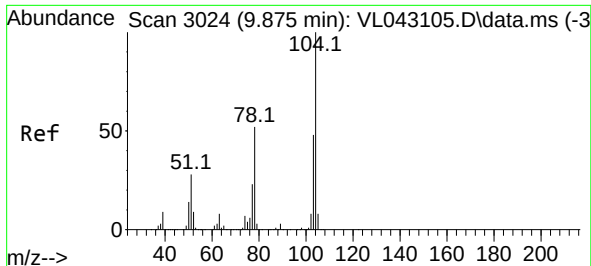
Tgt Ion: 91 Resp: 45483
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 1.088 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 44925
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8

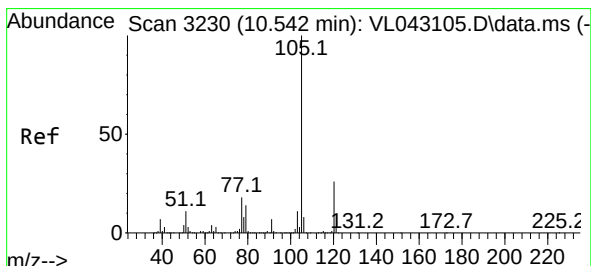
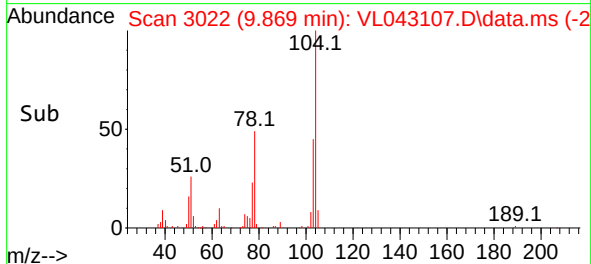
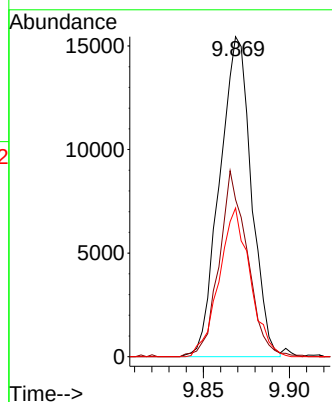
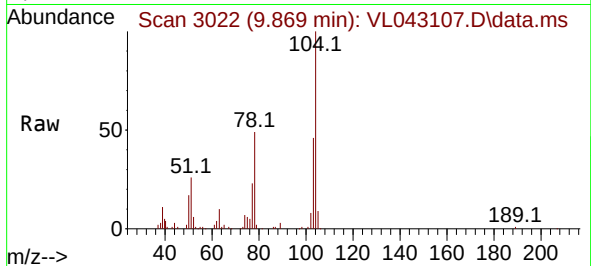




#61
Styrene
Concen: 1.063 ppbv
RT: 9.869 min Scan# 3024
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

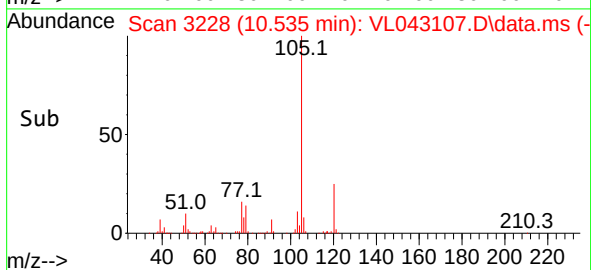
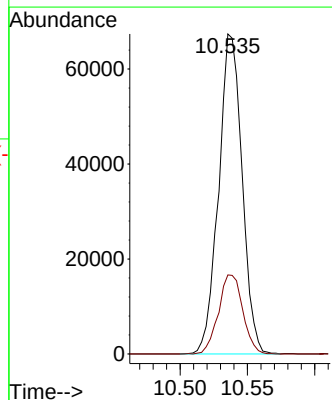
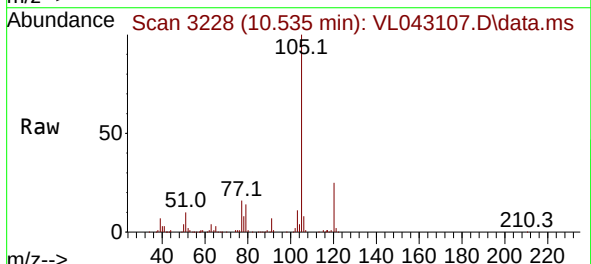
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

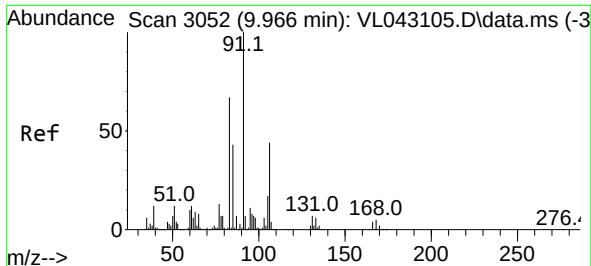
Tgt Ion:104 Resp: 19809
Ion Ratio Lower Upper
104 100
78 51.8 40.2 60.2
103 45.5 36.9 55.3



#62
Isopropylbenzene
Concen: 1.093 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 81579
Ion Ratio Lower Upper
105 100
120 25.6 20.2 30.4

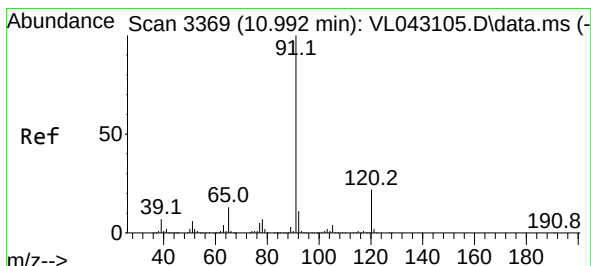
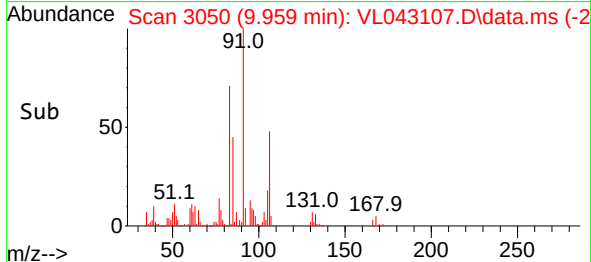
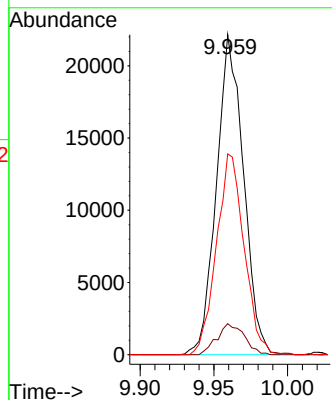
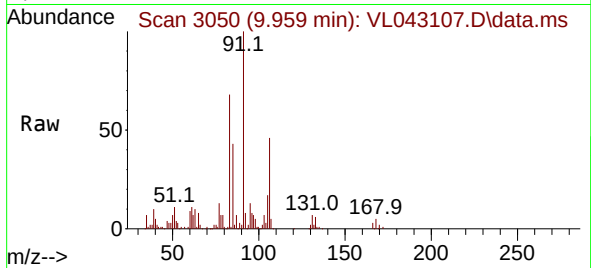




#63
1,1,2,2-Tetrachloroethane
Concen: 1.021 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

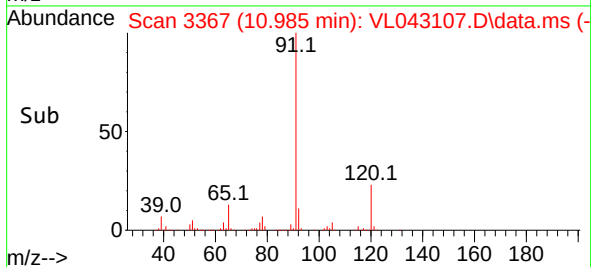
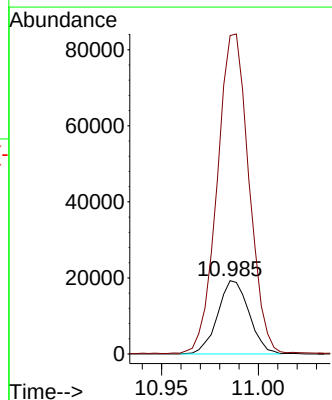
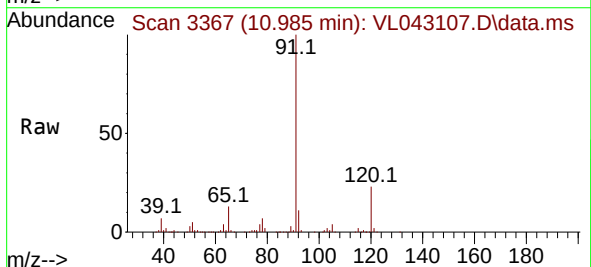
Instrument : MSVOA_L
ClientSampleId : VSTDIC001

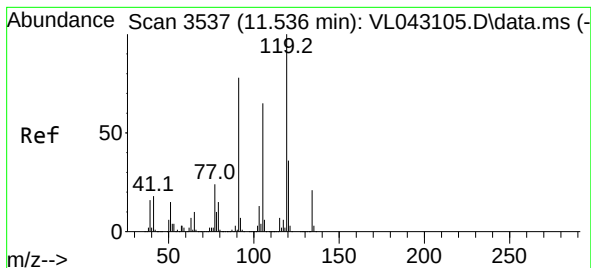
Tgt Ion: 83 Resp: 28230
Ion Ratio Lower Upper
83 100
131 9.8 4.8 14.3
85 64.3 32.0 96.0



#64
n-propylbenzene
Concen: 1.098 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 120 Resp: 21685
Ion Ratio Lower Upper
120 100
91 446.5 361.6 542.4

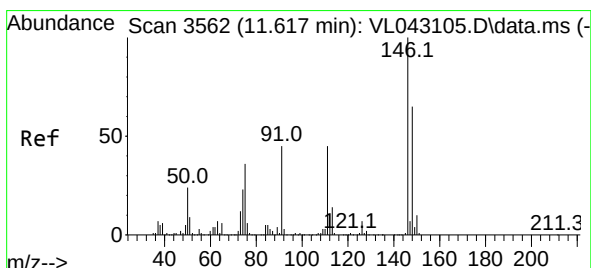
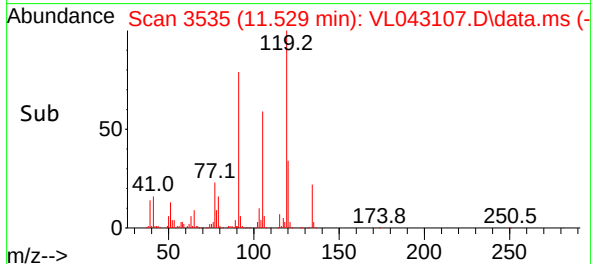
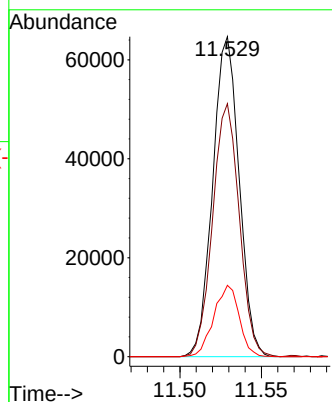
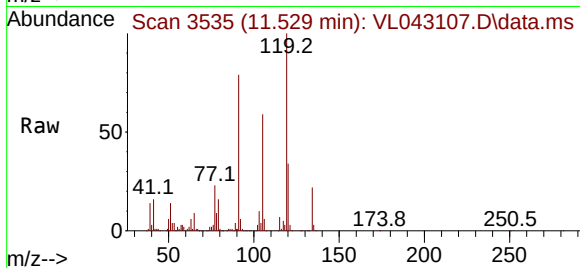




#65
tert-Butylbenzene
Concen: 1.105 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

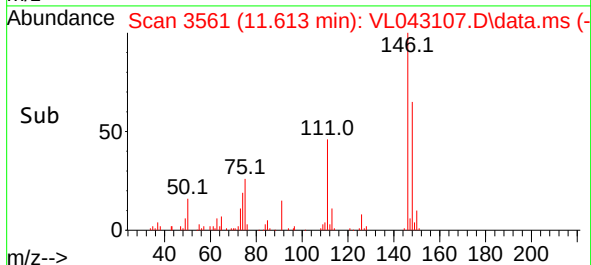
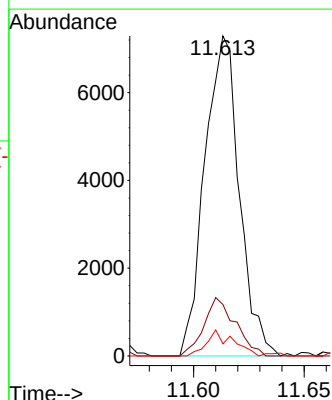
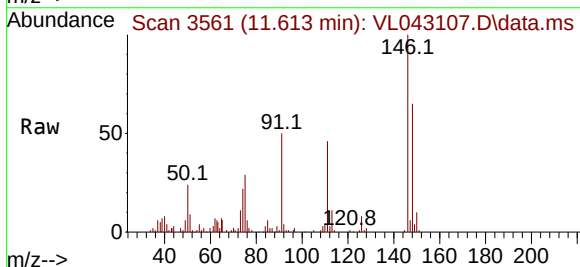
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

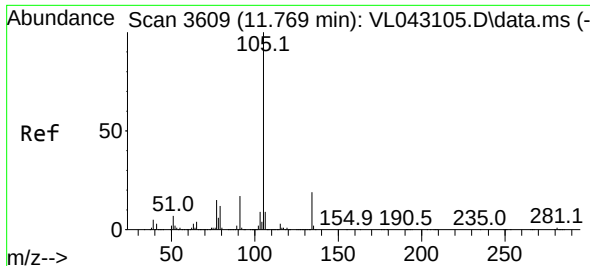
Tgt Ion:119 Resp: 72781
Ion Ratio Lower Upper
119 100
91 79.8 63.4 95.0
134 21.5 17.3 25.9



#66
Benzyl Chloride
Concen: 1.076 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 7918
Ion Ratio Lower Upper
91 100
126 16.6 14.6 22.0
128 6.6 4.6 6.8

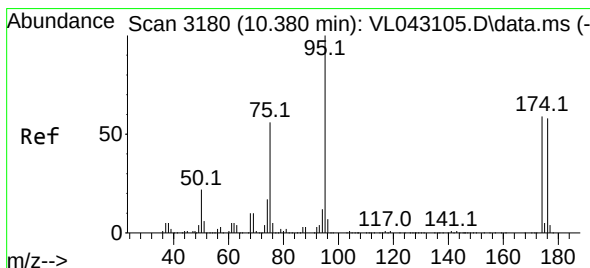
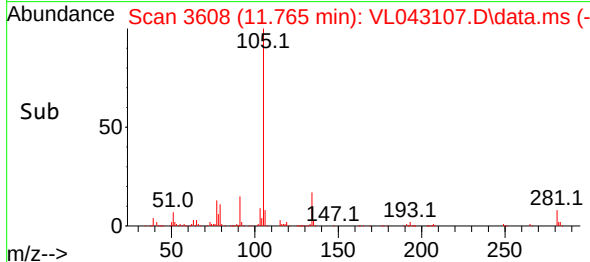
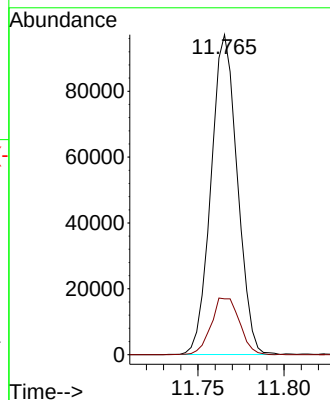
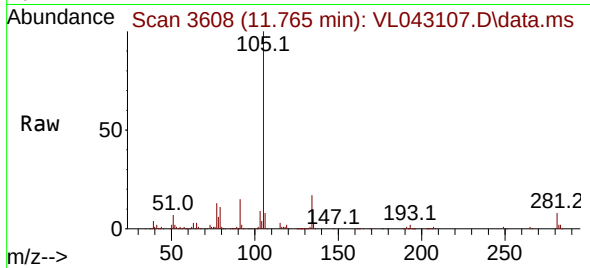




#67
 sec-Butylbenzene
 Concen: 1.103 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

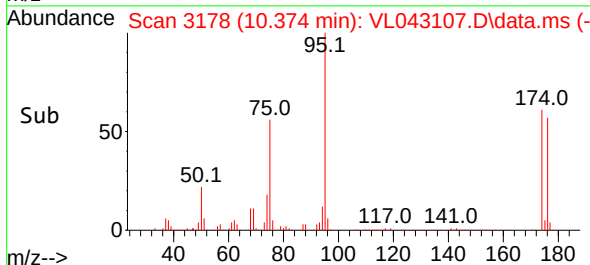
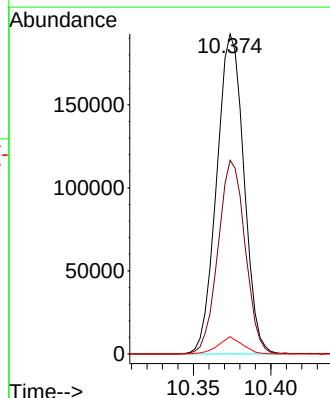
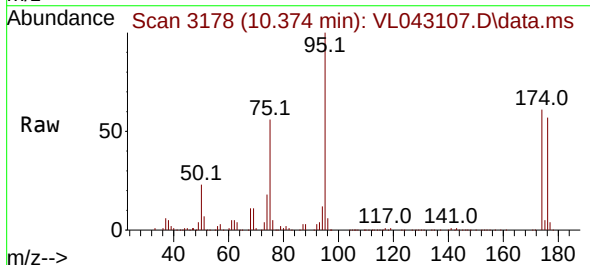
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

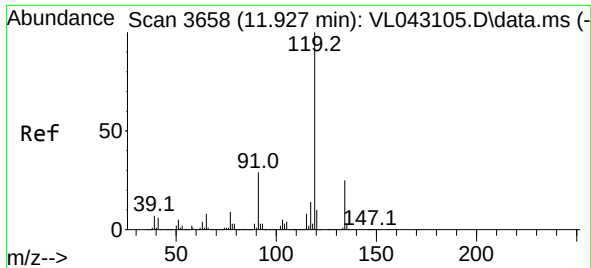
Tgt Ion:105 Resp: 103152
 Ion Ratio Lower Upper
 105 100
 134 19.2 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.912 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 95 Resp: 235307
 Ion Ratio Lower Upper
 95 100
 174 60.3 48.3 72.5
 175 4.8 3.8 5.8

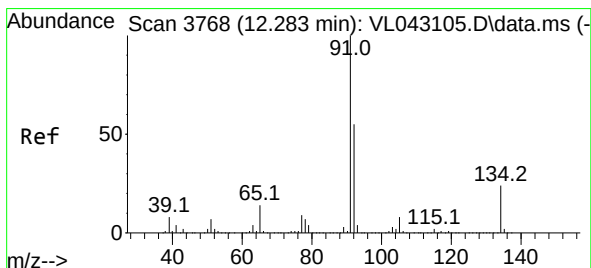
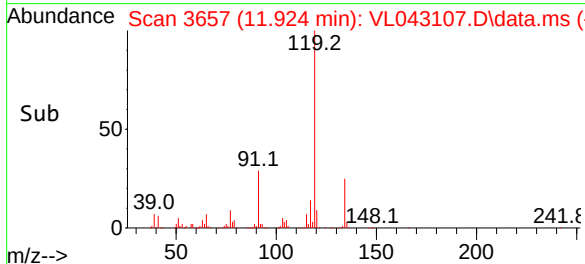
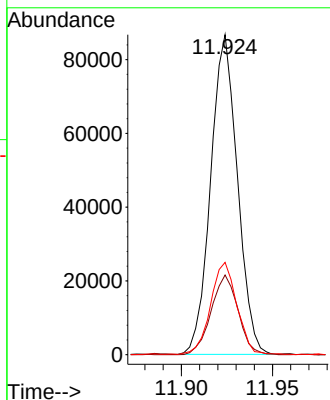
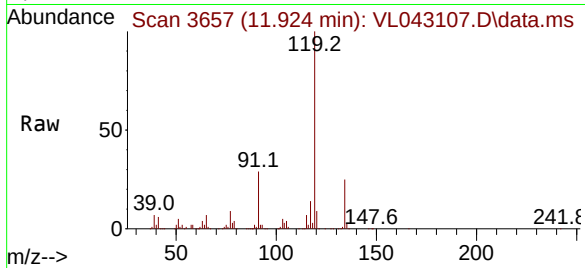




#69
p-Isopropyltoluene
Concen: 1.113 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

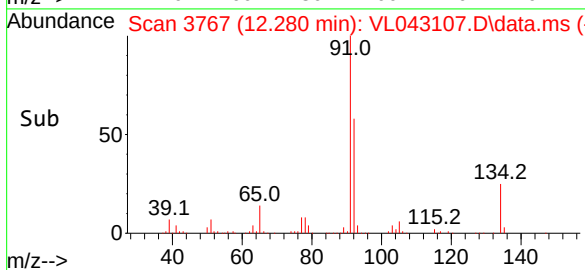
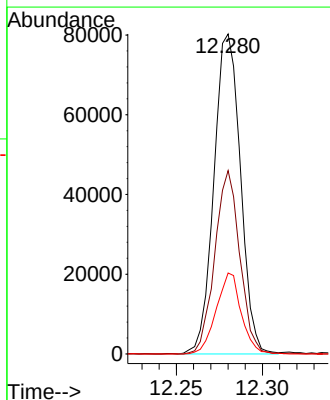
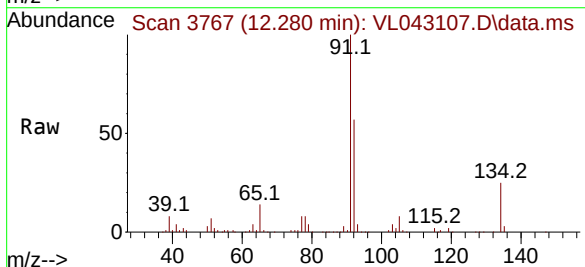
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

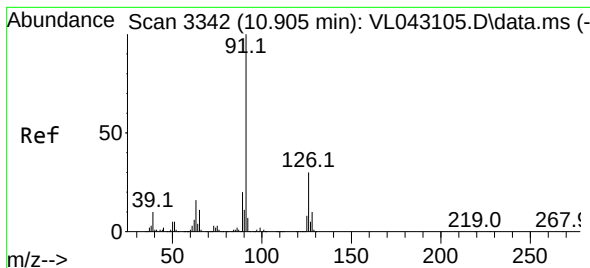
Tgt Ion:119 Resp: 88443
Ion Ratio Lower Upper
119 100
134 25.1 20.3 30.5
91 28.9 22.6 33.8



#70
n-Butylbenzene
Concen: 1.100 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 86120
Ion Ratio Lower Upper
91 100
92 54.1 44.5 66.7
134 23.9 19.3 28.9

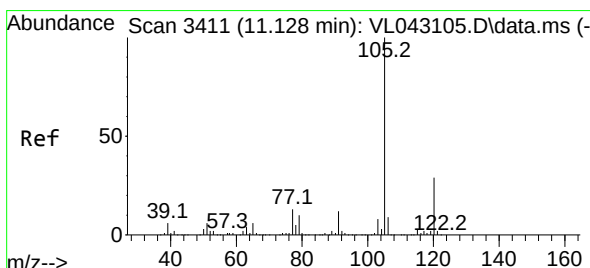
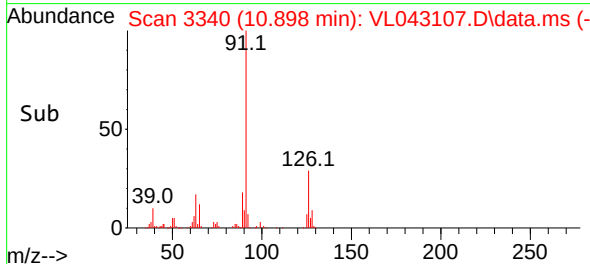
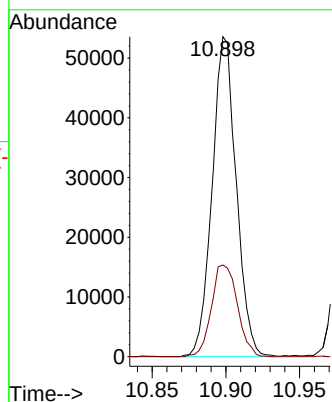
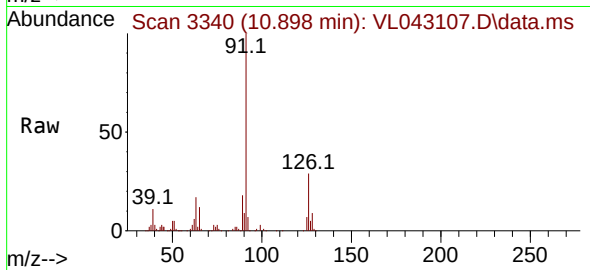




#71
2-Chlorotoluene
Concen: 1.072 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

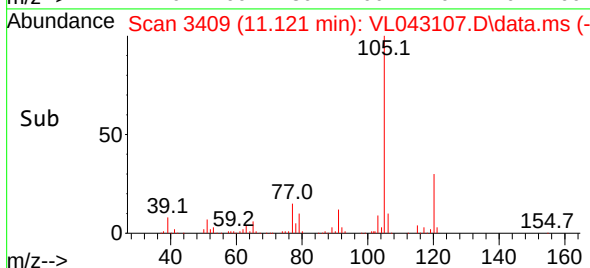
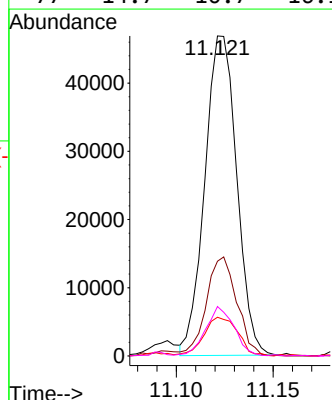
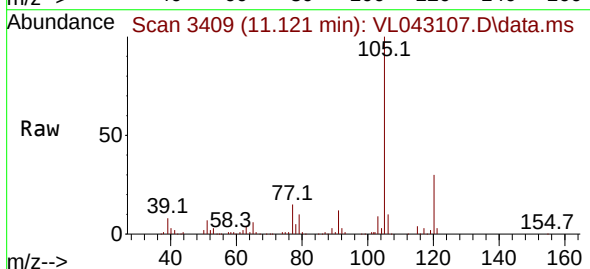
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

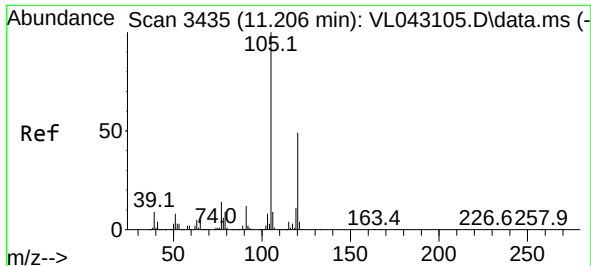
Tgt Ion: 91 Resp: 60994
Ion Ratio Lower Upper
91 100
126 30.8 12.0 48.0



#72
4-Ethyltoluene
Concen: 1.059 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 53788
Ion Ratio Lower Upper
105 100
120 31.0 24.2 36.4
91 14.0 10.0 15.0
77 14.7 10.7 16.1

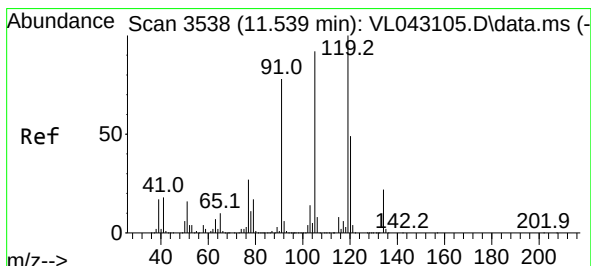
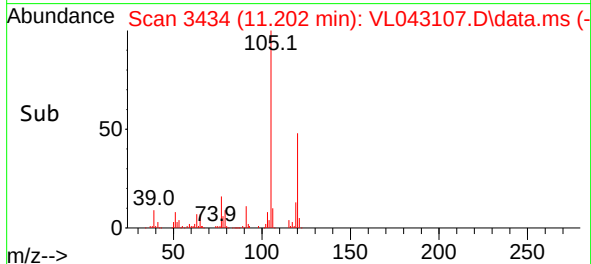
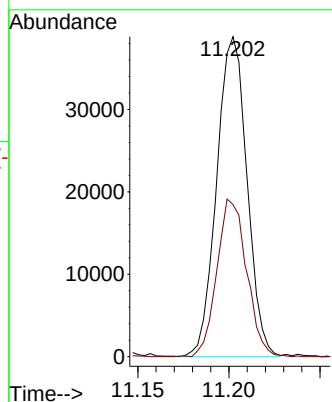
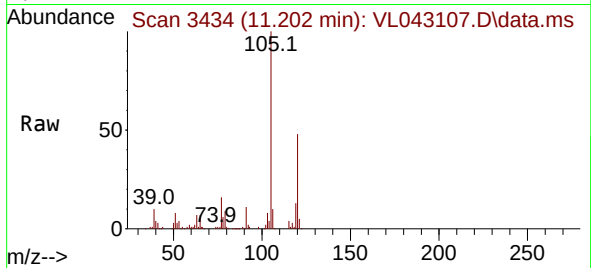




#73
 1,3,5-Trimethylbenzene
 Concen: 1.070 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

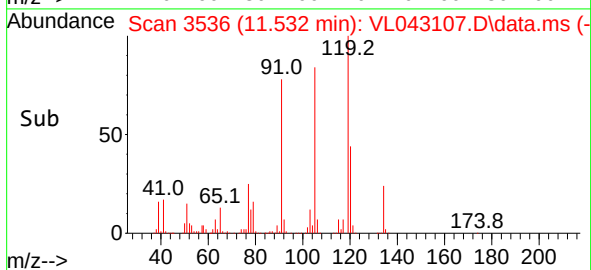
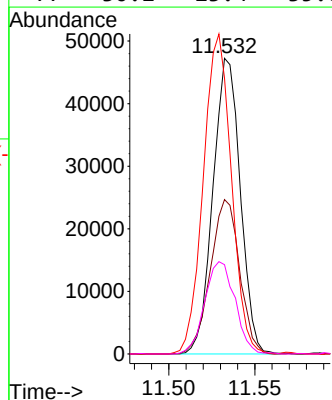
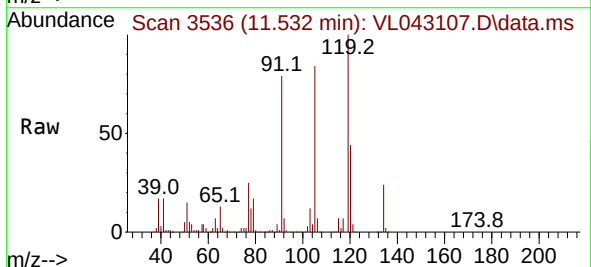
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

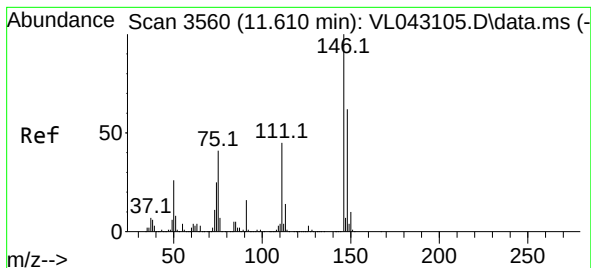
Tgt Ion:105 Resp: 44786
 Ion Ratio Lower Upper
 105 100
 120 47.3 39.0 58.6



#74
 1,2,4-Trimethylbenzene
 Concen: 1.112 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118
 Ion Ratio Lower Upper
 105 100
 120 52.2 42.8 64.2
 91 93.1 68.3 102.5
 77 30.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 1.074 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

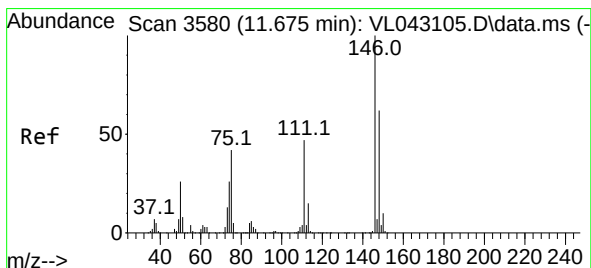
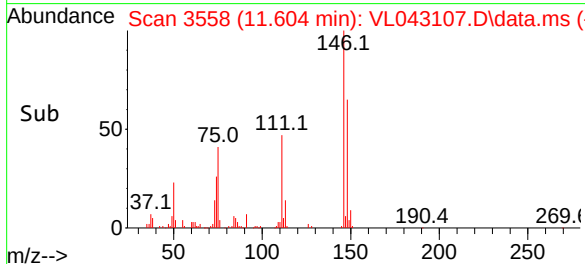
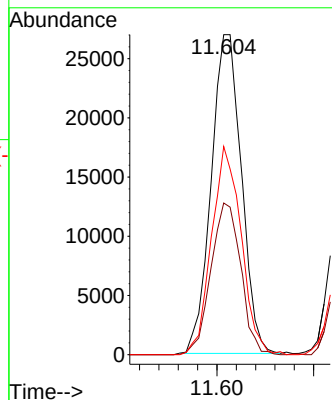
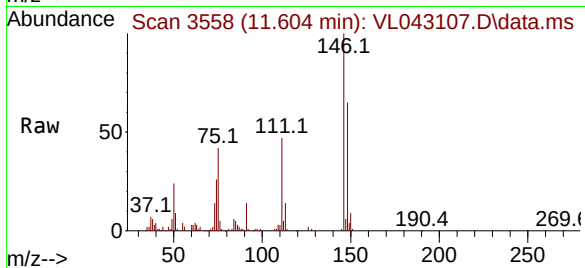
Tgt Ion:146 Resp: 29186

Ion Ratio Lower Upper

146 100

111 47.0 23.3 69.9

148 64.0 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 1.066 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

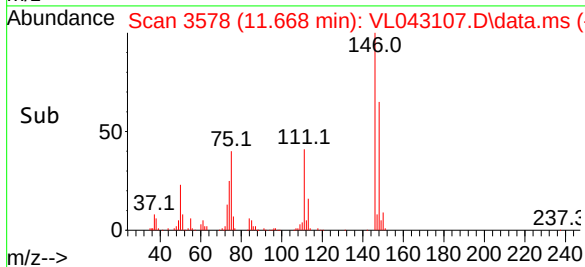
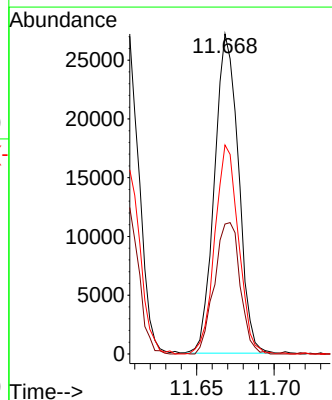
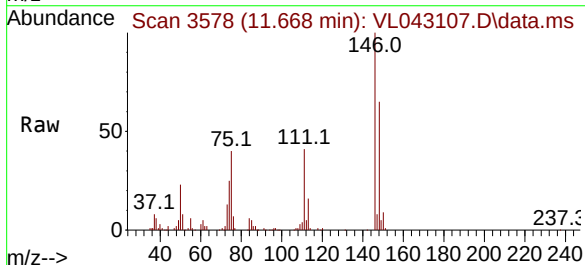
Tgt Ion:146 Resp: 29225

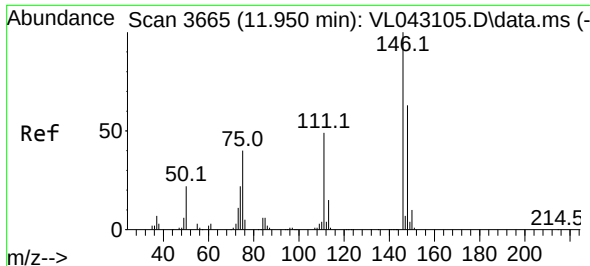
Ion Ratio Lower Upper

146 100

111 44.2 22.4 67.0

148 65.0 31.6 94.7

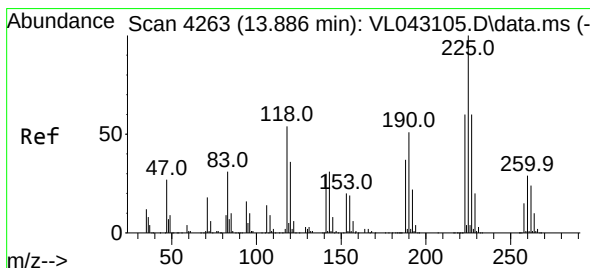
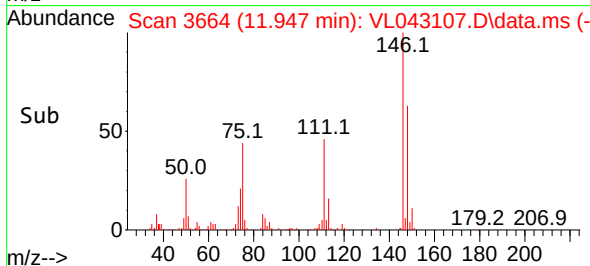
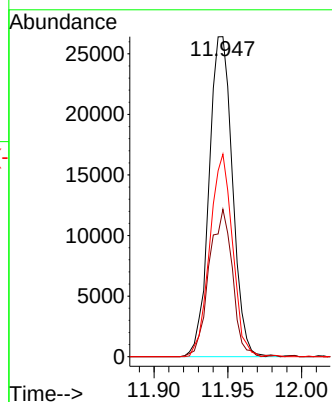
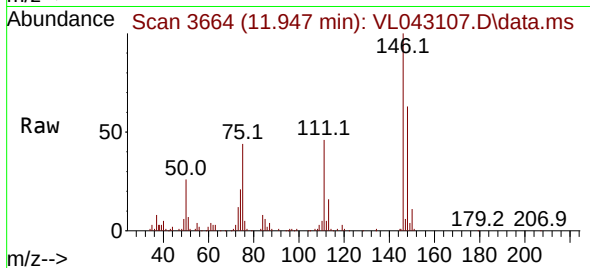




#77
1,2-Dichlorobenzene
Concen: 1.109 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

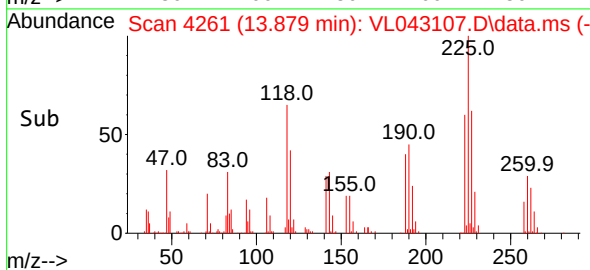
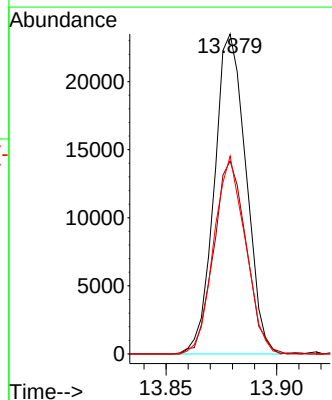
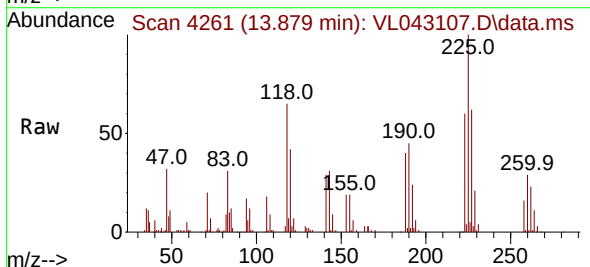
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

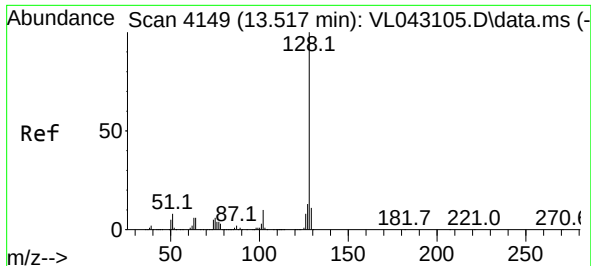
Tgt Ion:146 Resp: 29146
Ion Ratio Lower Upper
146 100
111 45.8 24.0 72.0
148 61.5 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 1.146 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:225 Resp: 23330
Ion Ratio Lower Upper
225 100
223 62.4 50.2 75.4
227 61.6 49.6 74.4

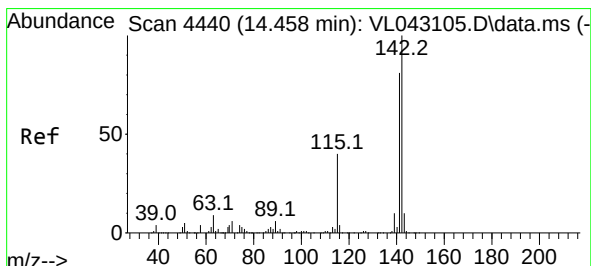
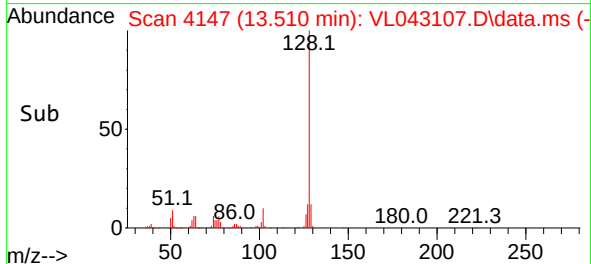
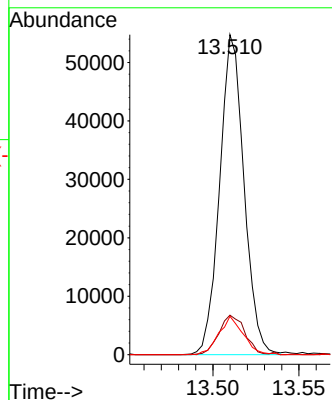
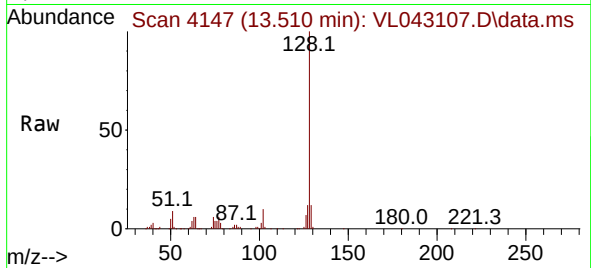




#79
Naphthalene
Concen: 1.114 ppbv
RT: 13.510 min Scan# 4149
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

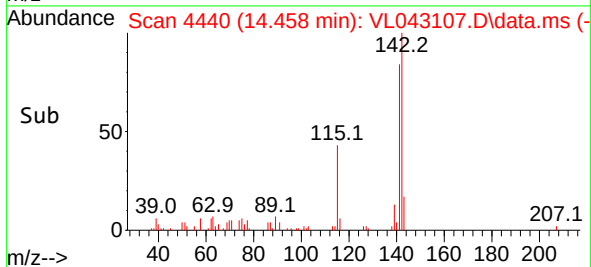
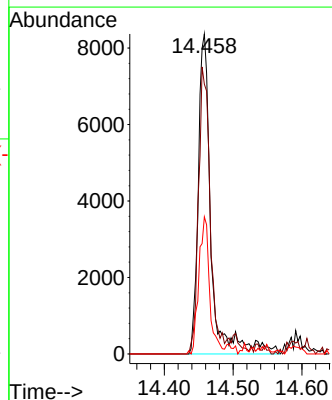
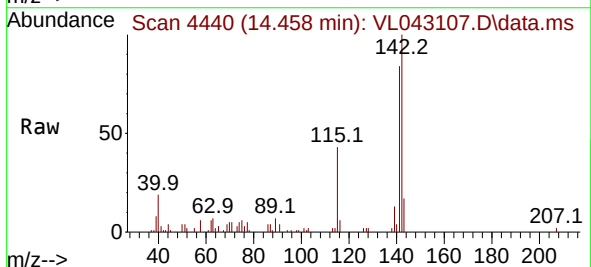
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

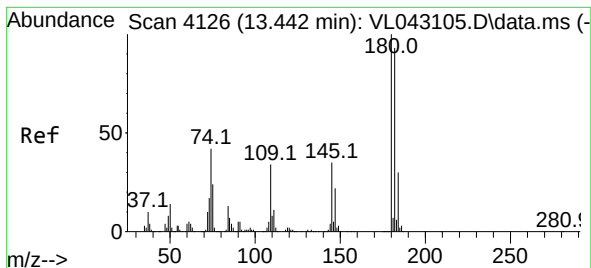
Tgt Ion:128 Resp: 53930
Ion Ratio Lower Upper
128 100
127 12.4 10.5 15.7
129 12.0 9.1 13.7



#80
Naphthalene,2-methyl-
Concen: 0.849 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:142 Resp: 10851
Ion Ratio Lower Upper
142 100
141 88.9 64.6 97.0
115 38.1 30.2 45.4





#81

1,2,4-Trichlorobenzene

Concen: 1.090 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL043107.D

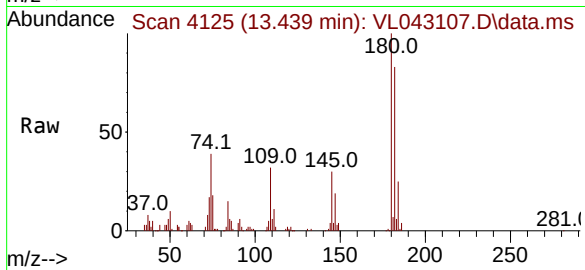
Acq: 14 Oct 2025 12:01

Instrument :

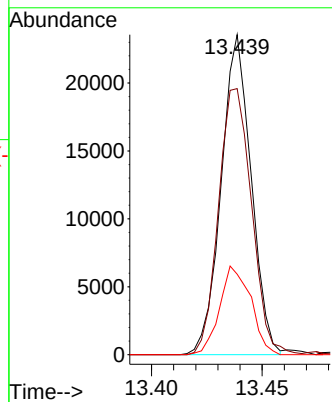
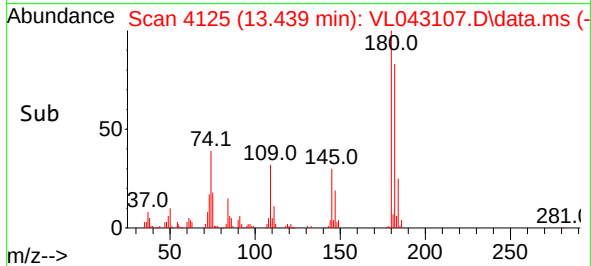
MSVOA_L

ClientSampleId :

VSTDIC001



Tgt Ion:	180	Resp:	22161
Ion Ratio	Lower	Upper	
180	100		
182	92.5	75.5	113.3
184	28.8	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	101636	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	336188	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	303445	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	232904	9.875	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	7851	0.543	ppbv	98
3) Chlorodifluoromethane	1.479	51	8497	0.543	ppbv #	89
4) Chloromethane	1.534	50	3254	0.568	ppbv #	88
5) Vinyl Chloride	1.583	62	2857	0.509	ppbv	96
6) Bromomethane	1.670	94	1709	0.555	ppbv	100
7) Chloroethane	1.706	64	1326	0.578	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	5970	0.511	ppbv	92
9) Propene	1.486	41	3750	0.541	ppbv	92
10) Heptane	4.981	43	6039	0.304	ppbv #	27
11) Trichlorofluoromethane	1.881	101	7672	0.543	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	6173	0.543	ppbv	100
13) Ethanol	1.725	45	1468	0.572	ppbv	86
14) Bromoethene	1.787	108	2444	0.578	ppbv #	90
15) Acetone	1.839	43	7931	0.576	ppbv #	88
16) 1,3-Butadiene	1.612	39	3962	0.607	ppbv	91
17) tert-Butyl alcohol	2.046	59	10213	0.543	ppbv #	88
18) 1,1-Dichloroethene	2.039	96	2636	0.531	ppbv	91
19) Isopropyl Alcohol	1.887	45	4932	0.578	ppbv #	43
20) Methylene Chloride	2.065	84	3750	0.693	ppbv #	75
21) Allyl Chloride	2.098	41	5575	0.551	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	3093	0.522	ppbv	98
23) Vinyl Acetate	2.467	43	10914	0.544	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	5942	0.519	ppbv	99
25) Ethyl Acetate	2.845	43	17918	0.527	ppbv #	96
26) Hexane	2.829	57	8908	0.569	ppbv	95
27) Carbon Disulfide	2.153	76	7230	0.504	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	3770	0.529	ppbv #	47
29) Chloroform	2.852	83	12384	0.546	ppbv	100
30) Cyclohexane	3.862	84	6978	0.511	ppbv #	88
31) cis-1,2-Dichloroethene	2.725	61	7576	0.507	ppbv #	88
32) 1,1,1-Trichloroethane	3.373	97	12234	0.518	ppbv	97
34) 2-Butanone	2.564	43	12659	0.557	ppbv	99
35) Carbon Tetrachloride	3.768	117	11931	0.494	ppbv	87
36) Benzene	3.661	78	16376	0.517	ppbv	94
37) 1,2-Dichloroethane	3.224	62	9907	0.543	ppbv	99
38) Trichloroethene	4.554	130	6745	0.511	ppbv	95
39) 1,2-Dichloropropane	4.318	63	6032	0.521	ppbv #	80
40) 1,4-Dioxane	4.603	88	1303	0.252	ppbv #	33
41) Tetrahydrofuran	3.065	42	6831	0.538	ppbv	97
42) Bromodichloromethane	4.496	83	13094	0.519	ppbv	96
43) Methyl Methacrylate	4.888	69	4902	0.303	ppbv #	1
44) 2,2,4-Trimethylpentane	4.648	57	27304	0.516	ppbv	98
45) t-1,3-Dichloropropene	6.425	75	8030	0.498	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

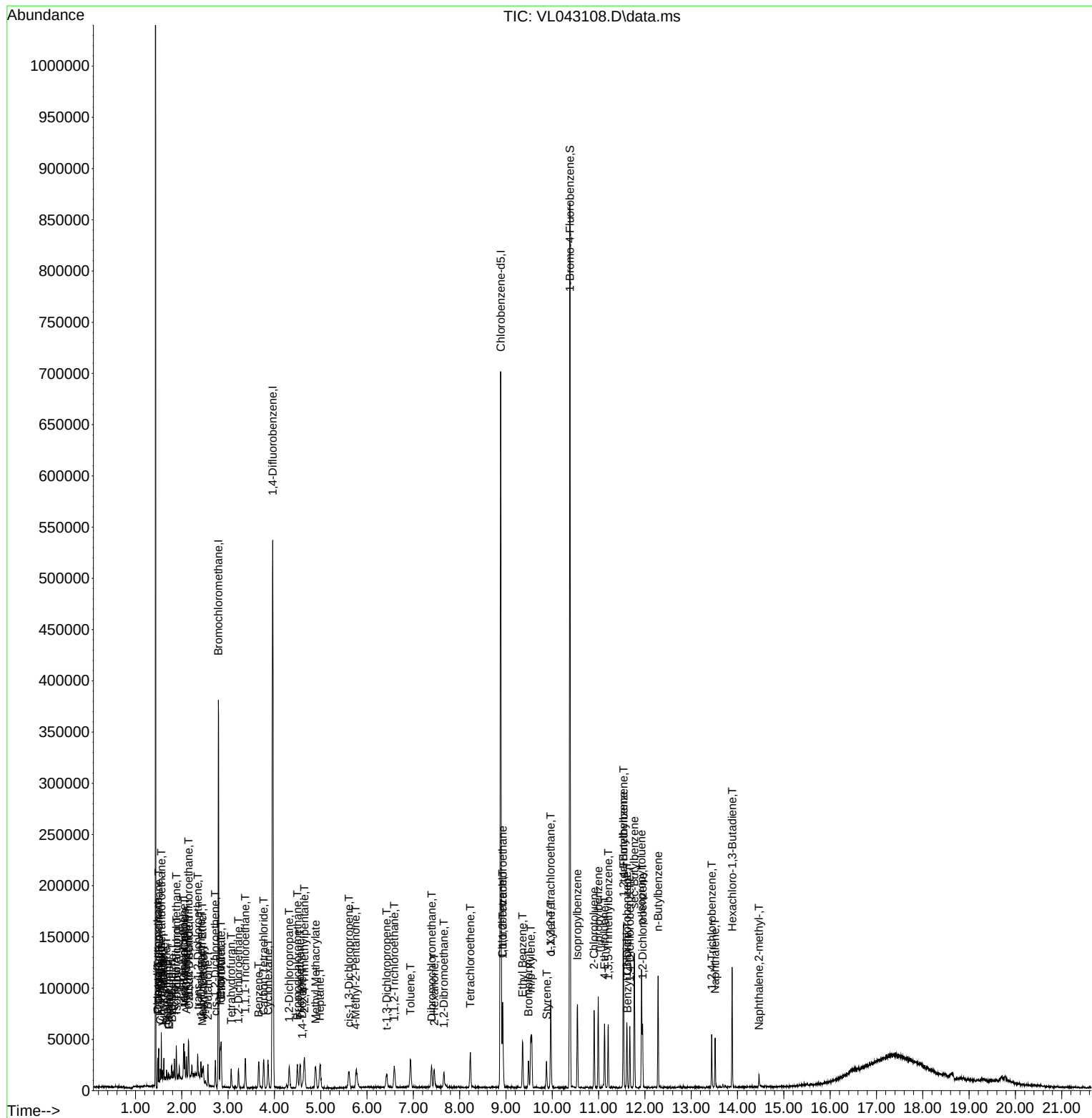
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	8375	0.435	ppbv #	88
47) 1,1,2-Trichloroethane	6.587	97	6996	0.560	ppbv	92
48) Dibromochloromethane	7.393	129	10413	0.498	ppbv	96
49) Bromoform	9.487	173	8455	0.498	ppbv	96
50) 4-Methyl-2-Pentanone	5.755	43	3434	0.110	ppbv #	38
51) 2-Hexanone	7.451	43	11485	0.491	ppbv #	94
52) Tetrachloroethene	8.231	164	5863	0.513	ppbv #	90
53) Toluene	6.936	91	20380	0.542	ppbv	99
54) 1,2-Dibromoethane	7.661	107	9586	0.486	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.930	131	10044	0.525	ppbv #	1
57) Chlorobenzene	8.927	112	15318	0.540	ppbv	95
58) Ethyl Benzene	9.357	91	27330	0.521	ppbv	91
59) m/p-Xylene	9.539	91	20079	0.483	ppbv #	15
60) o-Xylene	9.969	91	21745	0.530	ppbv	96
61) Styrene	9.878	104	9052	0.489	ppbv	96
62) Isopropylbenzene	10.542	105	38899	0.525	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	13653	0.497	ppbv	97
64) n-propylbenzene	10.992	120	10435	0.532	ppbv	99
65) tert-Butylbenzene	11.532	119	35537	0.543	ppbv	99
66) Benzyl Chloride	11.620	91	3477	0.476	ppbv #	97
67) sec-Butylbenzene	11.769	105	50259	0.541	ppbv	100
69) p-Isopropyltoluene	11.927	119	41366	0.524	ppbv	99
70) n-Butylbenzene	12.283	91	39620	0.509	ppbv	98
71) 2-Chlorotoluene	10.901	91	29722	0.526	ppbv	98
72) 4-Ethyltoluene	11.128	105	26408	0.524	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	21754	0.523	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	25663	0.551	ppbv	93
75) 1,3-Dichlorobenzene	11.610	146	13697	0.507	ppbv	95
76) 1,4-Dichlorobenzene	11.675	146	14514	0.533	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	14324	0.548	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	11400	0.564	ppbv	98
79) Naphthalene	13.516	128	23247	0.483	ppbv #	94
80) Naphthalene,2-methyl-	14.462	142	3874	0.305	ppbv #	84
81) 1,2,4-Trichlorobenzene	13.442	180	8395	0.416	ppbv	98

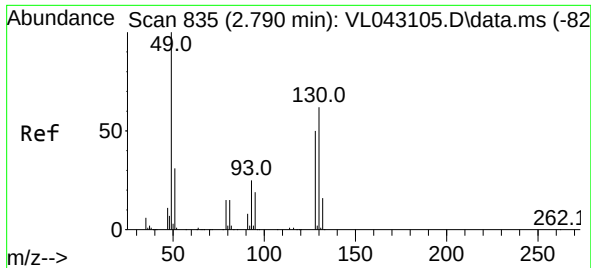
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Oct 15 01:53:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

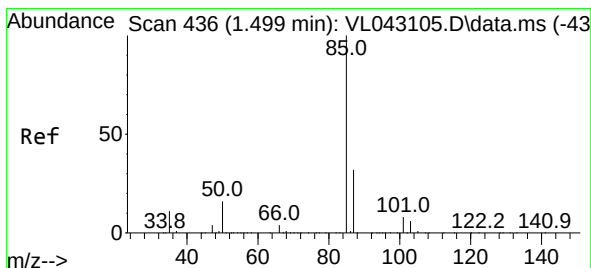
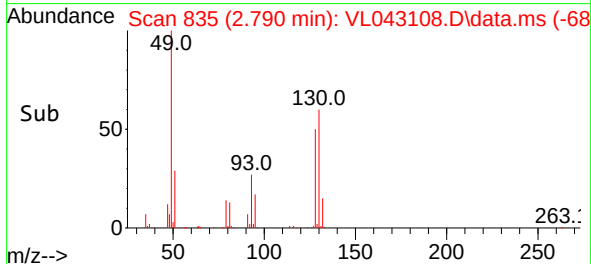
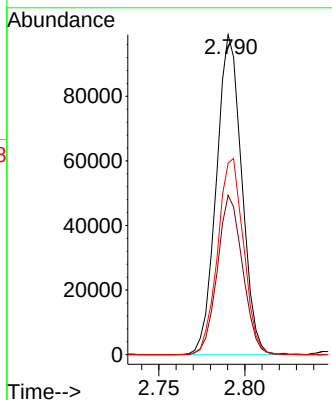
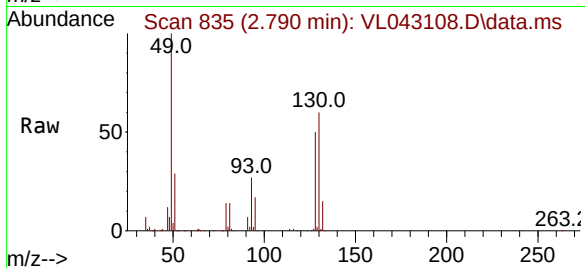




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

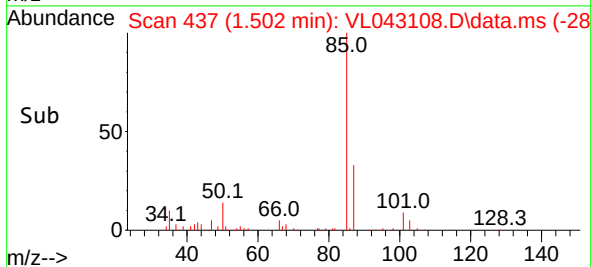
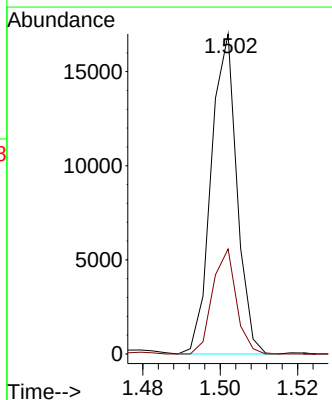
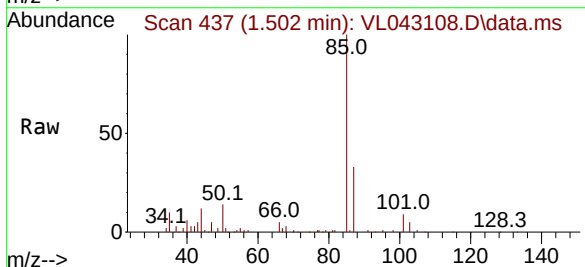
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

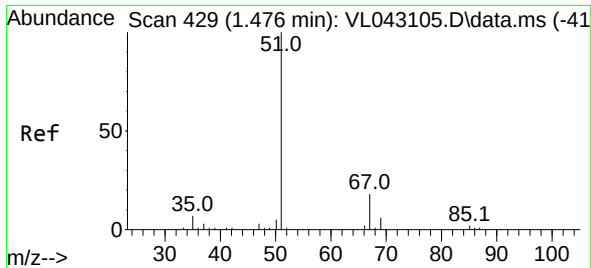
Tgt Ion: 49 Resp: 101636
Ion Ratio Lower Upper
49 100
128 49.5 24.4 73.4
130 62.5 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 7851
Ion Ratio Lower Upper
85 100
87 32.8 25.3 37.9

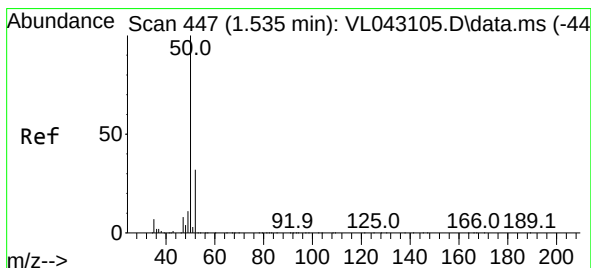
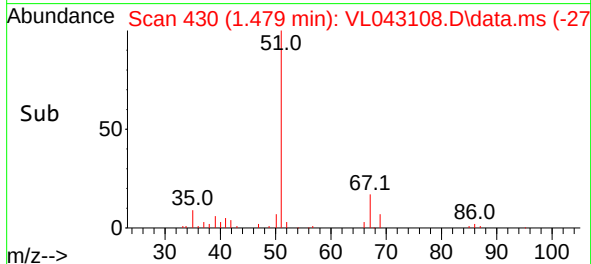
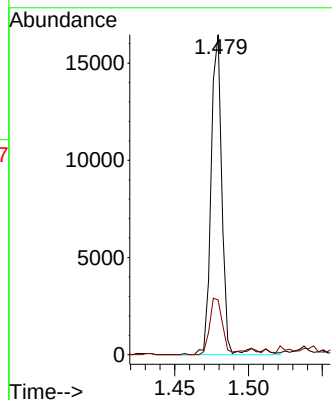
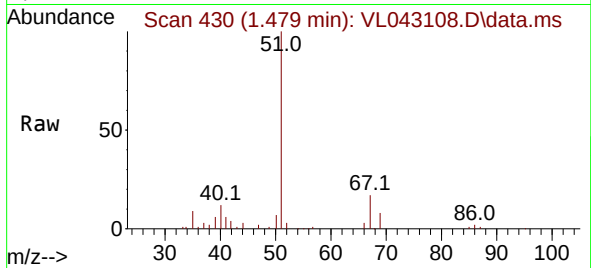




#3
Chlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

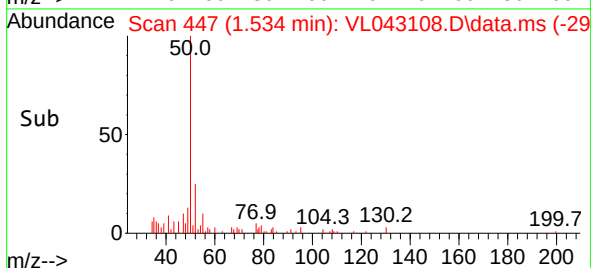
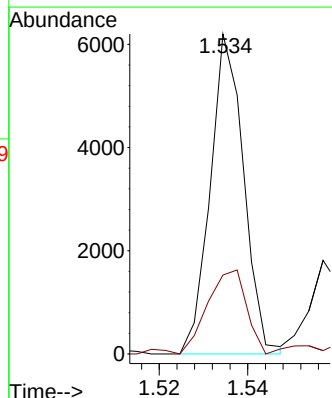
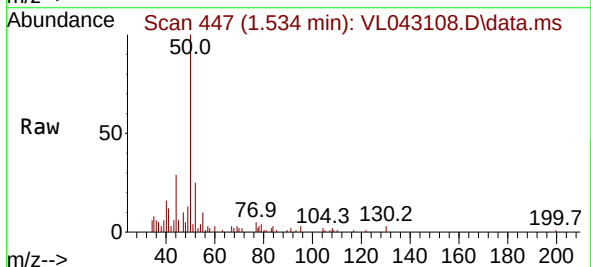
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

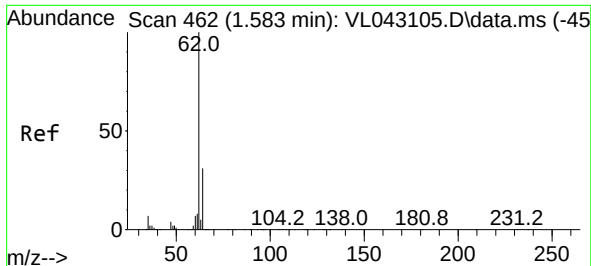
Tgt Ion: 51 Resp: 8497
Ion Ratio Lower Upper
51 100
67 23.8 15.1 22.7#



#4
Chloromethane
Concen: 0.568 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 50 Resp: 3254
Ion Ratio Lower Upper
50 100
52 24.7 25.2 37.8#

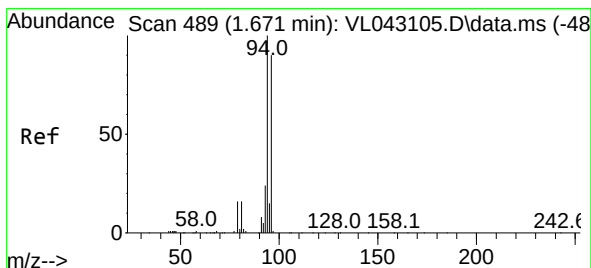
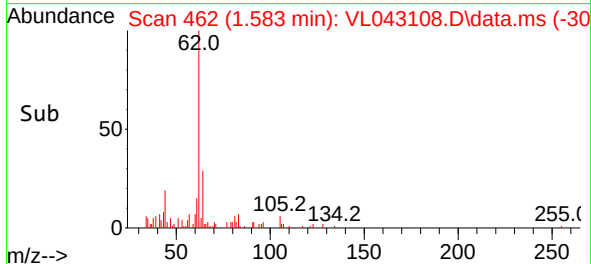
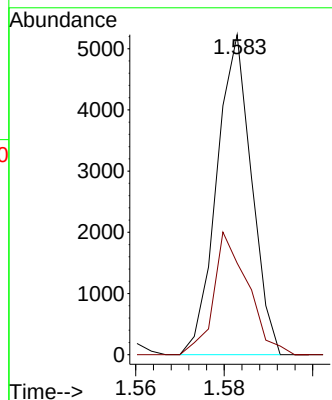
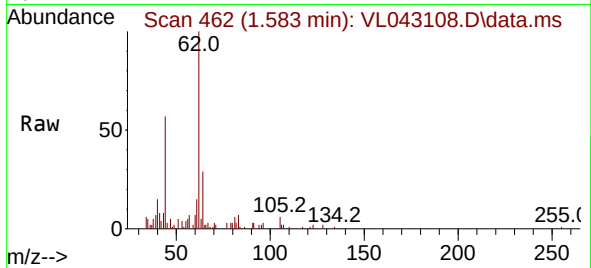




#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

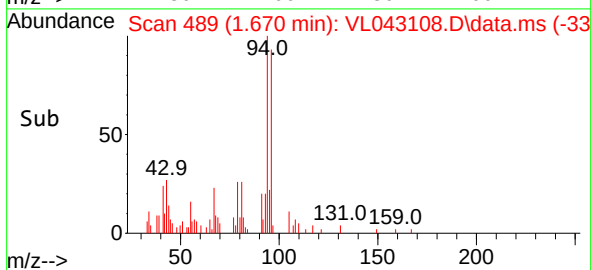
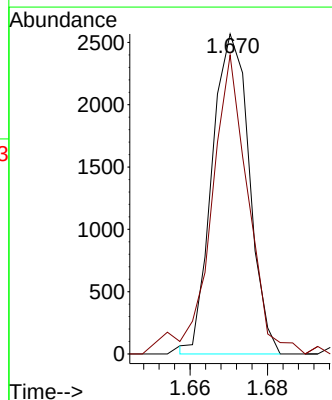
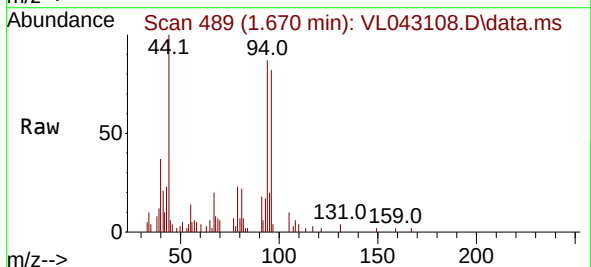
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

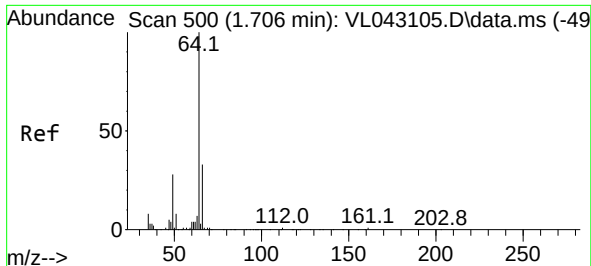
Tgt Ion: 62 Resp: 2857
 Ion Ratio Lower Upper
 62 100
 64 28.6 24.6 36.8



#6
 Bromomethane
 Concen: 0.555 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 94 Resp: 1709
 Ion Ratio Lower Upper
 94 100
 96 89.9 72.2 108.4

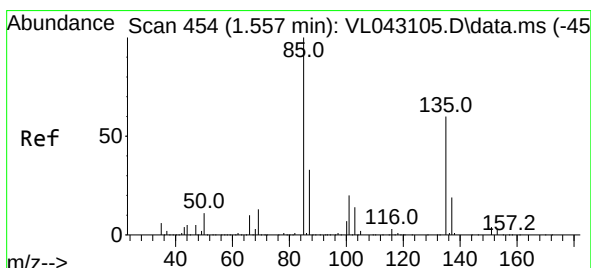
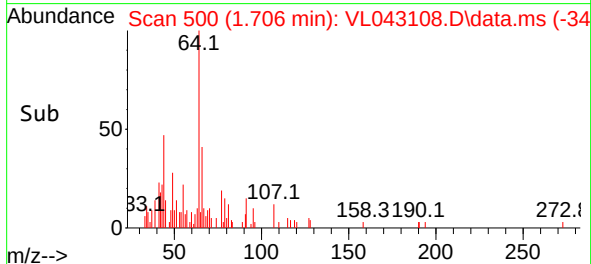
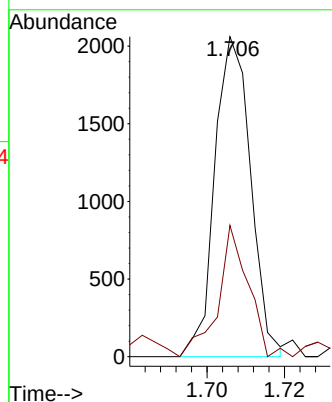
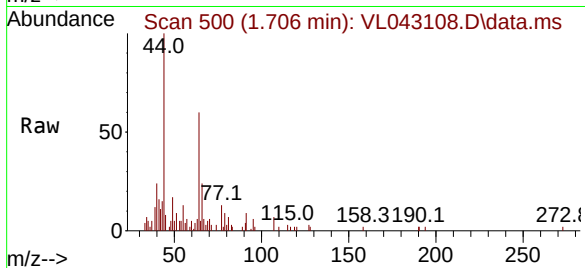




#7
Chloroethane
Concen: 0.578 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

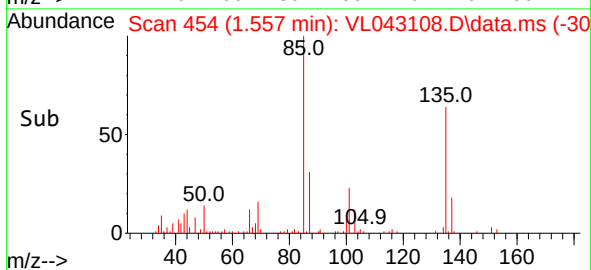
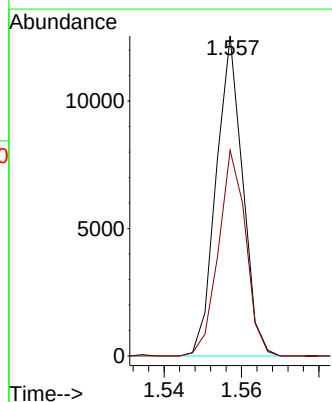
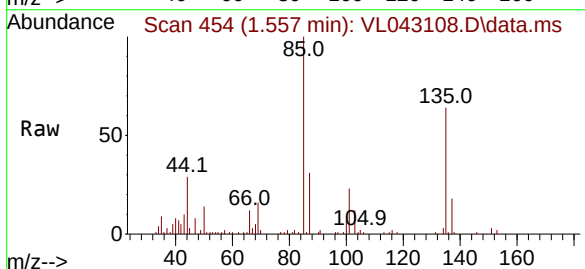
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

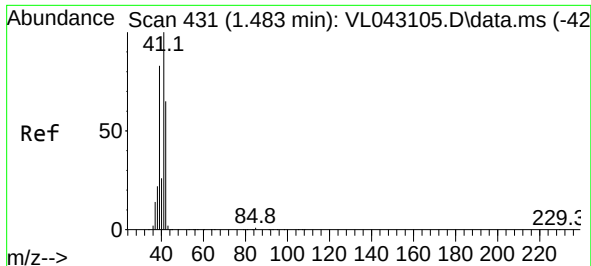
Tgt Ion: 64 Resp: 1326
Ion Ratio Lower Upper
64 100
66 41.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.511 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970
Ion Ratio Lower Upper
85 100
135 66.3 48.2 72.4





#9

Propene

Concen: 0.541 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

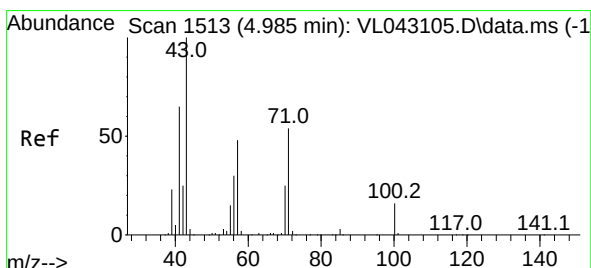
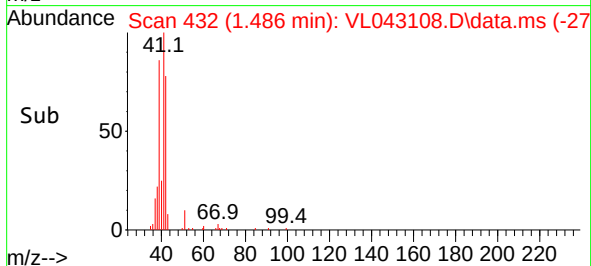
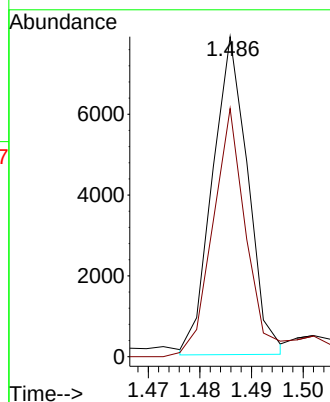
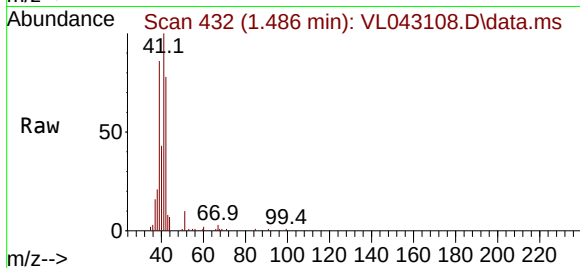
VSTDIC0.5

Tgt Ion: 41 Resp: 3750

Ion Ratio Lower Upper

41 100

42 75.0 55.1 82.7



#10

Heptane

Concen: 0.304 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043108.D

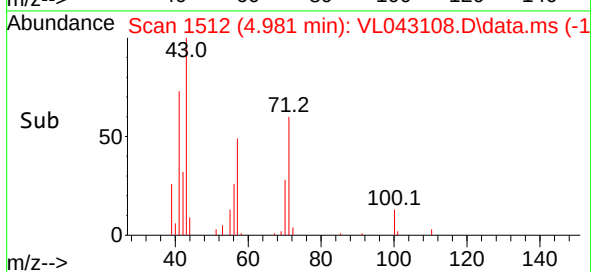
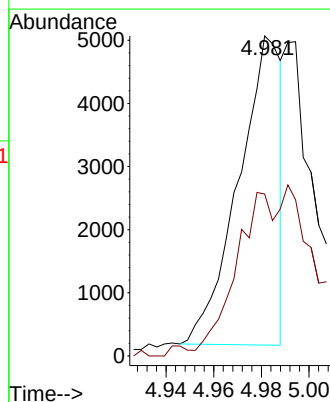
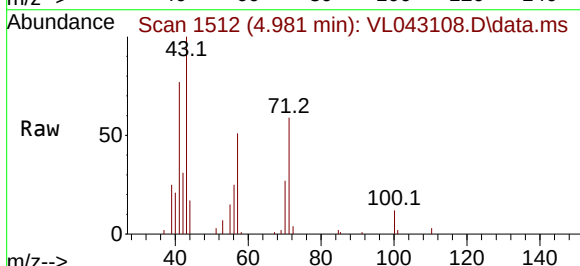
Acq: 14 Oct 2025 12:34

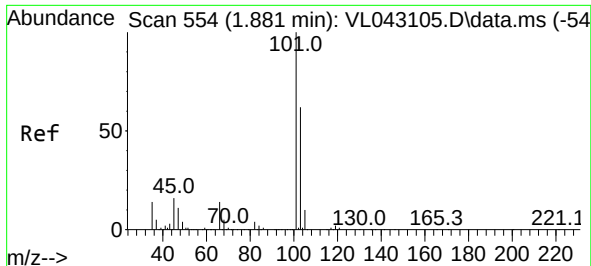
Tgt Ion: 43 Resp: 6039

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#

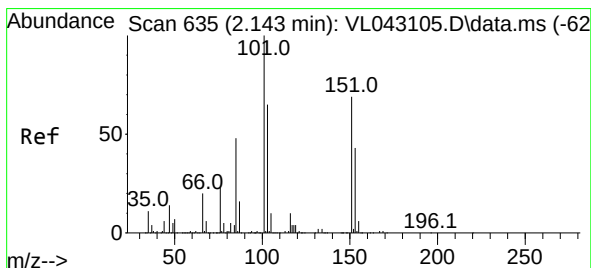
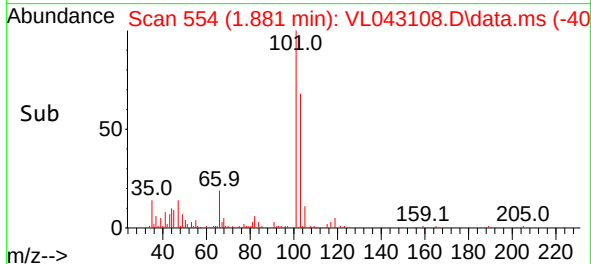
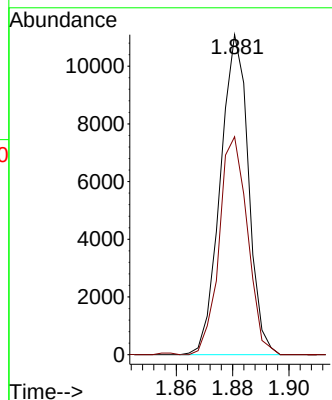
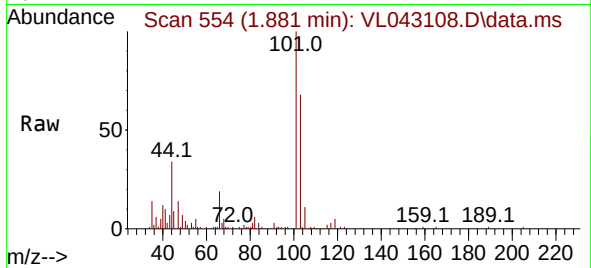




#11
 Trichlorofluoromethane
 Concen: 0.543 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

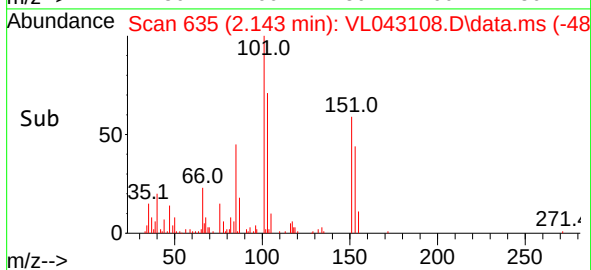
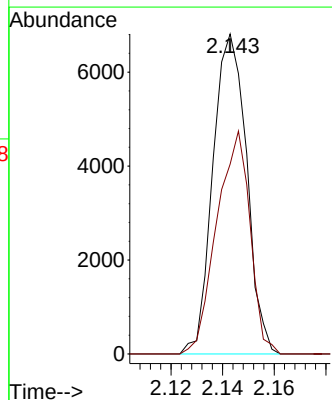
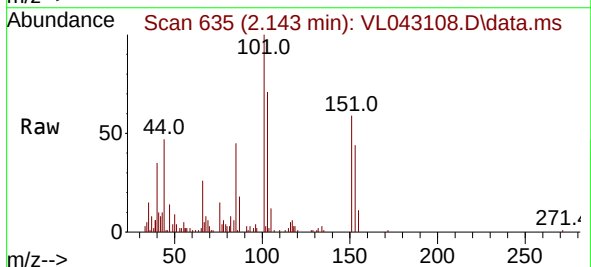
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

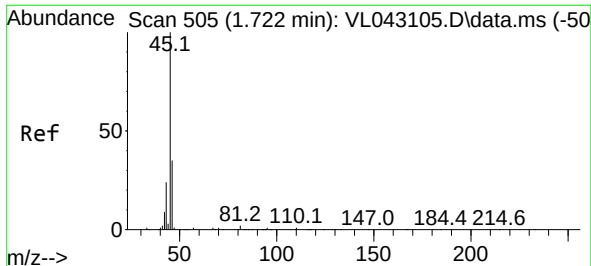
Tgt Ion:101 Resp: 7672
 Ion Ratio Lower Upper
 101 100
 103 68.1 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.543 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion:101 Resp: 6173
 Ion Ratio Lower Upper
 101 100
 151 68.8 54.7 82.1

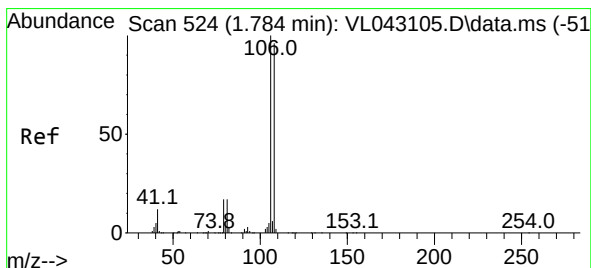
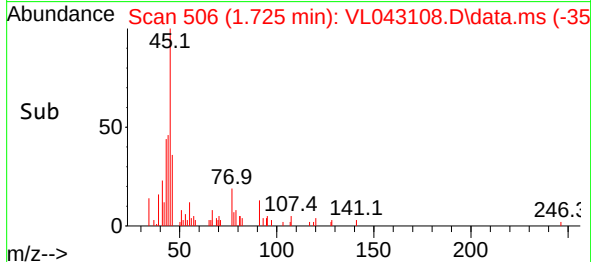
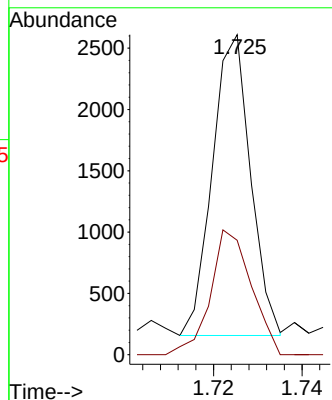
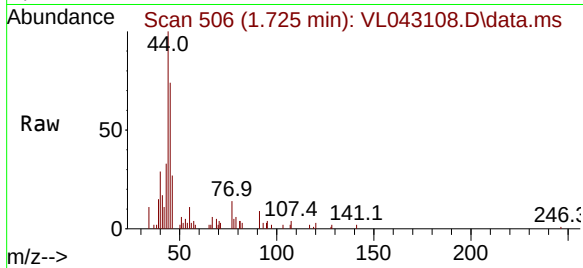




#13
Ethanol
Concen: 0.572 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

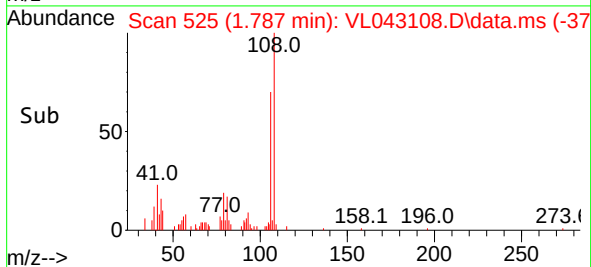
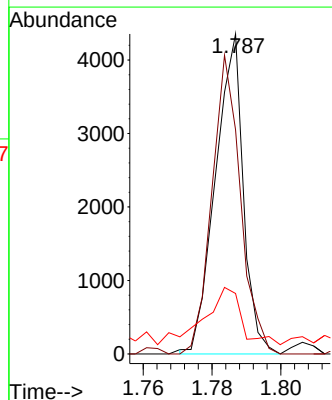
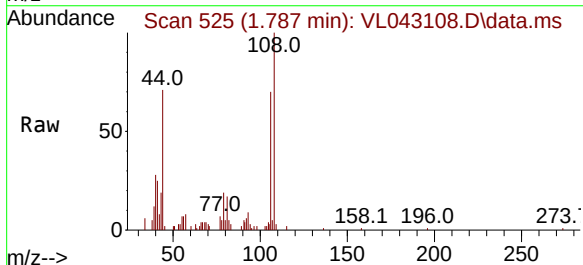
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

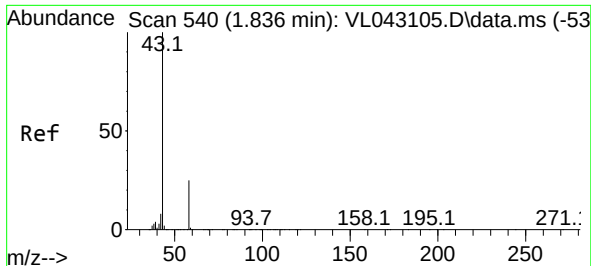
Tgt Ion: 45 Resp: 1468
Ion Ratio Lower Upper
45 100
46 45.1 14.7 58.9



#14
Bromoethene
Concen: 0.578 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 108 Resp: 2444
Ion Ratio Lower Upper
108 100
106 98.2 84.4 126.6
79 31.2 15.3 22.9#

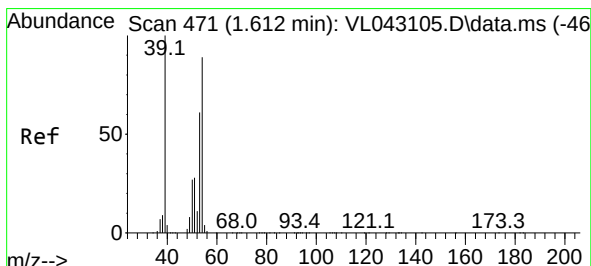
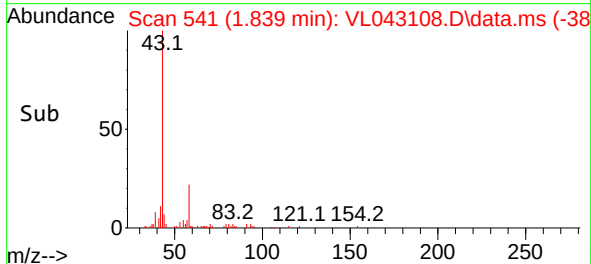
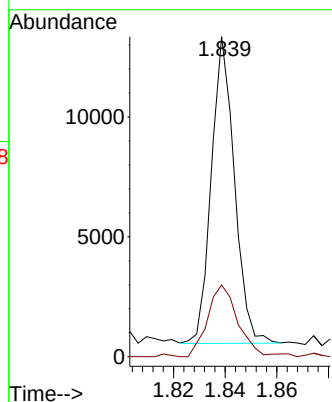
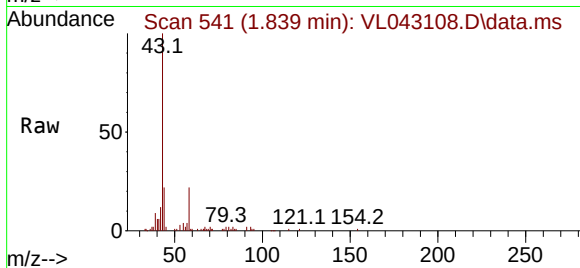




#15
Acetone
Concen: 0.576 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

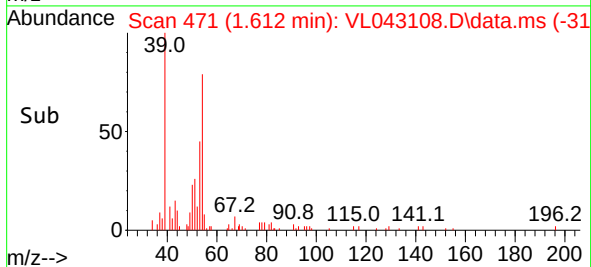
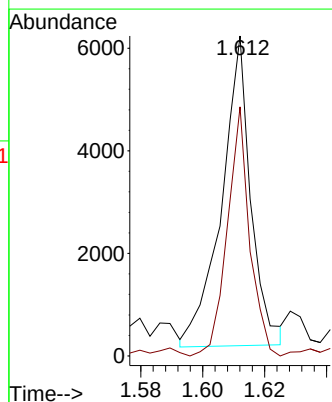
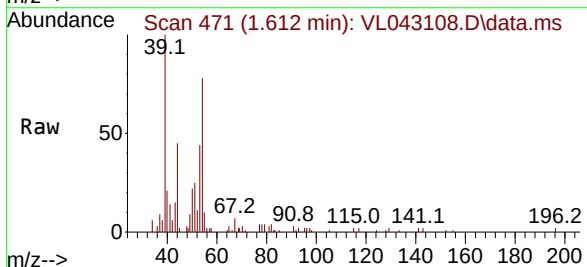
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

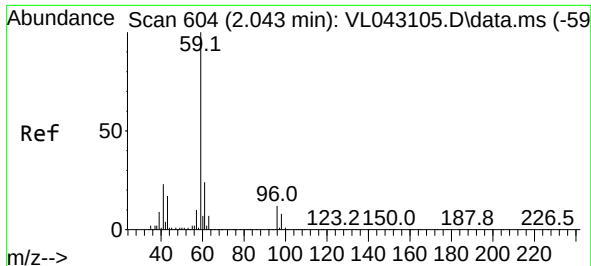
Tgt Ion: 43 Resp: 7931
Ion Ratio Lower Upper
43 100
58 32.0 20.8 31.2#



#16
1,3-Butadiene
Concen: 0.607 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 39 Resp: 3962
Ion Ratio Lower Upper
39 100
54 66.1 59.0 88.4





#17

tert-Butyl alcohol

Concen: 0.543 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

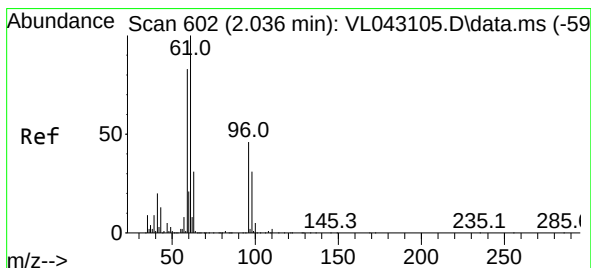
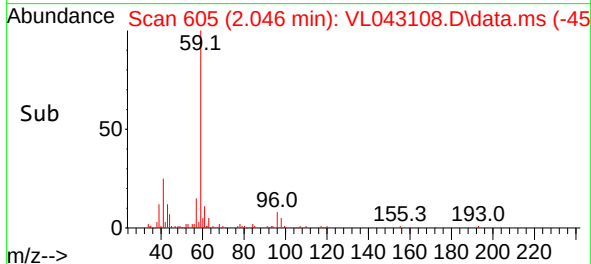
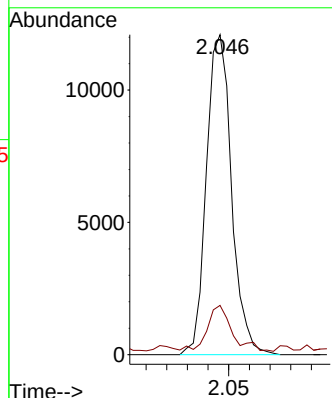
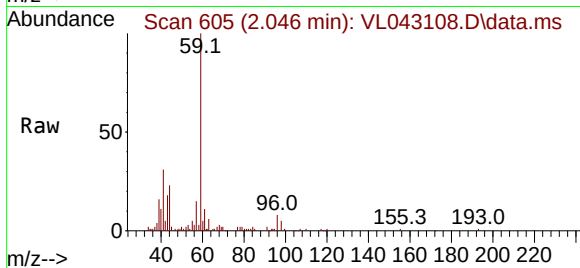
VSTDIC0.5

Tgt Ion: 59 Resp: 10213

Ion Ratio Lower Upper

59 100

57 14.8 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.531 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

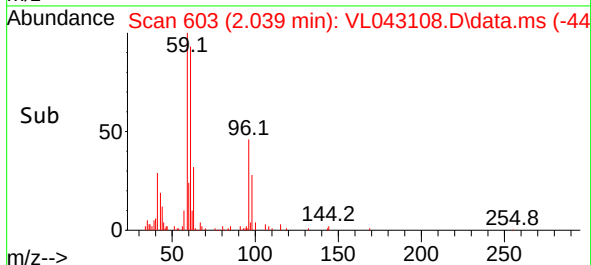
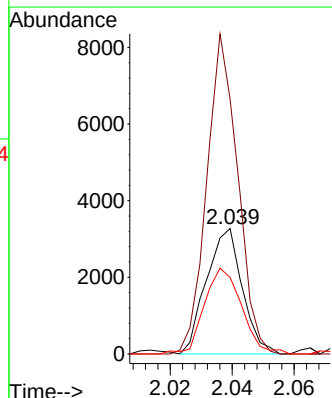
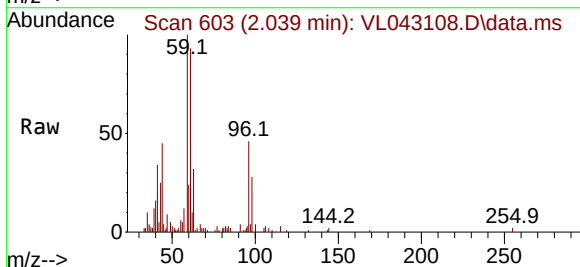
Tgt Ion: 96 Resp: 2636

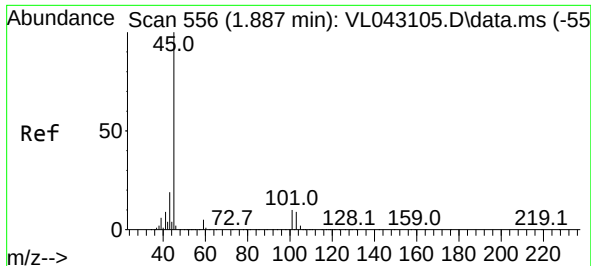
Ion Ratio Lower Upper

96 100

61 203.1 173.4 260.0

98 59.2 53.2 79.8

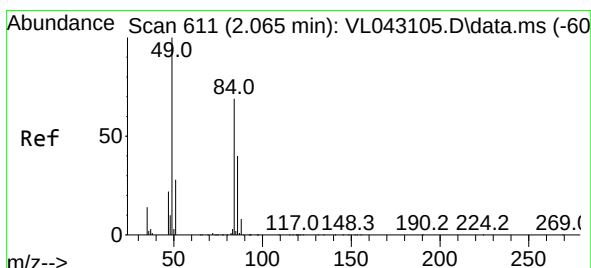
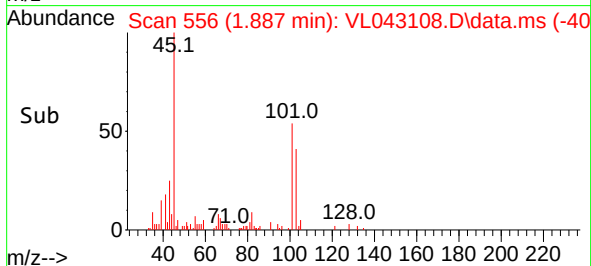
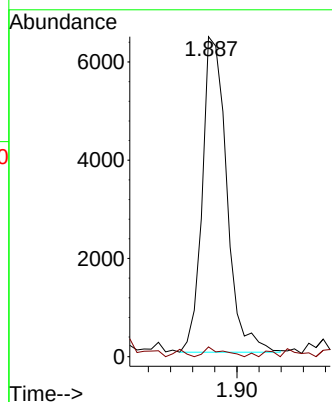
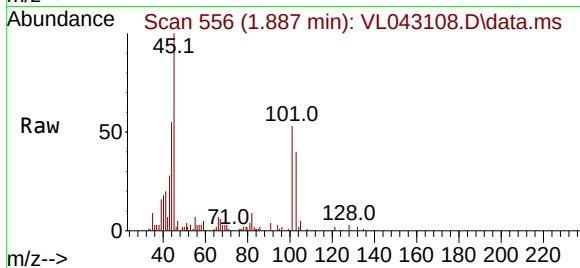




#19
Isopropyl Alcohol
Concen: 0.578 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

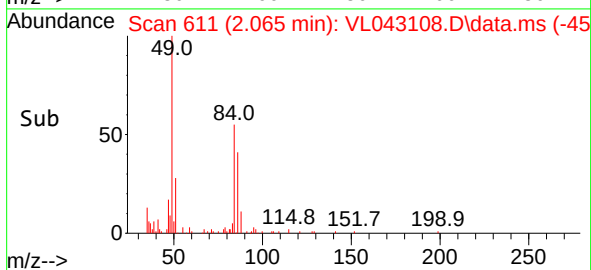
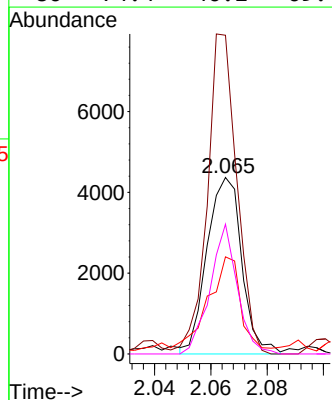
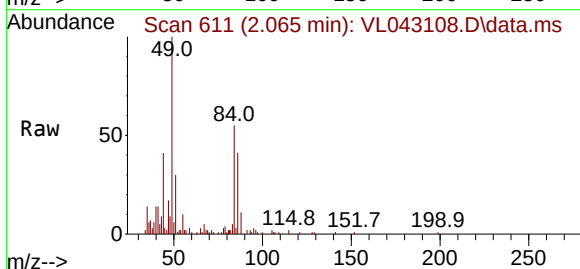
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

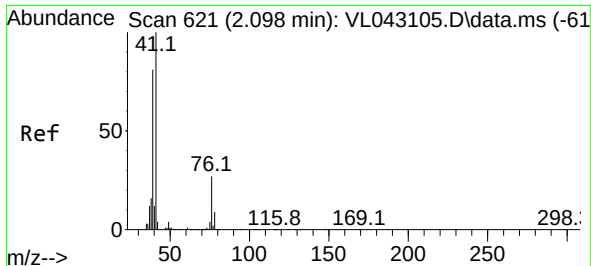
Tgt Ion: 45 Resp: 4932
Ion Ratio Lower Upper
45 100
58 4.1 31.3 46.9#



#20
Methylene Chloride
Concen: 0.693 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 84 Resp: 3750
Ion Ratio Lower Upper
84 100
49 182.8 116.6 175.0#
51 51.9 34.8 52.2
86 74.4 46.2 69.4#

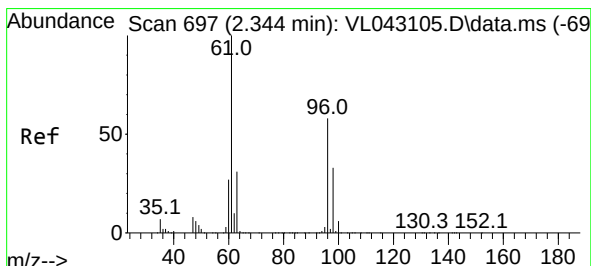
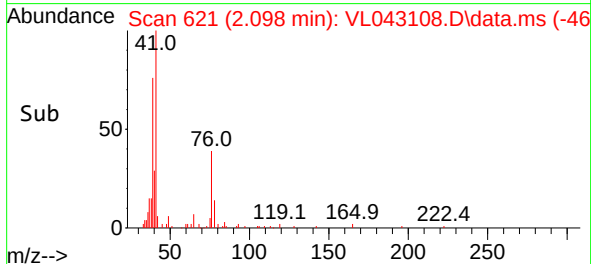
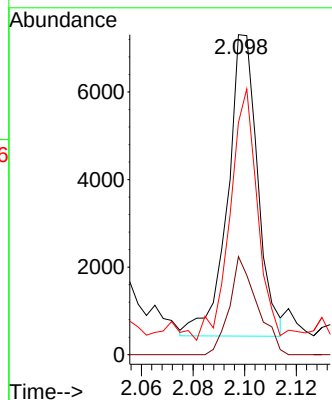
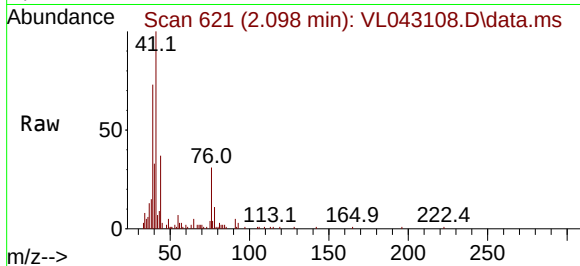




#21
 Allyl Chloride
 Concen: 0.551 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

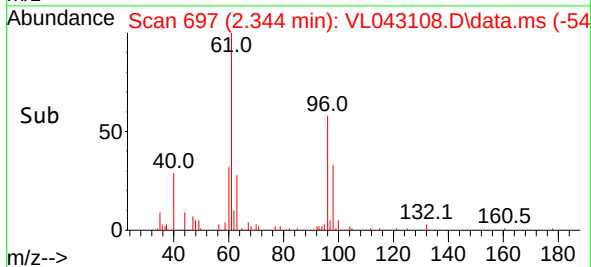
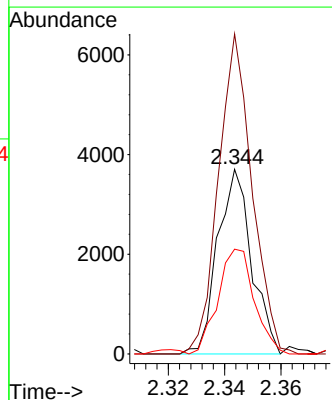
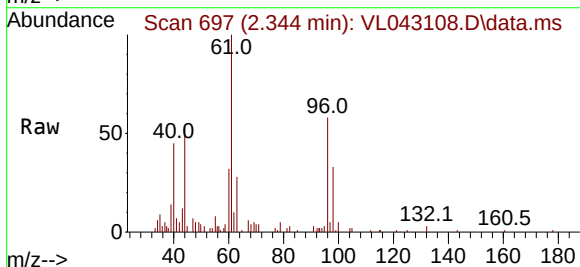
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

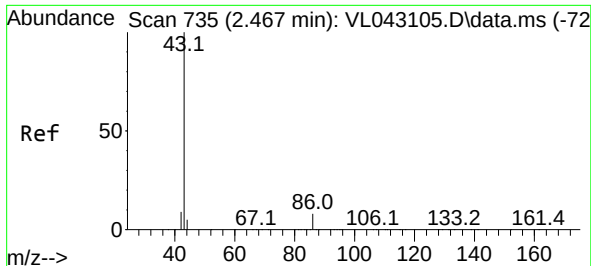
Tgt Ion: 41 Resp: 5575
 Ion Ratio Lower Upper
 41 100
 76 30.0 21.5 32.3
 39 75.1 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 0.522 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 3093
 Ion Ratio Lower Upper
 96 100
 61 173.3 137.0 205.6
 98 55.0 45.5 68.3

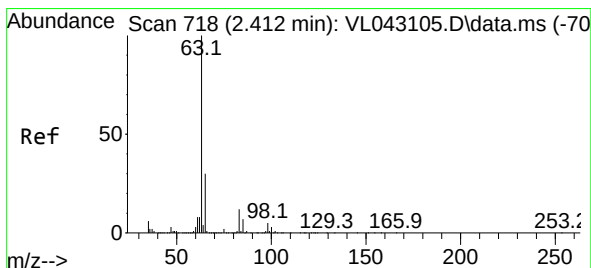
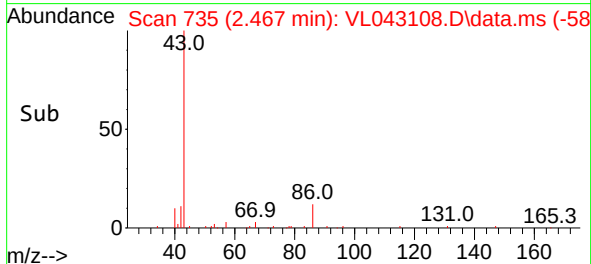
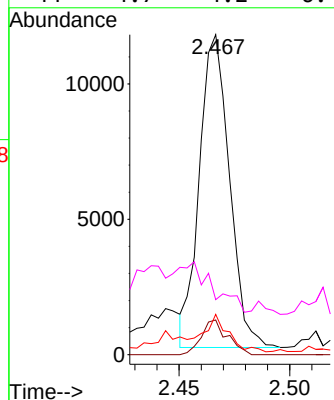
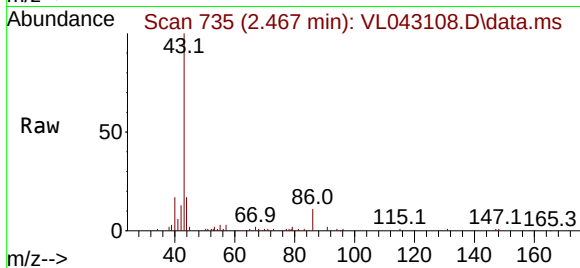




#23
 Vinyl Acetate
 Concen: 0.544 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

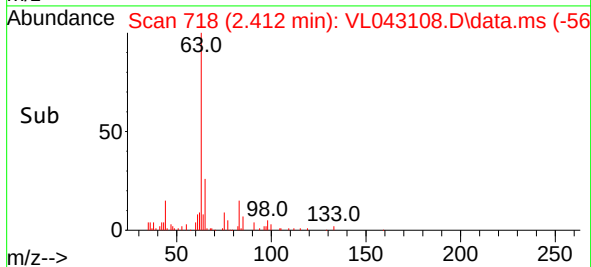
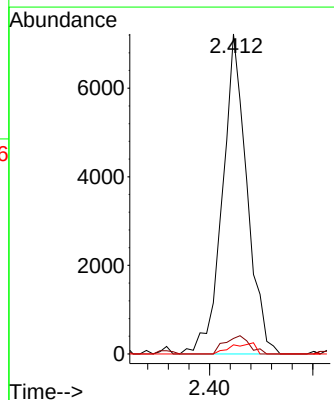
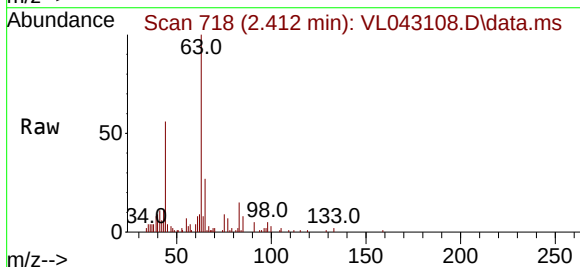
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

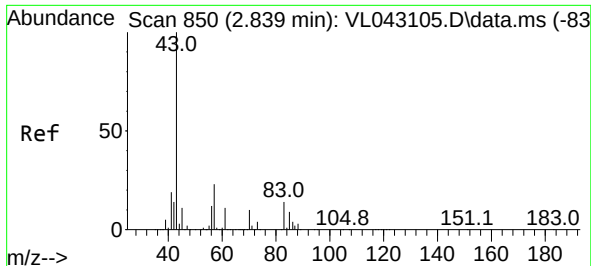
Tgt Ion:	43	Resp:	10914
Ion	Ratio	Lower	Upper
43	100		
86	11.1	6.2	9.2#
42	9.0	7.6	11.4
44	4.7	4.2	6.4



#24
 1,1-Dichloroethane
 Concen: 0.519 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion:	63	Resp:	5942
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.6	7.8
100	2.8	1.5	4.4

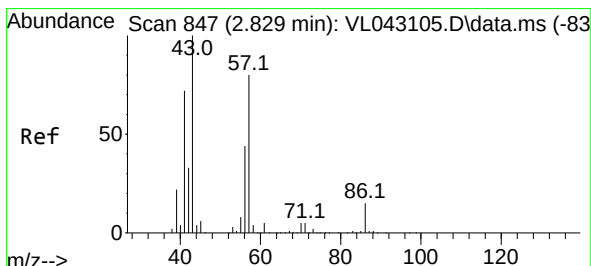
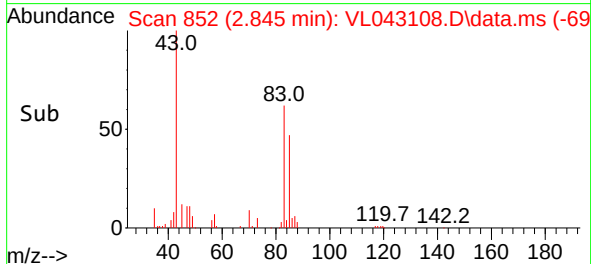
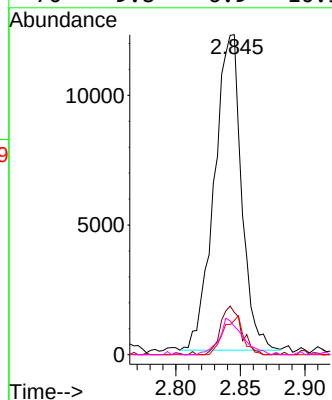
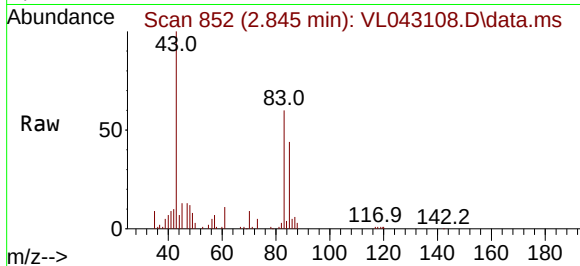




#25
Ethyl Acetate
Concen: 0.527 ppbv
RT: 2.845 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

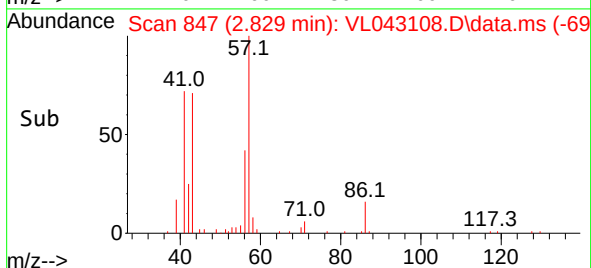
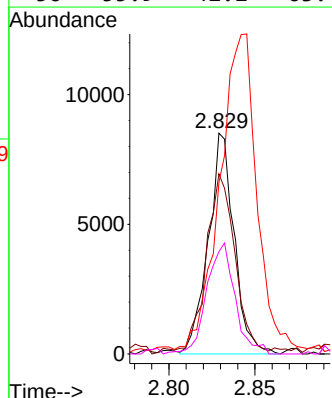
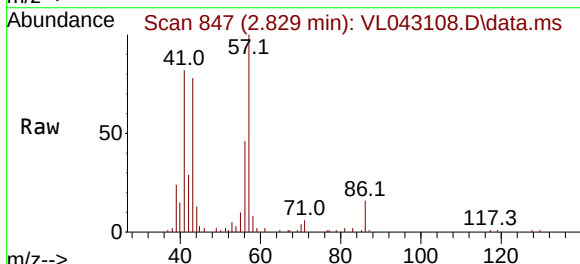
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

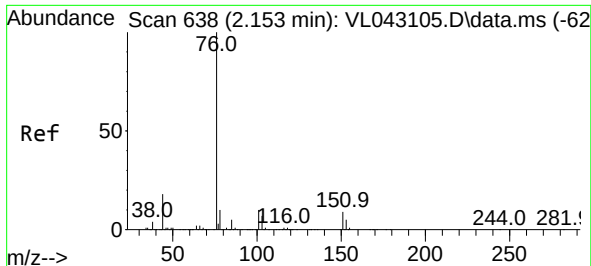
Tgt Ion: 43	Resp:	17918
Ion	Ratio	Lower Upper
43	100	
45	12.3	7.8 11.8#
61	8.8	7.0 10.6
70	9.8	6.9 10.3



#26
Hexane
Concen: 0.569 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57	Resp:	8908
Ion	Ratio	Lower Upper
57	100	
41	90.3	71.4 107.0
43	211.8	178.5 267.7
56	55.9	42.2 63.4

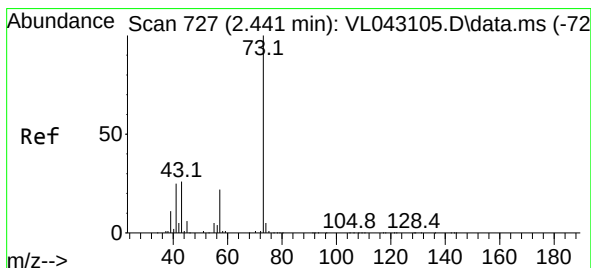
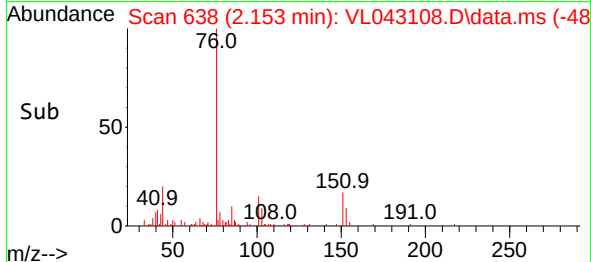
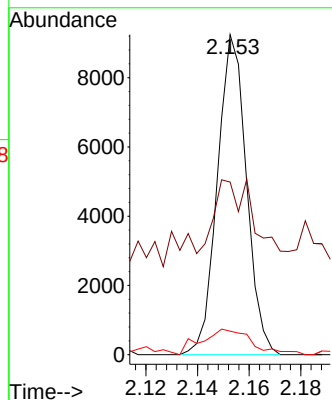
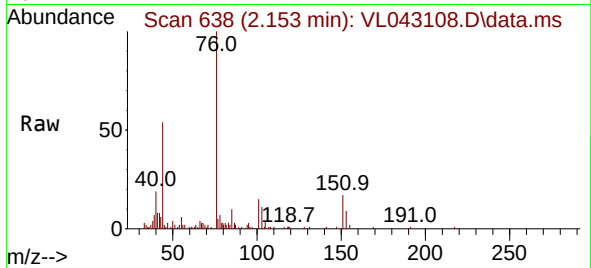




#27
Carbon Disulfide
Concen: 0.504 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

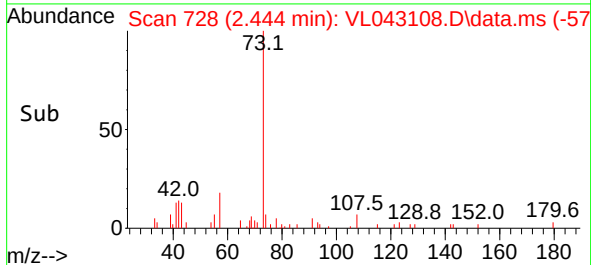
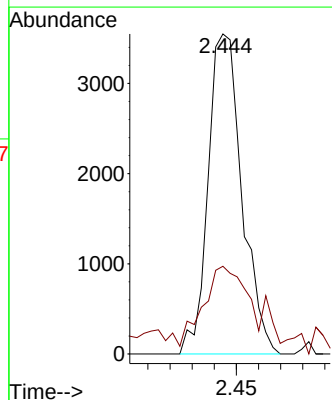
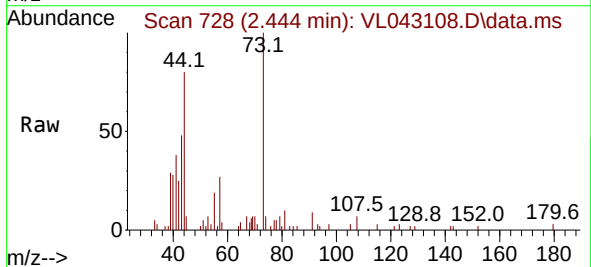
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

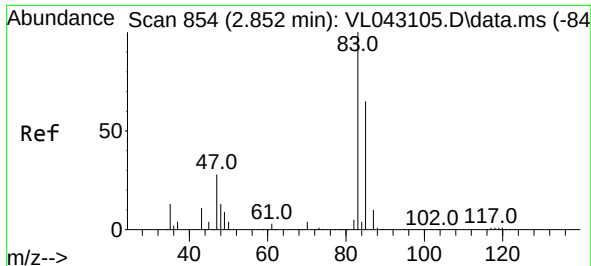
Tgt Ion: 76 Resp: 7230
Ion Ratio Lower Upper
76 100
44 120.9 16.7 25.1#
78 13.9 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 0.529 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 73 Resp: 3770
Ion Ratio Lower Upper
73 100
57 52.7 20.5 30.7#





#29

Chloroform

Concen: 0.546 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

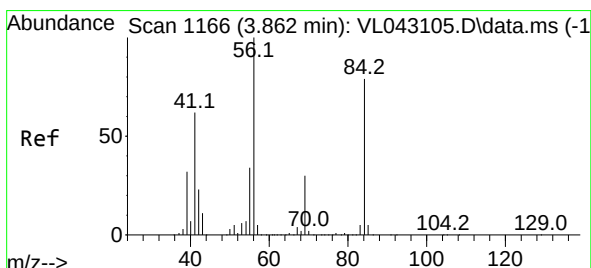
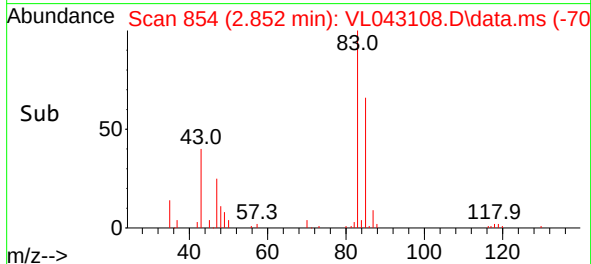
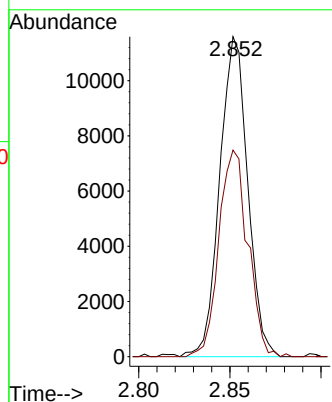
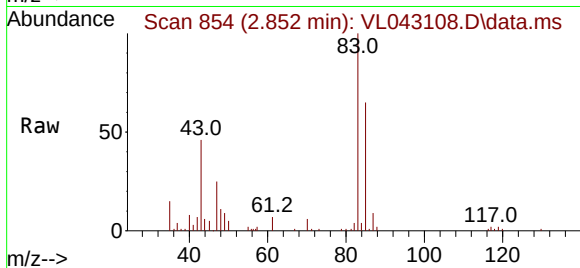
VSTDIC0.5

Tgt Ion: 83 Resp: 12384

Ion Ratio Lower Upper

83 100

85 64.5 51.8 77.6



#30

Cyclohexane

Concen: 0.511 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

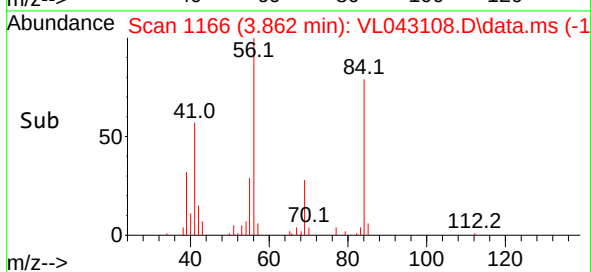
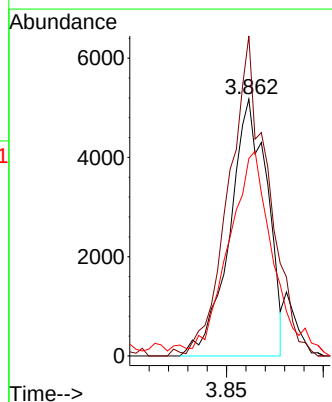
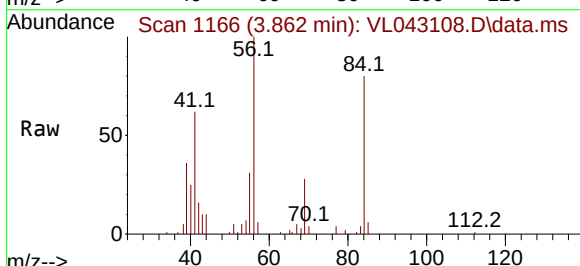
Tgt Ion: 84 Resp: 6978

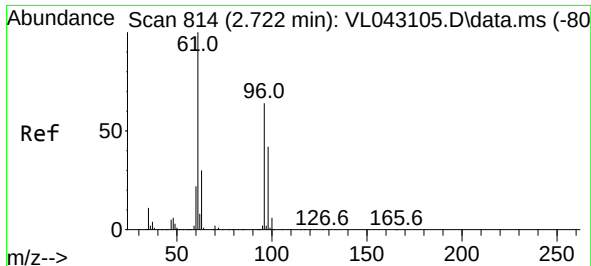
Ion Ratio Lower Upper

84 100

56 131.8 100.9 151.3

41 99.7 63.8 95.6#

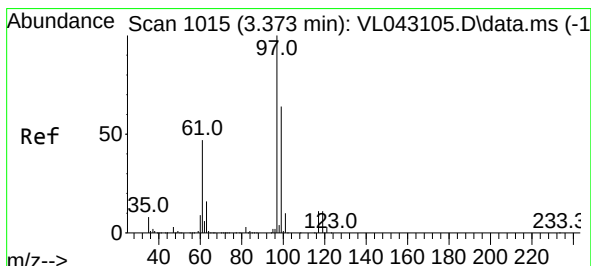
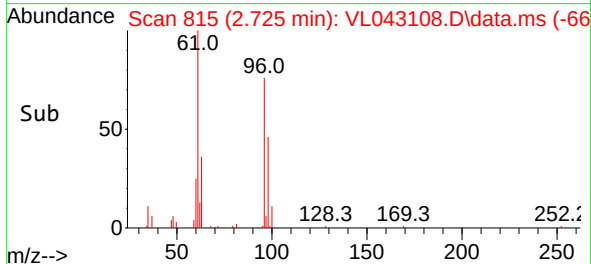
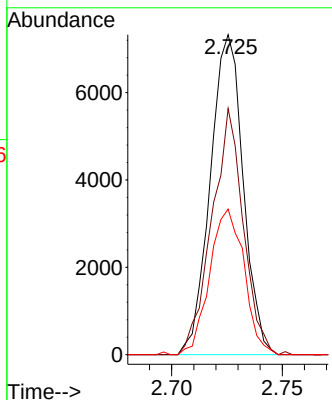
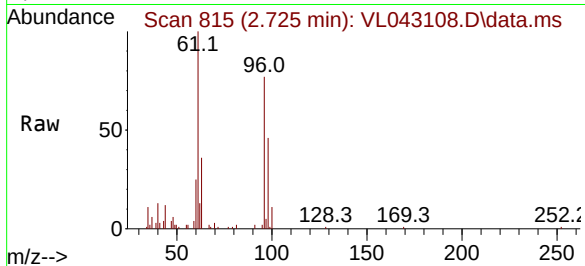




#31
 cis-1,2-Dichloroethene
 Concen: 0.507 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

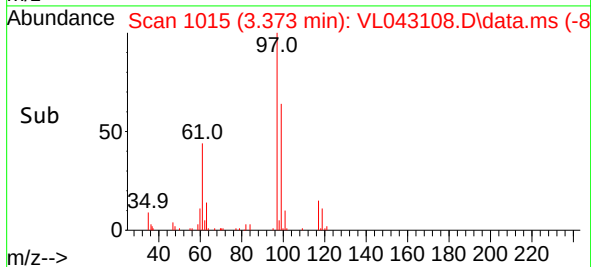
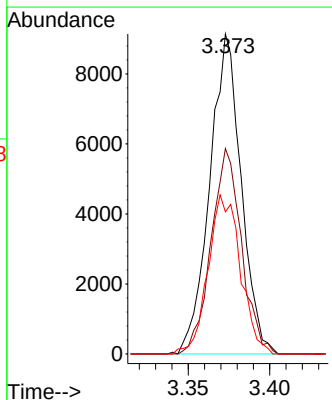
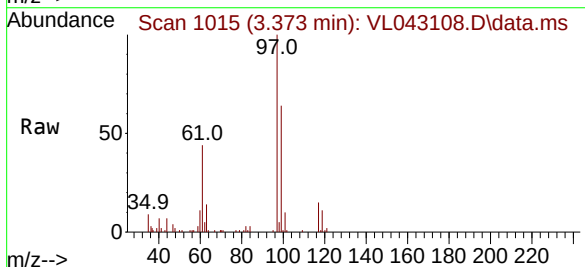
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

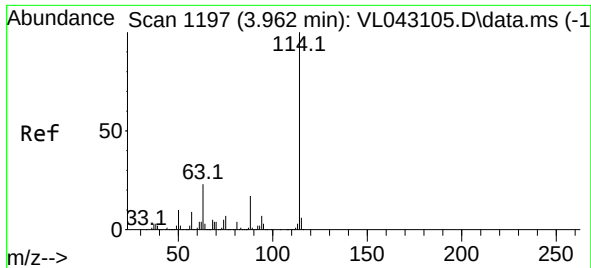
Tgt Ion: 61 Resp: 7576
 Ion Ratio Lower Upper
 61 100
 96 76.9 51.0 76.6#
 98 45.5 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 0.518 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 97 Resp: 12234
 Ion Ratio Lower Upper
 97 100
 99 62.0 51.3 76.9
 61 51.2 38.4 57.6

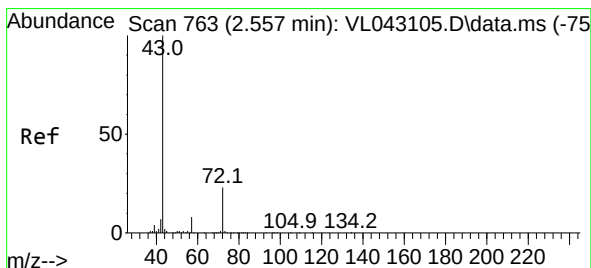
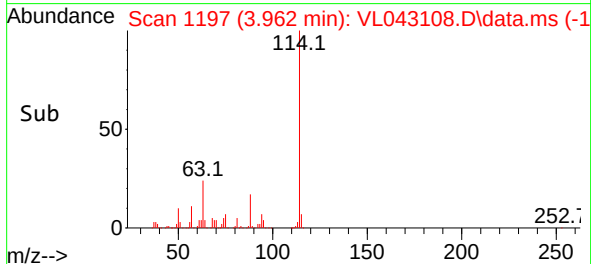
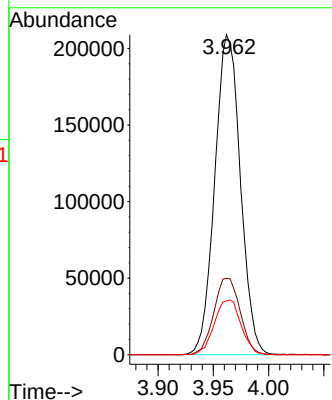
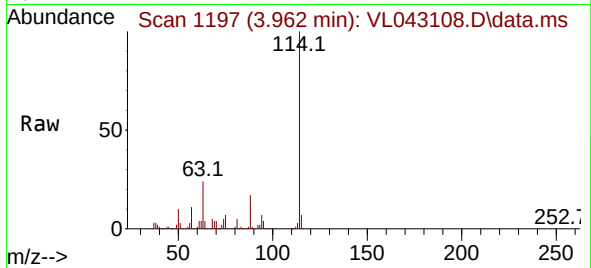




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

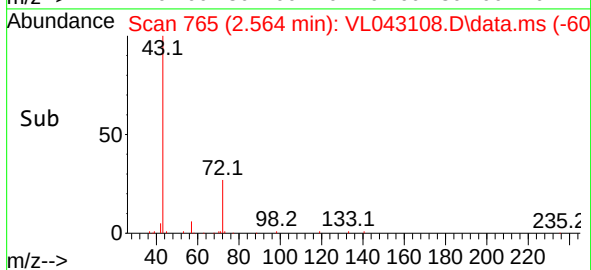
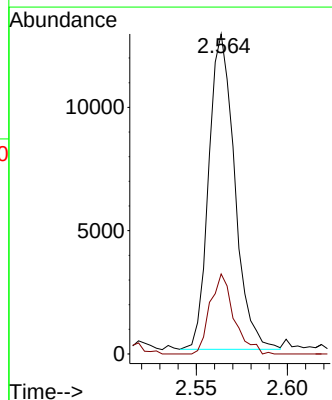
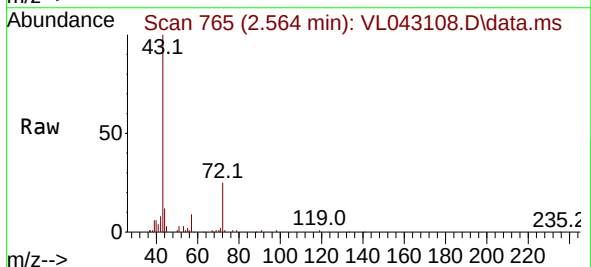
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

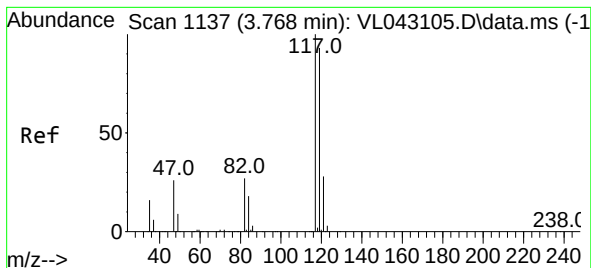
Tgt Ion:114 Resp: 336188
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.3 28.9
 88 17.9 13.9 20.9



#34
 2-Butanone
 Concen: 0.557 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.006 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 12659
 Ion Ratio Lower Upper
 43 100
 72 23.4 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.494 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

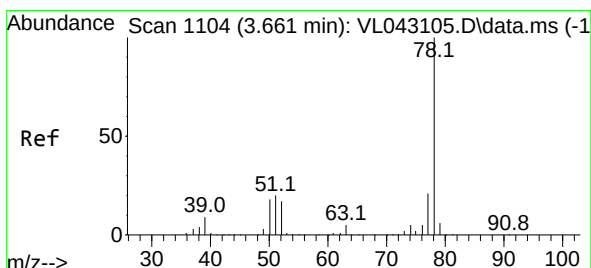
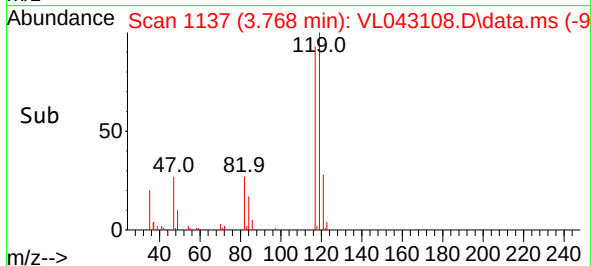
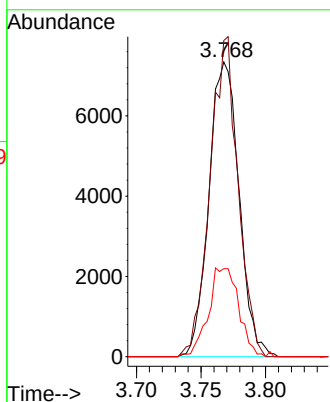
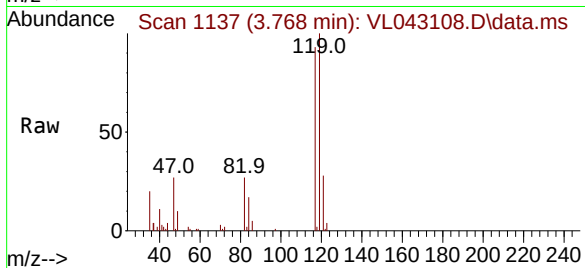
Tgt Ion:117 Resp: 11931

Ion Ratio Lower Upper

117 100

119 107.3 74.1 111.1

121 29.9 22.2 33.2



#36

Benzene

Concen: 0.517 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

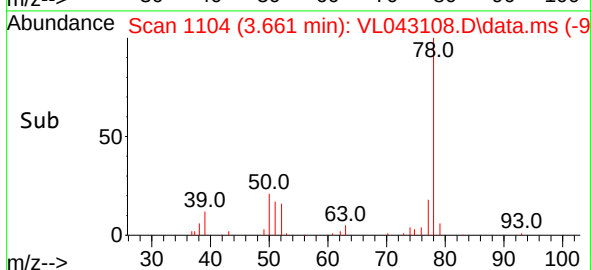
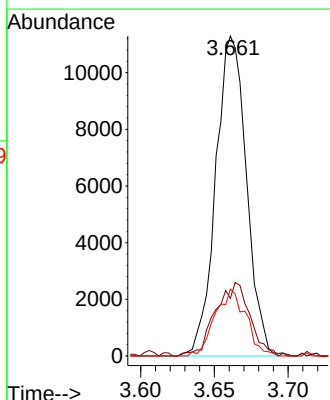
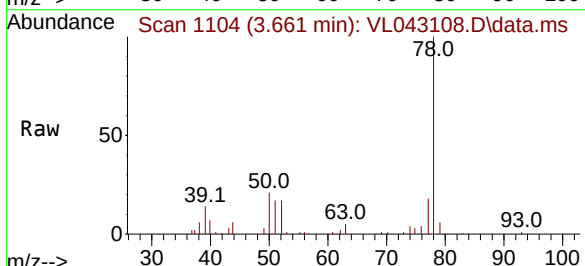
Tgt Ion: 78 Resp: 16376

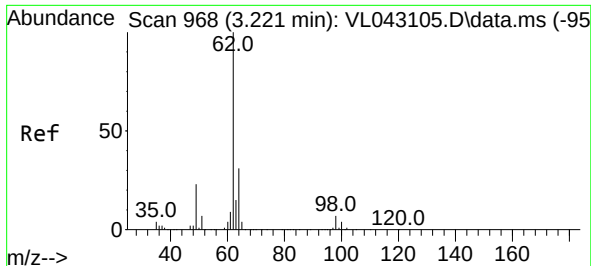
Ion Ratio Lower Upper

78 100

77 18.0 17.0 25.6

50 20.9 14.6 22.0

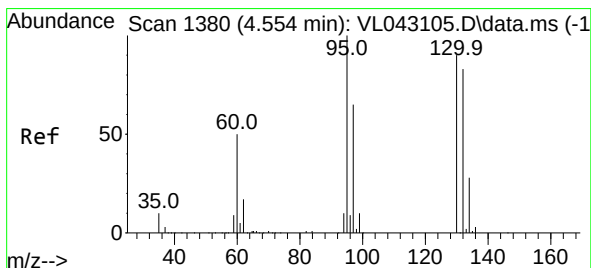
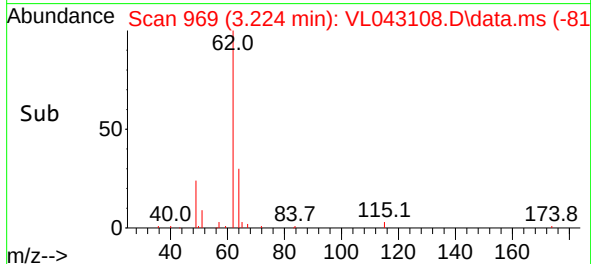
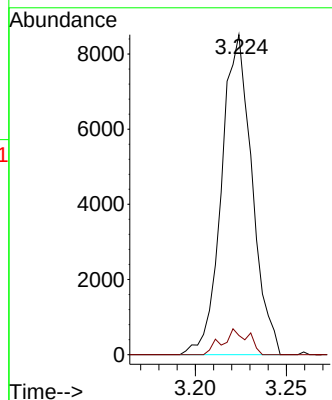
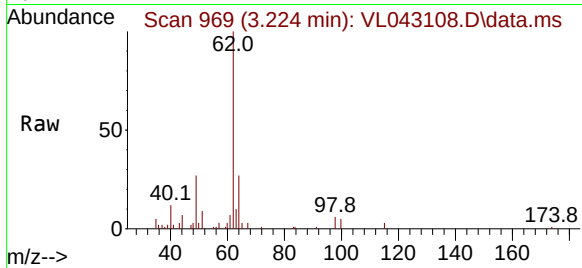




#37
1,2-Dichloroethane
Concen: 0.543 ppbv
RT: 3.224 min Scan# 907
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

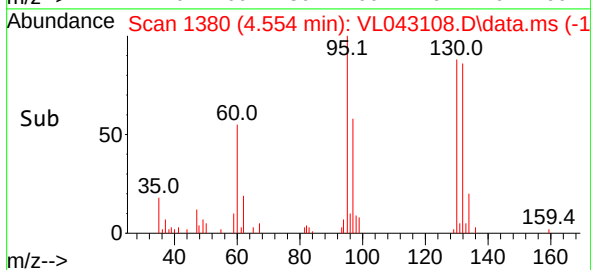
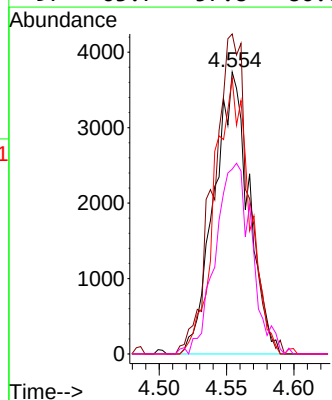
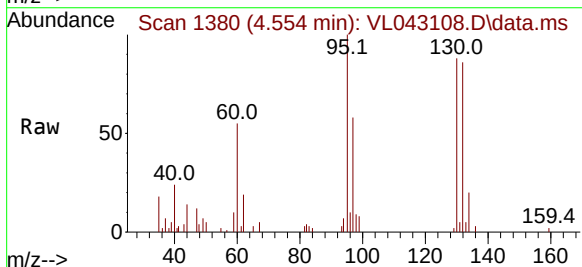
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

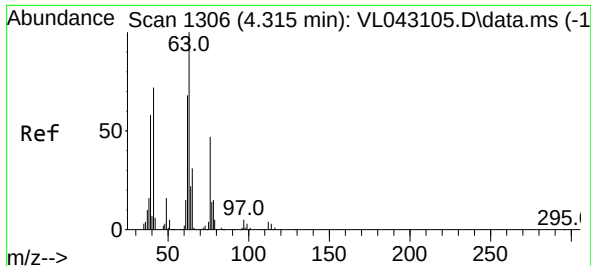
Tgt Ion: 62 Resp: 9907
Ion Ratio Lower Upper
62 100
98 6.8 5.8 8.6



#38
Trichloroethene
Concen: 0.511 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 130 Resp: 6745
Ion Ratio Lower Upper
130 100
95 110.7 88.6 133.0
132 97.8 73.4 110.0
97 63.7 57.8 86.6





#39

1,2-Dichloropropane

Concen: 0.521 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

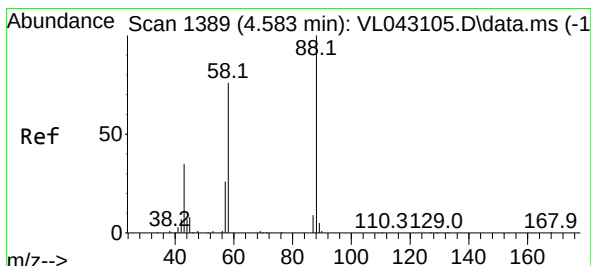
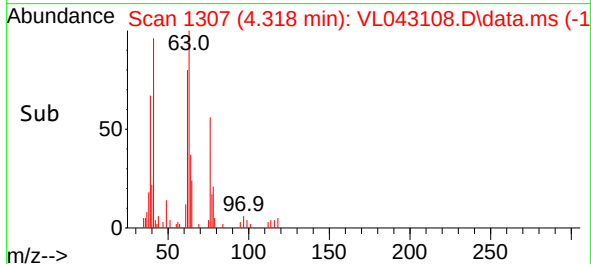
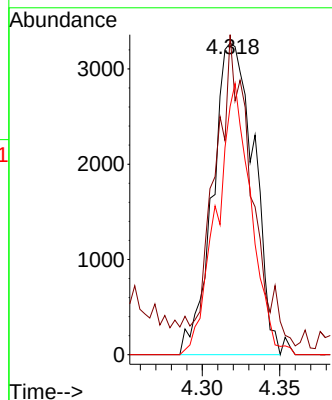
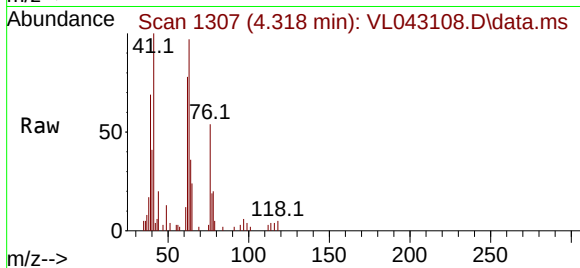
Tgt Ion: 63 Resp: 6032

Ion Ratio Lower Upper

63 100

41 93.9 58.0 87.0#

62 79.6 54.7 82.1



#40

1,4-Dioxane

Concen: 0.252 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.019 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion: 88 Resp: 1303

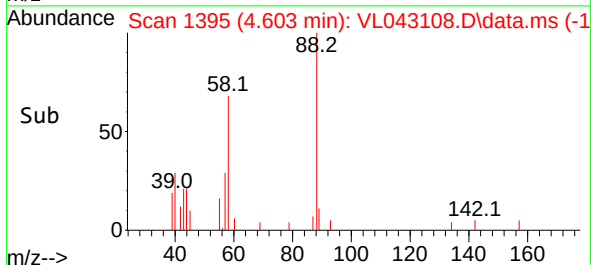
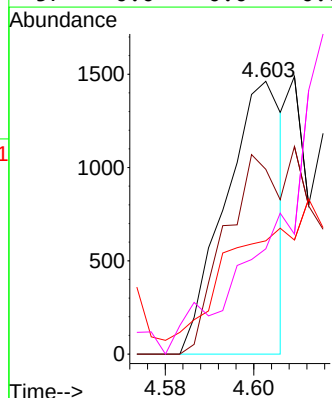
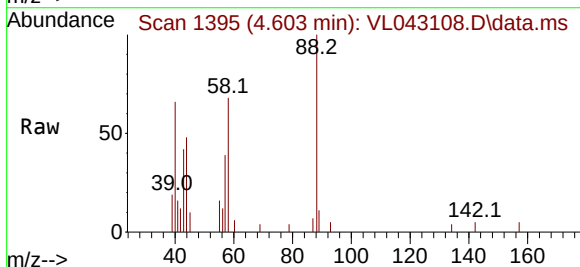
Ion Ratio Lower Upper

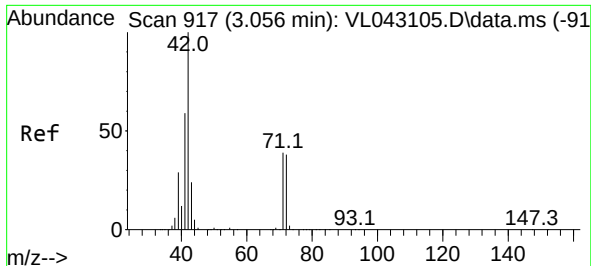
88 100

58 0.0 61.1 91.7#

43 24.5 24.0 36.0

57 0.0 0.0 0.0

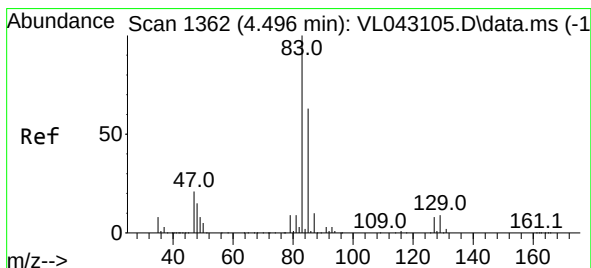
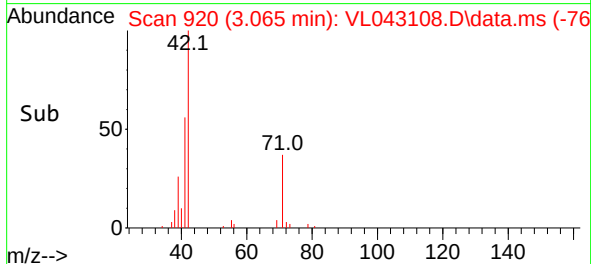
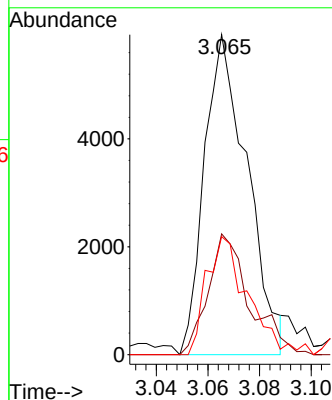
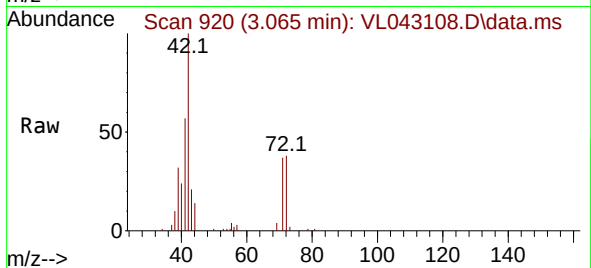




#41
Tetrahydrofuran
Concen: 0.538 ppbv
RT: 3.065 min Scan# 917
Delta R.T. 0.009 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

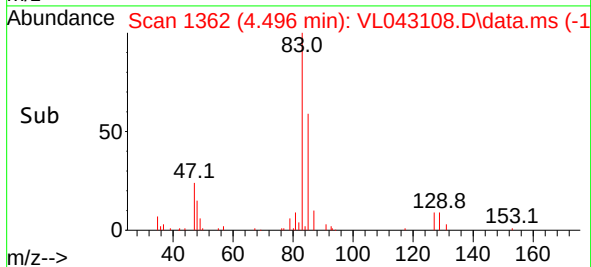
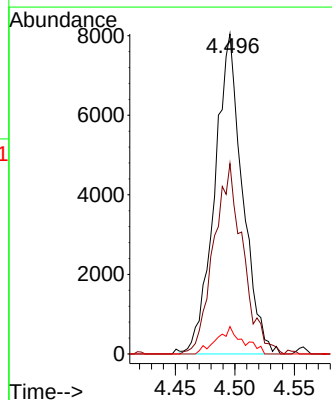
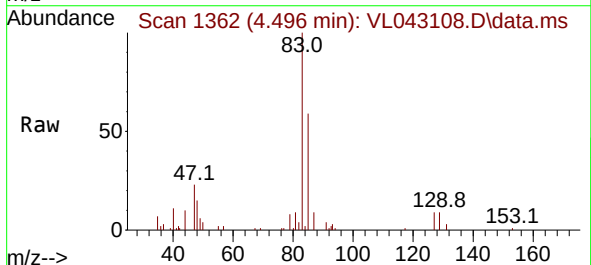
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

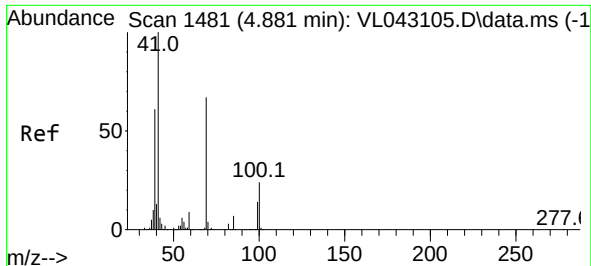
Tgt Ion: 42 Resp: 6831
Ion Ratio Lower Upper
42 100
72 36.6 31.3 46.9
71 37.2 30.4 45.6



#42
Bromodichloromethane
Concen: 0.519 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 83 Resp: 13094
Ion Ratio Lower Upper
83 100
85 59.5 50.6 75.8
127 8.5 6.3 9.5





#43

Methyl Methacrylate

Concen: 0.303 ppbv

RT: 4.888 min Scan# 1481

Delta R.T. 0.006 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

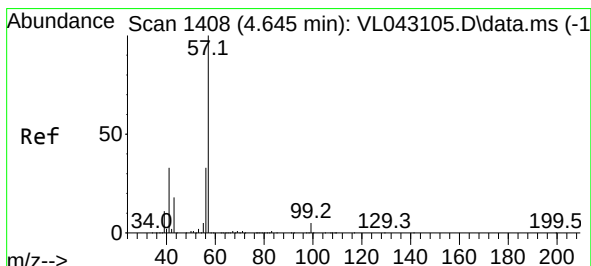
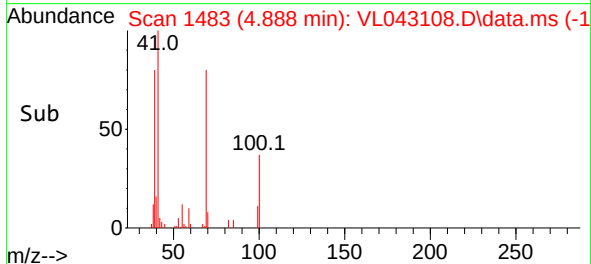
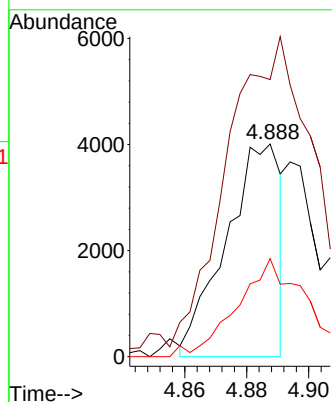
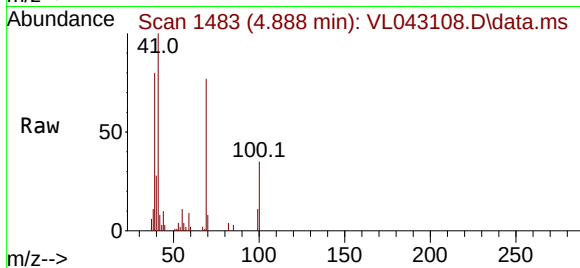
Tgt Ion: 69 Resp: 4902

Ion Ratio Lower Upper

69 100

41 0.0 120.5 180.7#

100 61.1 29.0 43.4#



#44

2,2,4-Trimethylpentane

Concen: 0.516 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

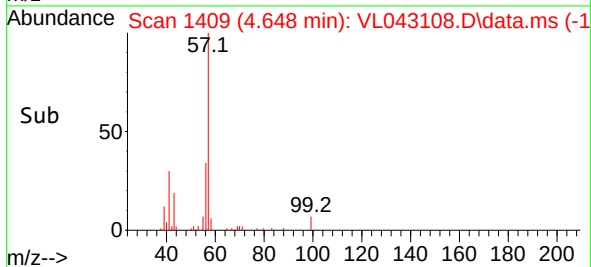
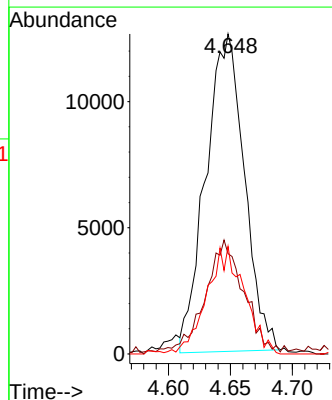
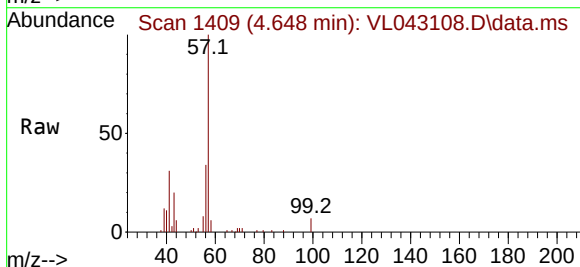
Tgt Ion: 57 Resp: 27304

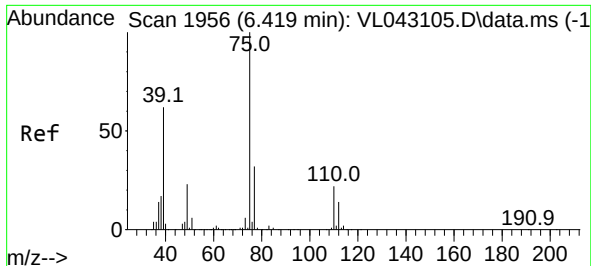
Ion Ratio Lower Upper

57 100

41 34.2 26.3 39.5

56 33.3 25.9 38.9

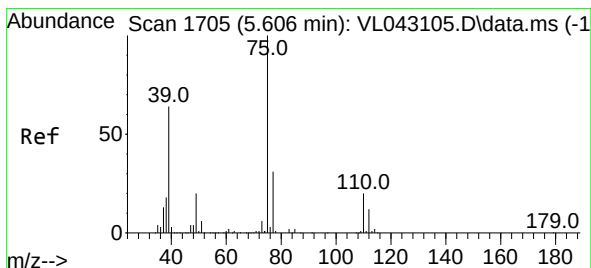
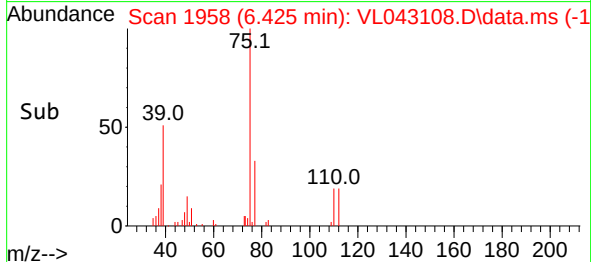
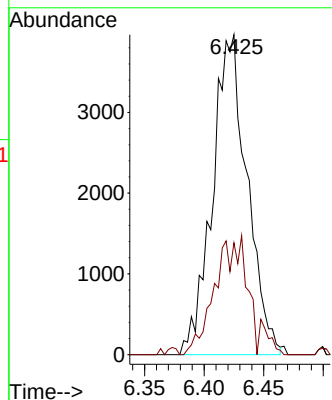
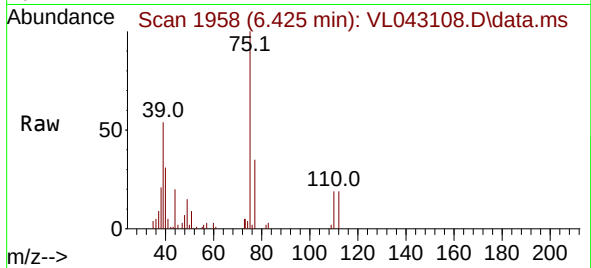




#45
 t-1,3-Dichloropropene
 Concen: 0.498 ppbv
 RT: 6.425 min Scan# 1956
 Delta R.T. 0.006 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

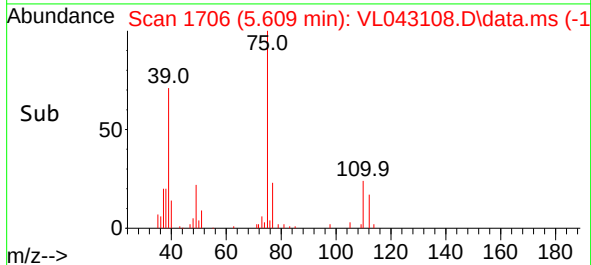
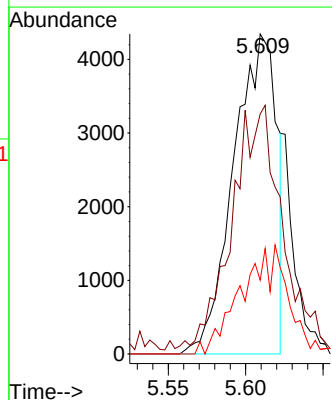
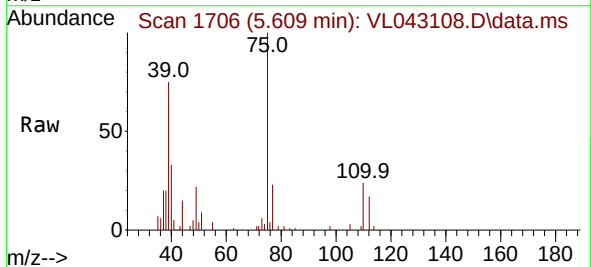
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

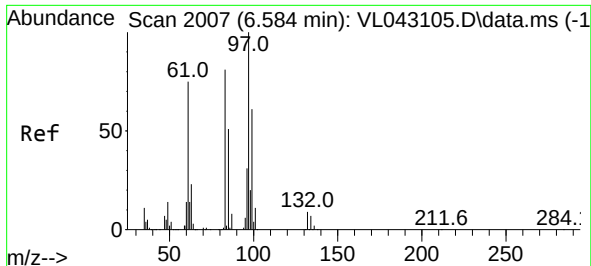
Tgt Ion: 75 Resp: 8030
 Ion Ratio Lower Upper
 75 100
 77 34.9 25.4 38.2



#46
 cis-1,3-Dichloropropene
 Concen: 0.435 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 75 Resp: 8375
 Ion Ratio Lower Upper
 75 100
 39 72.5 51.0 76.6
 77 23.1 25.0 37.4#





#47

1,1,2-Trichloroethane

Concen: 0.560 ppbv

RT: 6.587 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 6996

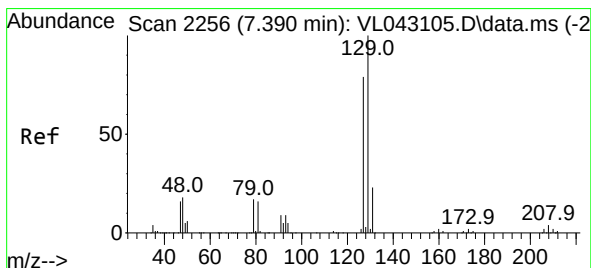
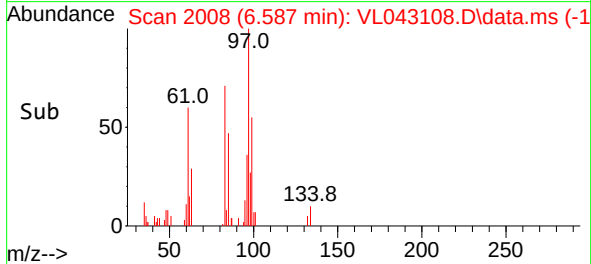
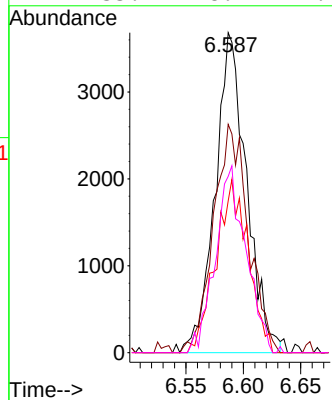
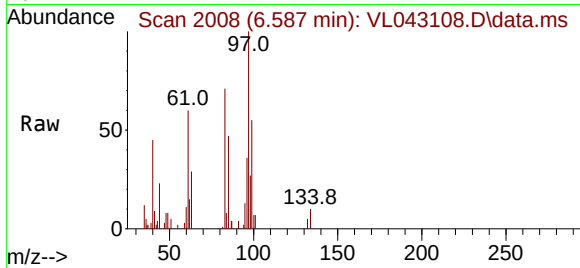
Ion Ratio Lower Upper

97 100

83 71.4 64.6 96.8

85 47.5 40.6 60.8

99 55.1 48.4 72.6



#48

Dibromochloromethane

Concen: 0.498 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043108.D

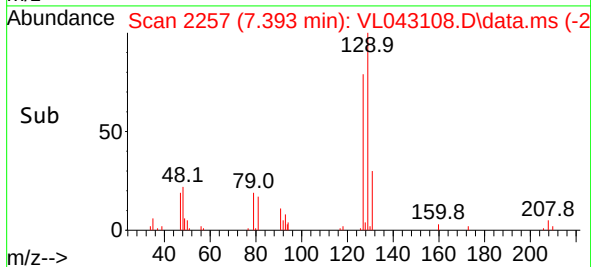
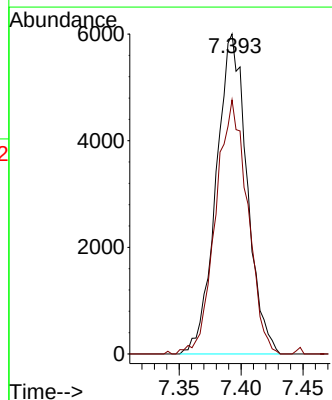
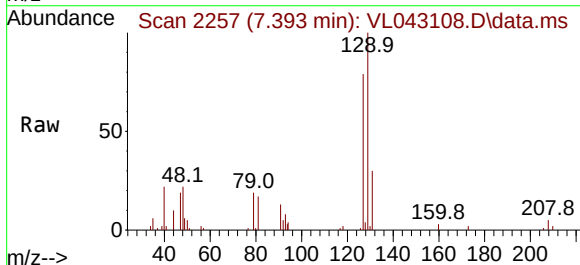
Acq: 14 Oct 2025 12:34

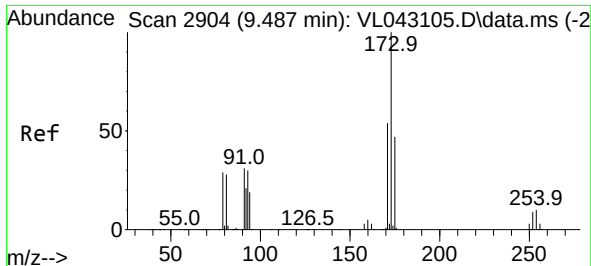
Tgt Ion: 129 Resp: 10413

Ion Ratio Lower Upper

129 100

127 82.2 39.3 117.9





#49

Bromoform

Concen: 0.498 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

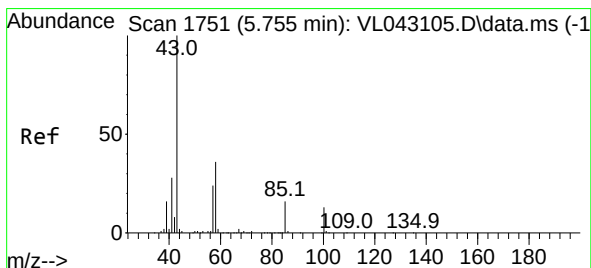
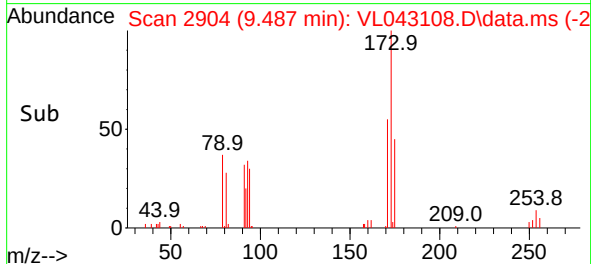
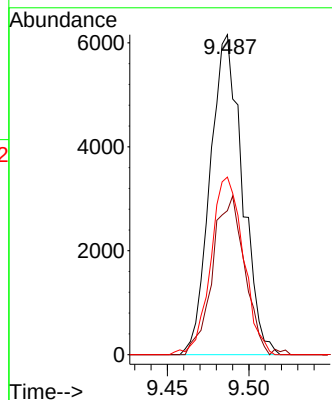
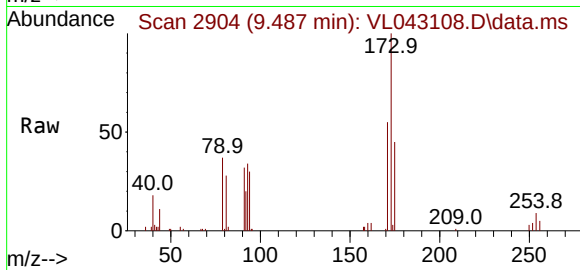
Tgt Ion:173 Resp: 8455

Ion Ratio Lower Upper

173 100

175 49.6 38.8 58.2

171 56.3 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 0.110 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. -0.000 min

Lab File: VL043108.D

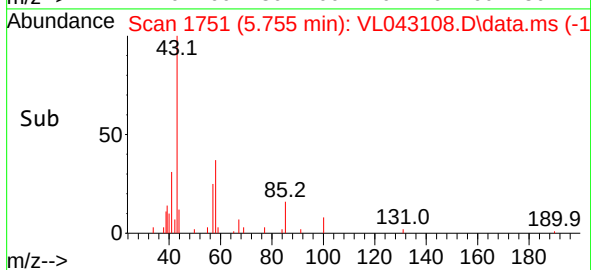
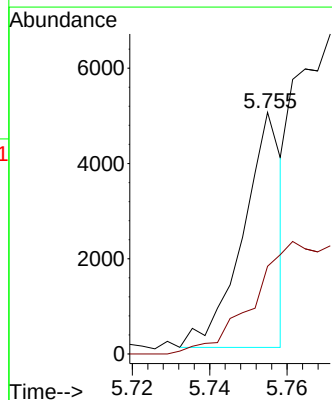
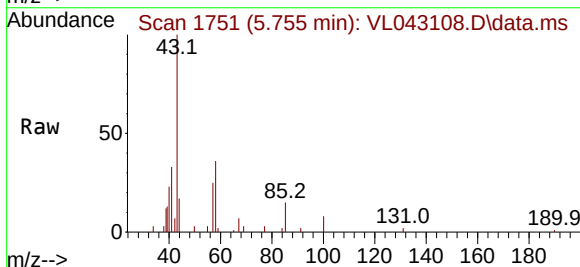
Acq: 14 Oct 2025 12:34

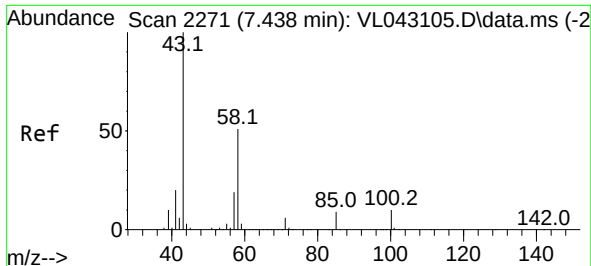
Tgt Ion: 43 Resp: 3434

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#

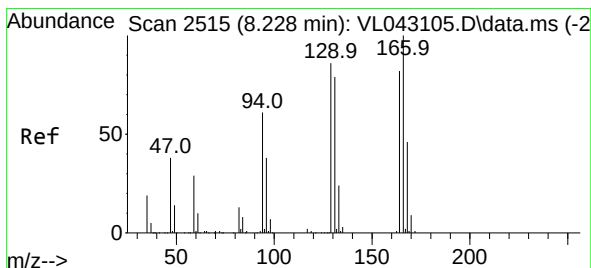
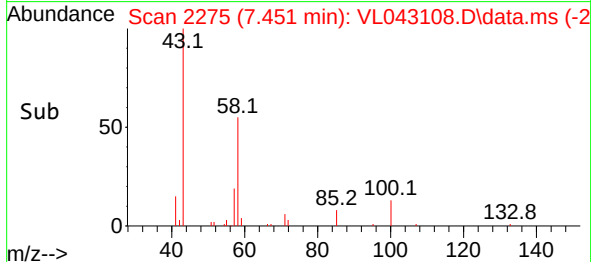
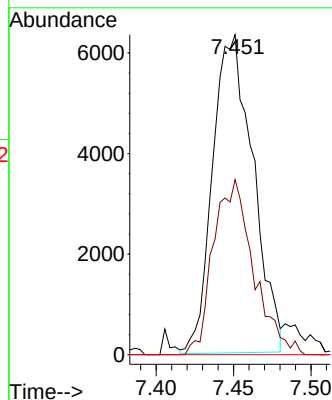
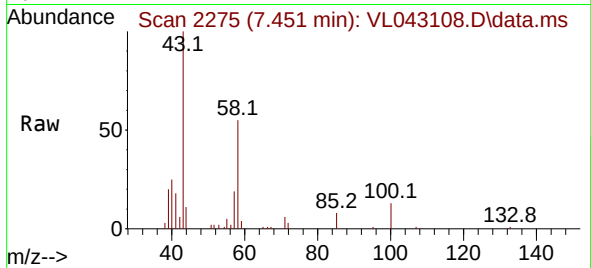




#51
2-Hexanone
Concen: 0.491 ppbv
RT: 7.451 min Scan# 211
Delta R.T. 0.013 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

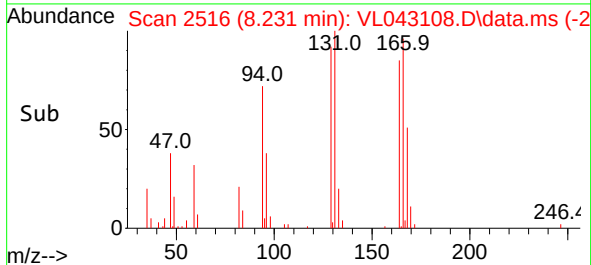
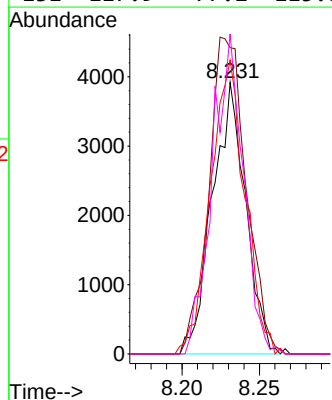
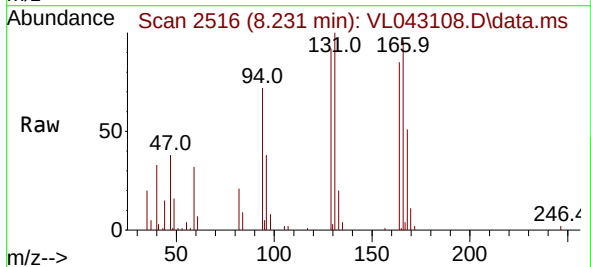
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

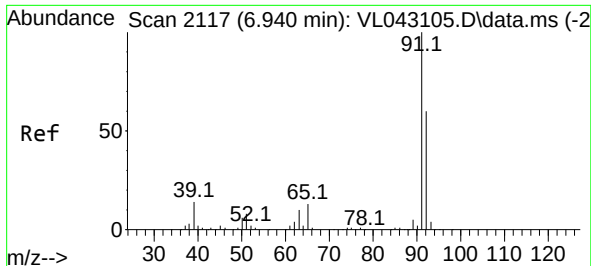
Tgt Ion: 43 Resp: 11485
Ion Ratio Lower Upper
43 100
58 54.7 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.513 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 164 Resp: 5863
Ion Ratio Lower Upper
164 100
166 112.8 97.6 146.4
129 106.1 84.5 126.7
131 117.9 77.2 115.8#





#53

Toluene

Concen: 0.542 ppbv

RT: 6.936 min Scan# 2117

Delta R.T. -0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

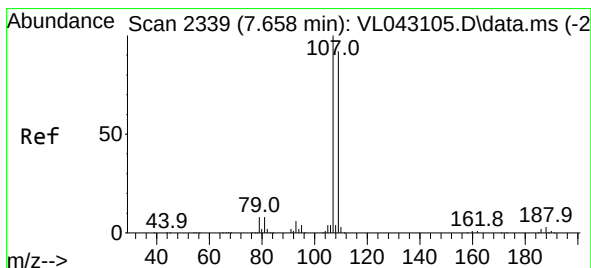
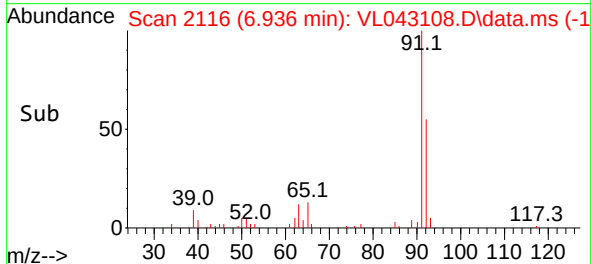
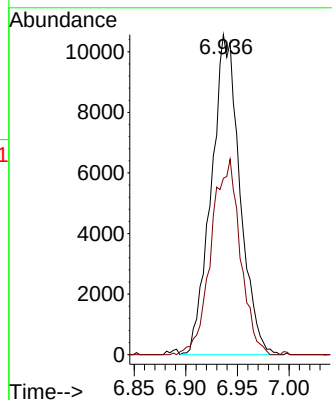
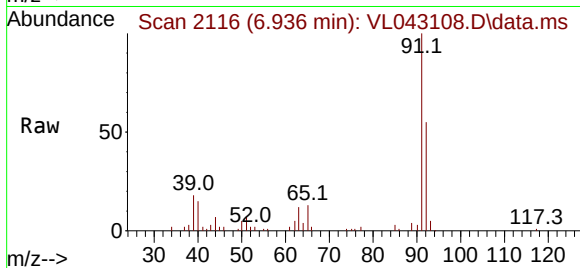
VSTDIC0.5

Tgt Ion: 91 Resp: 20380

Ion Ratio Lower Upper

91 100

92 62.1 48.8 73.2



#54

1,2-Dibromoethane

Concen: 0.486 ppbv

RT: 7.661 min Scan# 2340

Delta R.T. 0.003 min

Lab File: VL043108.D

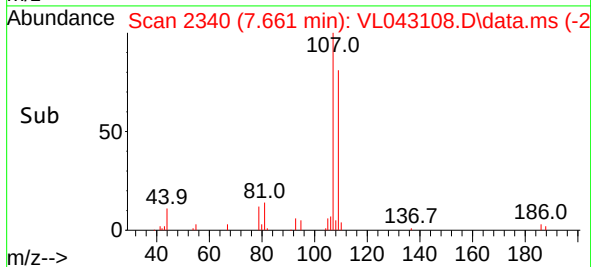
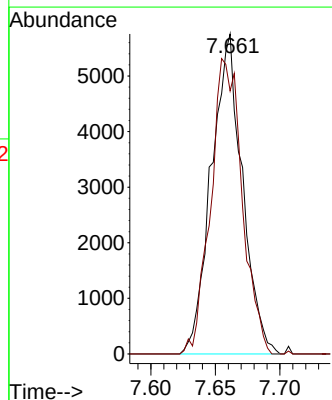
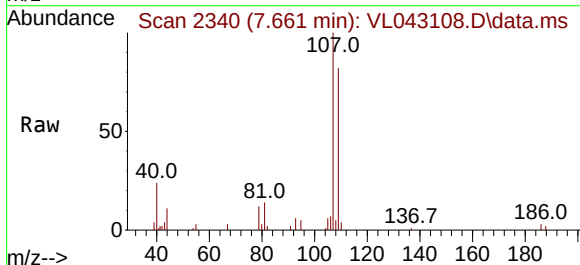
Acq: 14 Oct 2025 12:34

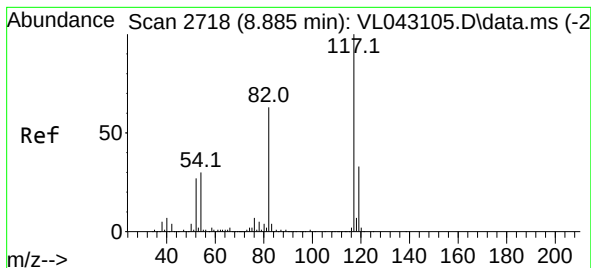
Tgt Ion: 107 Resp: 9586

Ion Ratio Lower Upper

107 100

109 82.2 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2718

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

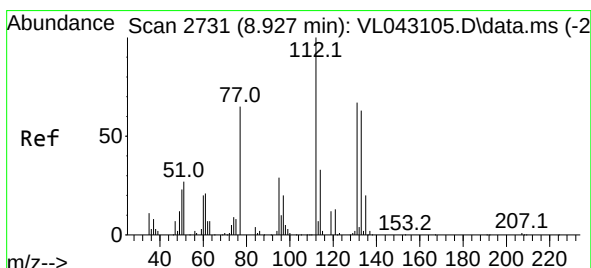
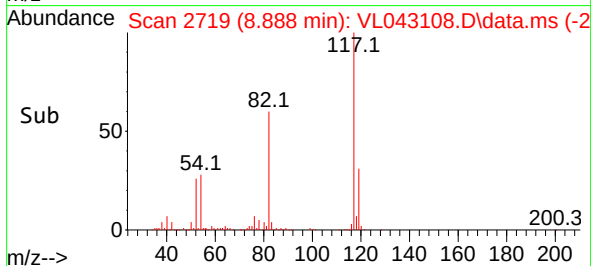
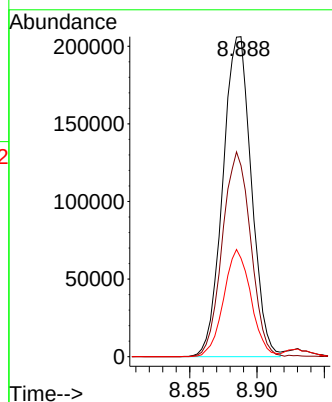
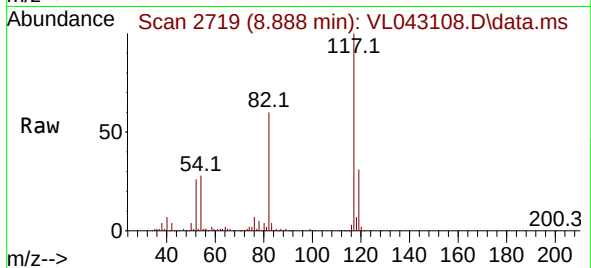
Tgt Ion:117 Resp: 303445

Ion Ratio Lower Upper

117 100

82 63.9 53.8 80.8

119 32.1 25.4 38.0



#56

1,1,1,2-Tetrachloroethane

Concen: 0.525 ppbv

RT: 8.930 min Scan# 2732

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

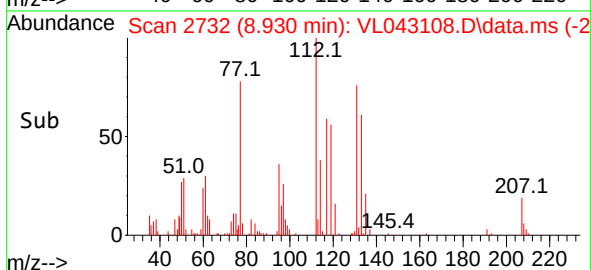
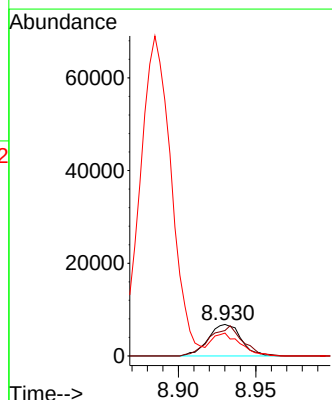
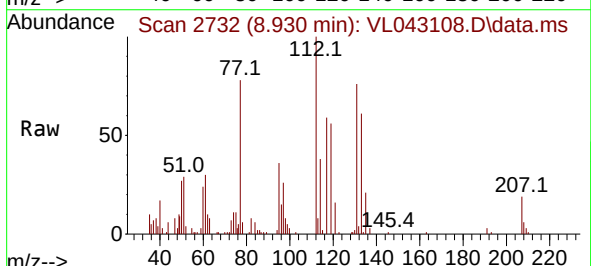
Tgt Ion:131 Resp: 10044

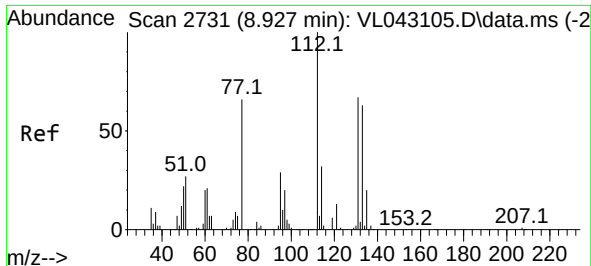
Ion Ratio Lower Upper

131 100

133 94.6 75.7 113.5

119 1032.5 50.6 76.0#

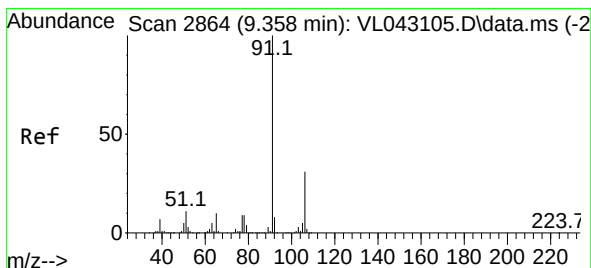
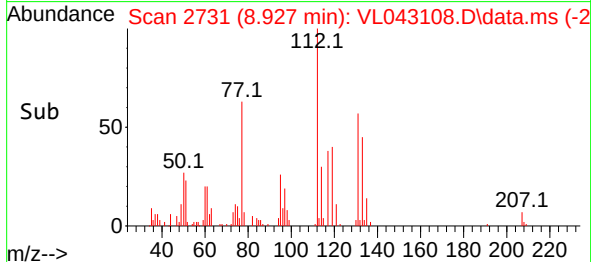
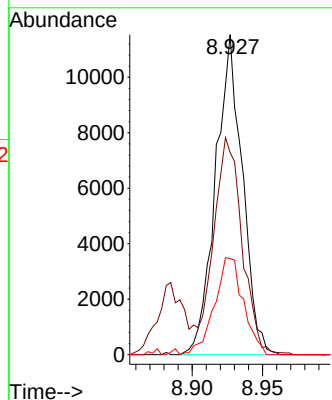
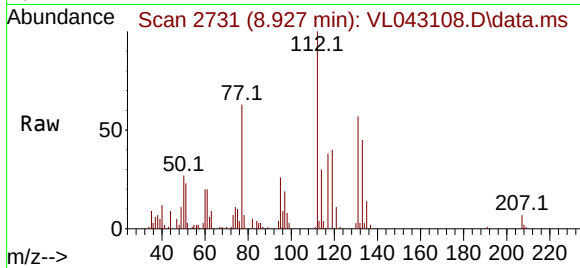




#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

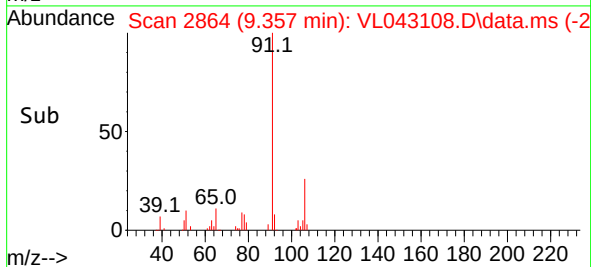
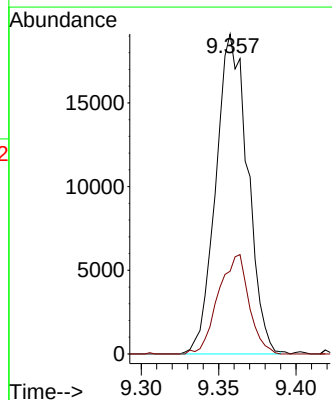
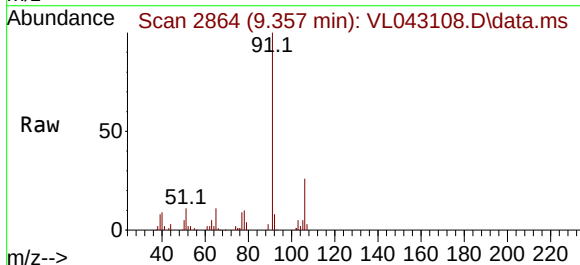
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

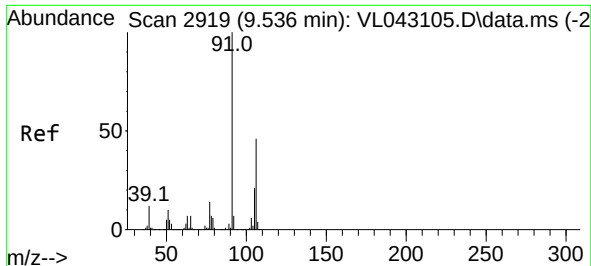
Tgt Ion:112 Resp: 15318
Ion Ratio Lower Upper
112 100
77 62.5 53.3 79.9
114 30.0 29.3 35.8



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 27330
Ion Ratio Lower Upper
91 100
106 25.8 24.8 37.2





#59

m/p-Xylene

Concen: 0.483 ppbv

RT: 9.539 min Scan# 2919

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

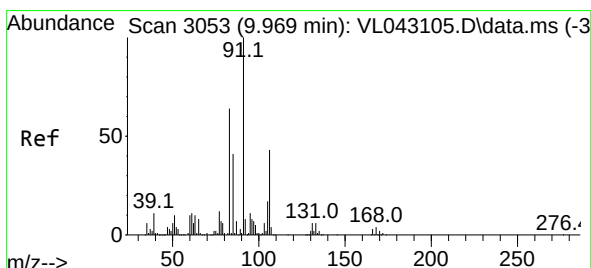
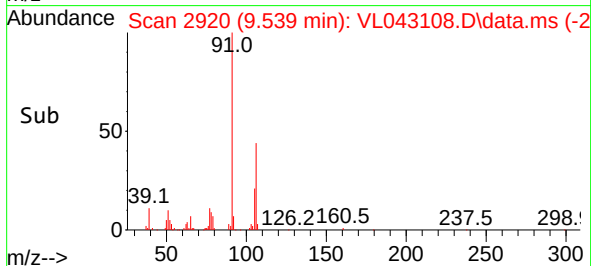
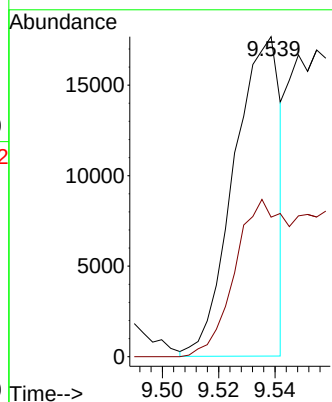
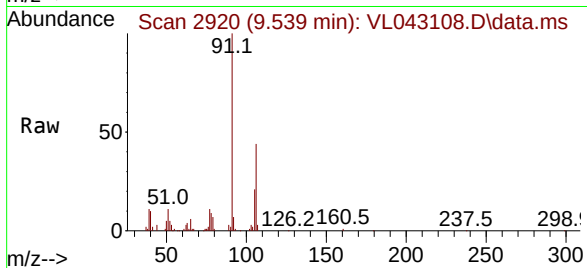
VSTDICC0.5

Tgt Ion: 91 Resp: 20079

Ion Ratio Lower Upper

91 100

106 104.4 38.0 57.0#



#60

o-Xylene

Concen: 0.530 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043108.D

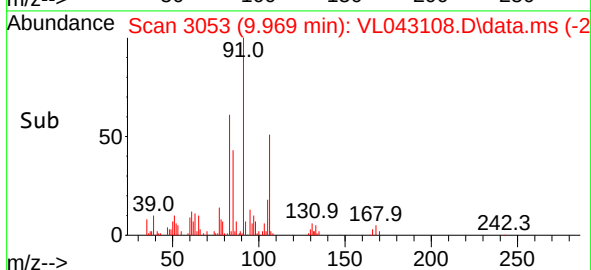
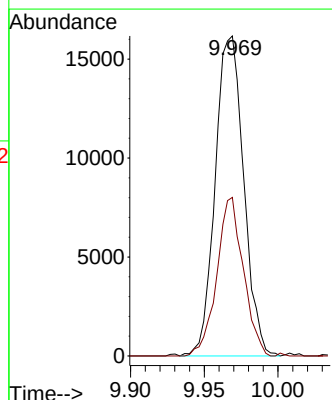
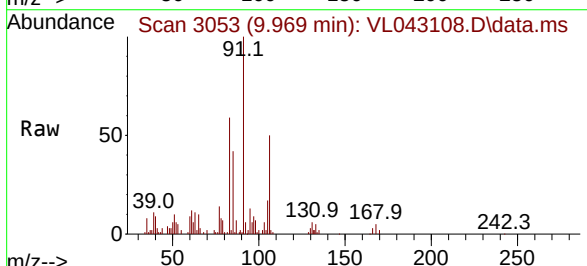
Acq: 14 Oct 2025 12:34

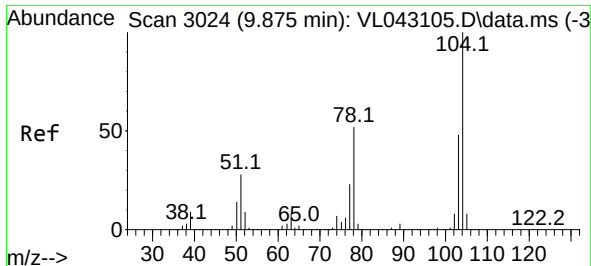
Tgt Ion: 91 Resp: 21745

Ion Ratio Lower Upper

91 100

106 46.2 21.9 65.8

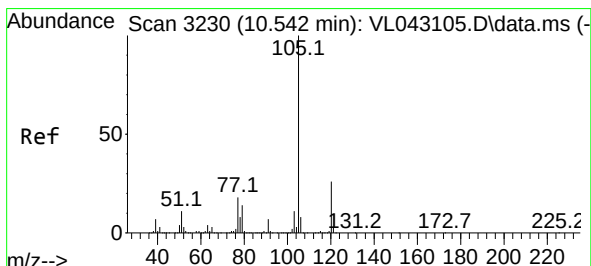
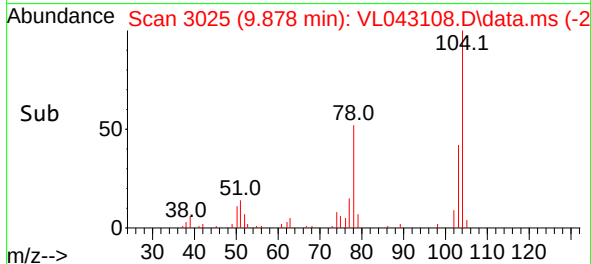
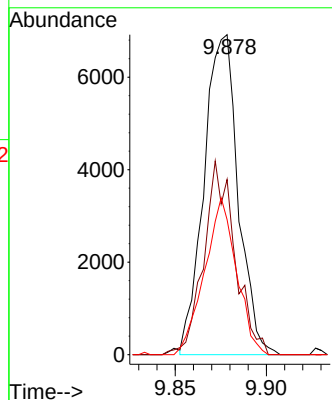
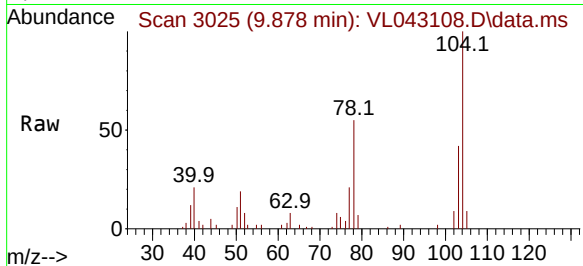




#61
Styrene
Concen: 0.489 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

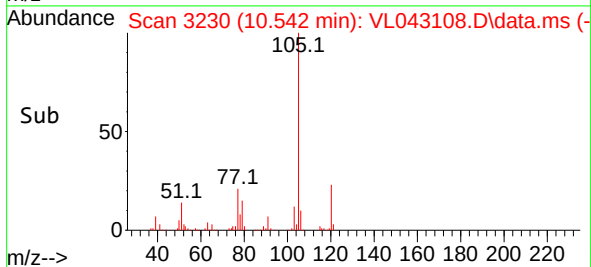
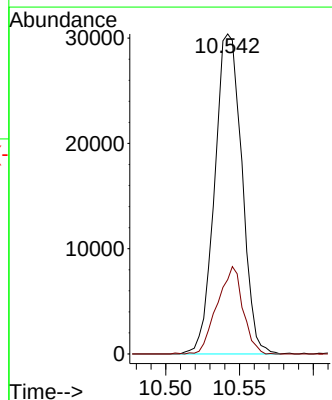
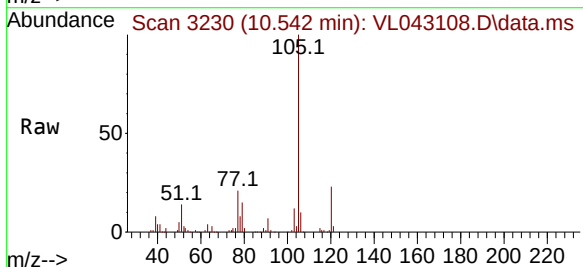
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

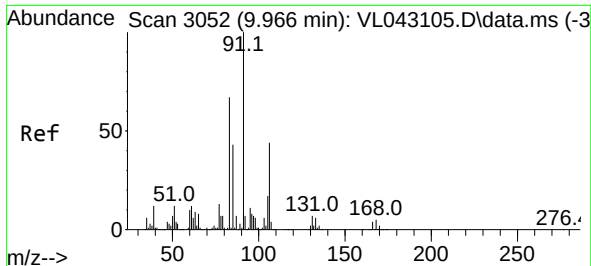
Tgt Ion:104 Resp: 9052
Ion Ratio Lower Upper
104 100
78 55.0 40.2 60.2
103 45.6 36.9 55.3



#62
Isopropylbenzene
Concen: 0.525 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 38899
Ion Ratio Lower Upper
105 100
120 25.8 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.497 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

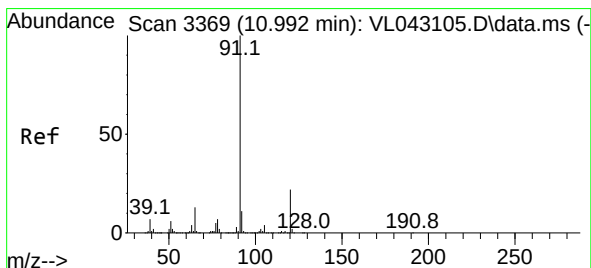
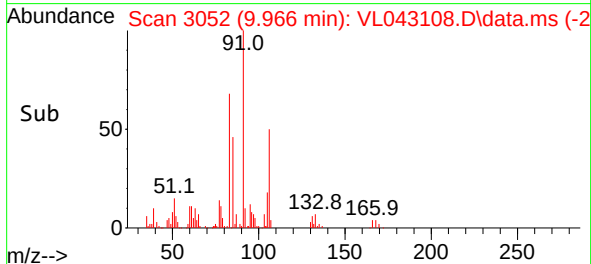
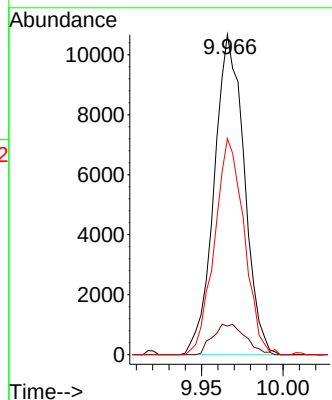
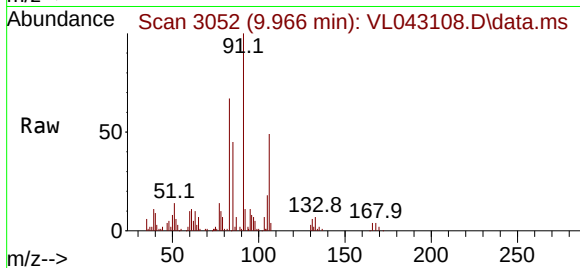
Tgt Ion: 83 Resp: 13653

Ion Ratio Lower Upper

83 100

131 10.5 4.8 14.3

85 66.7 32.0 96.0



#64

n-propylbenzene

Concen: 0.532 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. -0.000 min

Lab File: VL043108.D

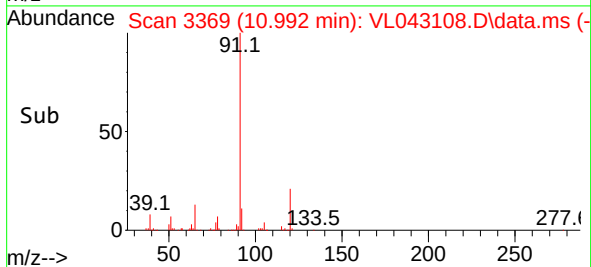
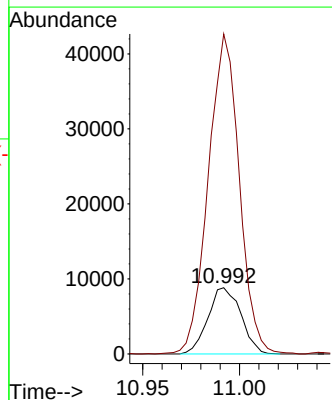
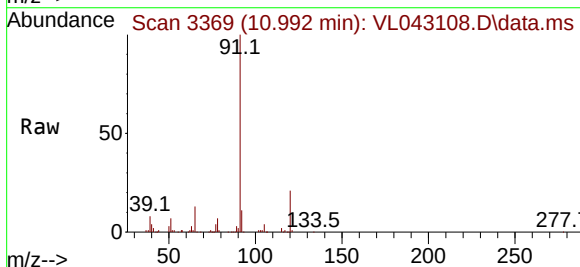
Acq: 14 Oct 2025 12:34

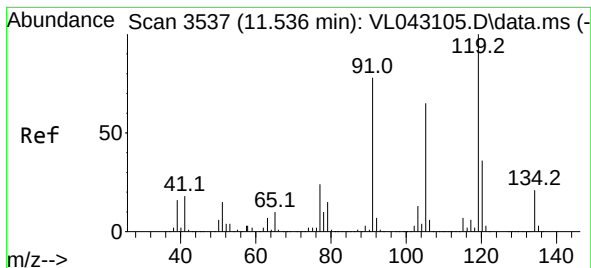
Tgt Ion: 120 Resp: 10435

Ion Ratio Lower Upper

120 100

91 455.0 361.6 542.4





#65

tert-Butylbenzene

Concen: 0.543 ppbv

RT: 11.532 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

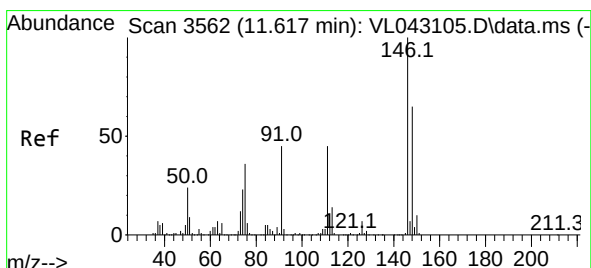
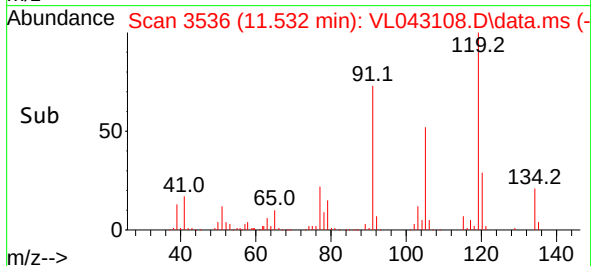
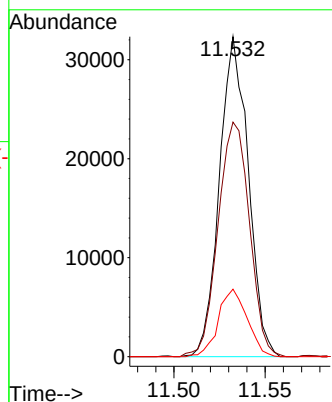
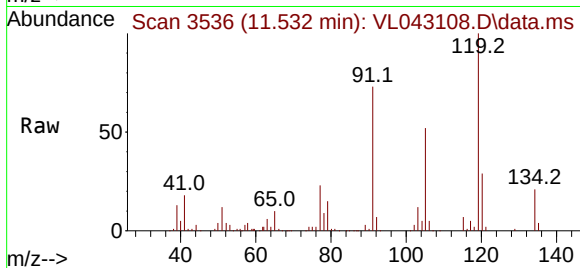
Tgt Ion:119 Resp: 35537

Ion Ratio Lower Upper

119 100

91 80.0 63.4 95.0

134 21.2 17.3 25.9



#66

Benzyl Chloride

Concen: 0.476 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

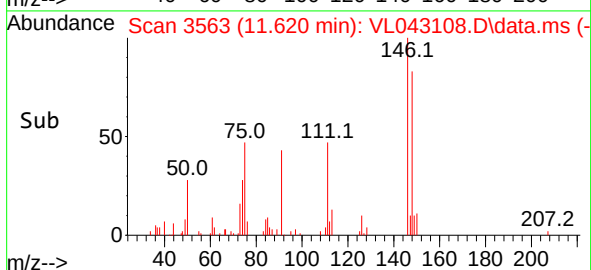
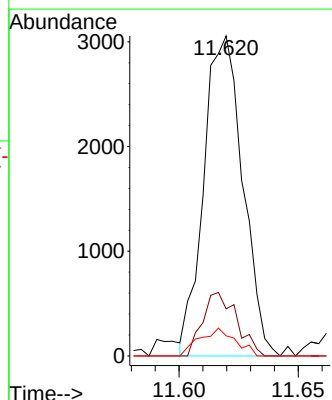
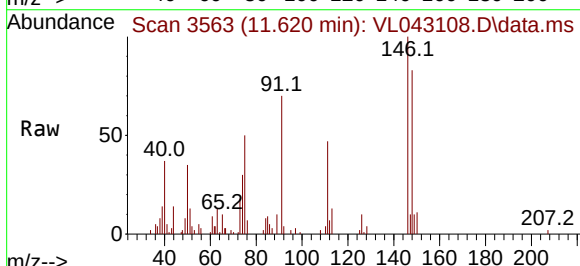
Tgt Ion: 91 Resp: 3477

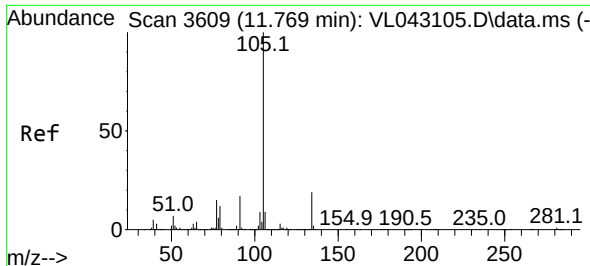
Ion Ratio Lower Upper

91 100

126 17.3 14.6 22.0

128 7.9 4.6 6.8#

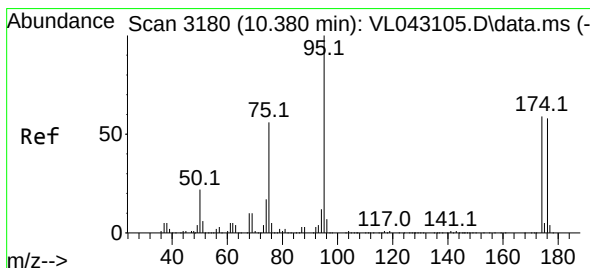
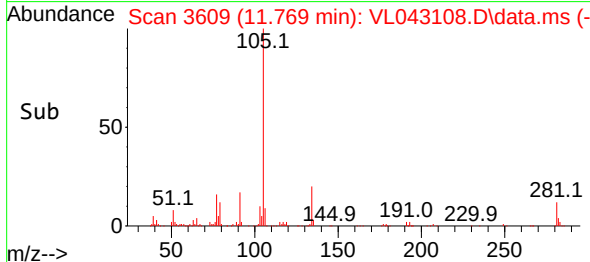
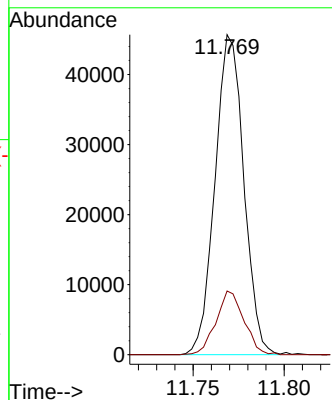
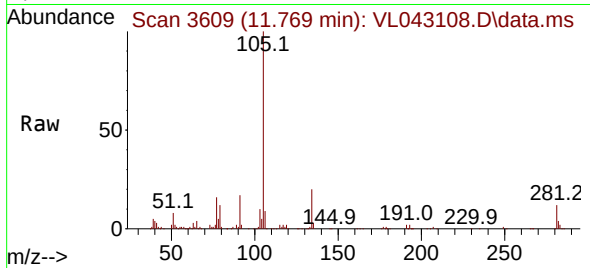




#67
 sec-Butylbenzene
 Concen: 0.541 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

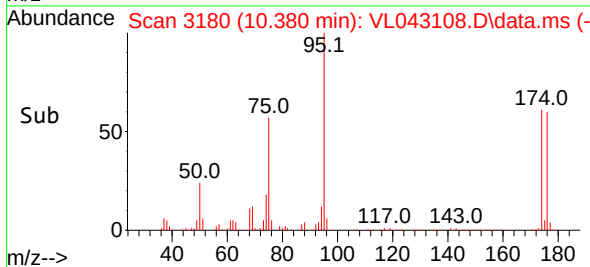
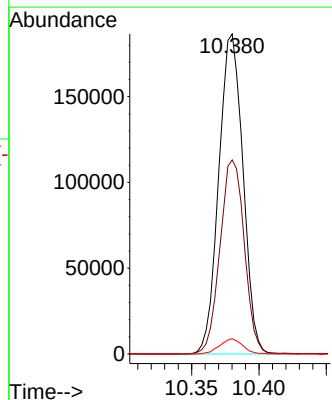
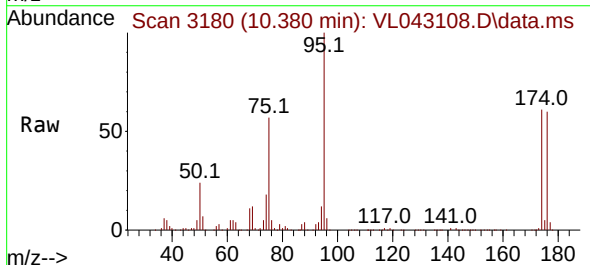
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

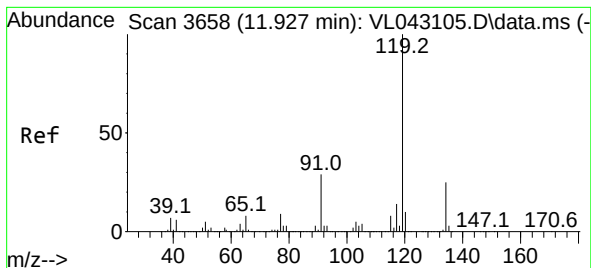
Tgt Ion:105 Resp: 50259
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.875 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 95 Resp: 232904
 Ion Ratio Lower Upper
 95 100
 174 61.0 48.3 72.5
 175 4.5 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.524 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

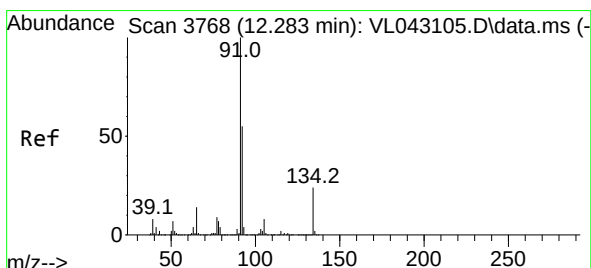
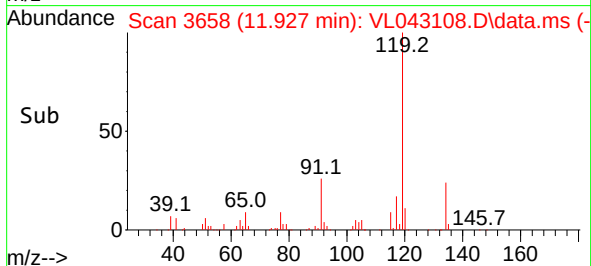
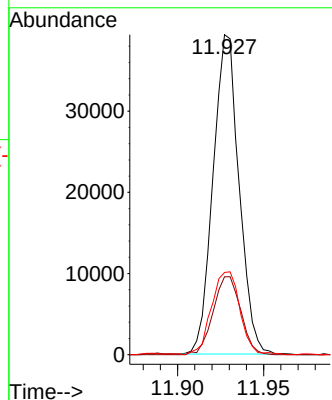
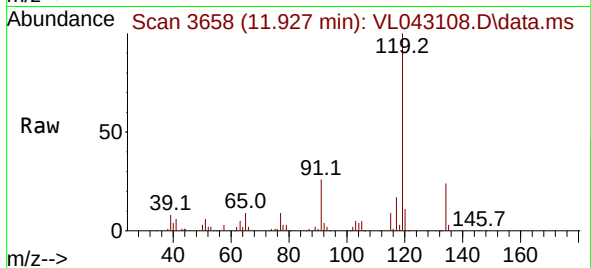
Tgt Ion:119 Resp: 41366

Ion Ratio Lower Upper

119 100

134 25.8 20.3 30.5

91 28.9 22.6 33.8



#70

n-Butylbenzene

Concen: 0.509 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

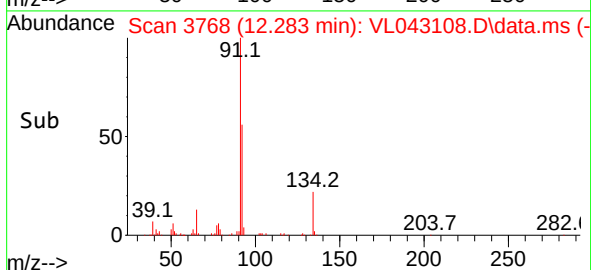
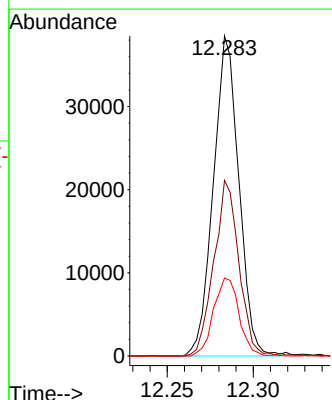
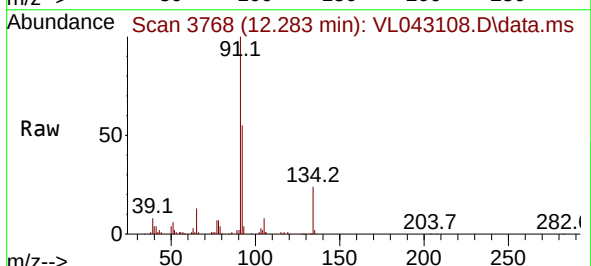
Tgt Ion: 91 Resp: 39620

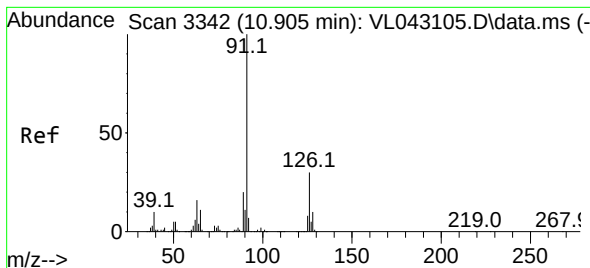
Ion Ratio Lower Upper

91 100

92 54.2 44.5 66.7

134 24.4 19.3 28.9





#71

2-Chlorotoluene

Concen: 0.526 ppbv

RT: 10.901 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

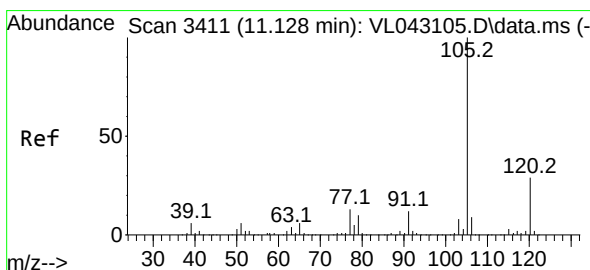
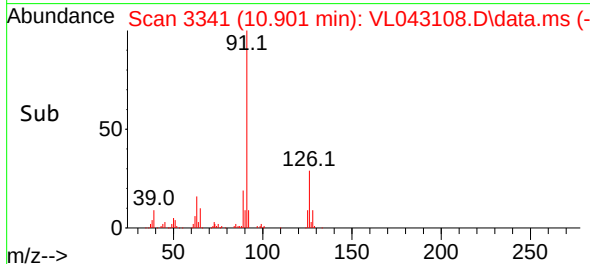
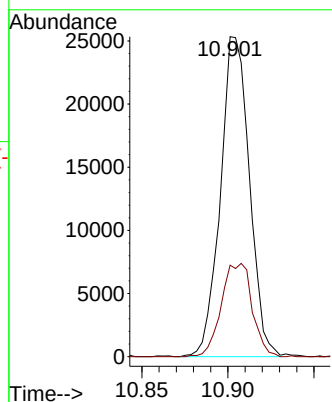
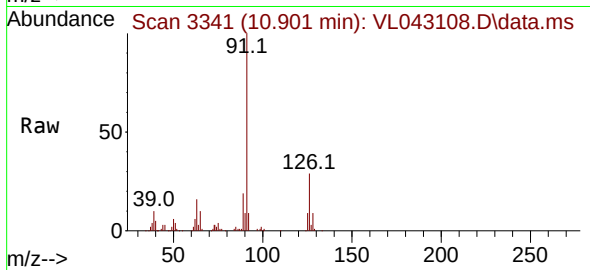
VSTDIC0.5

Tgt Ion: 91 Resp: 29722

Ion Ratio Lower Upper

91 100

126 30.9 12.0 48.0



#72

4-Ethyltoluene

Concen: 0.524 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion: 105 Resp: 26408

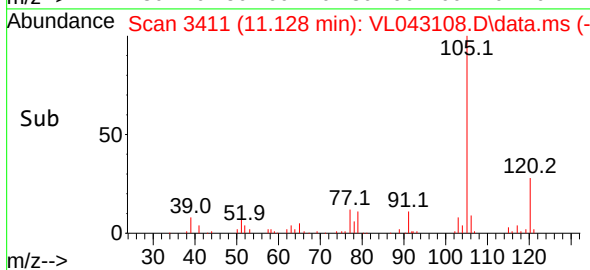
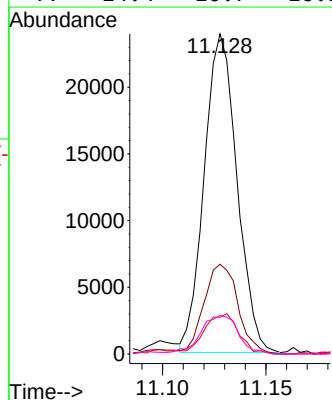
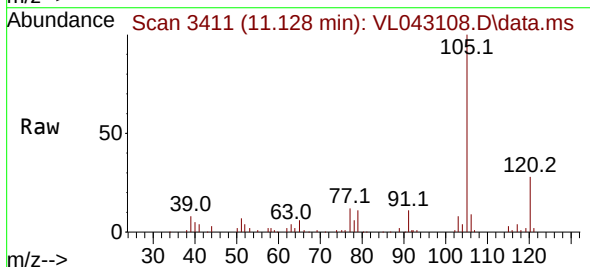
Ion Ratio Lower Upper

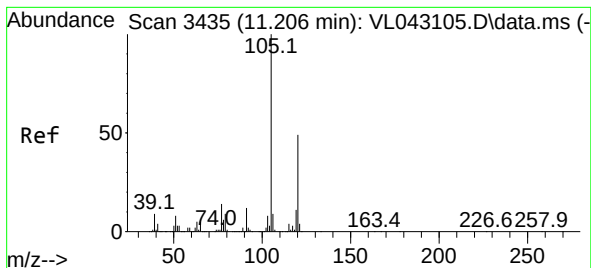
105 100

120 30.8 24.2 36.4

91 14.6 10.0 15.0

77 14.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 0.523 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

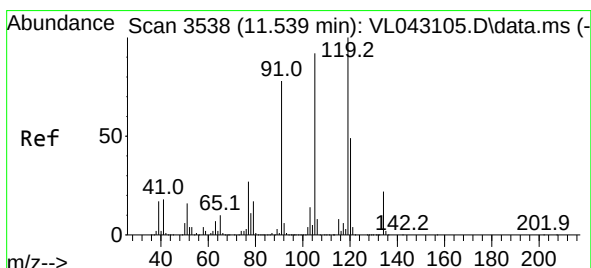
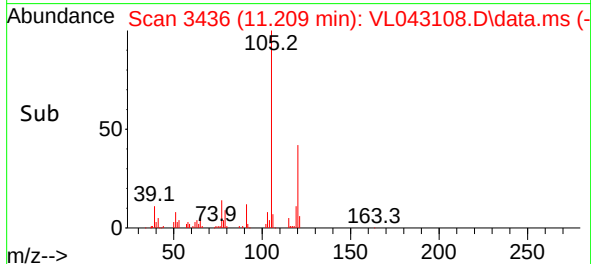
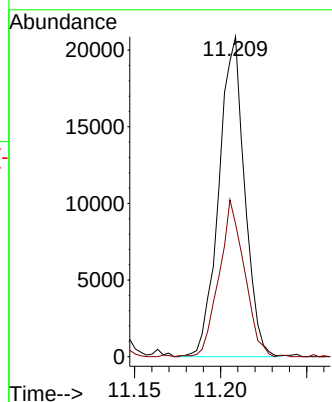
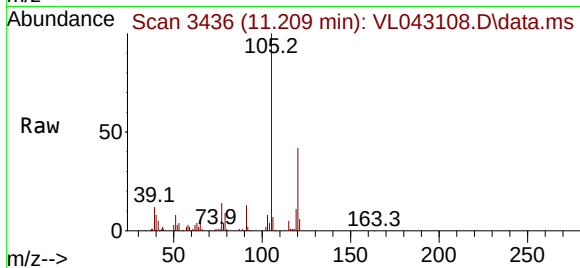
VSTDIC0.5

Tgt Ion:105 Resp: 21754

Ion Ratio Lower Upper

105 100

120 41.1 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 0.551 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 25663

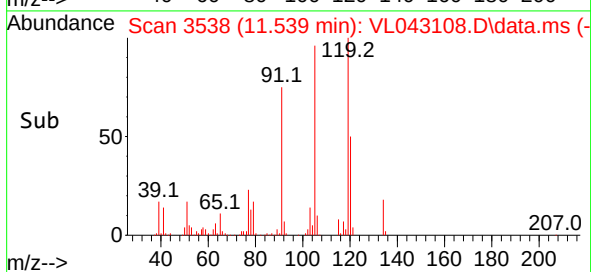
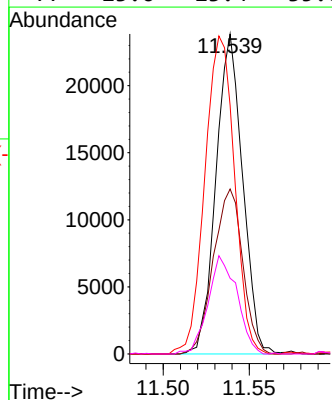
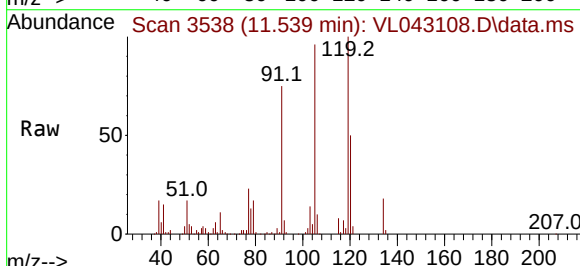
Ion Ratio Lower Upper

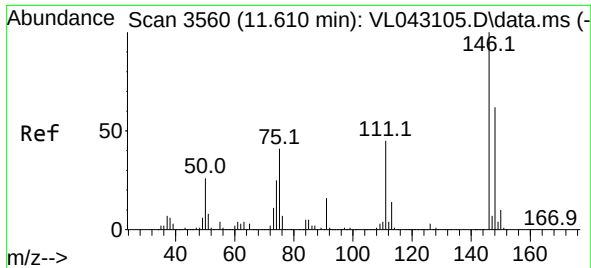
105 100

120 51.5 42.8 64.2

91 77.7 68.3 102.5

77 23.6 23.4 35.0

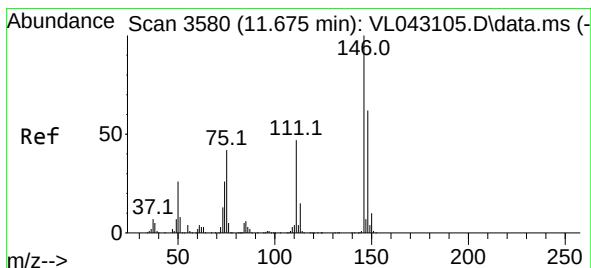
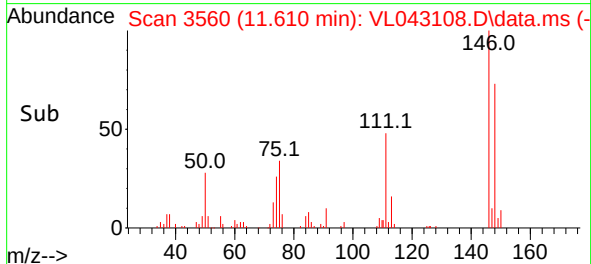
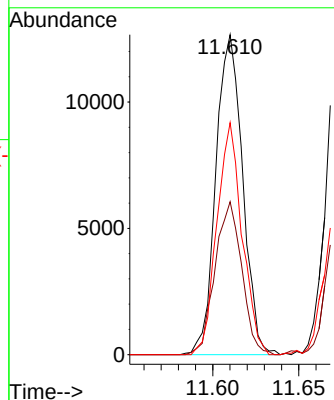
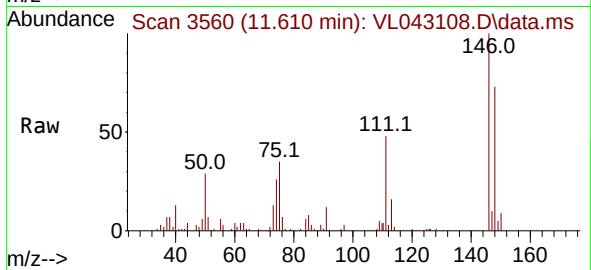




#75
1,3-Dichlorobenzene
Concen: 0.507 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

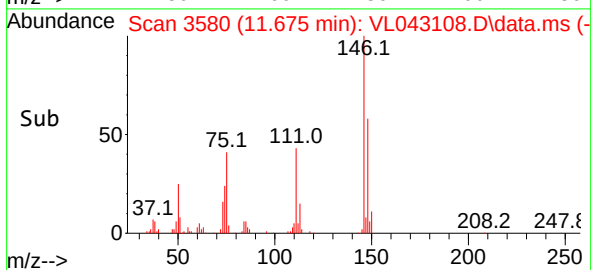
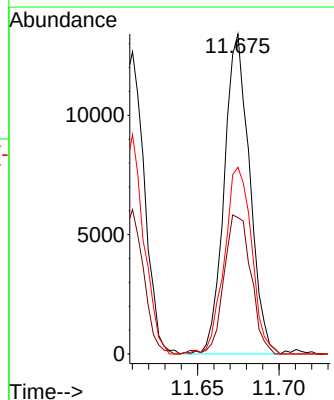
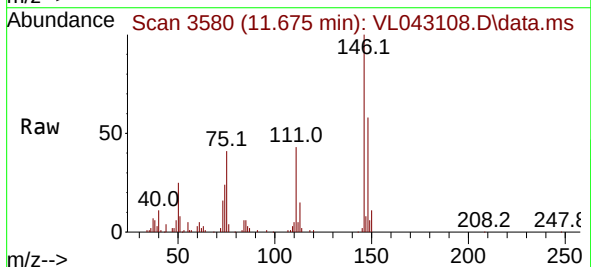
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

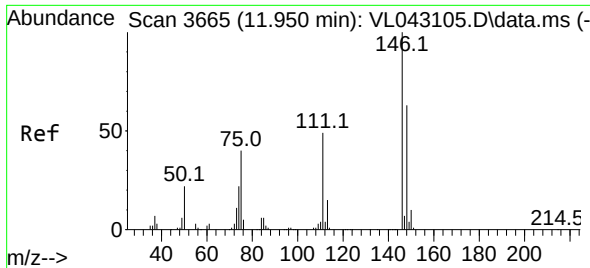
Tgt Ion:146 Resp: 13697
Ion Ratio Lower Upper
146 100
111 47.8 23.3 69.9
148 68.4 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:146 Resp: 14514
Ion Ratio Lower Upper
146 100
111 46.4 22.4 67.0
148 62.7 31.6 94.7

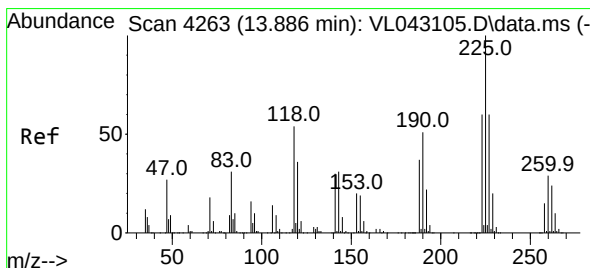
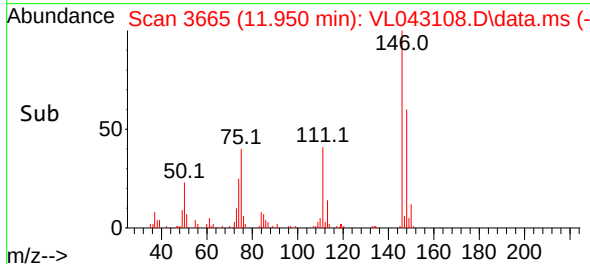
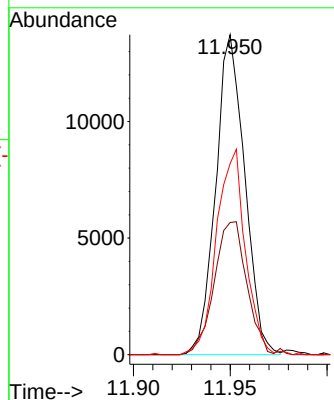
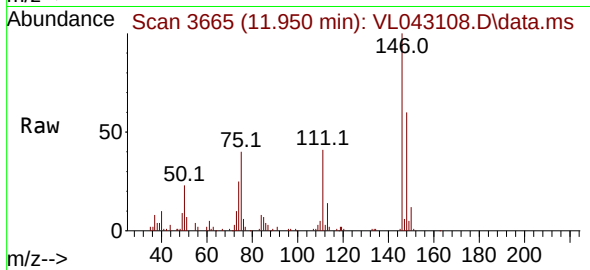




#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

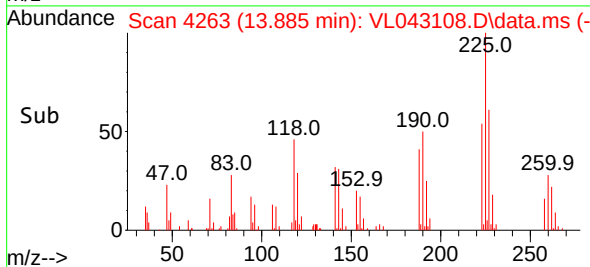
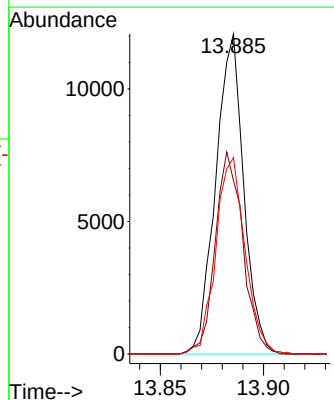
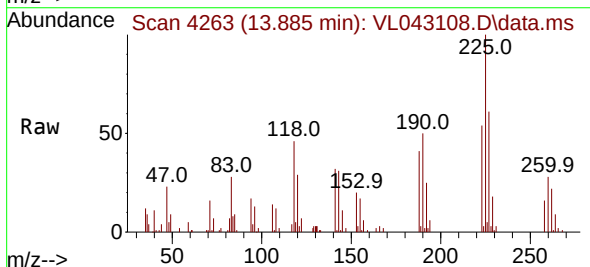
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

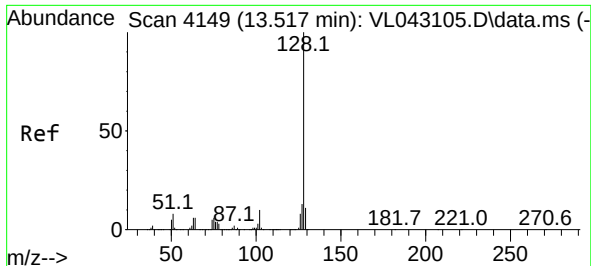
Tgt Ion:146 Resp: 14324
Ion Ratio Lower Upper
146 100
111 46.9 24.0 72.0
148 64.1 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.564 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:225 Resp: 11400
Ion Ratio Lower Upper
225 100
223 62.4 50.2 75.4
227 64.2 49.6 74.4

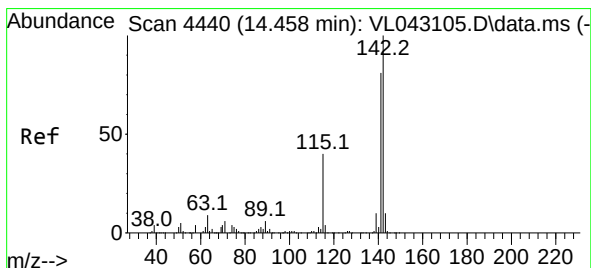
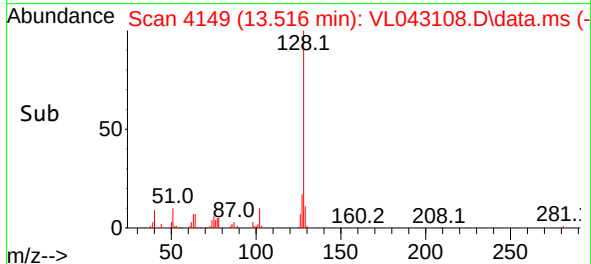
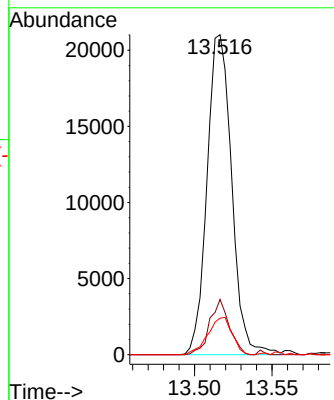
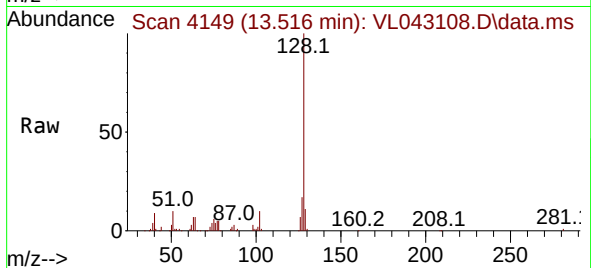




#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

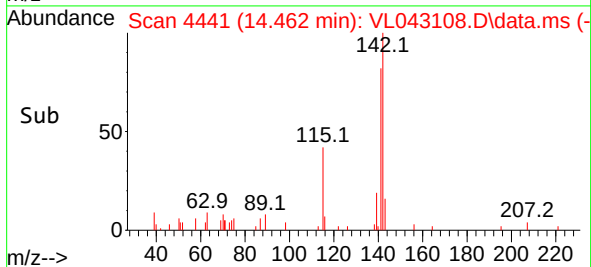
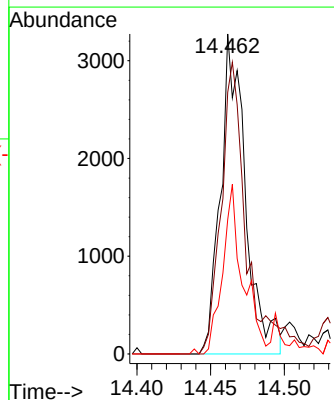
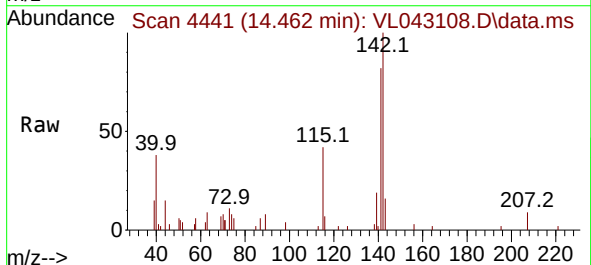
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

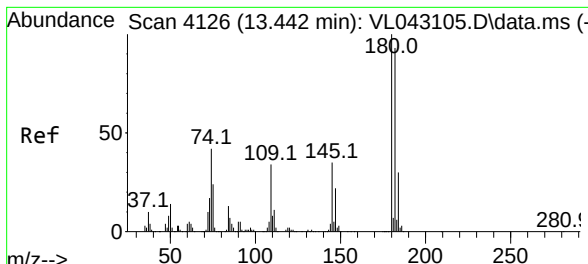
Tgt Ion:128 Resp: 23247
Ion Ratio Lower Upper
128 100
127 17.3 10.5 15.7#
129 11.4 9.1 13.7



#80
Naphthalene,2-methyl-
Concen: 0.305 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

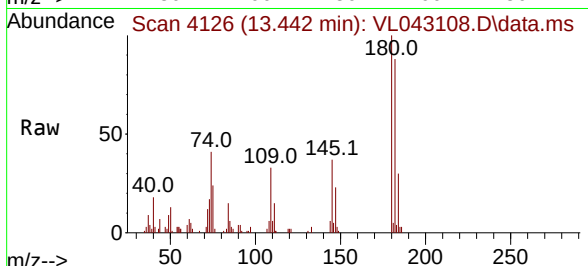
Tgt Ion:142 Resp: 3874
Ion Ratio Lower Upper
142 100
141 92.6 64.6 97.0
115 51.2 30.2 45.4#



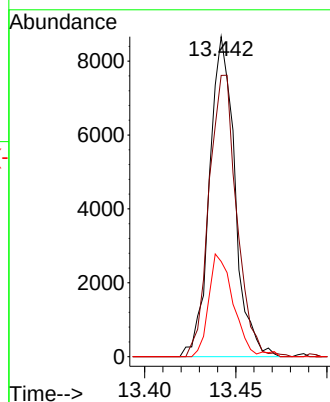
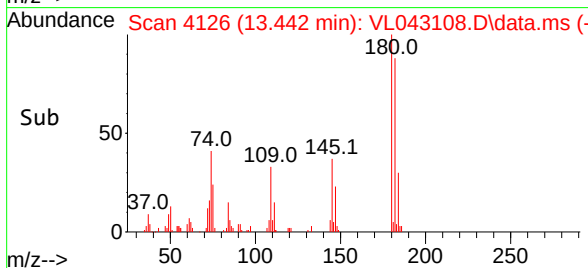


#81
 1,2,4-Trichlorobenzene
 Concen: 0.416 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	180	Resp:	8395
Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.5	113.3
184	31.4	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043109.D
 Acq On : 14 Oct 2025 13:08
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Oct 15 01:54:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	99997	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332574	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	299676	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233673	10.032	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	1417	0.100	ppbv	96
3) Chlorodifluoromethane	1.479	51	1709	0.111	ppbv #	75
4) Chloromethane	1.534	50	746	0.132	ppbv	94
5) Vinyl Chloride	1.583	62	554	0.100	ppbv #	33
6) Bromomethane	1.667	94	479	0.158	ppbv #	61
7) Chloroethane	1.703	64	261	0.116	ppbv #	42
8) Dichlorotetrafluoroethane	1.557	85	1427	0.124	ppbv	85
9) Propene	1.486	41	689	0.101	ppbv #	1
10) Heptane	4.985	43	706	0.036	ppbv #	27
11) Trichlorofluoromethane	1.877	101	1515	0.109	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	1303	0.116	ppbv	97
13) Ethanol	1.725	45	327	0.130	ppbv #	27
14) Bromoethene	1.787	108	443	0.107	ppbv #	50
15) Acetone	1.839	43	2487	0.184	ppbv	93
16) 1,3-Butadiene	1.612	39	770	0.120	ppbv #	49
17) tert-Butyl alcohol	2.043	59	2301	0.124	ppbv #	3
18) 1,1-Dichloroethene	2.036	96	720	0.148	ppbv #	67
19) Isopropyl Alcohol	1.887	45	1443	0.172	ppbv #	53
20) Methylene Chloride	2.062	84	1890	0.355	ppbv #	77
21) Allyl Chloride	2.098	41	1664	0.167	ppbv #	43
22) trans-1,2-Dichloroethene	2.036	96	720	0.123	ppbv	86
23) Vinyl Acetate	2.467	43	2916	0.148	ppbv #	91
24) 1,1-Dichloroethane	2.408	63	1367	0.121	ppbv #	91
25) Ethyl Acetate	2.836	43	1114	0.033	ppbv #	66
26) Hexane	2.829	57	2134	0.139	ppbv	94
27) Carbon Disulfide	2.153	76	1609	0.114	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	351	0.050	ppbv #	49
29) Chloroform	2.855	83	1225	0.055	ppbv	89
30) Cyclohexane	3.868	84	340	0.025	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	1605	0.109	ppbv #	88
32) 1,1,1-Trichloroethane	3.373	97	1581	0.068	ppbv #	60
34) 2-Butanone	2.564	43	2560	0.114	ppbv	94
35) Carbon Tetrachloride	3.370	117	231	0.010	ppbv	90
36) Benzene	3.658	78	3507	0.112	ppbv	96
37) 1,2-Dichloroethane	3.224	62	1448	0.080	ppbv #	93
38) Trichloroethene	4.551	130	242	0.019	ppbv #	7
39) 1,2-Dichloropropane	3.962	63	80849	7.054	ppbv #	25
40) 1,4-Dioxane	4.609	88	339	0.066	ppbv #	38
41) Tetrahydrofuran	3.043	42	58	0.005	ppbv #	37
42) Bromodichloromethane	4.496	83	2440	0.098	ppbv #	73
43) Methyl Methacrylate	4.881	69	636	0.040	ppbv #	1
44) 2,2,4-Trimethylpentane	4.642	57	3354	0.064	ppbv #	45
45) t-1,3-Dichloropropene	6.425	75	617	0.039	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043109.D
 Acq On : 14 Oct 2025 13:08
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Oct 15 01:54:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

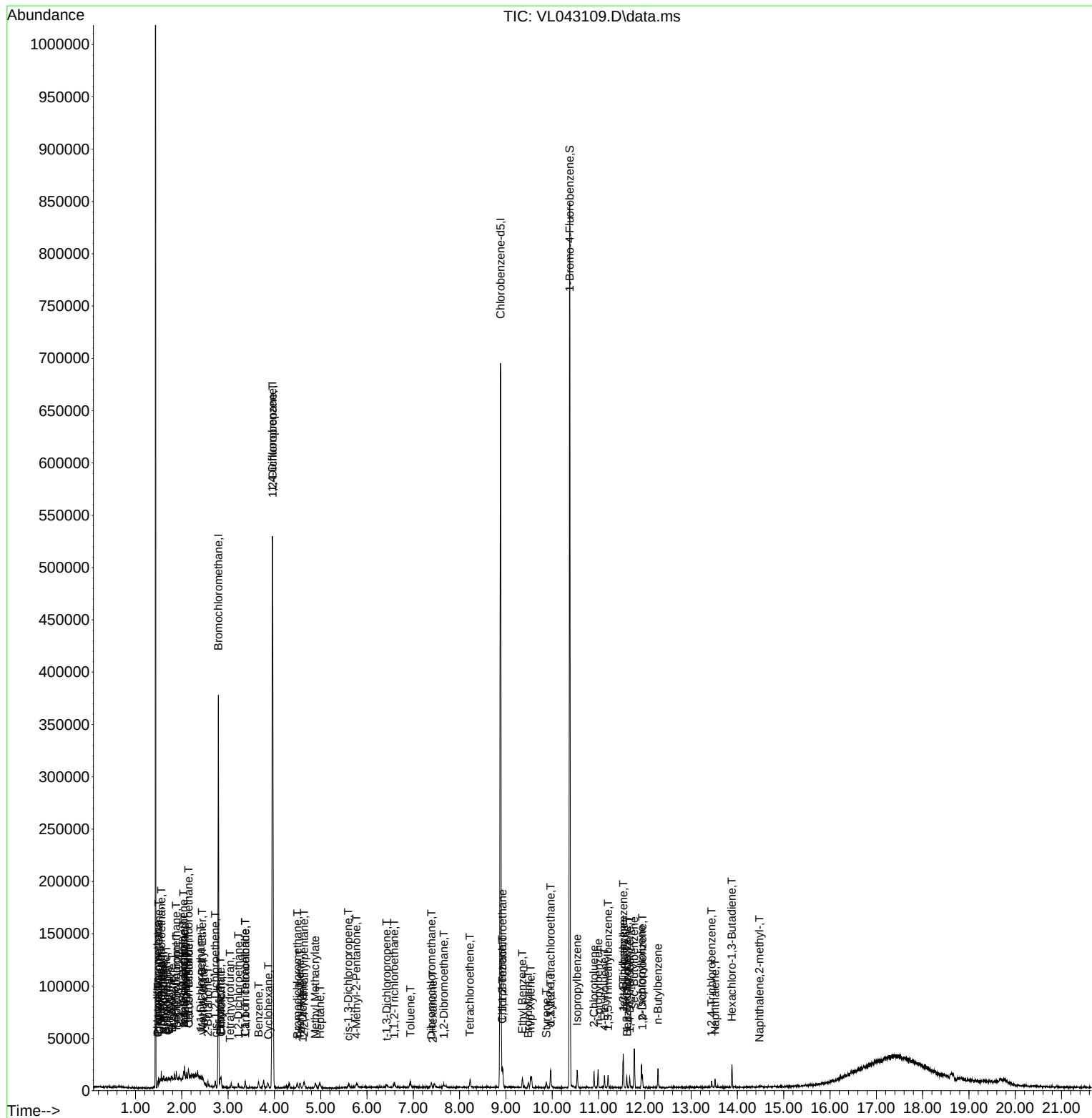
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	472	0.025	ppbv #	55
47) 1,1,2-Trichloroethane	6.587	97	716	0.058	ppbv #	38
48) Dibromochloromethane	7.393	129	1506	0.073	ppbv	72
49) Bromoform	9.484	173	1666	0.099	ppbv #	90
50) 4-Methyl-2-Pentanone	5.771	43	1420	0.046	ppbv #	38
51) 2-Hexanone	7.422	43	65	0.003	ppbv #	27
52) Tetrachloroethene	8.221	164	377	0.033	ppbv #	22
53) Toluene	6.940	91	1973	0.053	ppbv #	9
54) 1,2-Dibromoethane	7.658	107	2201	0.113	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	1509	0.080	ppbv #	9
57) Chlorobenzene	8.920	112	3177	0.113	ppbv #	95
58) Ethyl Benzene	9.354	91	5210	0.100	ppbv	96
59) m/p-Xylene	9.535	91	3213	0.078	ppbv #	29
60) o-Xylene	9.963	91	3450	0.085	ppbv	78
61) Styrene	9.872	104	1475	0.081	ppbv #	82
62) Isopropylbenzene	10.539	105	8132	0.111	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	3053	0.113	ppbv	90
64) n-propylbenzene	10.992	120	1906	0.098	ppbv	87
65) tert-Butylbenzene	11.532	119	6951	0.108	ppbv	97
66) Benzyl Chloride	11.617	91	277	0.038	ppbv #	78
67) sec-Butylbenzene	11.769	105	9081	0.099	ppbv	96
69) p-Isopropyltoluene	11.927	119	8105	0.104	ppbv	98
70) n-Butylbenzene	12.283	91	6640	0.086	ppbv	100
71) 2-Chlorotoluene	10.904	91	5527	0.099	ppbv	96
72) 4-Ethyltoluene	11.128	105	4754	0.095	ppbv #	92
73) 1,3,5-Trimethylbenzene	11.205	105	4680	0.114	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.536	105	4519	0.098	ppbv #	94
75) 1,3-Dichlorobenzene	11.610	146	2518	0.094	ppbv	94
76) 1,4-Dichlorobenzene	11.672	146	2266	0.084	ppbv	91
77) 1,2-Dichlorobenzene	11.950	146	2676	0.104	ppbv	94
78) Hexachloro-1,3-Butadiene	13.879	225	2107	0.105	ppbv	95
79) Naphthalene	13.516	128	3453	0.073	ppbv #	97
80) Naphthalene,2-methyl-	14.478	142	582	0.046	ppbv #	28
81) 1,2,4-Trichlorobenzene	13.442	180	774	0.039	ppbv #	77

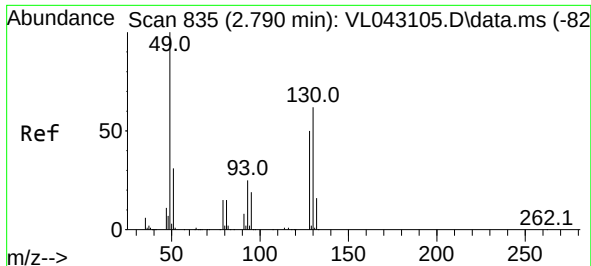
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

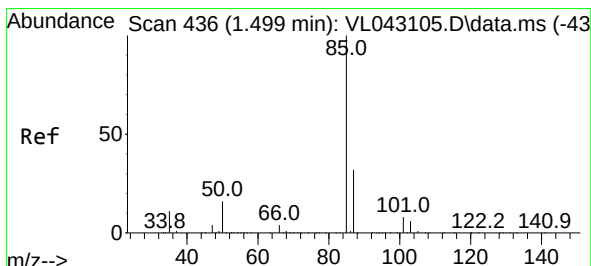
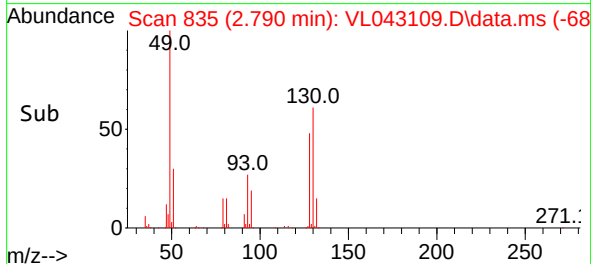
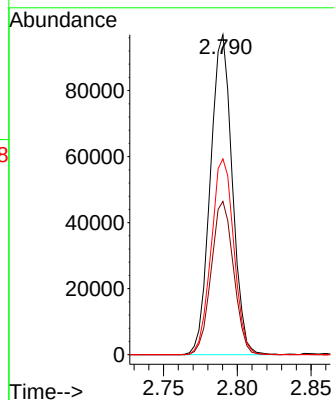
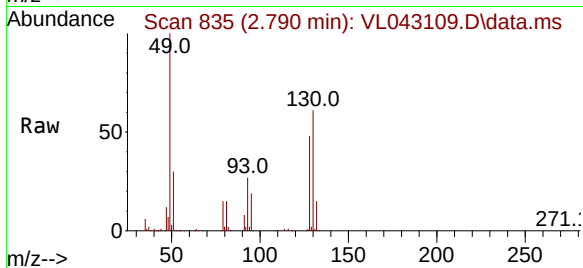




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

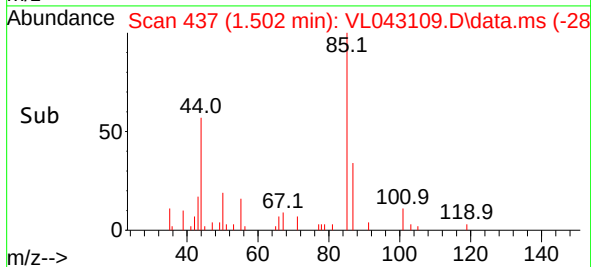
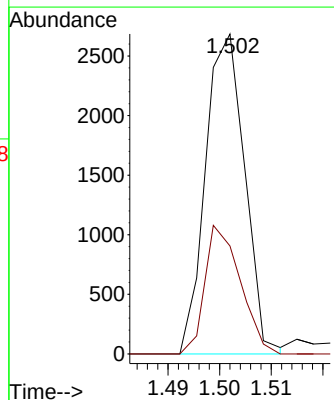
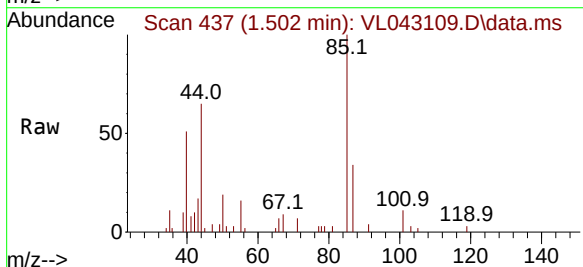
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

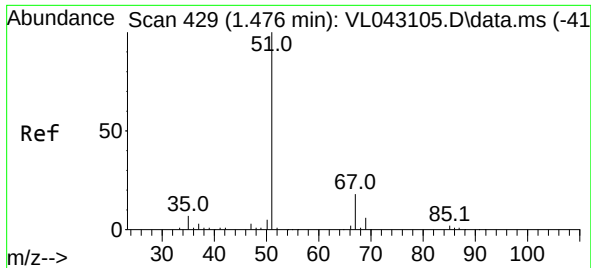
Tgt Ion: 49 Resp: 99997
 Ion Ratio Lower Upper
 49 100
 128 48.9 24.4 73.4
 130 63.3 31.0 93.0



#2
 Dichlorodifluoromethane
 Concen: 0.100 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1417
 Ion Ratio Lower Upper
 85 100
 87 33.7 25.3 37.9

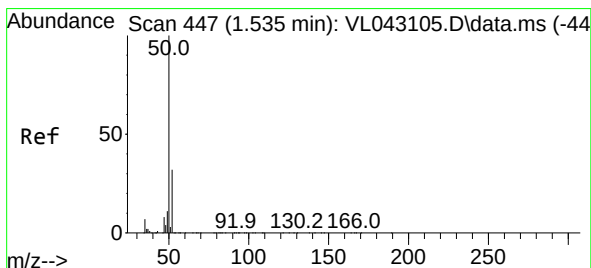
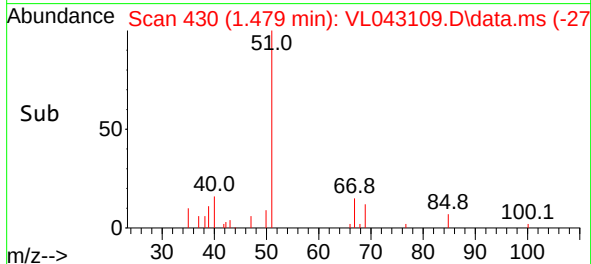
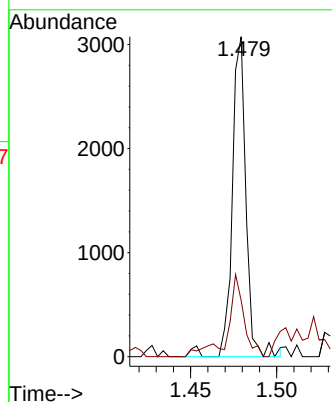
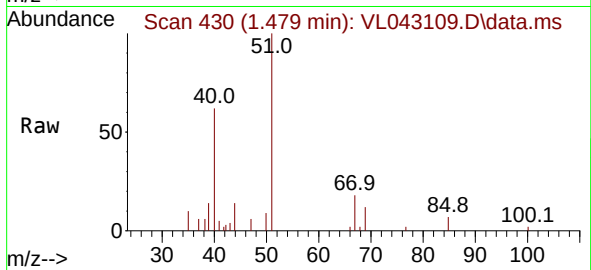




#3
Chlorodifluoromethane
Concen: 0.111 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

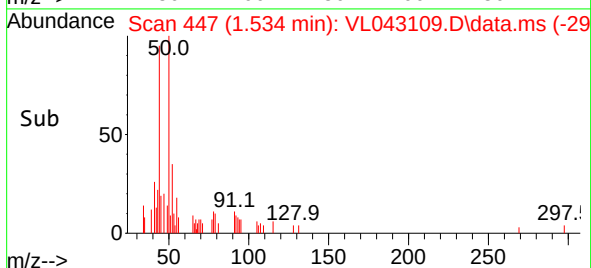
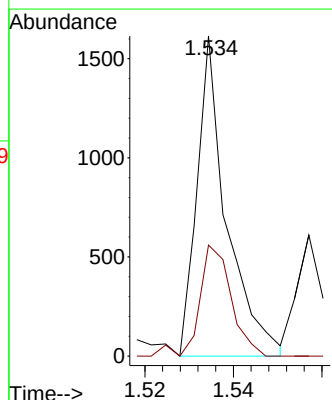
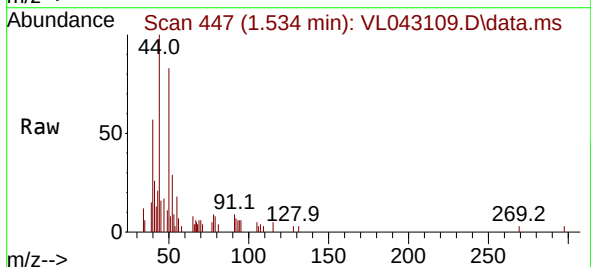
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

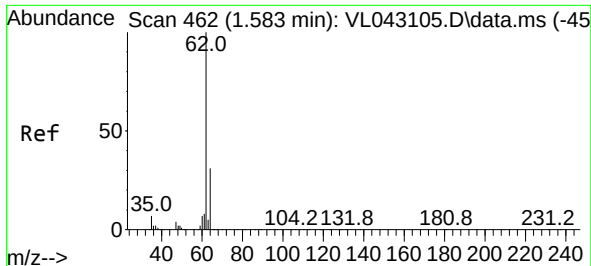
Tgt Ion: 51 Resp: 1709
Ion Ratio Lower Upper
51 100
67 30.1 15.1 22.7#



#4
Chloromethane
Concen: 0.132 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 50 Resp: 746
Ion Ratio Lower Upper
50 100
52 34.7 25.2 37.8

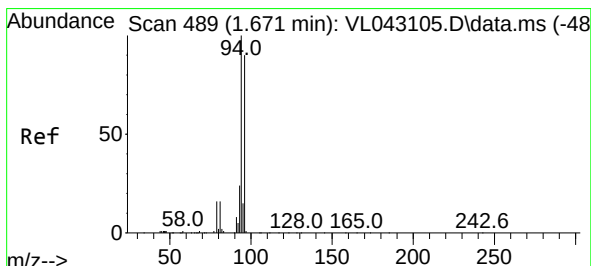
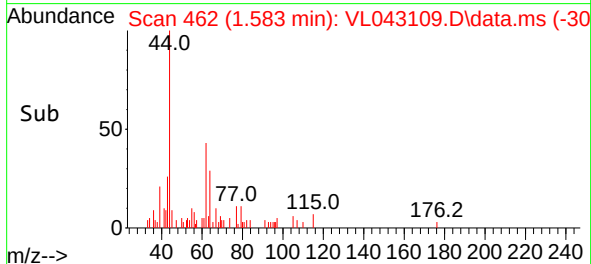
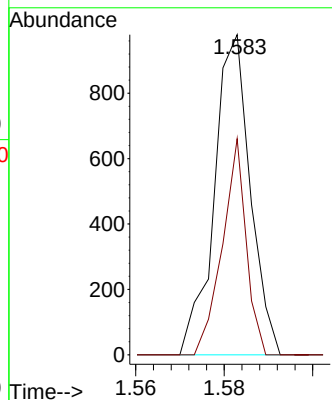
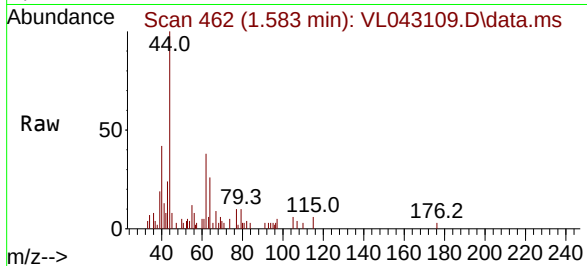




#5
 Vinyl Chloride
 Concen: 0.100 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

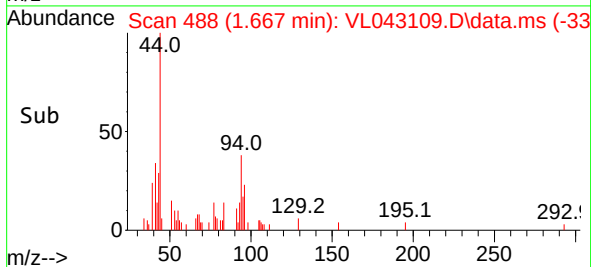
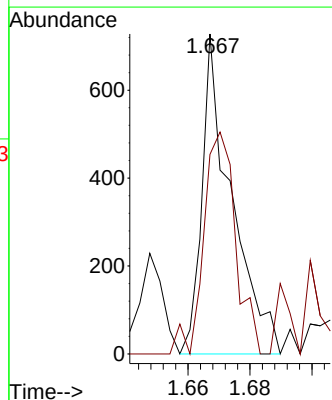
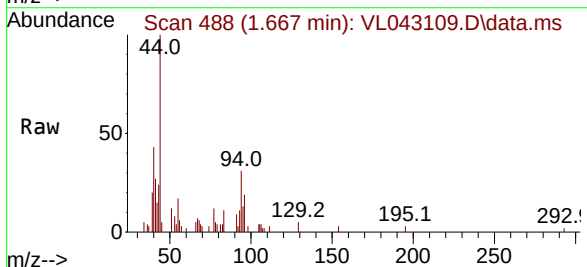
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

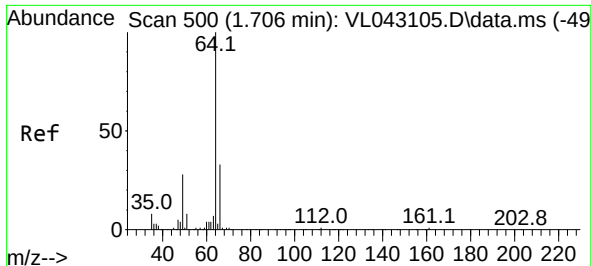
Tgt Ion: 62 Resp: 554
 Ion Ratio Lower Upper
 62 100
 64 67.5 24.6 36.8#



#6
 Bromomethane
 Concen: 0.158 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 94 Resp: 479
 Ion Ratio Lower Upper
 94 100
 96 53.0 72.2 108.4#

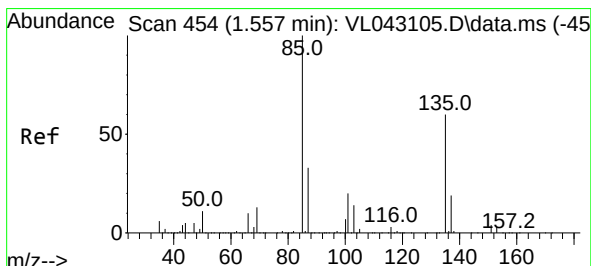
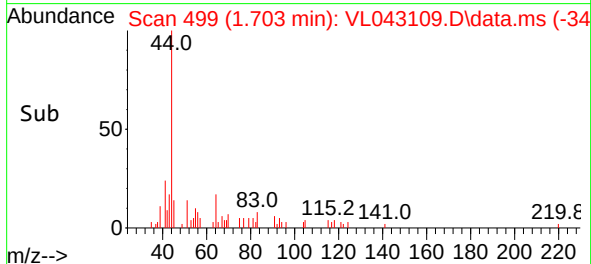
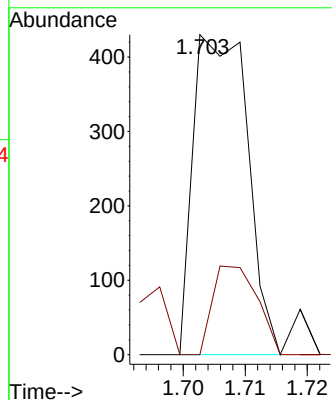
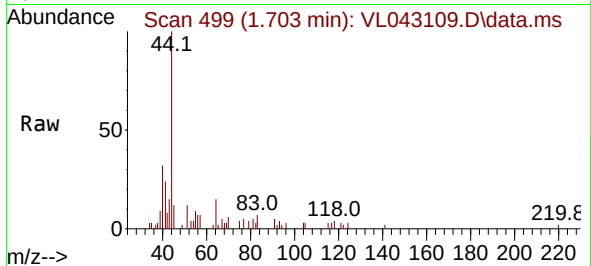




#7
Chloroethane
Concen: 0.116 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

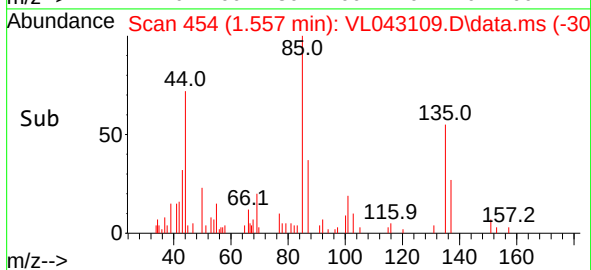
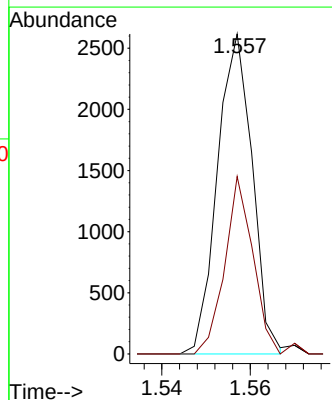
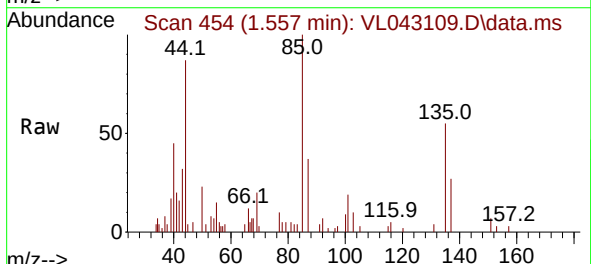
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

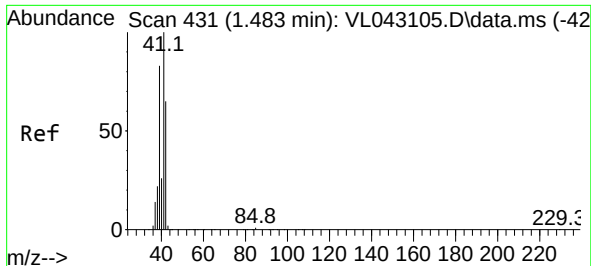
Tgt Ion: 64 Resp: 261
Ion Ratio Lower Upper
64 100
66 0.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.124 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1427
Ion Ratio Lower Upper
85 100
135 48.7 48.2 72.4





#9

Propene

Concen: 0.101 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

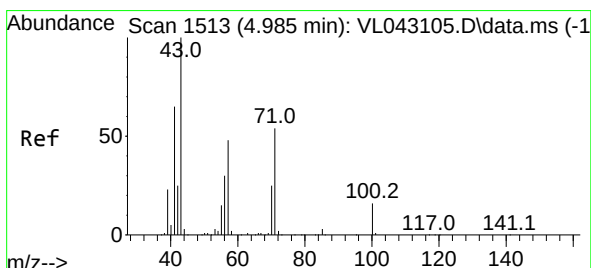
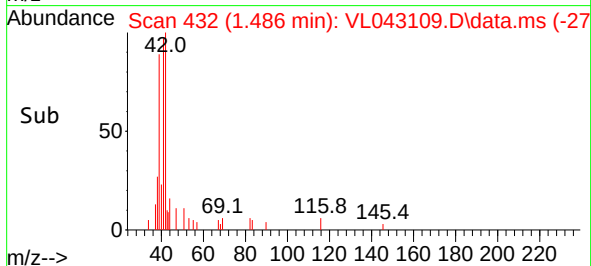
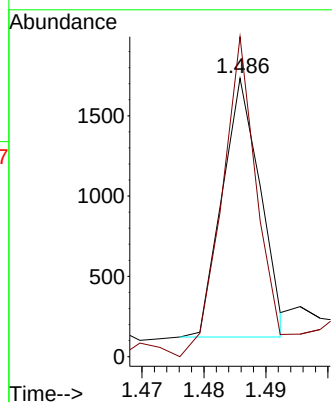
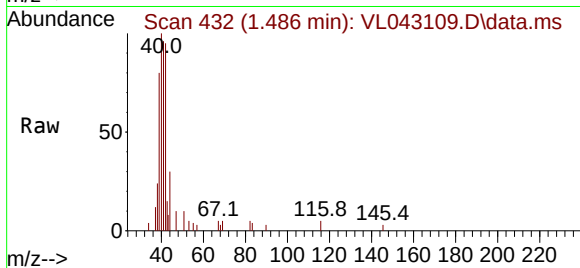
VSTDIC0.1

Tgt Ion: 41 Resp: 689

Ion Ratio Lower Upper

41 100

42 168.5 55.1 82.7#



#10

Heptane

Concen: 0.036 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043109.D

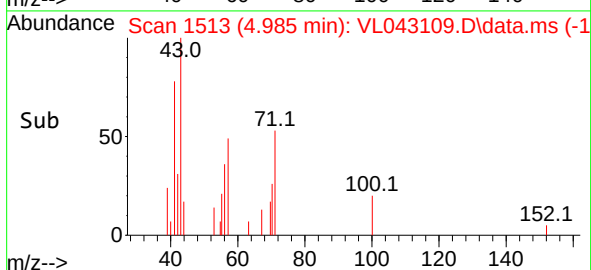
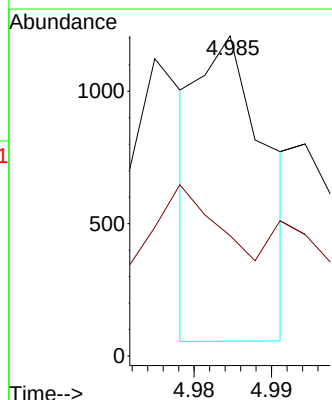
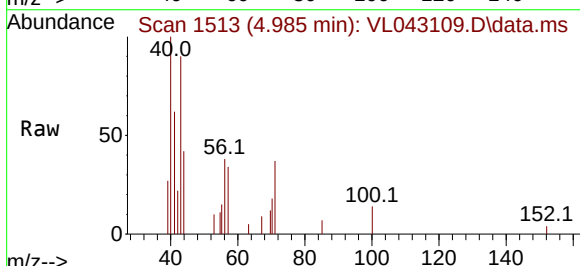
Acq: 14 Oct 2025 13:08

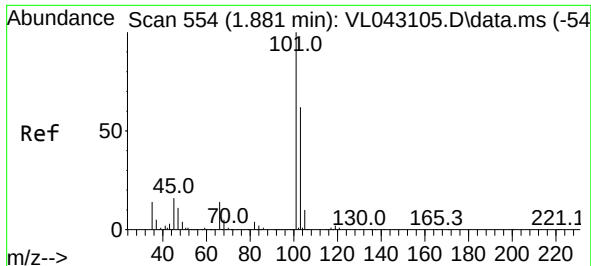
Tgt Ion: 43 Resp: 706

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#

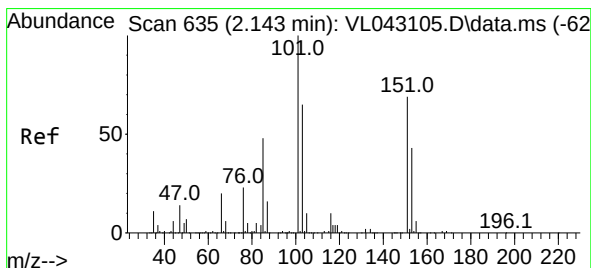
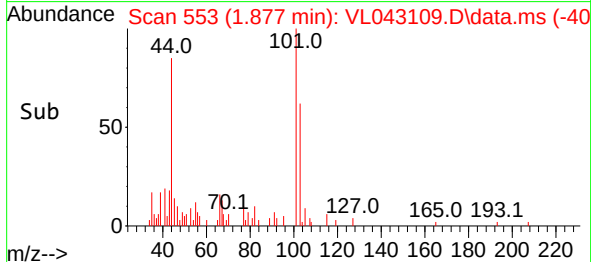
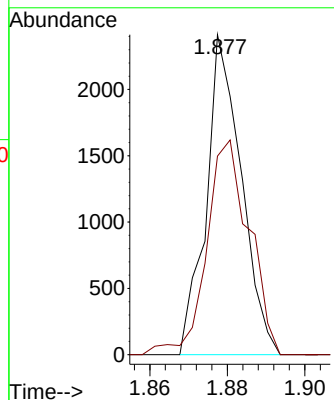
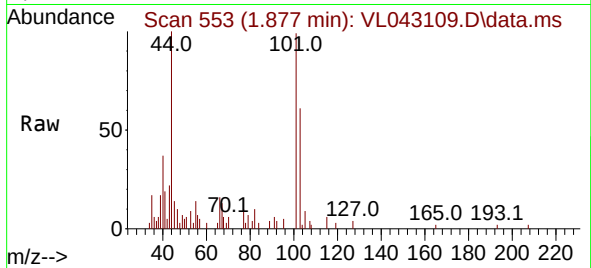




#11
 Trichlorofluoromethane
 Concen: 0.109 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

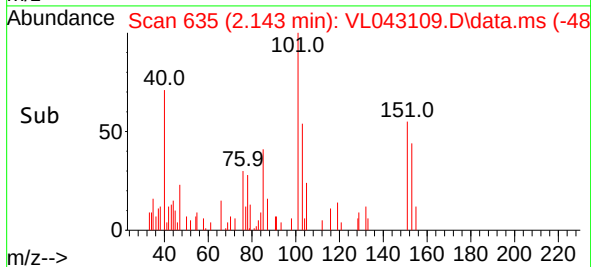
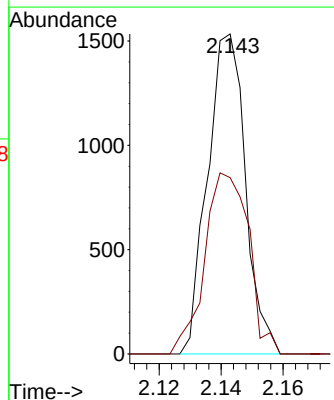
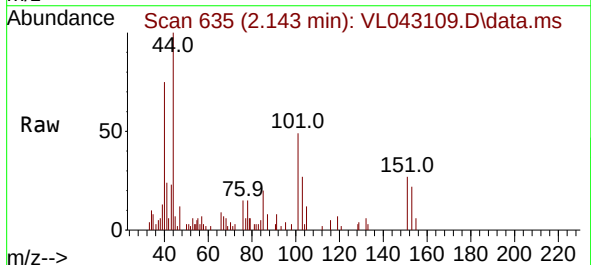
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

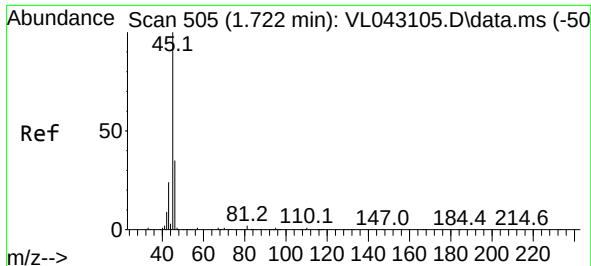
Tgt Ion:101 Resp: 1515
 Ion Ratio Lower Upper
 101 100
 103 62.1 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.116 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion:101 Resp: 1303
 Ion Ratio Lower Upper
 101 100
 151 65.7 54.7 82.1

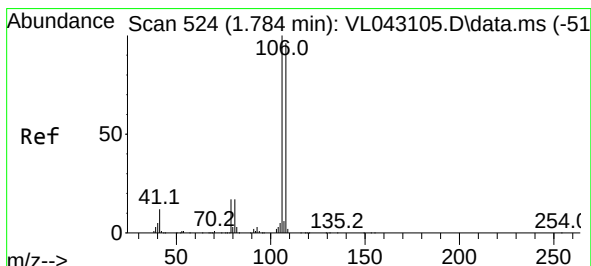
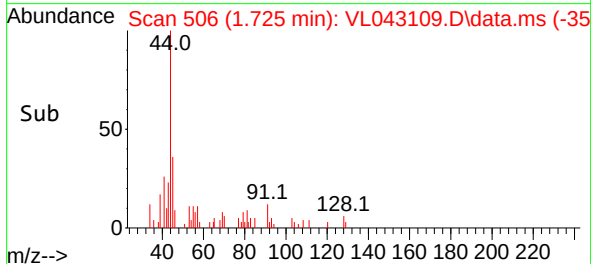
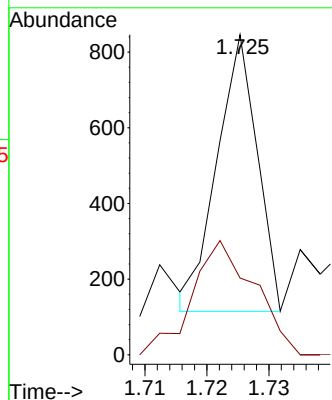
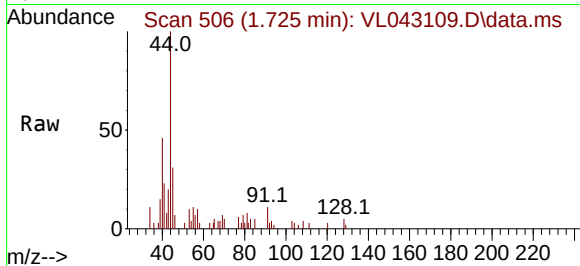




#13
 Ethanol
 Concen: 0.130 ppbv
 RT: 1.725 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

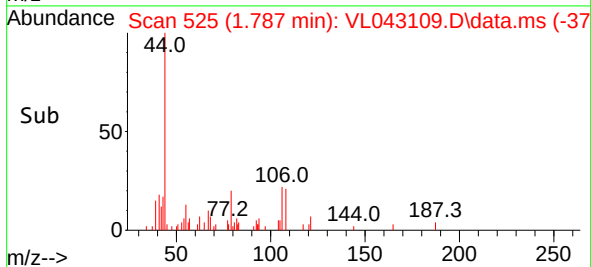
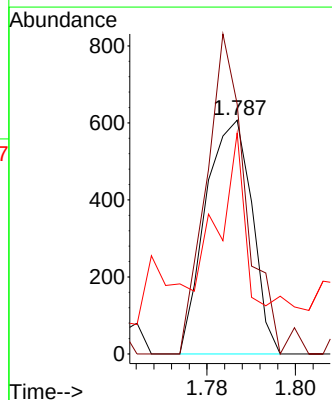
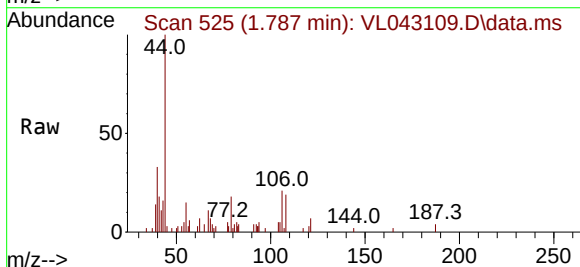
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

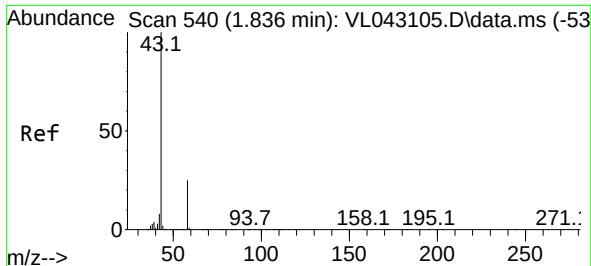
Tgt Ion: 45 Resp: 327
 Ion Ratio Lower Upper
 45 100
 46 80.1 14.7 58.9#



#14
 Bromoethene
 Concen: 0.107 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. 0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 108 Resp: 443
 Ion Ratio Lower Upper
 108 100
 106 133.2 84.4 126.6#
 79 99.1 15.3 22.9#





#15

Acetone

Concen: 0.184 ppbv

RT: 1.839 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

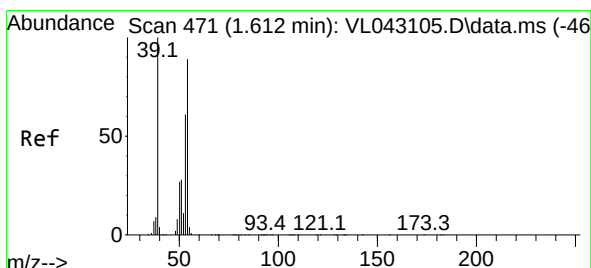
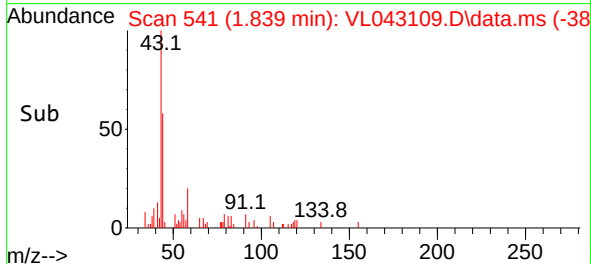
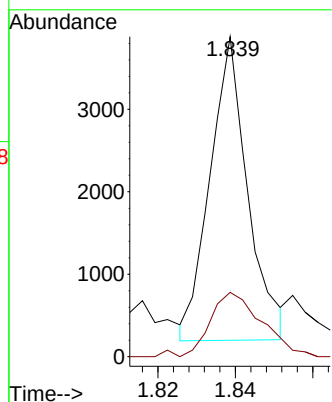
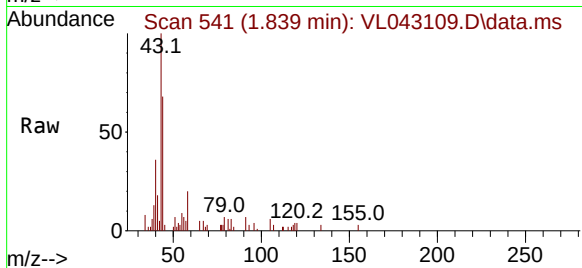
VSTDICC0.1

Tgt Ion: 43 Resp: 2487

Ion Ratio Lower Upper

43 100

58 29.5 20.8 31.2



#16

1,3-Butadiene

Concen: 0.120 ppbv

RT: 1.612 min Scan# 471

Delta R.T. -0.000 min

Lab File: VL043109.D

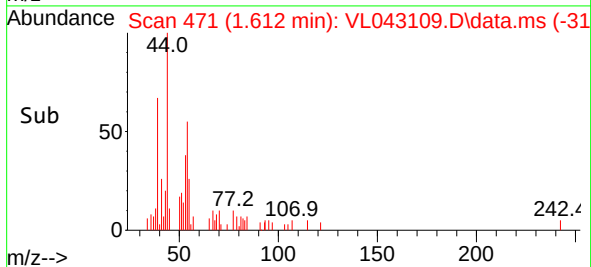
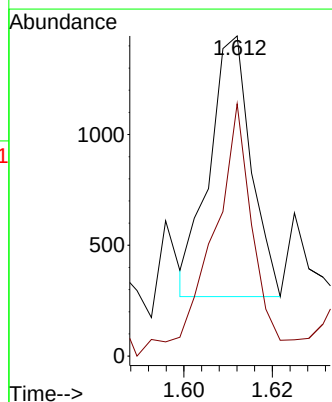
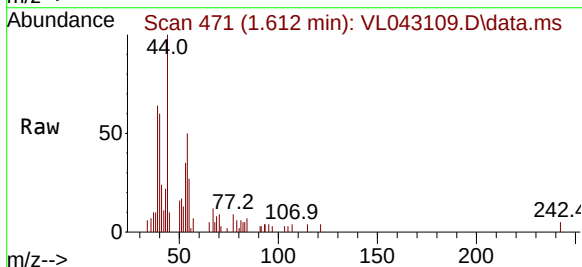
Acq: 14 Oct 2025 13:08

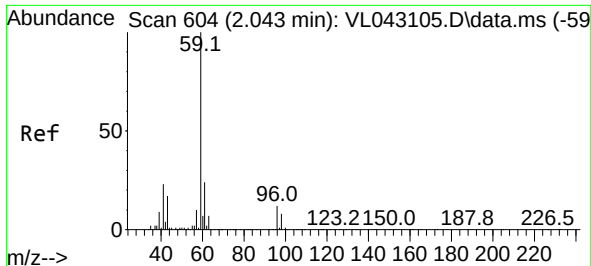
Tgt Ion: 39 Resp: 770

Ion Ratio Lower Upper

39 100

54 116.8 59.0 88.4#





#17

tert-Butyl alcohol

Concen: 0.124 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

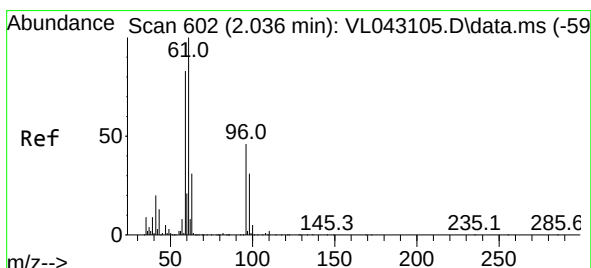
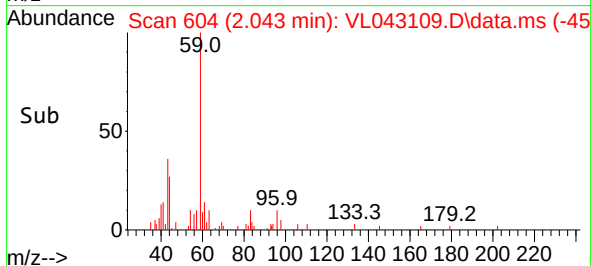
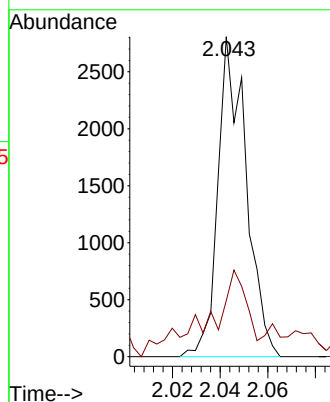
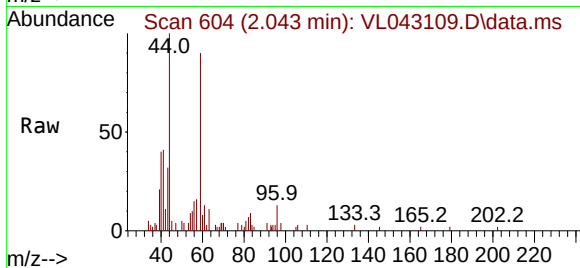
VSTDICC0.1

Tgt Ion: 59 Resp: 2301

Ion Ratio Lower Upper

59 100

57 46.6 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.148 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

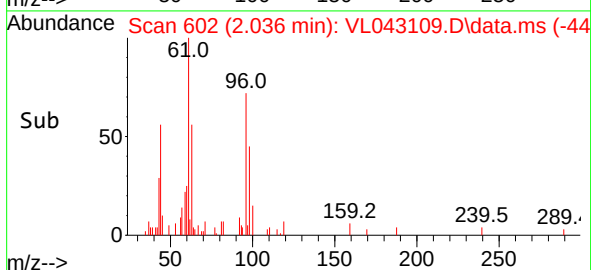
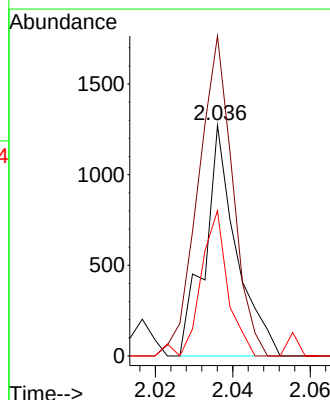
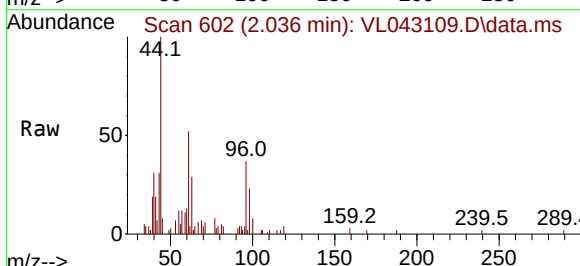
Tgt Ion: 96 Resp: 720

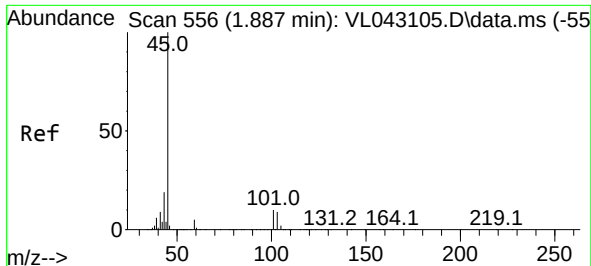
Ion Ratio Lower Upper

96 100

61 149.8 173.4 260.0#

98 63.0 53.2 79.8

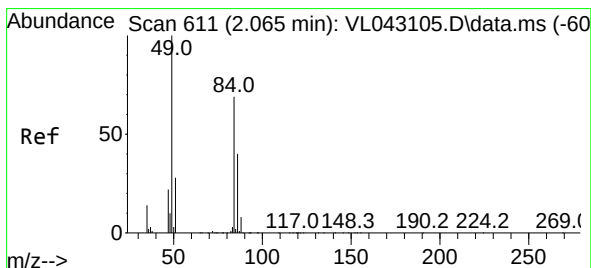
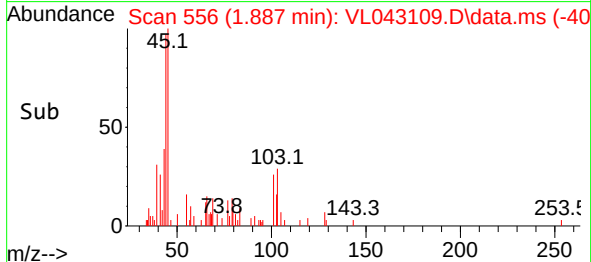
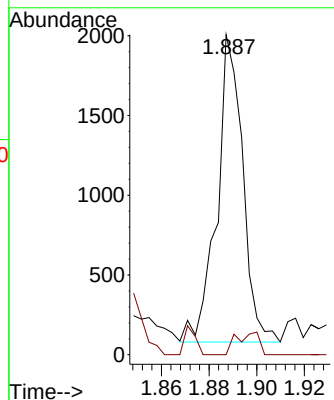
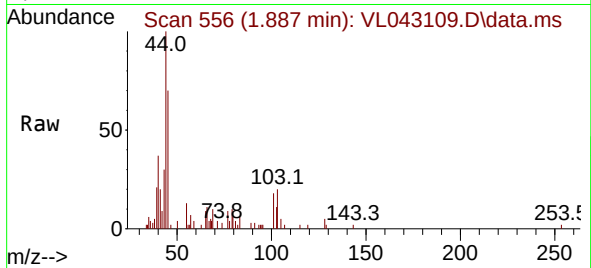




#19
Isopropyl Alcohol
Concen: 0.172 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

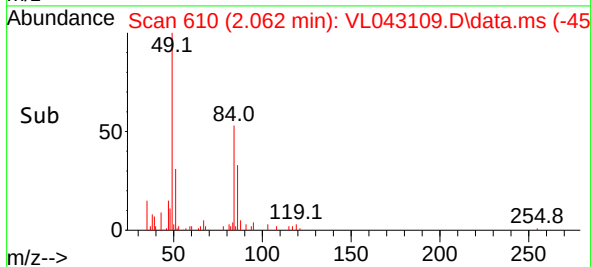
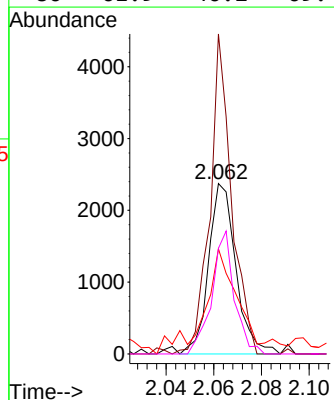
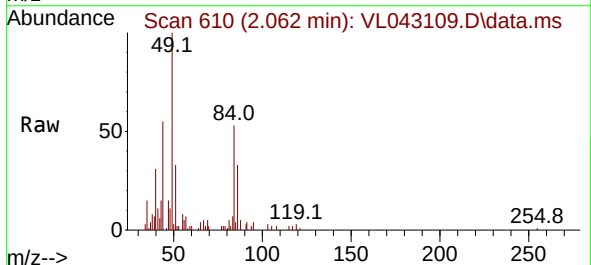
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

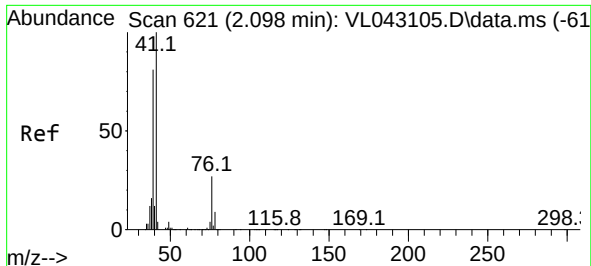
Tgt Ion: 45 Resp: 1443
Ion Ratio Lower Upper
45 100
58 10.5 31.3 46.9#



#20
Methylene Chloride
Concen: 0.355 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 84 Resp: 1890
Ion Ratio Lower Upper
84 100
49 183.9 116.6 175.0#
51 55.8 34.8 52.2#
86 61.9 46.2 69.4

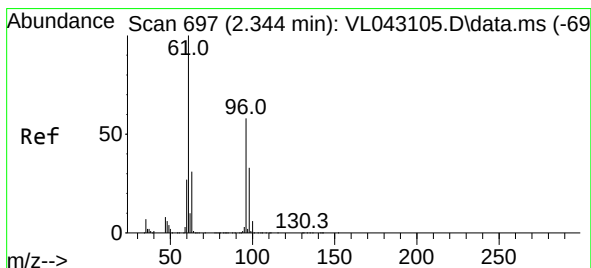
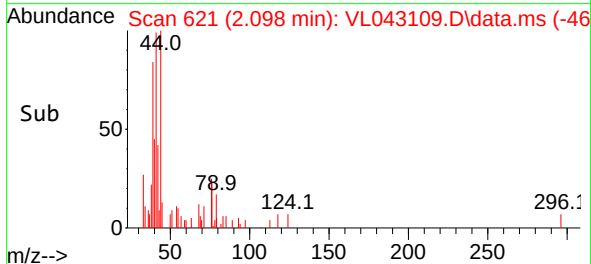
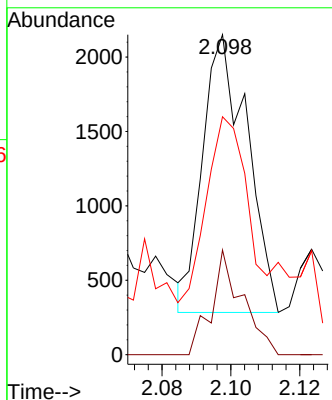
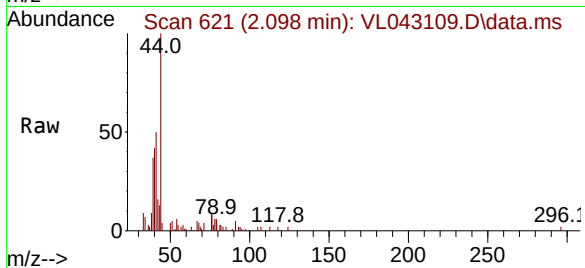




#21
 Allyl Chloride
 Concen: 0.167 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

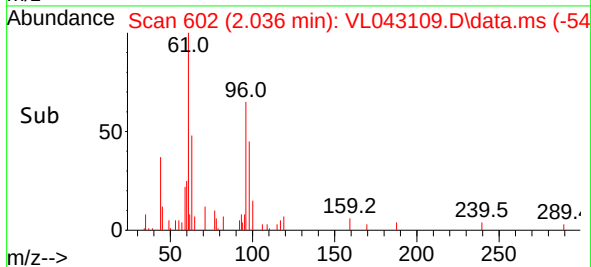
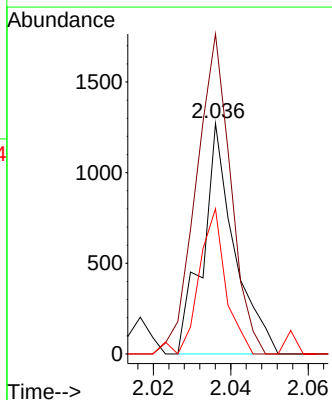
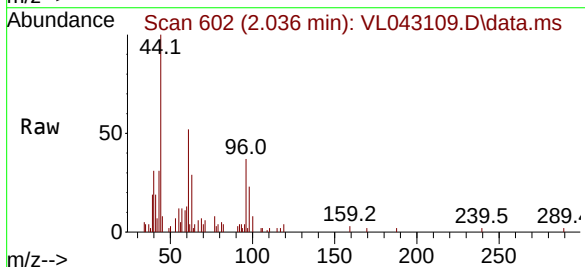
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

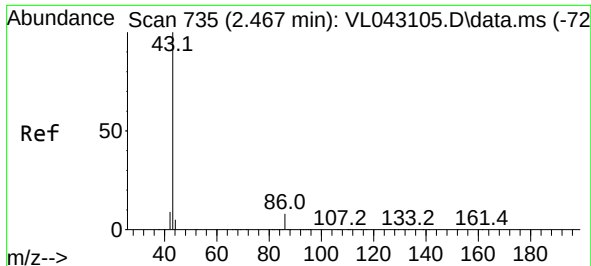
Tgt Ion:	41	Resp:	1664
Ion	Ratio	Lower	Upper
41	100		
76	26.4	21.5	32.3
39	142.1	60.8	91.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.123 ppbv
 RT: 2.036 min Scan# 602
 Delta R.T. -0.308 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion:	96	Resp:	720
Ion	Ratio	Lower	Upper
96	100		
61	149.8	137.0	205.6
98	63.0	45.5	68.3

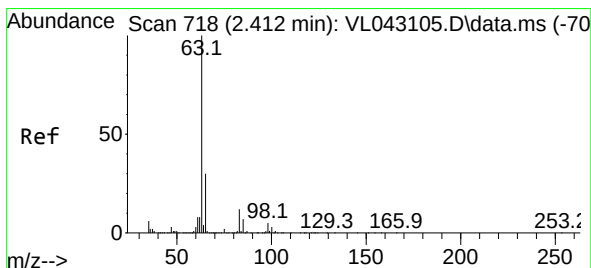
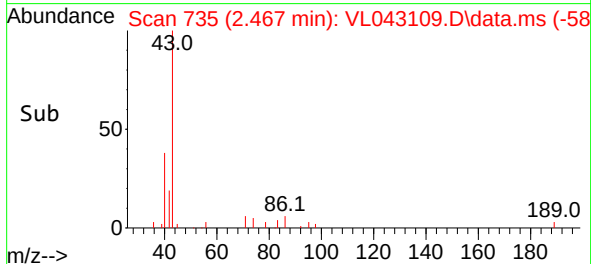
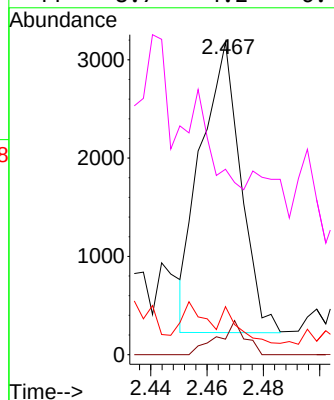
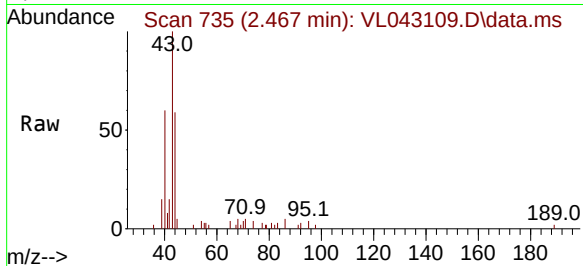




#23
 Vinyl Acetate
 Concen: 0.148 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

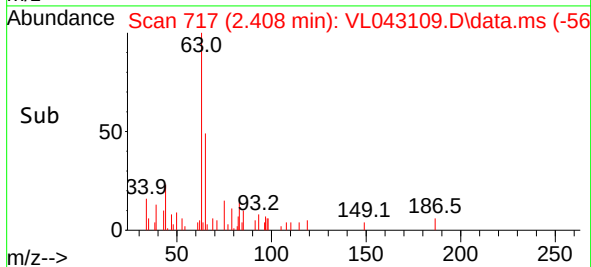
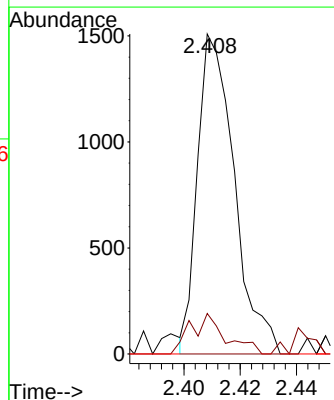
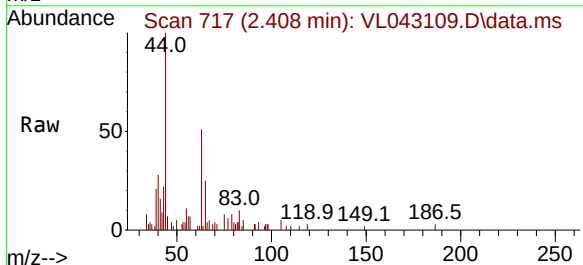
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

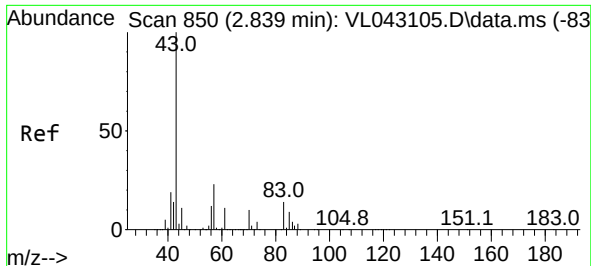
Tgt Ion:	43	Resp:	2916
Ion	Ratio	Lower	Upper
43	100		
86	5.4	6.2	9.2#
42	5.5	7.6	11.4#
44	8.7	4.2	6.4#



#24
 1,1-Dichloroethane
 Concen: 0.121 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion:	63	Resp:	1367
Ion	Ratio	Lower	Upper
63	100		
98	8.5	2.6	7.8#
100	0.0	1.5	4.4#

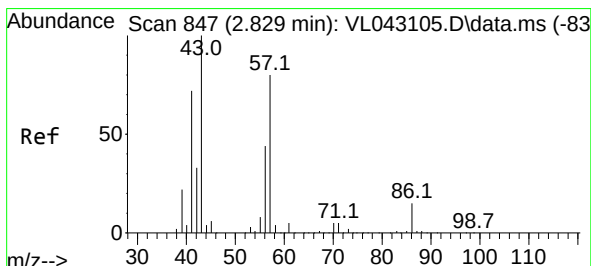
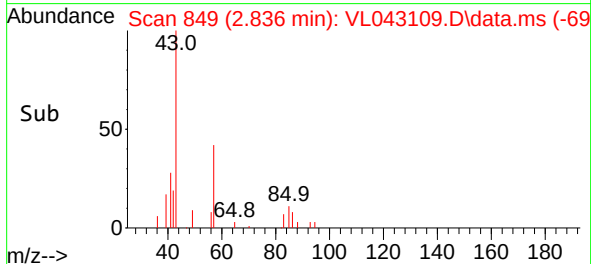
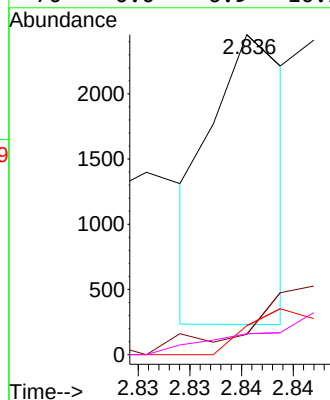
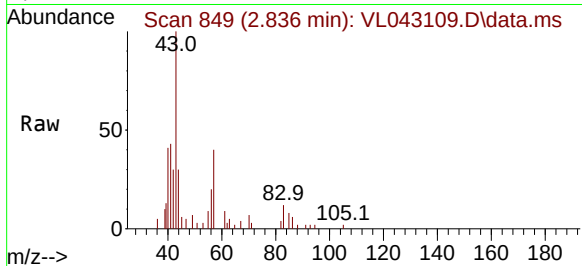




#25
Ethyl Acetate
Concen: 0.033 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

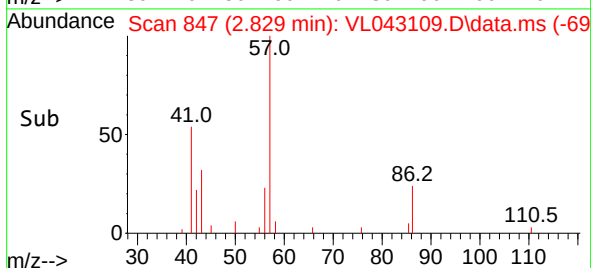
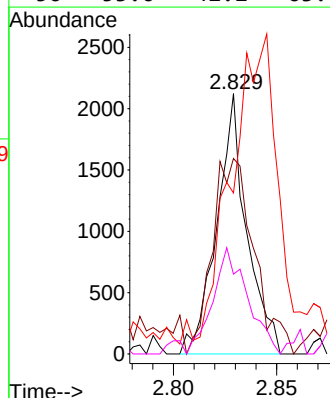
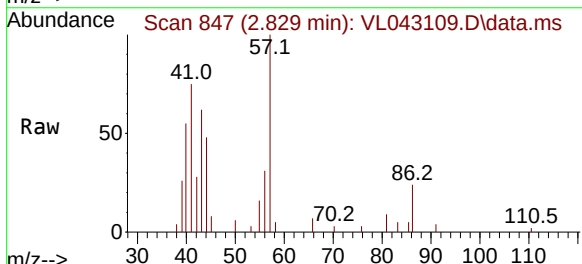
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

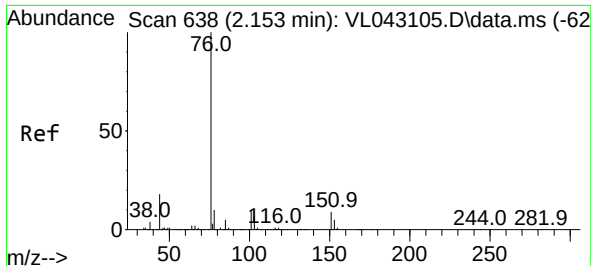
Tgt Ion: 43	Resp: 1114
Ion Ratio	Lower Upper
43 100	
45 0.0	7.8 11.8#
61 27.3	7.0 10.6#
70 0.0	6.9 10.3#



#26
Hexane
Concen: 0.139 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 57	Resp: 2134
Ion Ratio	Lower Upper
57 100	
41 106.3	71.4 107.0
43 219.9	178.5 267.7
56 53.6	42.2 63.4

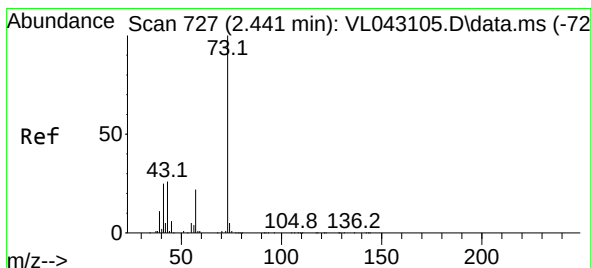
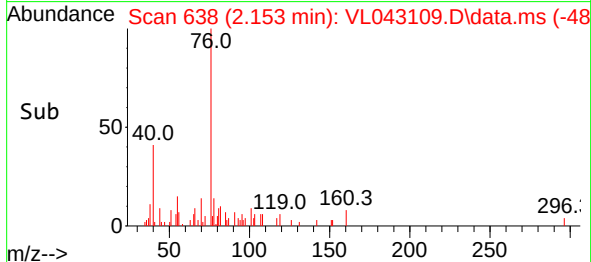
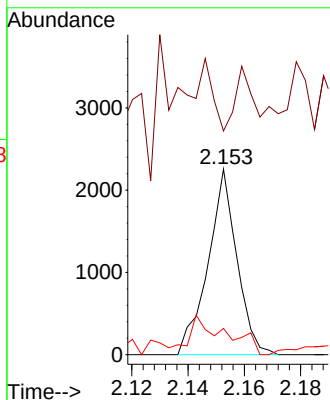
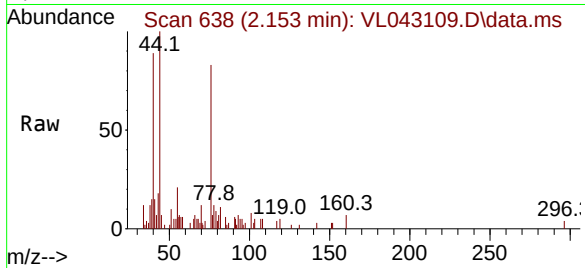




#27
Carbon Disulfide
Concen: 0.114 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

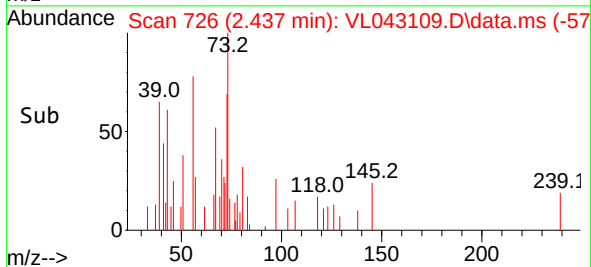
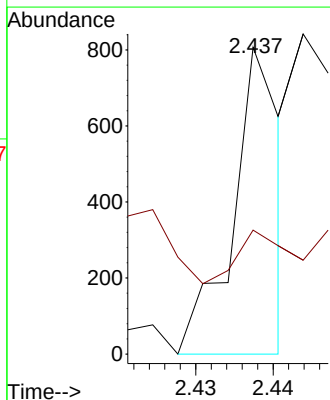
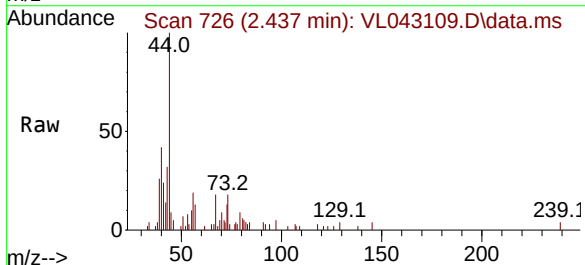
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

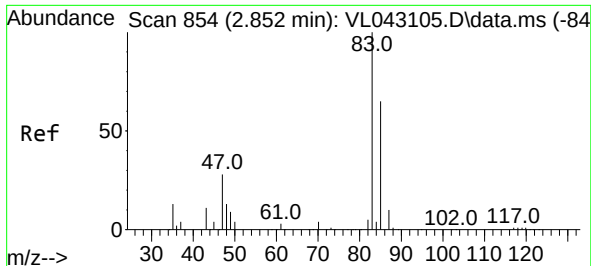
Tgt Ion: 76 Resp: 1609
Ion Ratio Lower Upper
76 100
44 164.6 16.7 25.1#
78 37.2 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.050 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 73 Resp: 351
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#





#29

Chloroform

Concen: 0.055 ppbv

RT: 2.855 min Scan# 8

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_L

ClientSampleId :

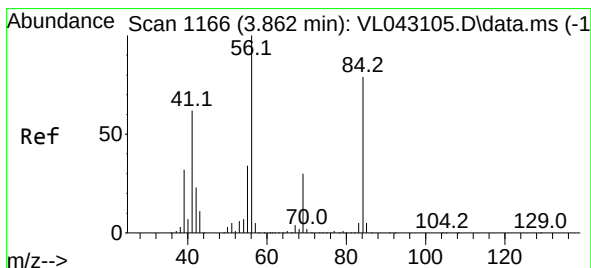
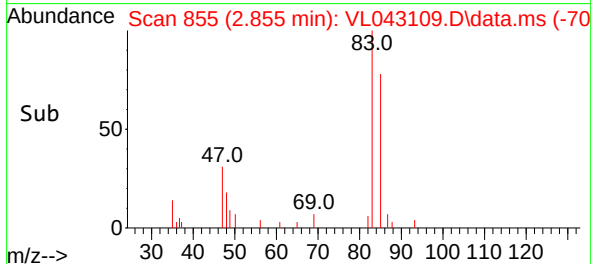
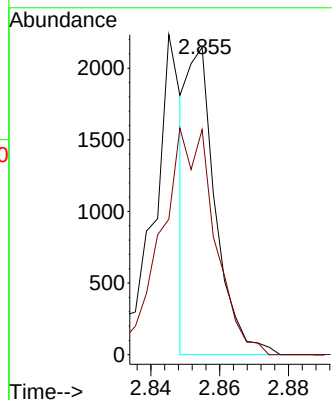
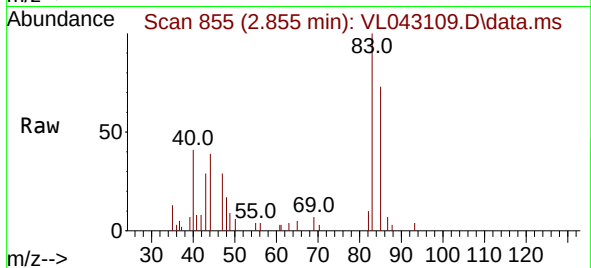
VSTDICC0.1

Tgt Ion: 83 Resp: 1225

Ion Ratio Lower Upper

83 100

85 73.3 51.8 77.6



#30

Cyclohexane

Concen: 0.025 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

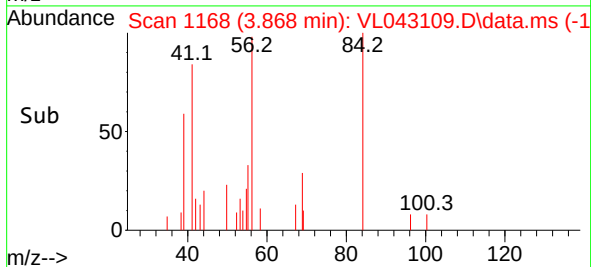
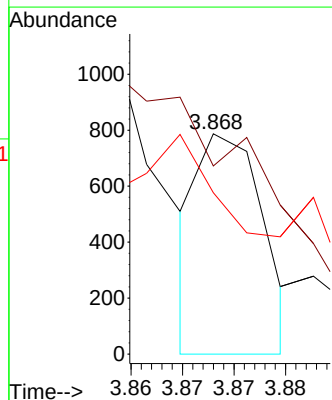
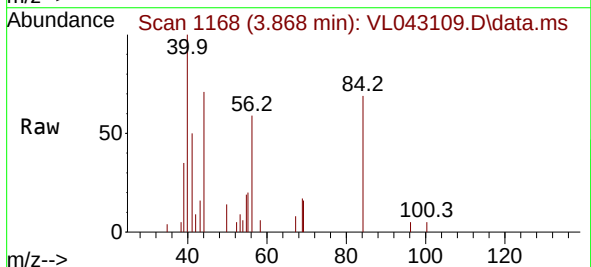
Tgt Ion: 84 Resp: 340

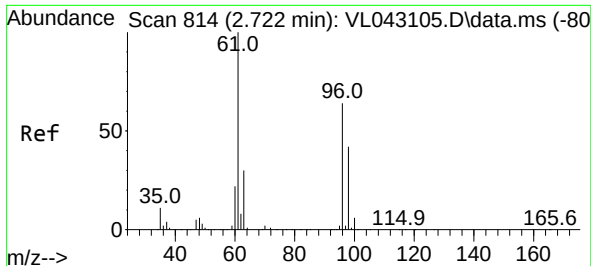
Ion Ratio Lower Upper

84 100

56 0.0 100.9 151.3#

41 578.5 63.8 95.6#

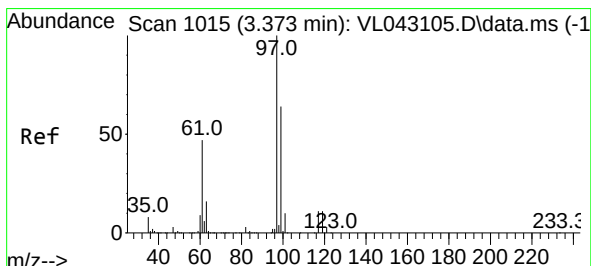
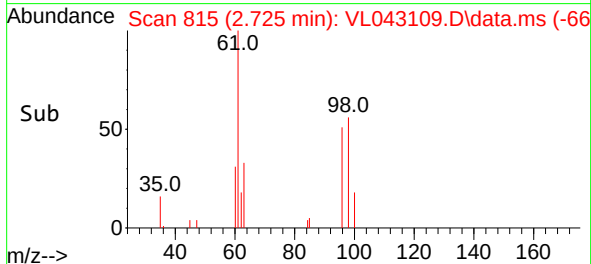
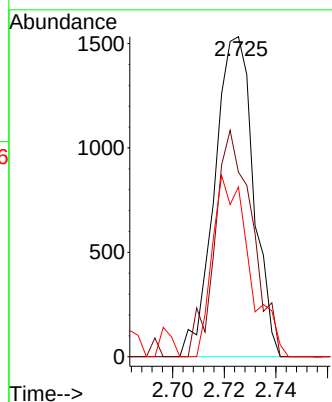
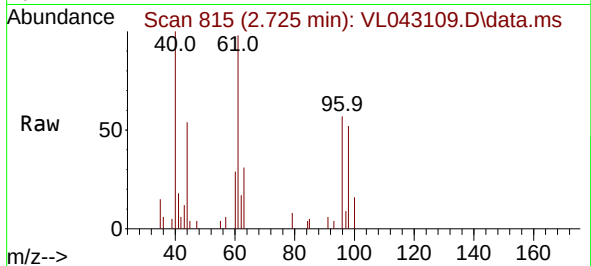




#31
 cis-1,2-Dichloroethene
 Concen: 0.109 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

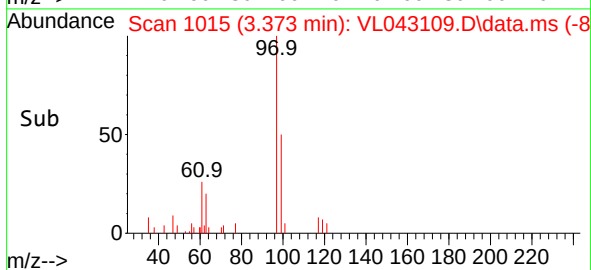
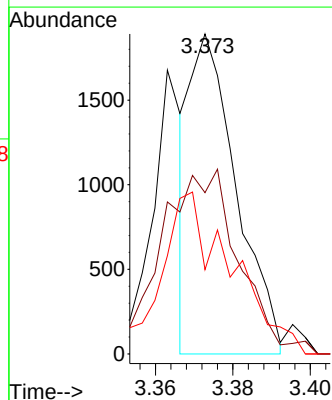
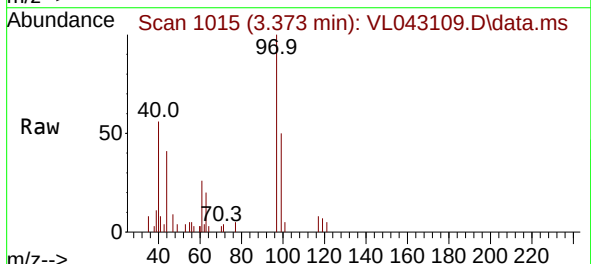
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

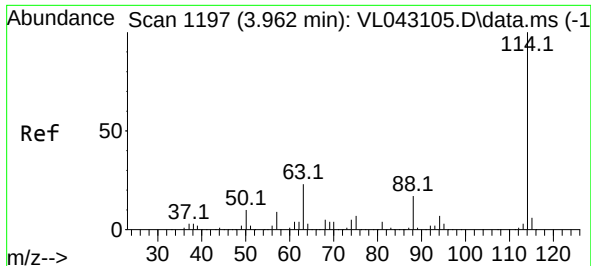
Tgt Ion: 61 Resp: 1605
 Ion Ratio Lower Upper
 61 100
 96 57.7 51.0 76.6
 98 53.0 33.5 50.3#



#32
 1,1,1-Trichloroethane
 Concen: 0.068 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 97 Resp: 1581
 Ion Ratio Lower Upper
 97 100
 99 94.8 51.3 76.9#
 61 76.3 38.4 57.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

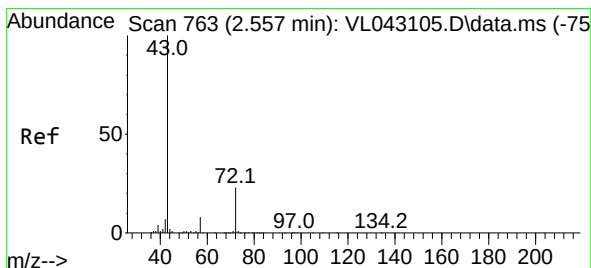
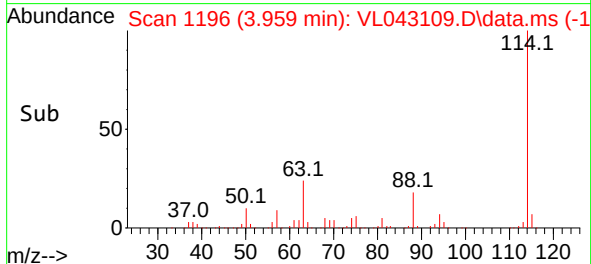
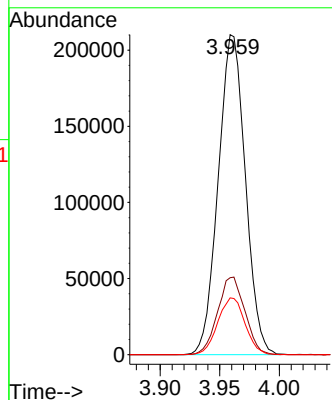
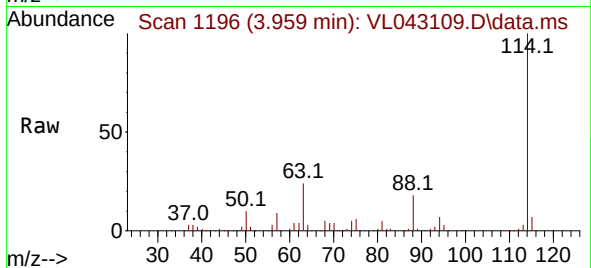
Tgt Ion:114 Resp: 332574

Ion Ratio Lower Upper

114 100

63 24.3 19.3 28.9

88 17.9 13.9 20.9



#34

2-Butanone

Concen: 0.114 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043109.D

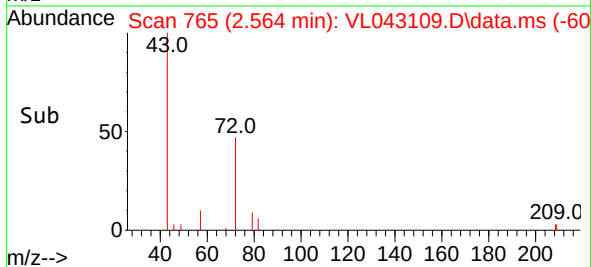
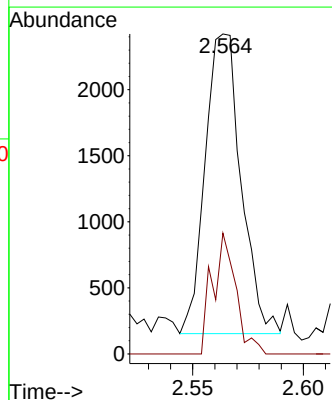
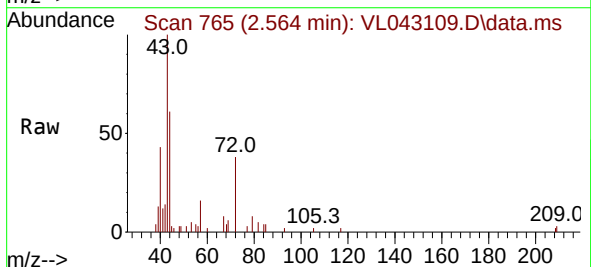
Acq: 14 Oct 2025 13:08

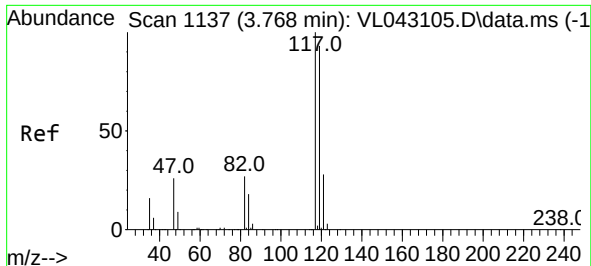
Tgt Ion: 43 Resp: 2560

Ion Ratio Lower Upper

43 100

72 26.1 18.4 27.6

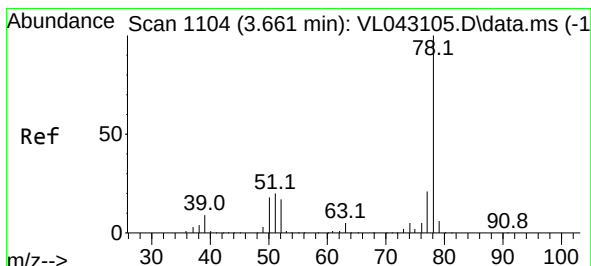
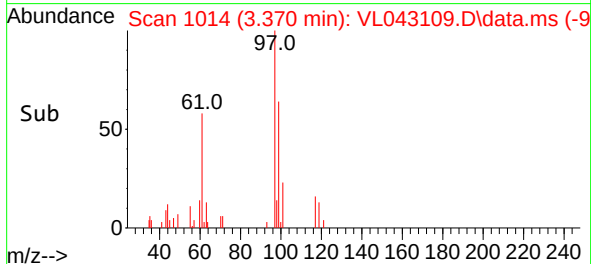
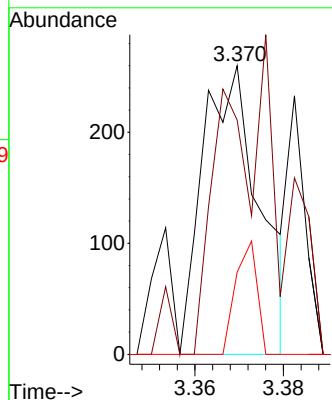
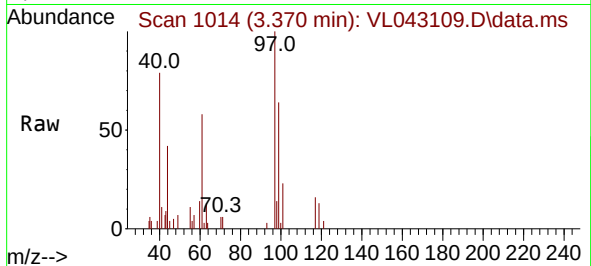




#35
Carbon Tetrachloride
Concen: 0.010 ppbv
RT: 3.370 min Scan# 1103
Delta R.T. -0.398 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

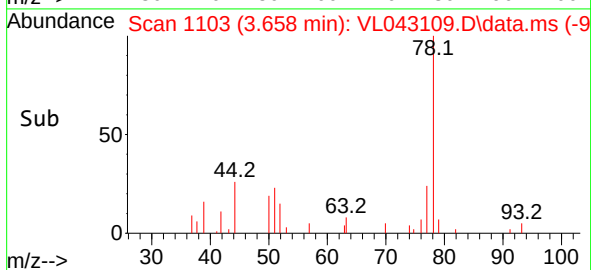
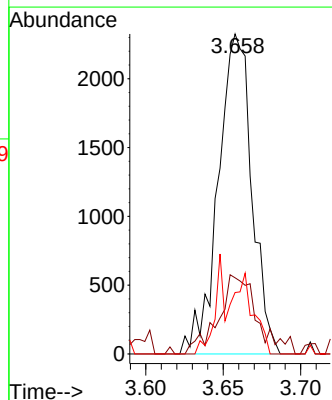
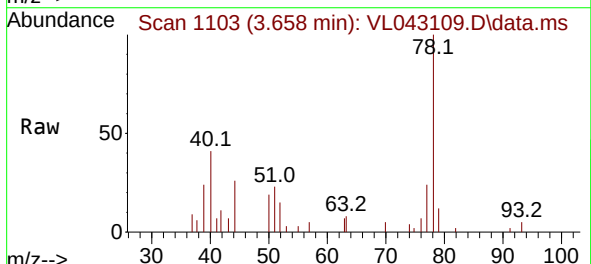
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

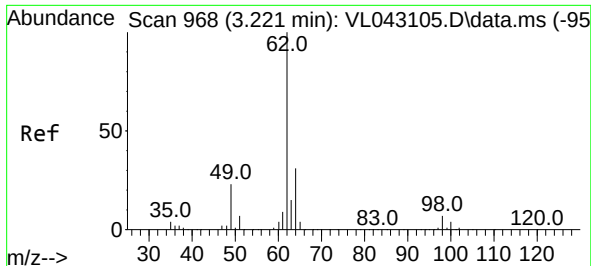
Tgt Ion:117 Resp: 231
Ion Ratio Lower Upper
117 100
119 81.2 74.1 111.1
121 28.5 22.2 33.2



#36
Benzene
Concen: 0.112 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 78 Resp: 3507
Ion Ratio Lower Upper
78 100
77 23.8 17.0 25.6
50 19.2 14.6 22.0

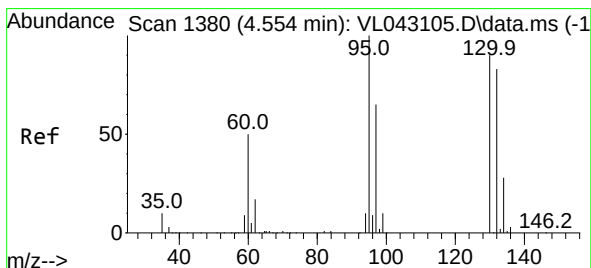
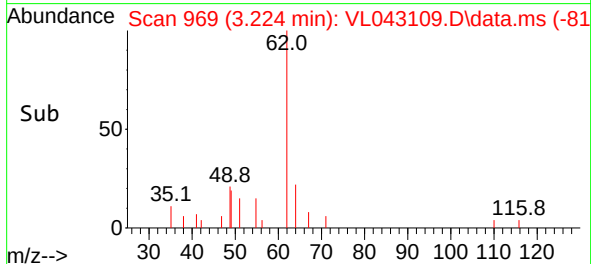
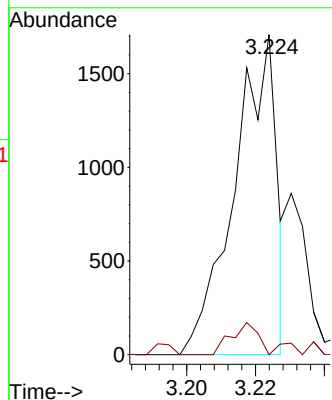
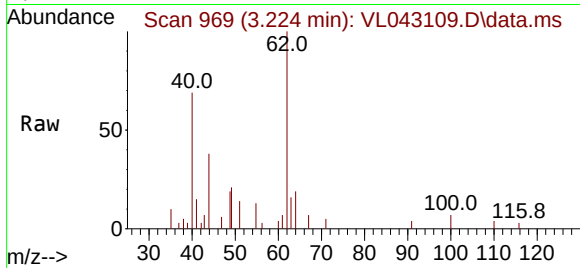




#37
1,2-Dichloroethane
Concen: 0.080 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

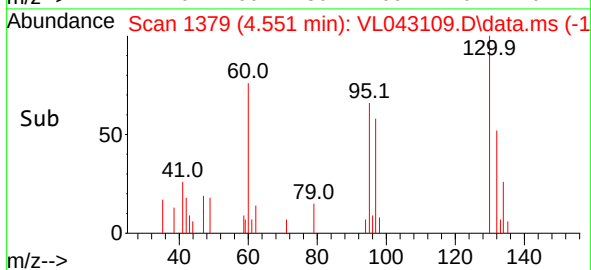
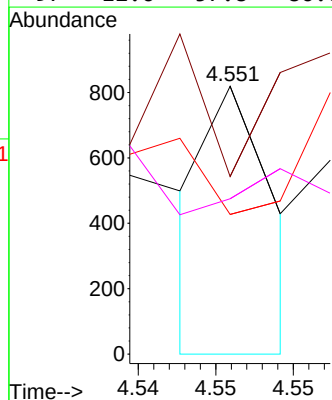
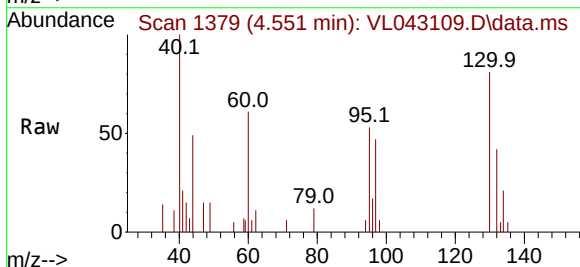
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

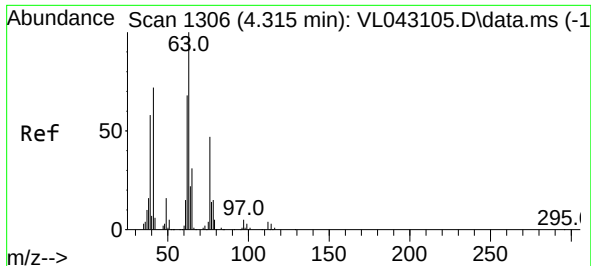
Tgt Ion: 62 Resp: 1448
Ion Ratio Lower Upper
62 100
98 9.5 5.8 8.6#



#38
Trichloroethene
Concen: 0.019 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:130 Resp: 242
Ion Ratio Lower Upper
130 100
95 0.0 88.6 133.0#
132 0.0 73.4 110.0#
97 12.6 57.8 86.6#





#39

1,2-Dichloropropane

Concen: 7.054 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.353 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

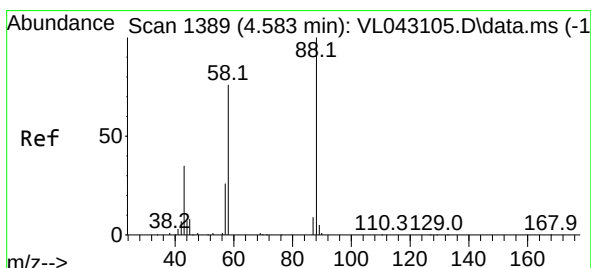
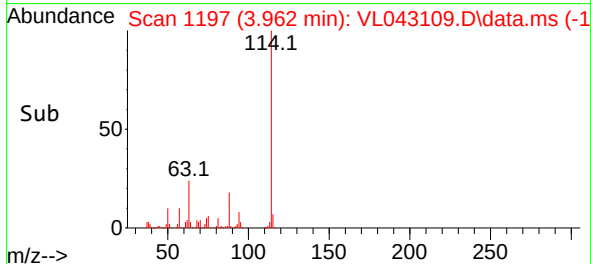
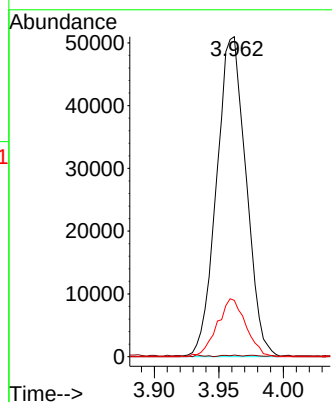
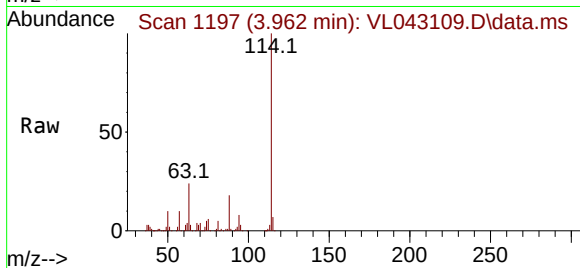
Tgt Ion: 63 Resp: 80849

Ion Ratio Lower Upper

63 100

41 0.5 58.0 87.0#

62 17.6 54.7 82.1#



#40

1,4-Dioxane

Concen: 0.066 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.026 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion: 88 Resp: 339

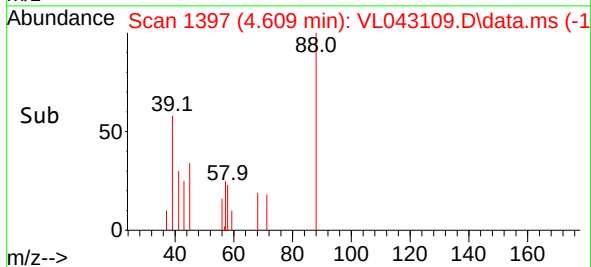
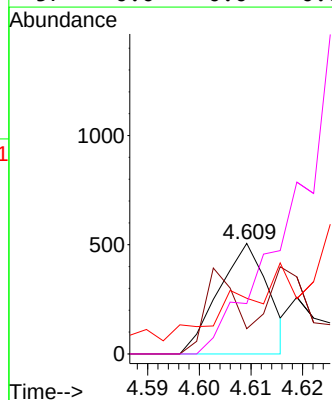
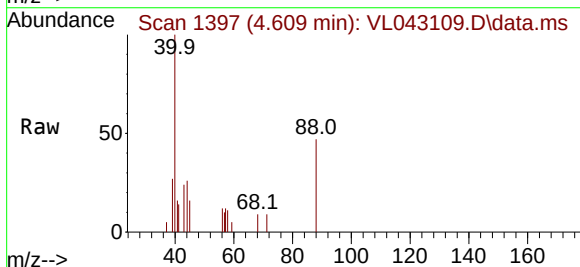
Ion Ratio Lower Upper

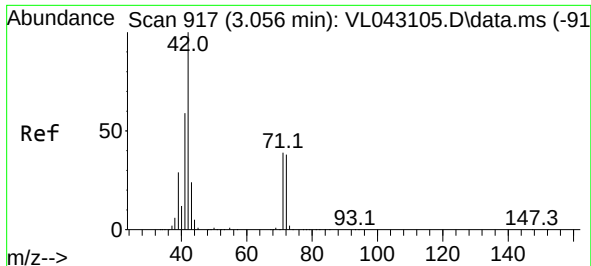
88 100

58 14.2 61.1 91.7#

43 48.4 24.0 36.0#

57 0.0 0.0 0.0

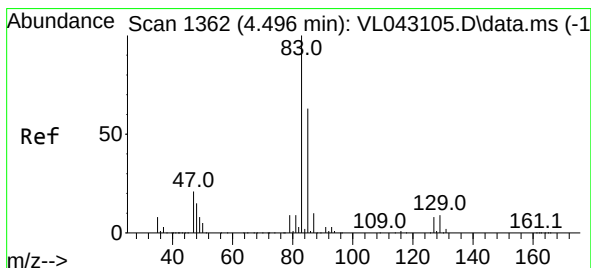
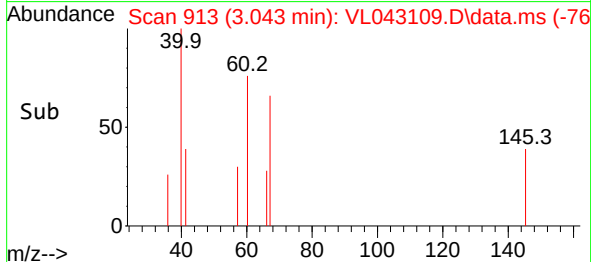
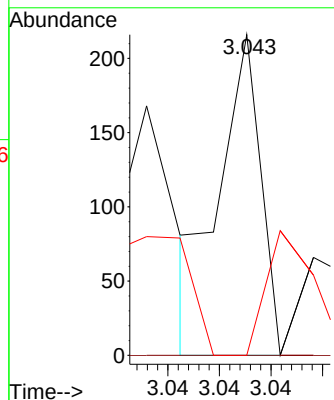
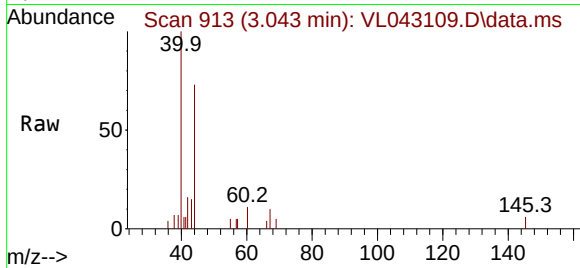




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.043 min Scan# 917
Delta R.T. -0.013 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

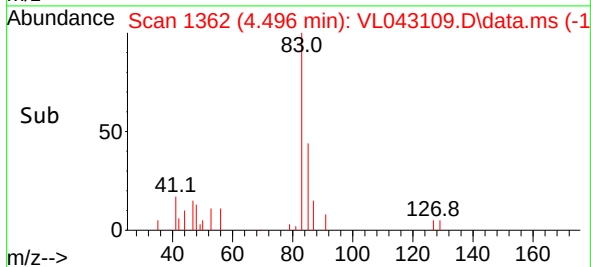
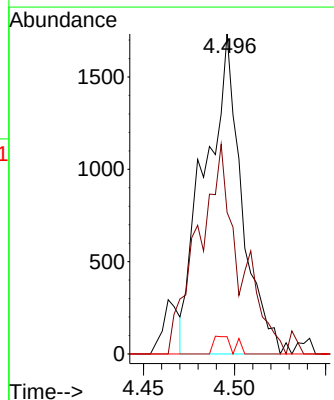
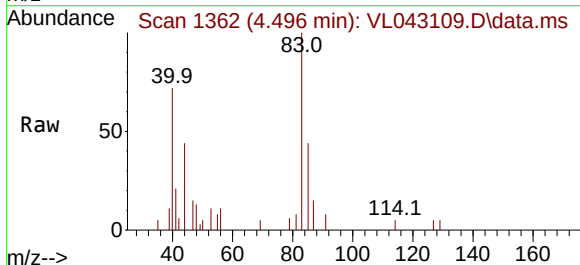
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

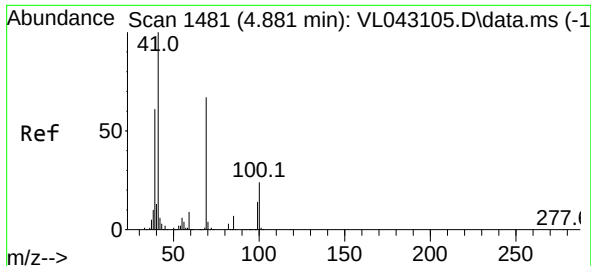
Tgt Ion: 42 Resp: 58
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9#
71 0.0 30.4 45.6#



#42
Bromodichloromethane
Concen: 0.098 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 83 Resp: 2440
Ion Ratio Lower Upper
83 100
85 40.1 50.6 75.8#
127 5.4 6.3 9.5#

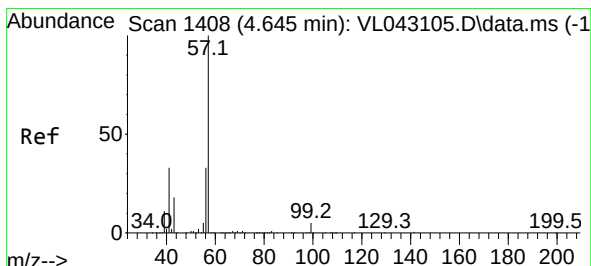
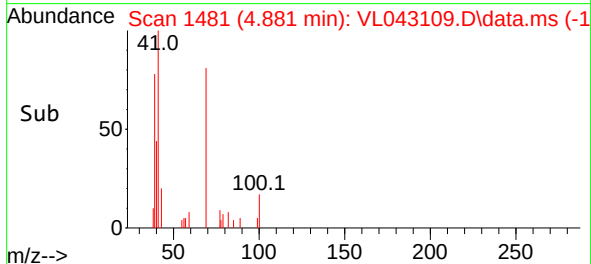
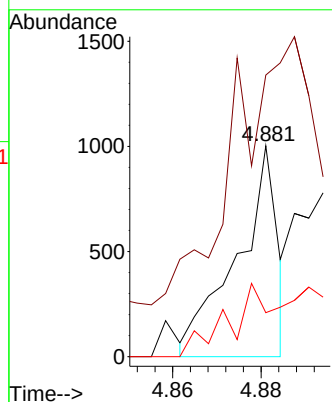
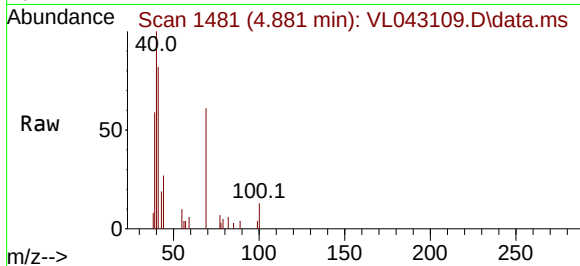




#43
Methyl Methacrylate
Concen: 0.040 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

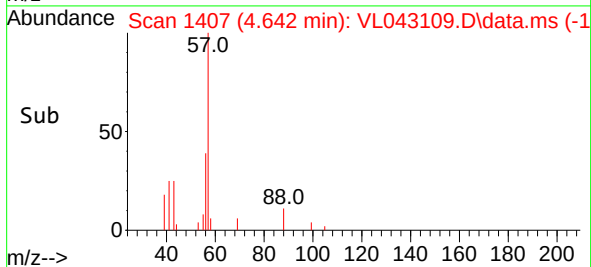
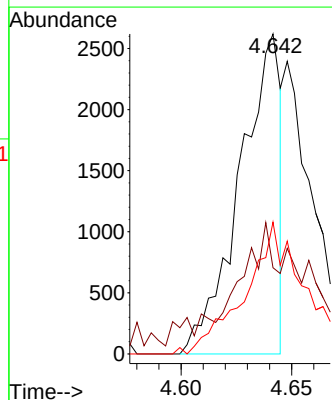
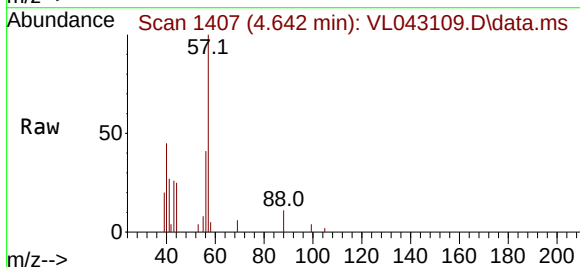
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

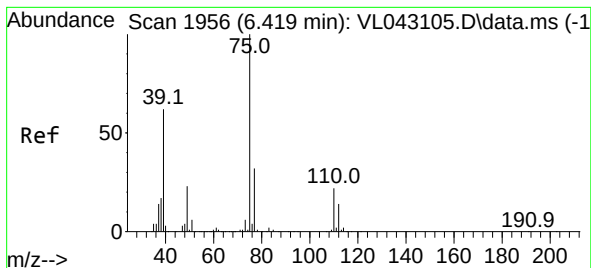
Tgt Ion: 69 Resp: 636
Ion Ratio Lower Upper
69 100
41 0.0 120.5 180.7#
100 0.0 29.0 43.4#



#44
2,2,4-Trimethylpentane
Concen: 0.064 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 57 Resp: 3354
Ion Ratio Lower Upper
57 100
41 68.1 26.3 39.5#
56 59.0 25.9 38.9#





#45

t-1,3-Dichloropropene

Concen: 0.039 ppbv

RT: 6.425 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

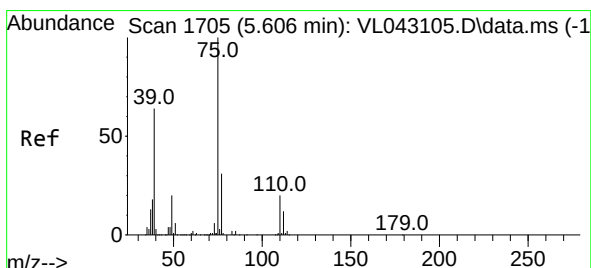
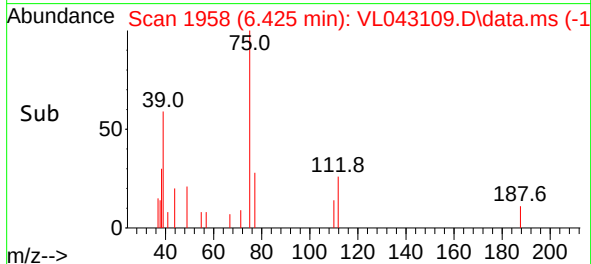
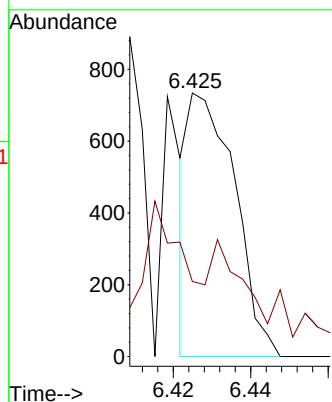
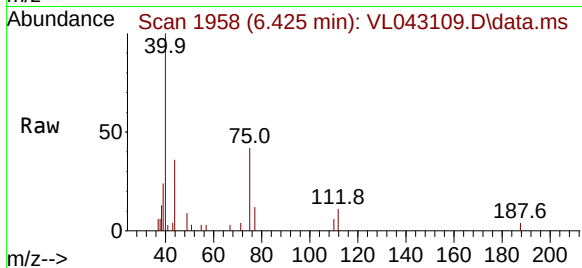
VSTDIC0.1

Tgt Ion: 75 Resp: 617

Ion Ratio Lower Upper

75 100

77 28.5 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 0.025 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.010 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

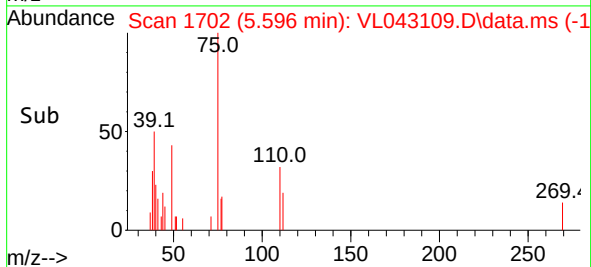
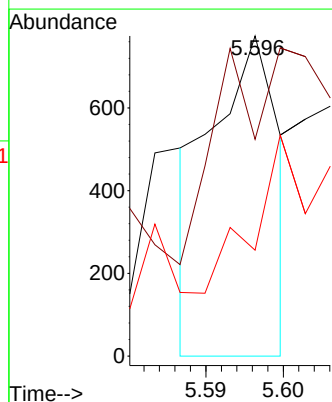
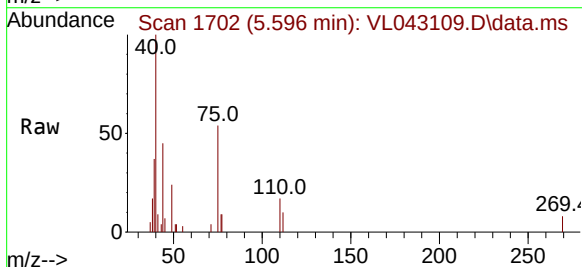
Tgt Ion: 75 Resp: 472

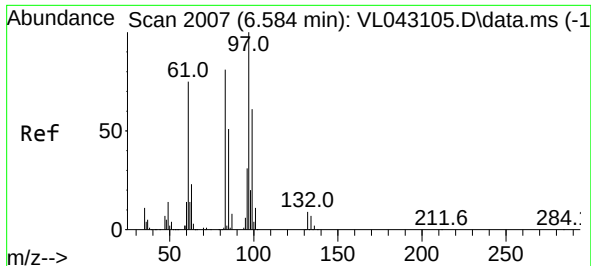
Ion Ratio Lower Upper

75 100

39 111.8 51.0 76.6#

77 37.6 25.0 37.4#

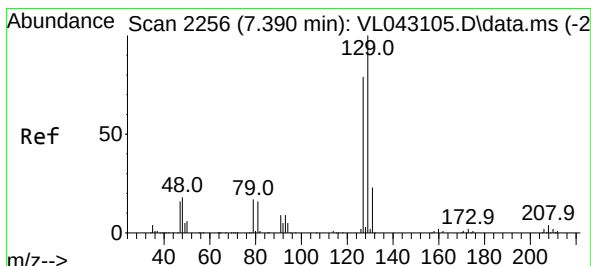
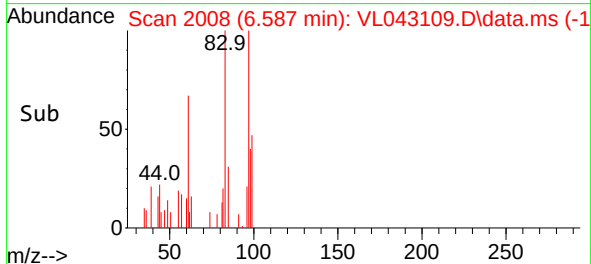
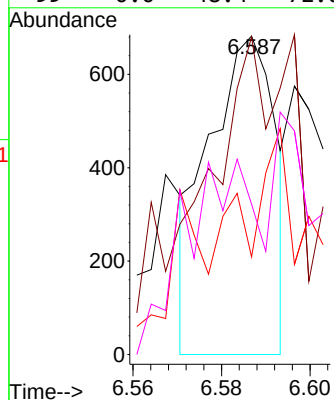
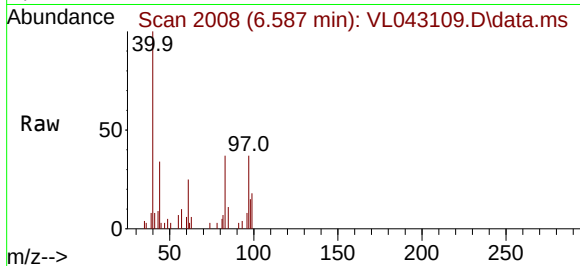




#47
1,1,2-Trichloroethane
Concen: 0.058 ppbv
RT: 6.587 min Scan# 2007
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

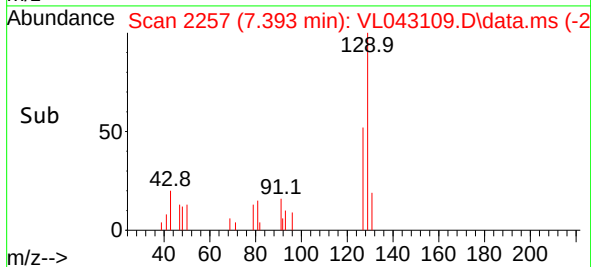
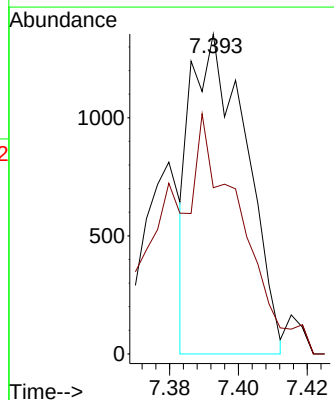
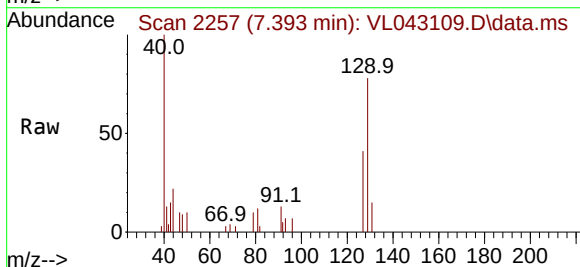
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

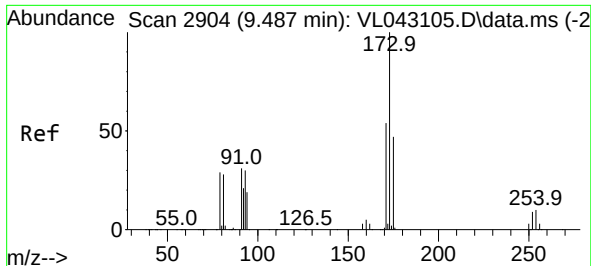
Tgt Ion: 97	Resp:	716
Ion	Ratio	Lower Upper
97	100	
83	117.6	64.6 96.8#
85	0.0	40.6 60.8#
99	0.0	48.4 72.6#



#48
Dibromochloromethane
Concen: 0.073 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 129	Resp:	1506
Ion	Ratio	Lower Upper
129	100	
127	102.8	39.3 117.9

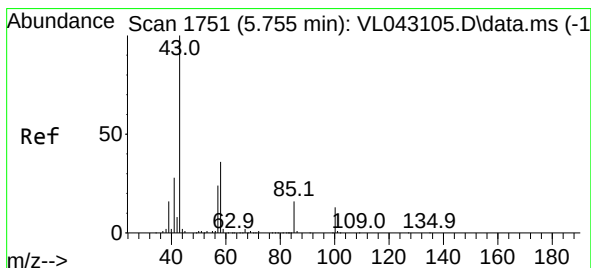
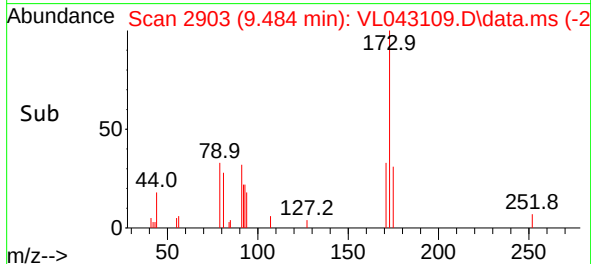
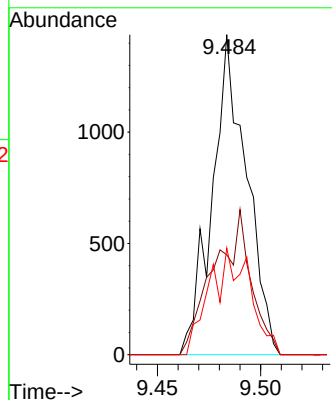
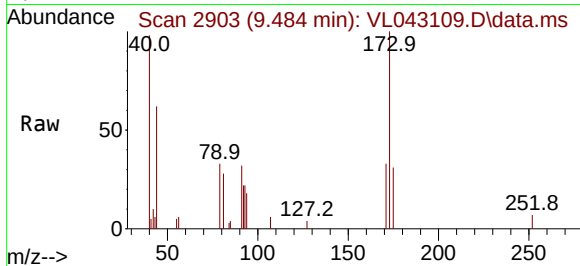




#49
Bromoform
Concen: 0.099 ppbv
RT: 9.484 min Scan# 2904
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

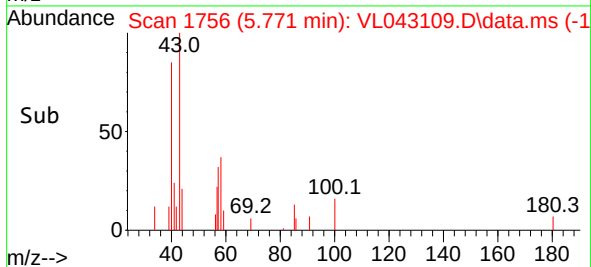
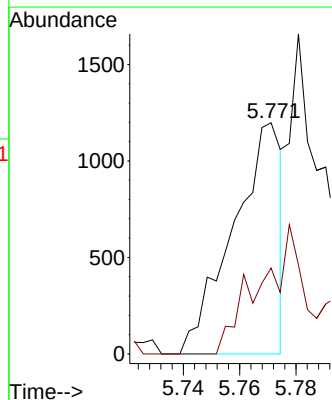
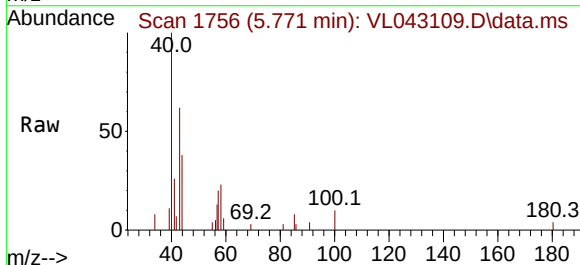
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

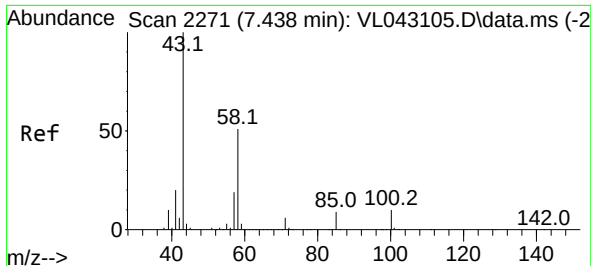
Tgt Ion:173 Resp: 1666
Ion Ratio Lower Upper
173 100
175 48.9 38.8 58.2
171 39.1 41.7 62.5#



#50
4-Methyl-2-Pentanone
Concen: 0.046 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#

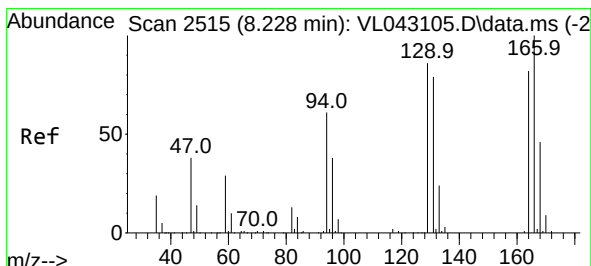
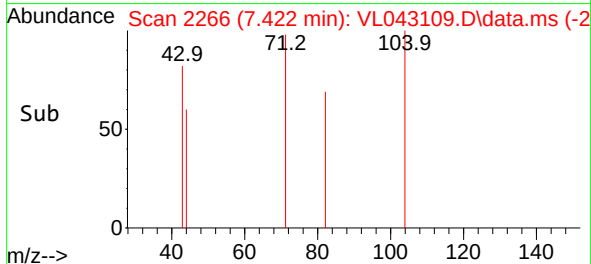
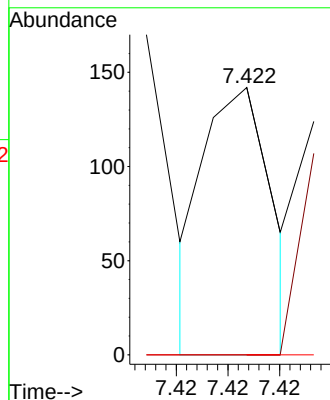
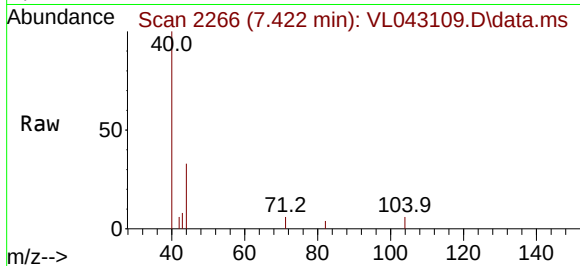




#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.422 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

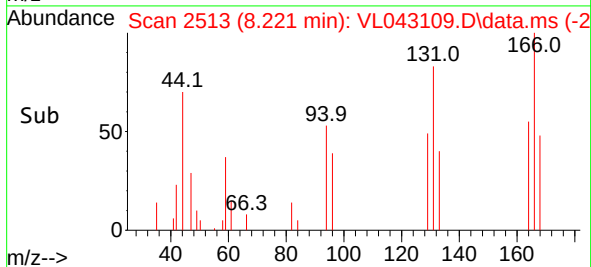
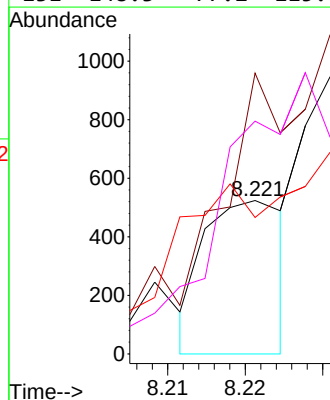
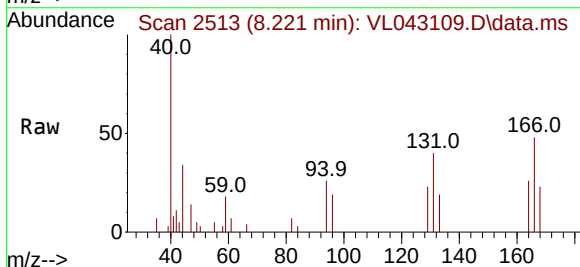
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

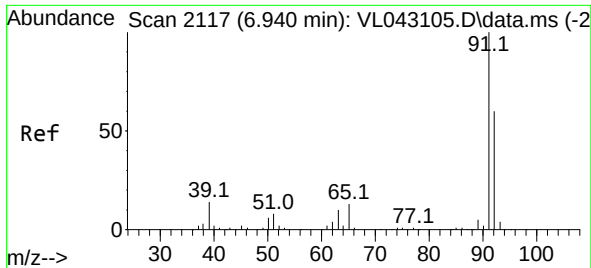
Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.033 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 164 Resp: 377
Ion Ratio Lower Upper
164 100
166 208.1 97.6 146.4#
129 0.0 84.5 126.7#
131 148.3 77.2 115.8#

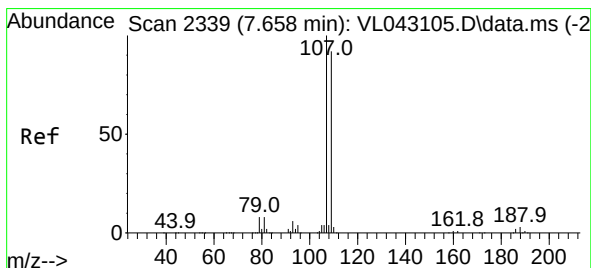
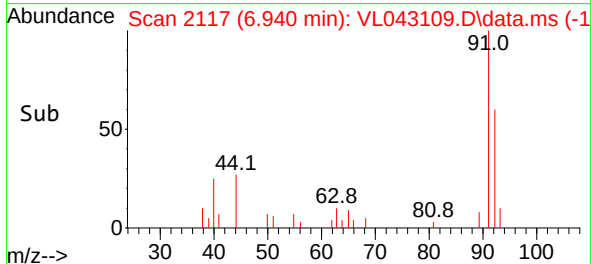
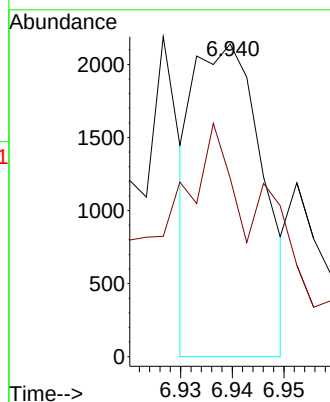
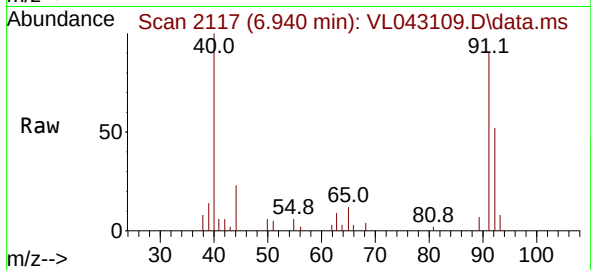




#53
Toluene
Concen: 0.053 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

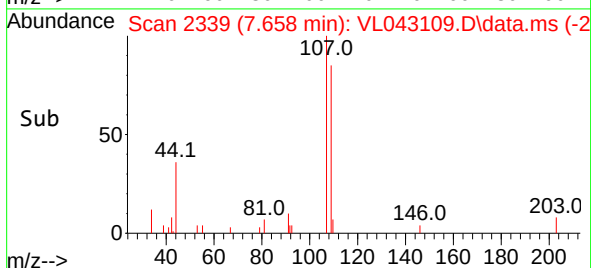
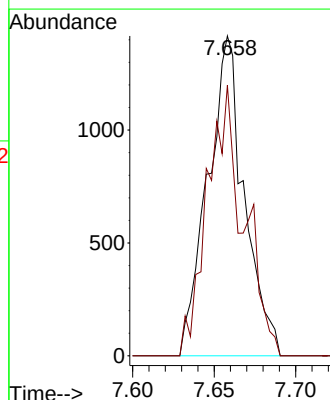
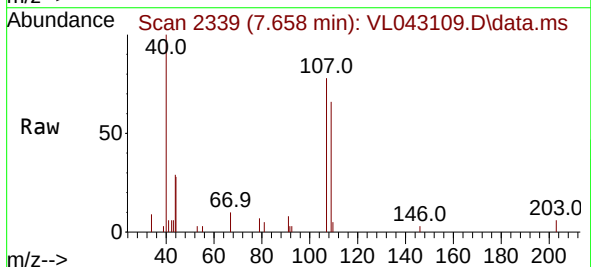
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

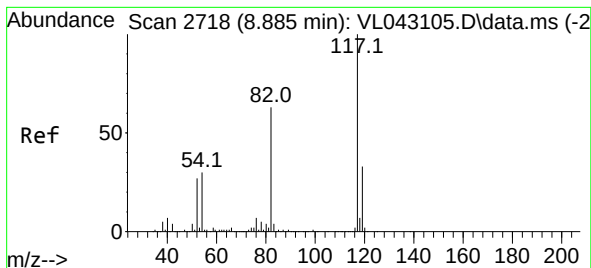
Tgt Ion: 91 Resp: 1973
Ion Ratio Lower Upper
91 100
92 130.1 48.8 73.2#



#54
1,2-Dibromoethane
Concen: 0.113 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 107 Resp: 2201
Ion Ratio Lower Upper
107 100
109 91.5 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2718

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

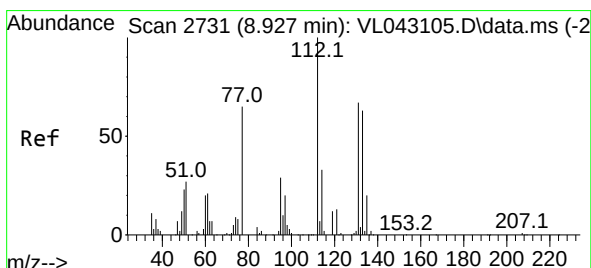
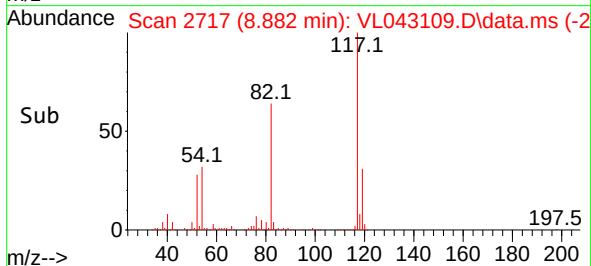
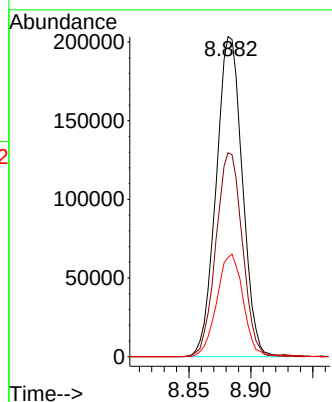
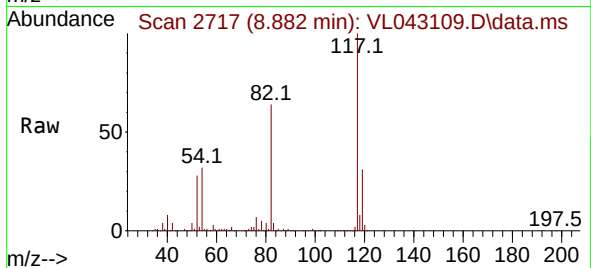
Tgt Ion:117 Resp: 299676

Ion Ratio Lower Upper

117 100

82 64.3 53.8 80.8

119 32.5 25.4 38.0



#56

1,1,1,2-Tetrachloroethane

Concen: 0.080 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

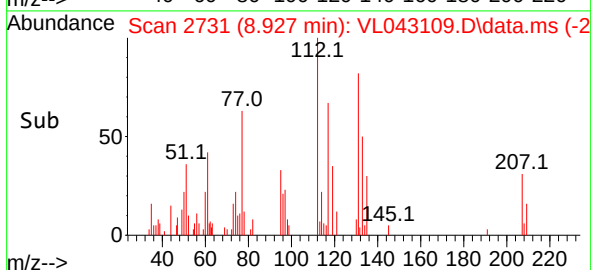
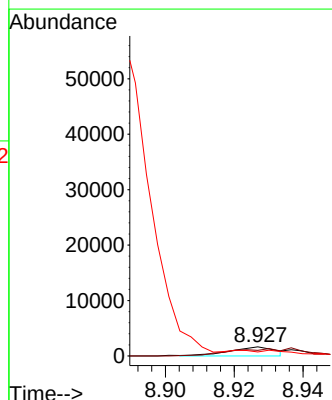
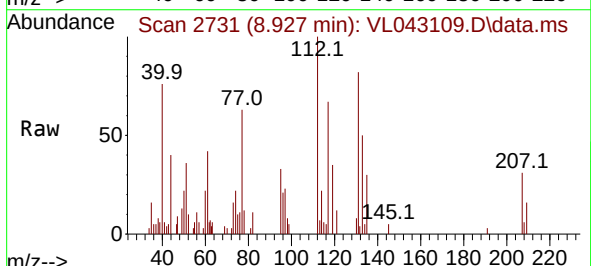
Tgt Ion:131 Resp: 1509

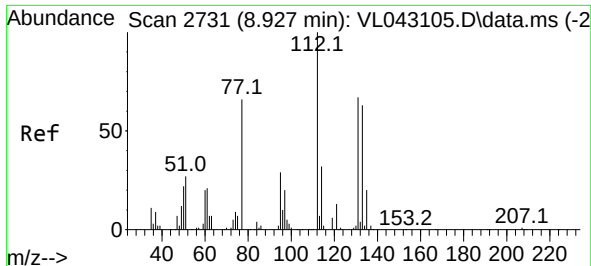
Ion Ratio Lower Upper

131 100

133 0.0 75.7 113.5#

119 0.0 50.6 76.0#





#57

Chlorobenzene

Concen: 0.113 ppbv

RT: 8.920 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

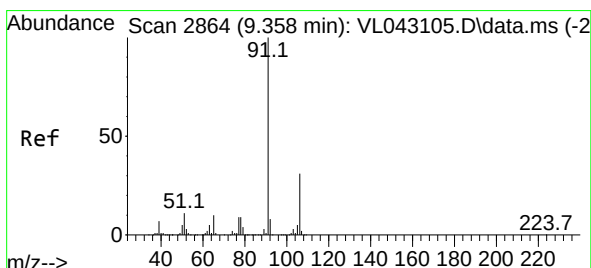
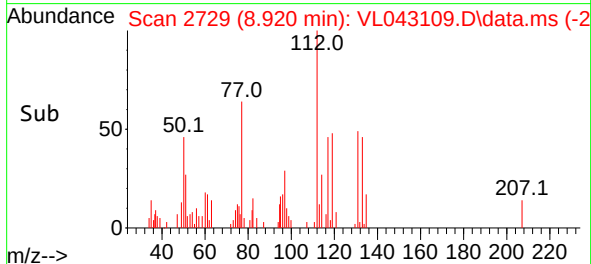
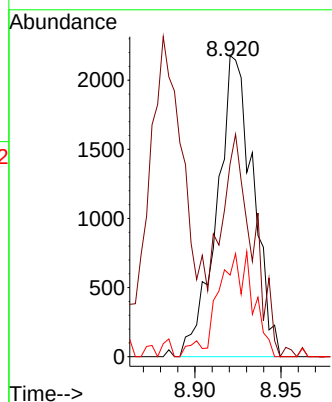
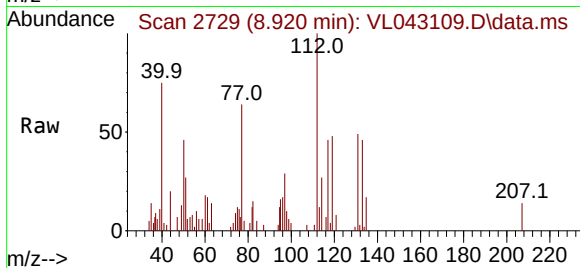
Tgt Ion:112 Resp: 3177

Ion Ratio Lower Upper

112 100

77 64.1 53.3 79.9

114 27.1 29.3 35.8#



#58

Ethyl Benzene

Concen: 0.100 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. -0.003 min

Lab File: VL043109.D

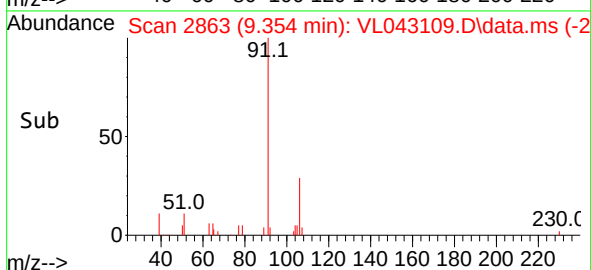
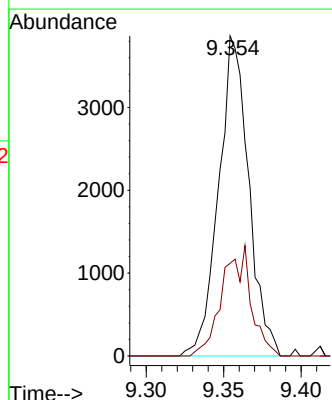
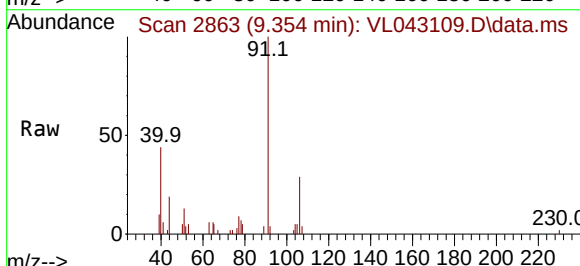
Acq: 14 Oct 2025 13:08

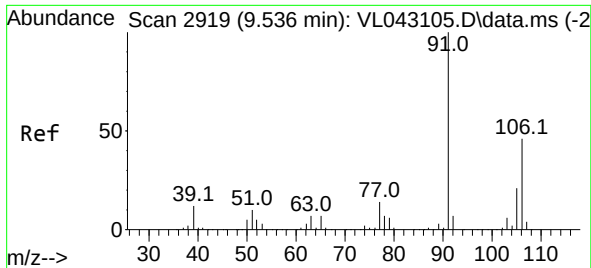
Tgt Ion: 91 Resp: 5210

Ion Ratio Lower Upper

91 100

106 29.0 24.8 37.2

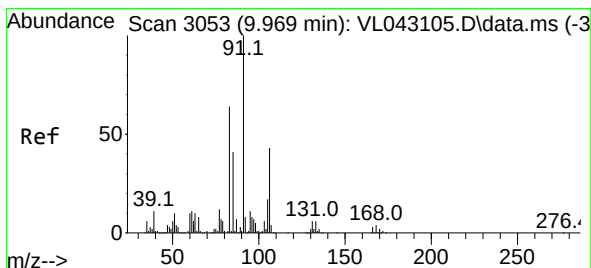
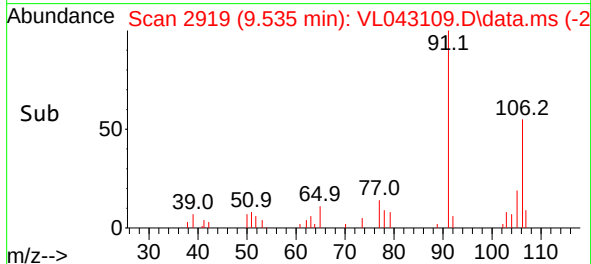
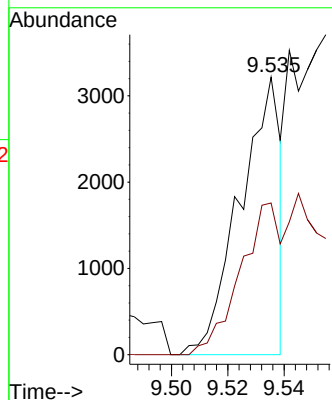
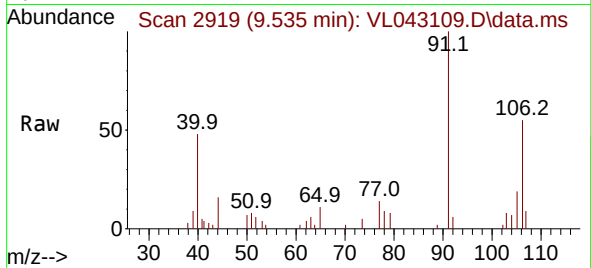




#59
m/p-Xylene
Concen: 0.078 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

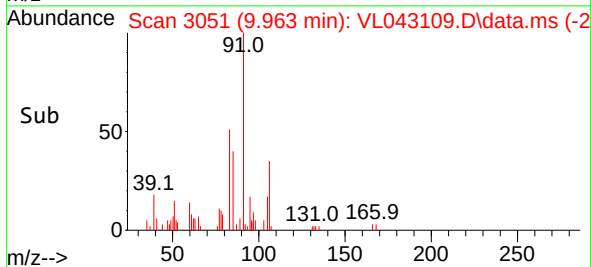
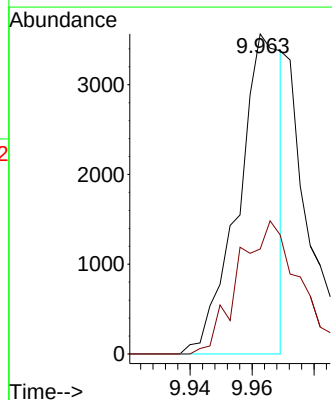
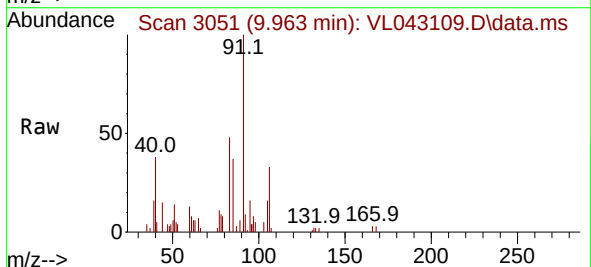
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

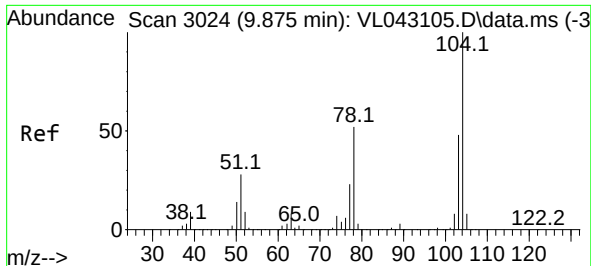
Tgt Ion: 91 Resp: 3213
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 0.085 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 3450
Ion Ratio Lower Upper
91 100
106 57.9 21.9 65.8

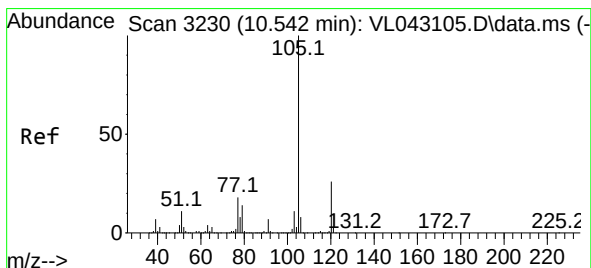
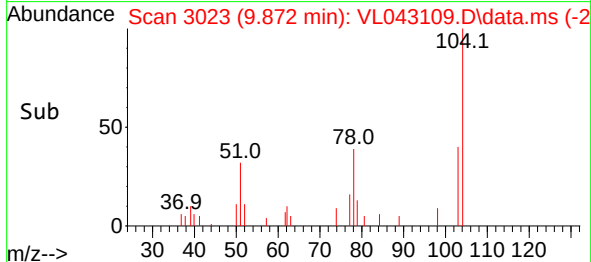
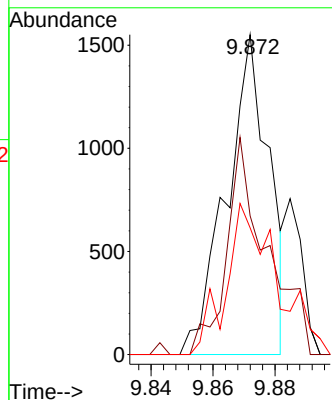
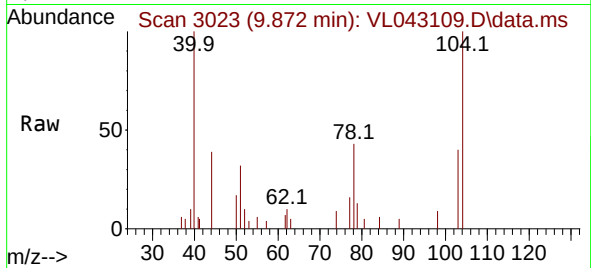




#61
Styrene
Concen: 0.081 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

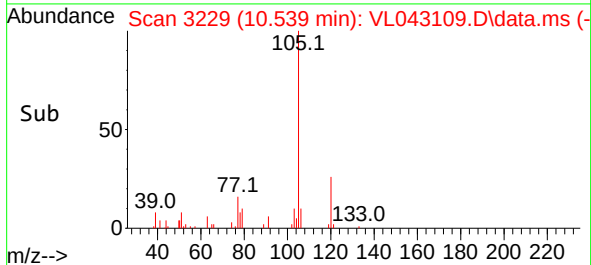
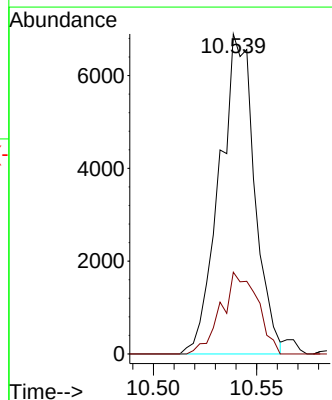
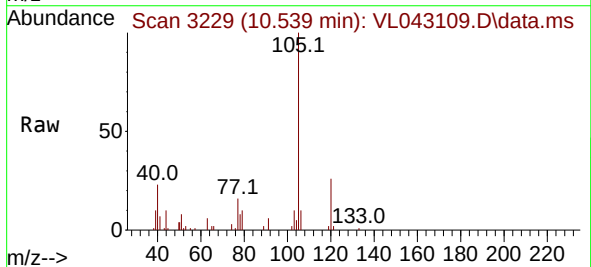
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

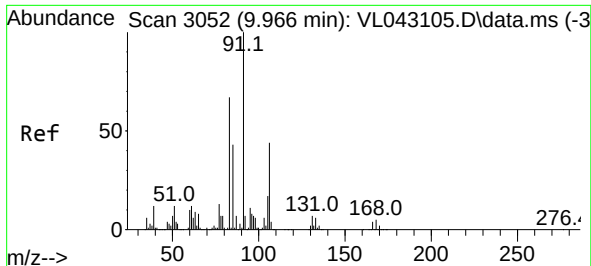
Tgt Ion:104 Resp: 1475
Ion Ratio Lower Upper
104 100
78 64.6 40.2 60.2#
103 56.3 36.9 55.3#



#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 8132
Ion Ratio Lower Upper
105 100
120 26.5 20.2 30.4

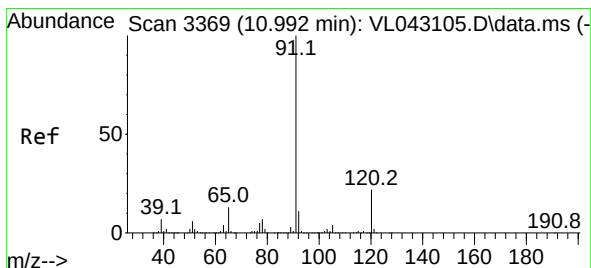
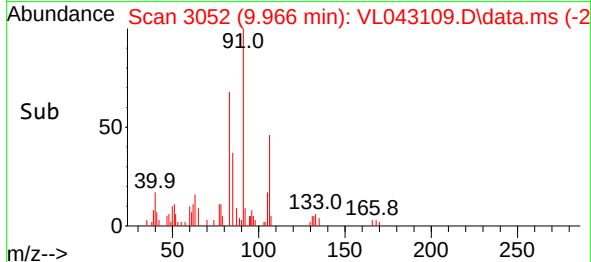
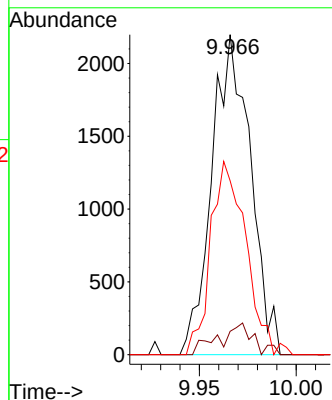
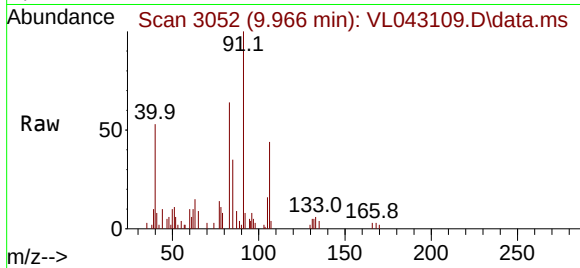




#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

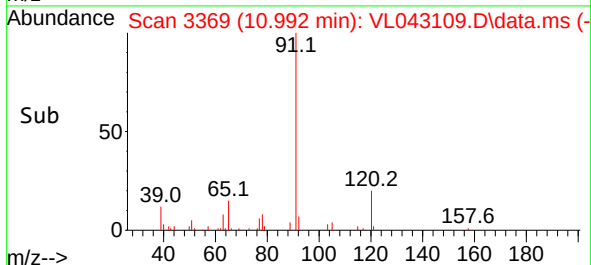
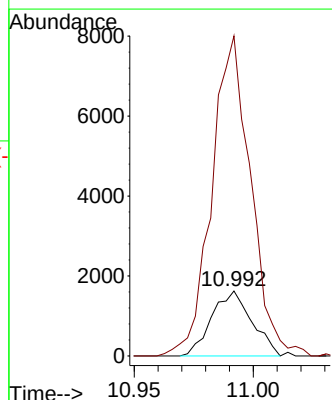
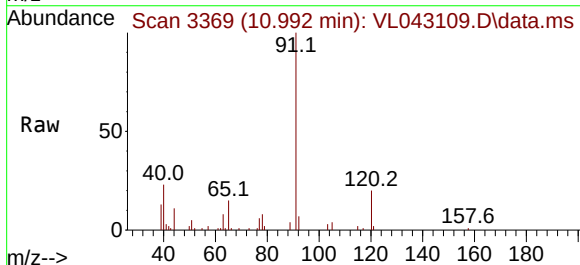
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

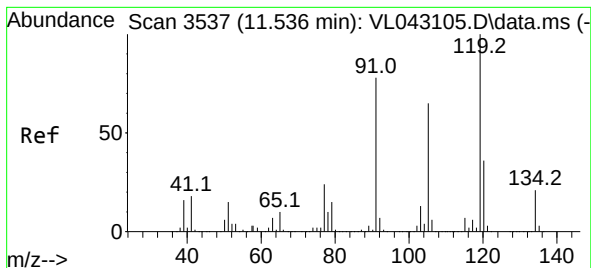
Tgt Ion: 83 Resp: 3053
Ion Ratio Lower Upper
83 100
131 8.9 4.8 14.3
85 55.2 32.0 96.0



#64
n-propylbenzene
Concen: 0.098 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 120 Resp: 1906
Ion Ratio Lower Upper
120 100
91 484.6 361.6 542.4





#65

tert-Butylbenzene

Concen: 0.108 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

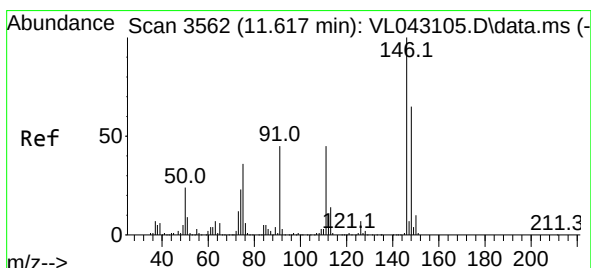
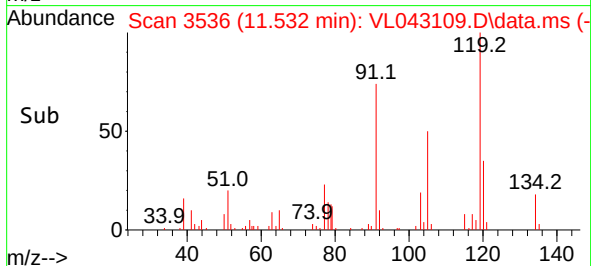
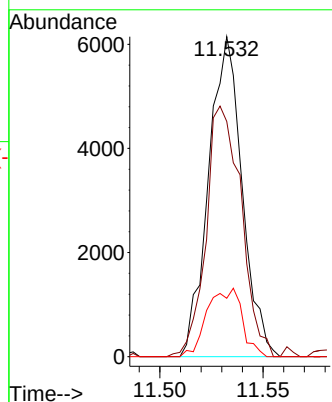
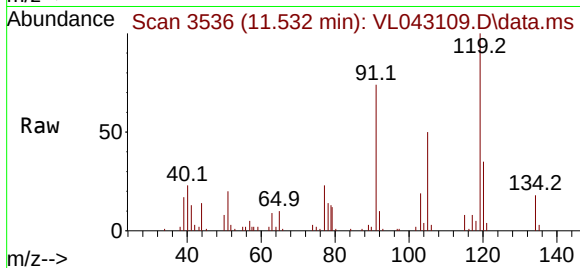
Tgt Ion:119 Resp: 6951

Ion Ratio Lower Upper

119 100

91 82.7 63.4 95.0

134 22.2 17.3 25.9



#66

Benzyl Chloride

Concen: 0.038 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

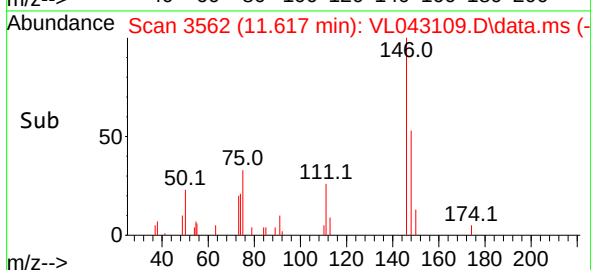
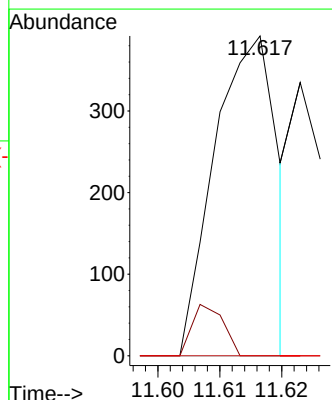
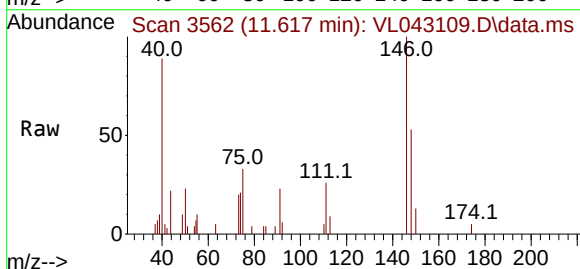
Tgt Ion: 91 Resp: 277

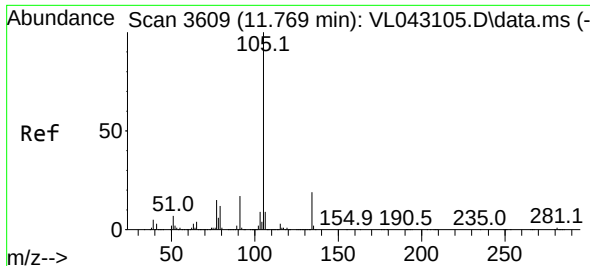
Ion Ratio Lower Upper

91 100

126 7.9 14.6 22.0#

128 0.0 4.6 6.8#

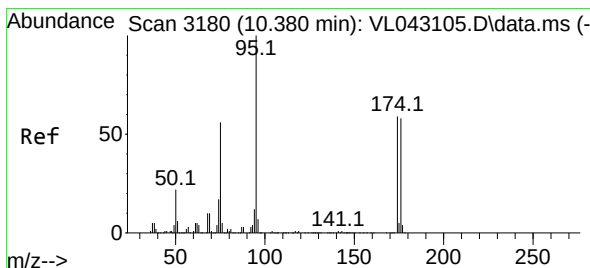
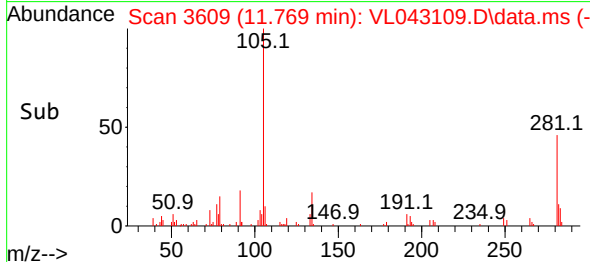
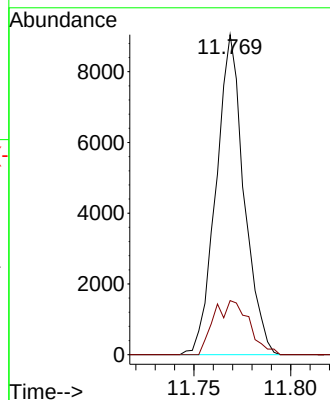
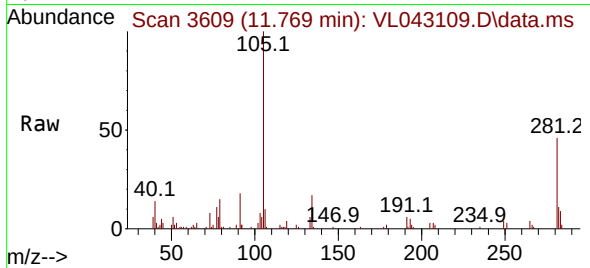




#67
 sec-Butylbenzene
 Concen: 0.099 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

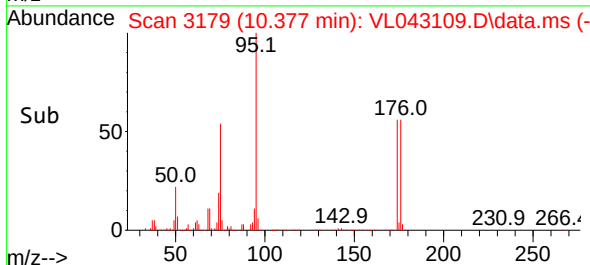
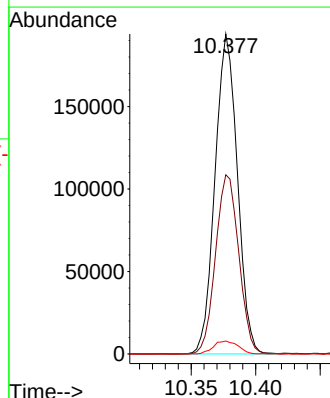
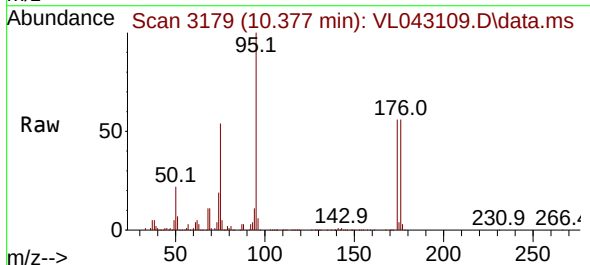
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

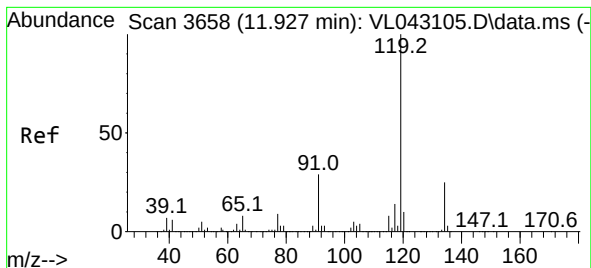
Tgt Ion:105 Resp: 9081
 Ion Ratio Lower Upper
 105 100
 134 21.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.032 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 95 Resp: 233673
 Ion Ratio Lower Upper
 95 100
 174 58.0 48.3 72.5
 175 4.5 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.104 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

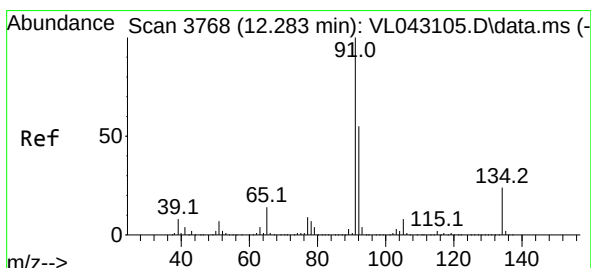
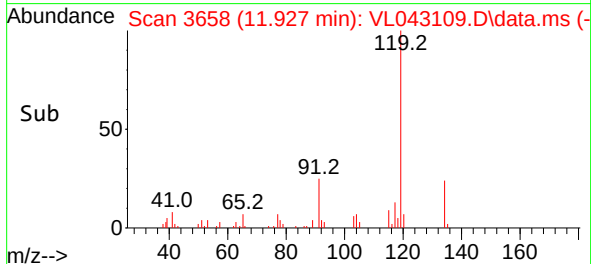
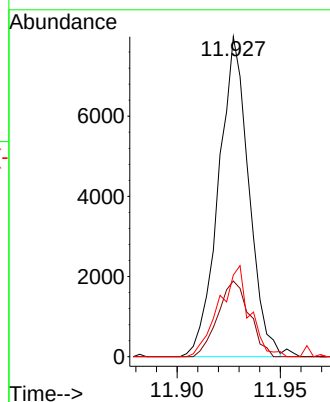
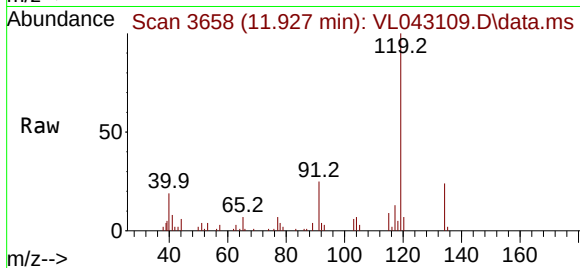
Tgt Ion:119 Resp: 8105

Ion Ratio Lower Upper

119 100

134 24.7 20.3 30.5

91 29.5 22.6 33.8



#70

n-Butylbenzene

Concen: 0.086 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

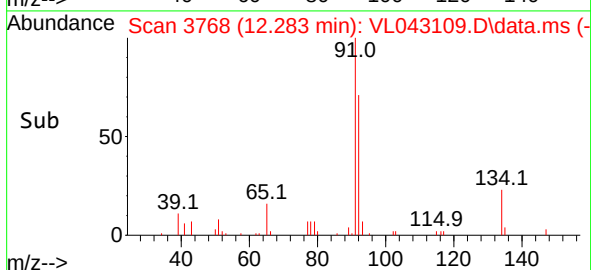
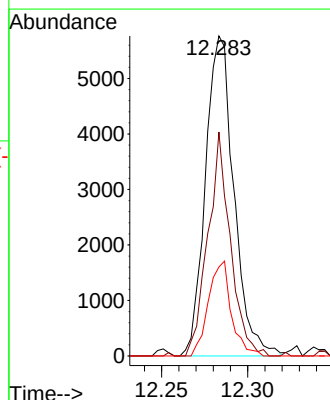
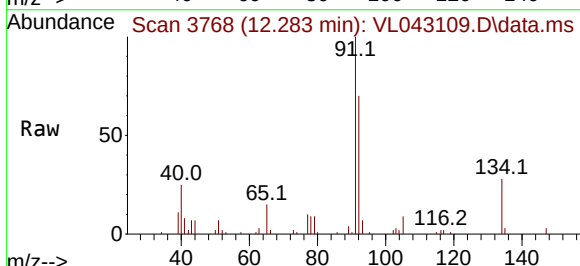
Tgt Ion: 91 Resp: 6640

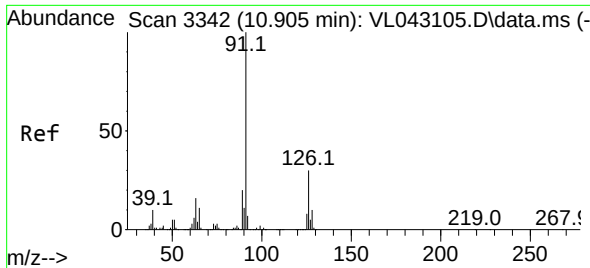
Ion Ratio Lower Upper

91 100

92 55.6 44.5 66.7

134 23.8 19.3 28.9

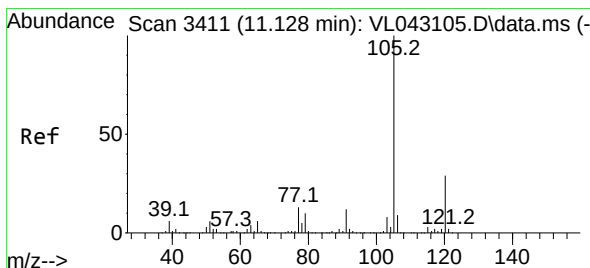
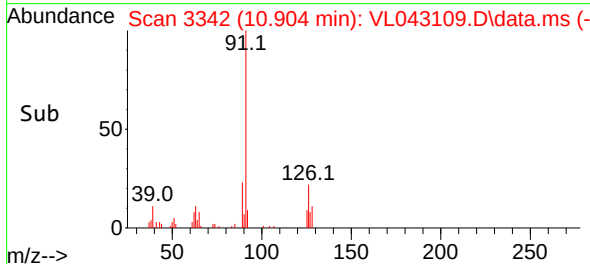
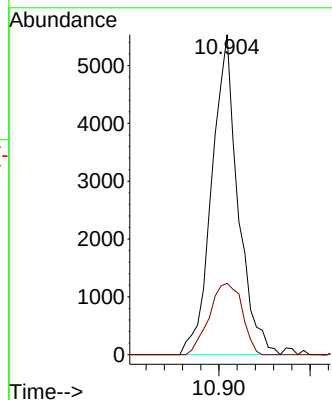
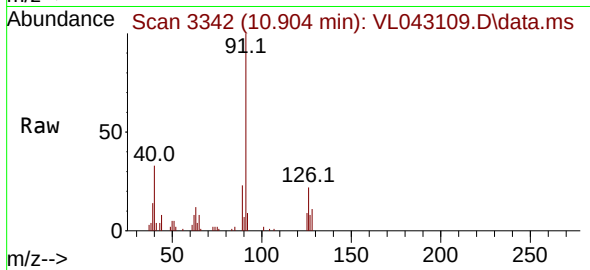




#71
2-Chlorotoluene
Concen: 0.099 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

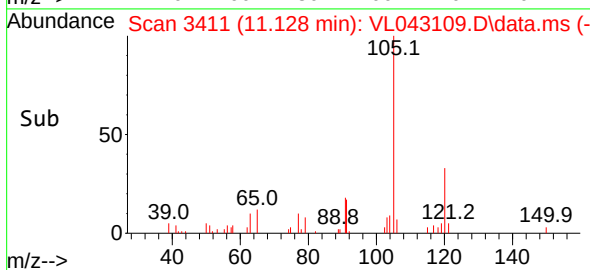
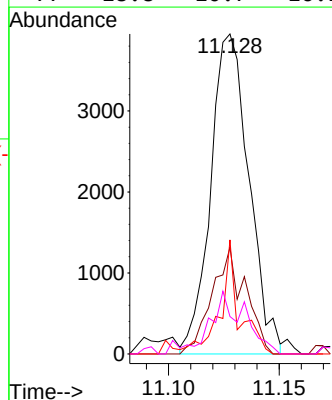
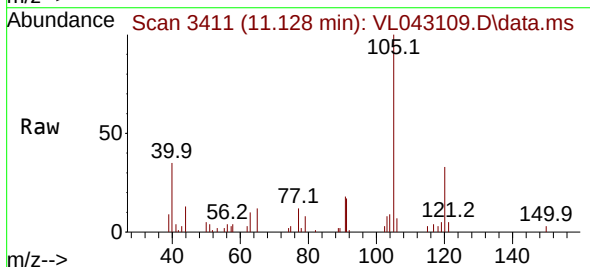
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

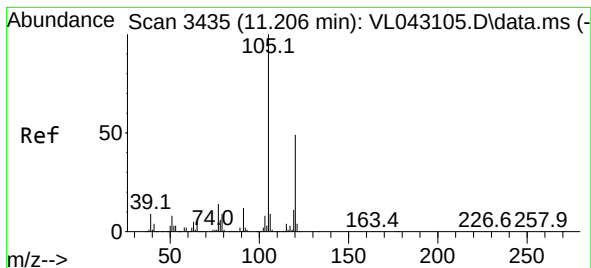
Tgt Ion: 91 Resp: 5527
Ion Ratio Lower Upper
91 100
126 27.9 12.0 48.0



#72
4-Ethyltoluene
Concen: 0.095 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 105 Resp: 4754
Ion Ratio Lower Upper
105 100
120 29.1 24.2 36.4
91 18.8 10.0 15.0#
77 18.8 10.7 16.1#





#73

1,3,5-Trimethylbenzene

Concen: 0.114 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

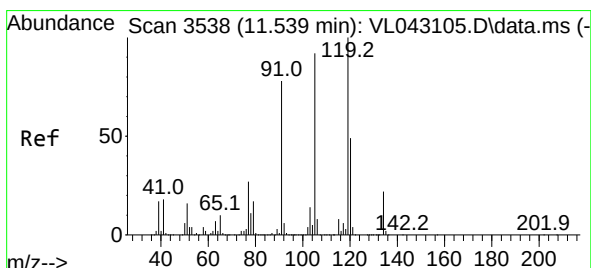
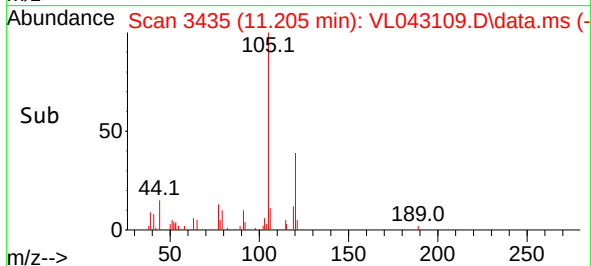
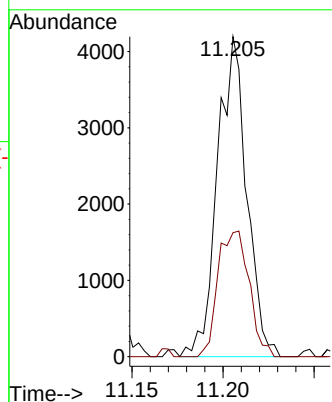
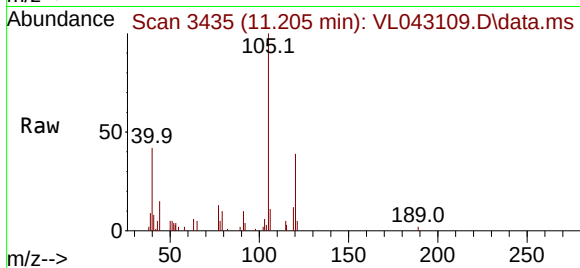
VSTDIC0.1

Tgt Ion:105 Resp: 4680

Ion Ratio Lower Upper

105 100

120 38.7 39.0 58.6#



#74

1,2,4-Trimethylbenzene

Concen: 0.098 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 4519

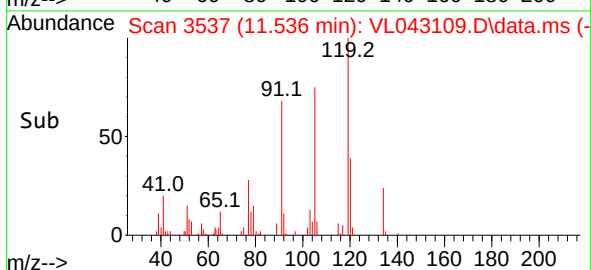
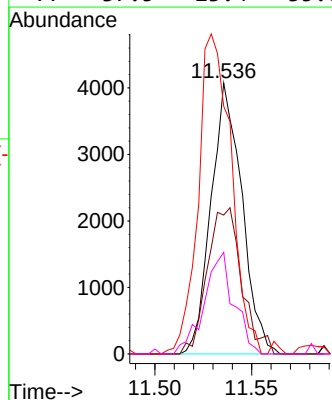
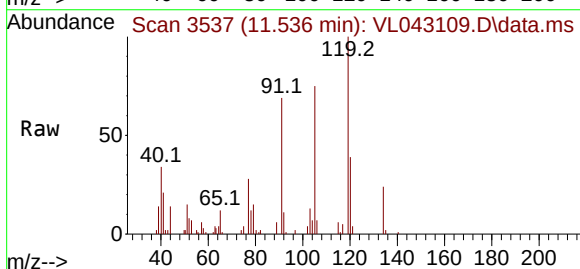
Ion Ratio Lower Upper

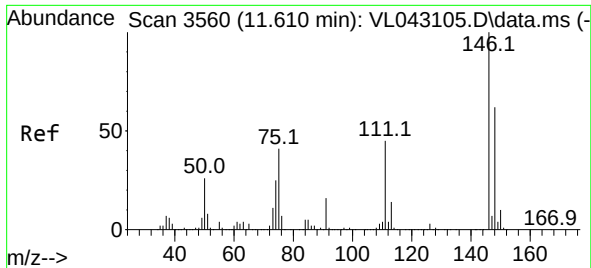
105 100

120 51.3 42.8 64.2

91 89.4 68.3 102.5

77 37.5 23.4 35.0#

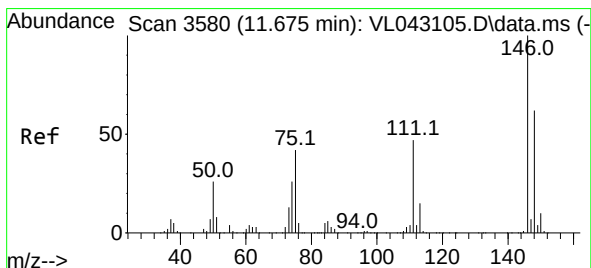
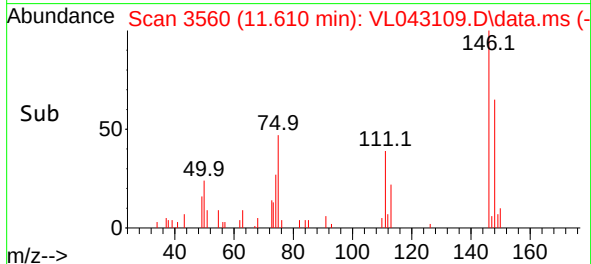
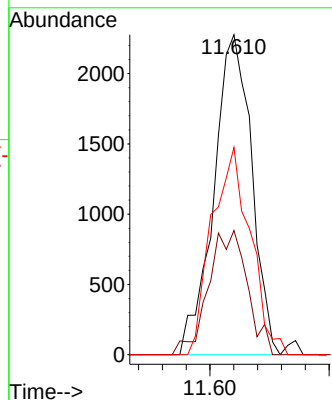
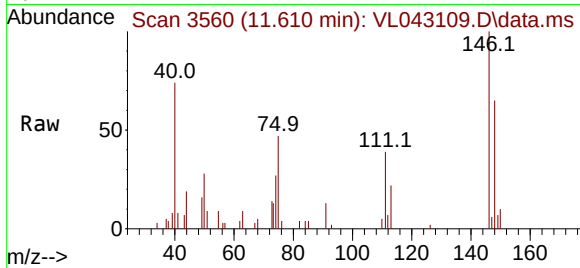




#75
1,3-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

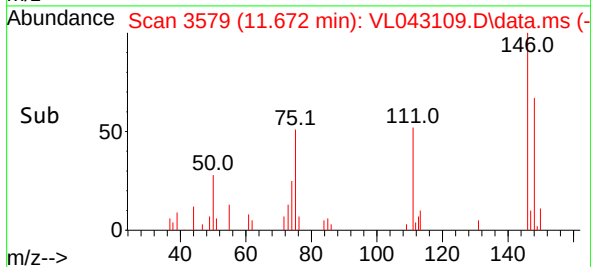
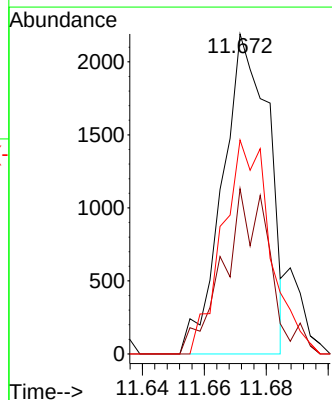
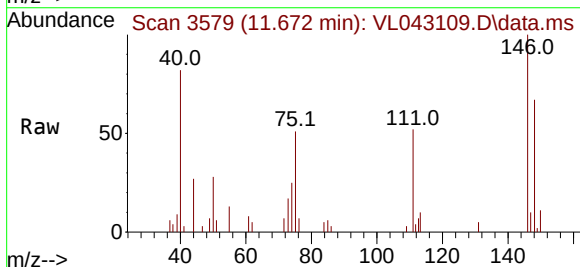
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

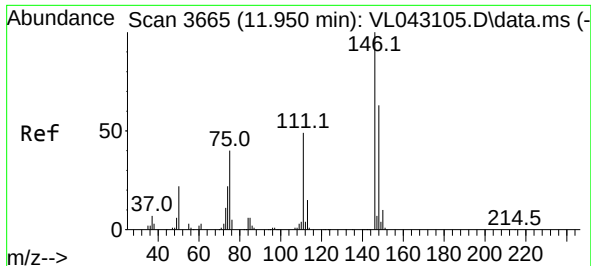
Tgt Ion:146 Resp: 2518
Ion Ratio Lower Upper
146 100
111 39.9 23.3 69.9
148 66.0 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 0.084 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:146 Resp: 2266
Ion Ratio Lower Upper
146 100
111 52.0 22.4 67.0
148 69.5 31.6 94.7

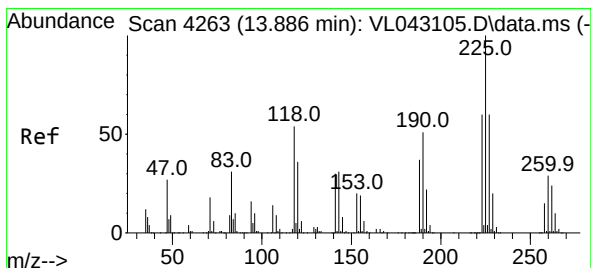
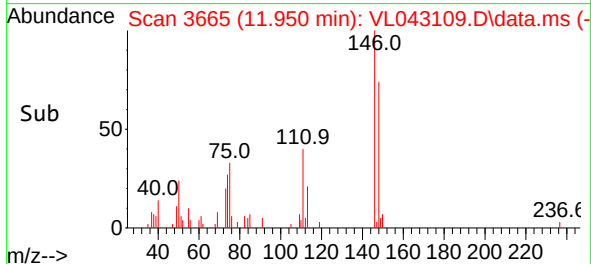
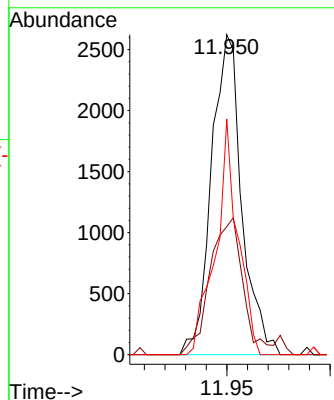
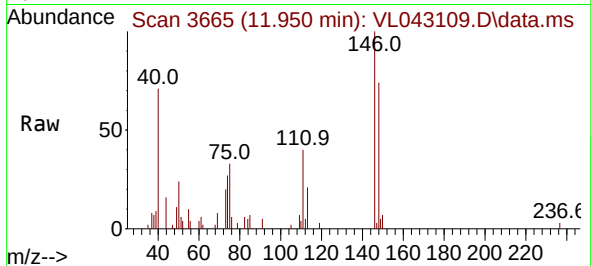




#77
1,2-Dichlorobenzene
Concen: 0.104 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

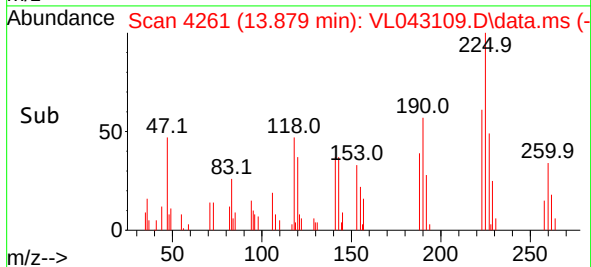
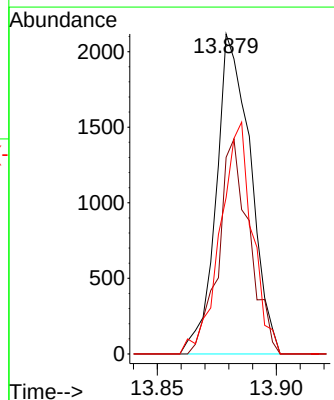
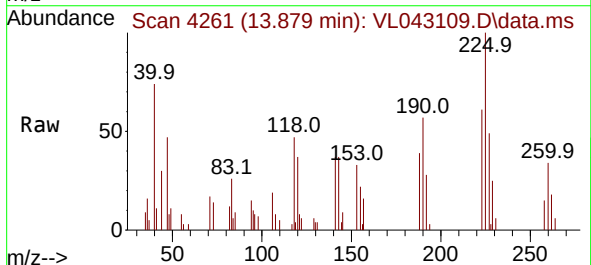
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

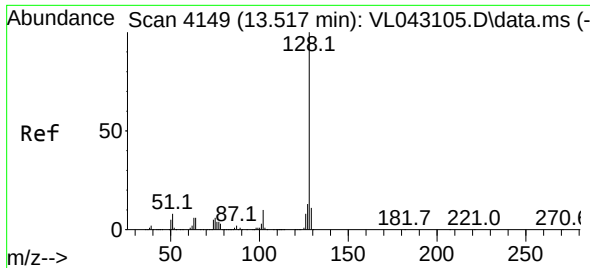
Tgt Ion:	146	Resp:	2676
Ion Ratio	Lower	Upper	
146	100		
111	48.2	24.0	72.0
148	53.9	31.1	93.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.105 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:	225	Resp:	2107
Ion Ratio	Lower	Upper	
225	100		
223	60.6	50.2	75.4
227	68.2	49.6	74.4

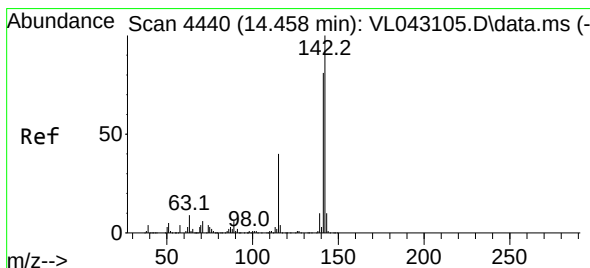
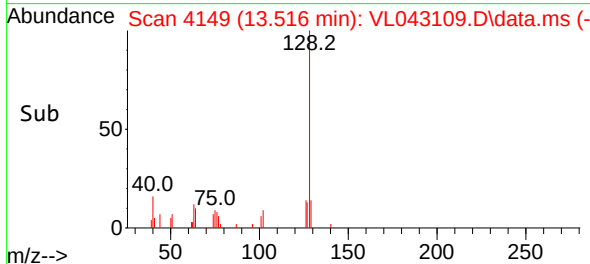
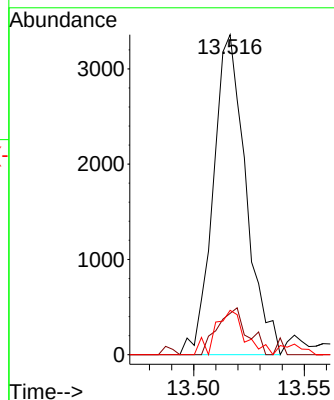
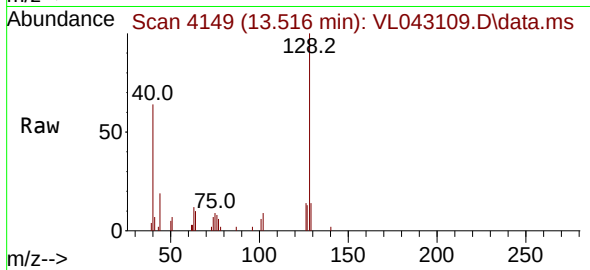




#79
Naphthalene
Concen: 0.073 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

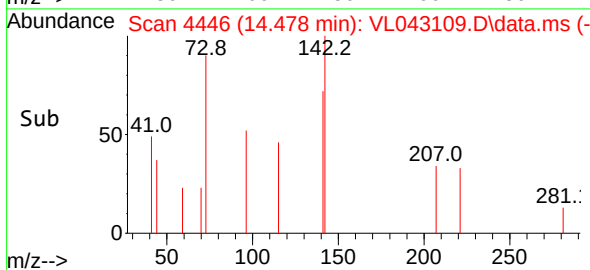
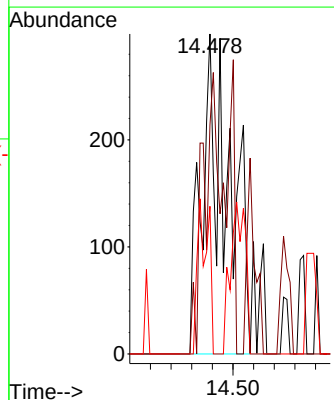
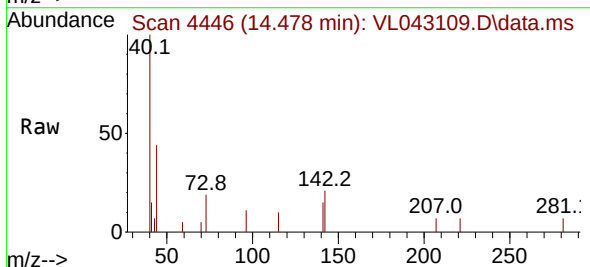
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

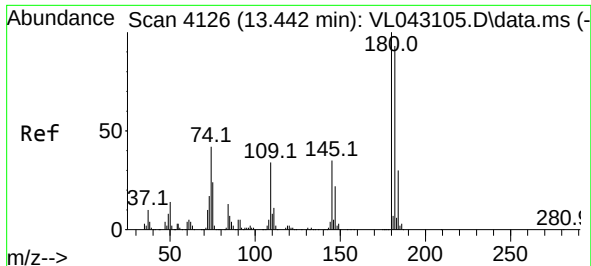
Tgt Ion:128 Resp: 3453
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.8 9.1 13.7#



#80
Naphthalene,2-methyl-
Concen: 0.046 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.019 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:142 Resp: 582
Ion Ratio Lower Upper
142 100
141 0.0 64.6 97.0#
115 18.2 30.2 45.4#





#81

1,2,4-Trichlorobenzene

Concen: 0.039 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043109.D

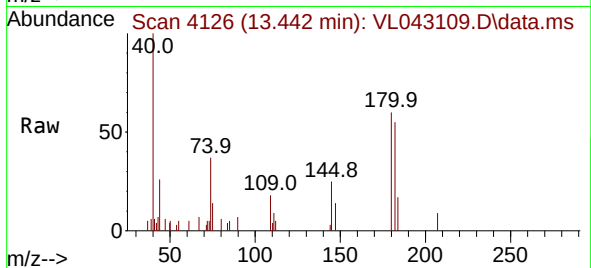
Acq: 14 Oct 2025 13:08

Instrument :

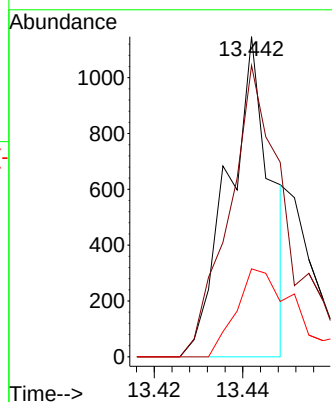
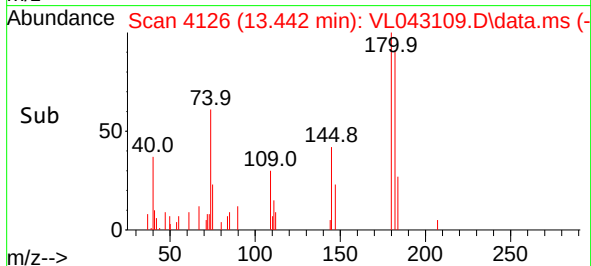
MSVOA_1

ClientSampleId :

VSTDICC0.1



Tgt Ion:	180	Resp:	774
Ion	Ratio	Lower	Upper
180	100		
182	119.1	75.5	113.3#
184	37.6	23.9	35.9#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043110.D
 Acq On : 14 Oct 2025 13:42
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	328897	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	292884	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	224043	9.841	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	546	0.038	ppbv	100
3) Chlorodifluoromethane	1.480	51	572	0.037	ppbv #	35
4) Chloromethane	1.535	50	354	0.063	ppbv #	53
5) Vinyl Chloride	1.583	62	217	0.039	ppbv #	78
6) Bromomethane	1.670	94	110	0.036	ppbv #	56
7) Chloroethane	1.706	64	136	0.060	ppbv #	42
8) Dichlorotetrafluoroethane	1.557	85	358	0.031	ppbv #	75
9) Propene	1.486	41	524	0.077	ppbv #	1
10) Heptane	4.988	43	203	0.010	ppbv #	27
11) Trichlorofluoromethane	2.137	101	209	0.015	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.143	101	220	0.020	ppbv #	13
13) Ethanol	1.793	45	201	0.080	ppbv #	1
14) Bromoethene	1.781	108	202	0.049	ppbv #	22
15) Acetone	1.839	43	1339	0.099	ppbv #	56
16) 1,3-Butadiene	1.612	39	710	0.110	ppbv	88
17) tert-Butyl alcohol	2.049	59	599	0.032	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	232	0.048	ppbv	88
19) Isopropyl Alcohol	1.891	45	263	0.031	ppbv	95
20) Methylene Chloride	2.062	84	1624	0.305	ppbv #	83
21) Allyl Chloride	2.094	41	645	0.065	ppbv #	1
22) trans-1,2-Dichloroethene	2.344	96	240	0.041	ppbv	87
23) Vinyl Acetate	2.470	43	699	0.035	ppbv #	44
24) 1,1-Dichloroethane	2.412	63	383	0.034	ppbv #	87
25) Ethyl Acetate	2.845	43	998	0.030	ppbv #	85
26) Hexane	2.823	57	740	0.048	ppbv #	81
27) Carbon Disulfide	2.149	76	215	0.015	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	309	0.044	ppbv #	1
29) Chloroform	2.849	83	839	0.038	ppbv #	67
30) Cyclohexane	3.865	84	276	0.021	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	467	0.032	ppbv #	73
32) 1,1,1-Trichloroethane	3.376	97	336	0.014	ppbv #	1
34) 2-Butanone	2.564	43	909	0.041	ppbv #	89
35) Carbon Tetrachloride	3.768	117	216	0.009	ppbv #	73
36) Benzene	3.658	78	246	0.008	ppbv #	1
37) 1,2-Dichloroethane	3.221	62	772	0.043	ppbv #	87
38) Trichloroethene	4.551	130	216	0.017	ppbv #	77
39) 1,2-Dichloropropane	3.959	63	79938	7.052	ppbv #	25
40) 1,4-Dioxane	4.609	88	33	0.007	ppbv #	1
41) Tetrahydrofuran	3.049	42	87	0.007	ppbv #	37
42) Bromodichloromethane	4.496	83	250	0.010	ppbv #	26
43) Methyl Methacrylate	4.875	69	36	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	669	0.013	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	165	0.010	ppbv #	87

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043110.D
 Acq On : 14 Oct 2025 13:42
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

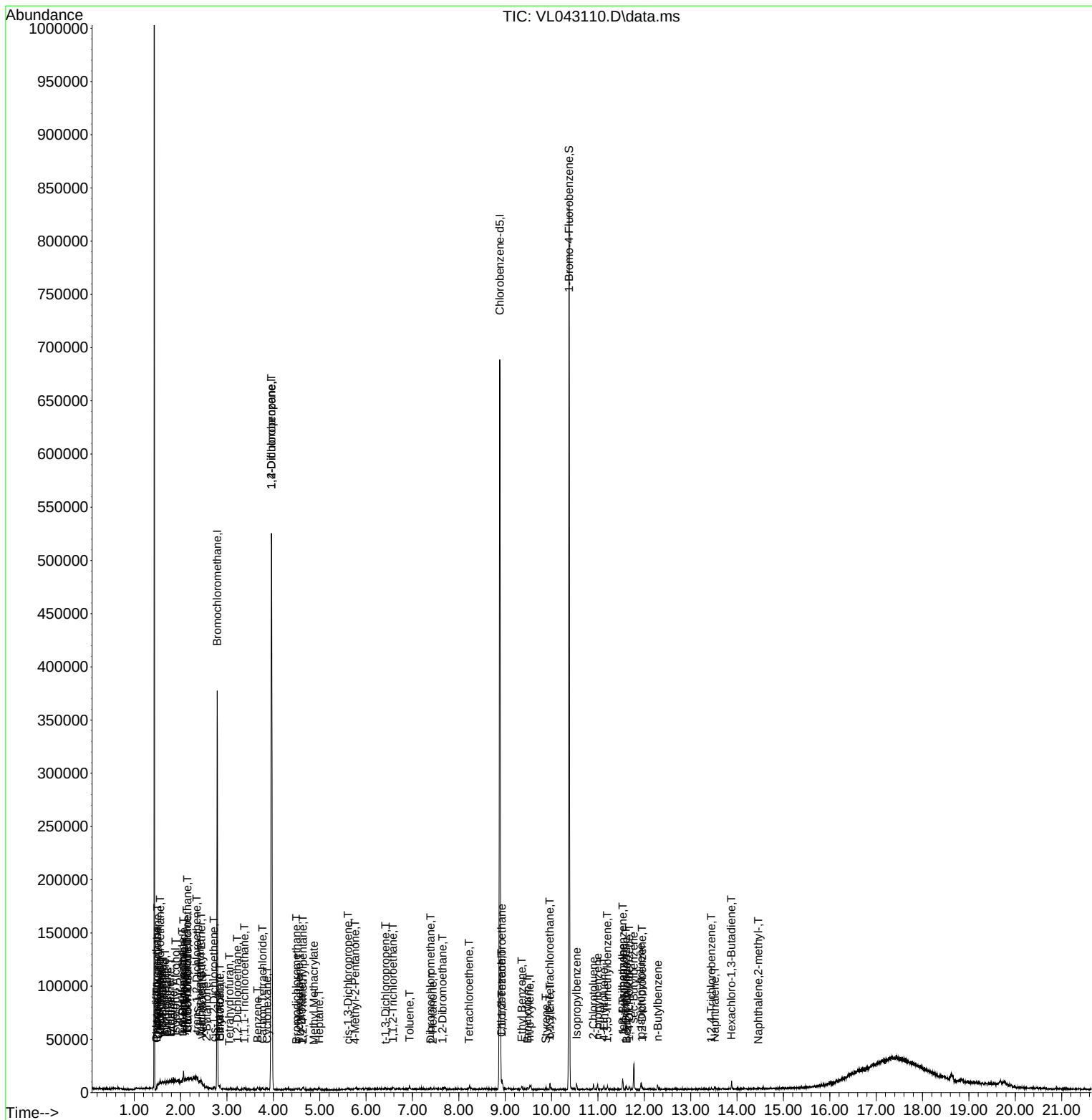
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

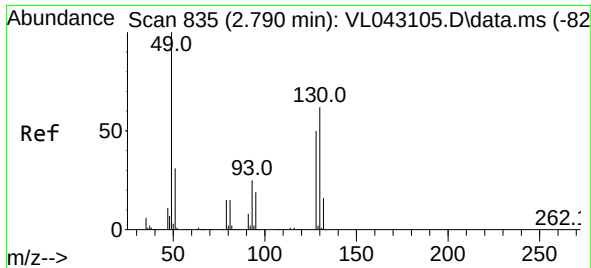
Quant Time: Oct 15 01:55:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.606	75	261	0.014	ppbv	#	80
47) 1,1,2-Trichloroethane	6.577	97	98	0.008	ppbv	#	42
48) Dibromochloromethane	7.390	129	186	0.009	ppbv	#	1
49) Bromoform	9.480	173	323	0.019	ppbv	#	56
50) 4-Methyl-2-Pentanone	5.762	43	271	0.009	ppbv	#	38
51) 2-Hexanone	7.438	43	98	0.004	ppbv	#	27
52) Tetrachloroethene	8.218	164	120	0.011	ppbv	#	67
53) Toluene	6.936	91	632	0.017	ppbv	#	20
54) 1,2-Dibromoethane	7.649	107	308	0.016	ppbv		86
56) 1,1,1,2-Tetrachloroethane	8.927	131	441	0.024	ppbv	#	14
57) Chlorobenzene	8.921	112	764	0.028	ppbv	#	63
58) Ethyl Benzene	9.357	91	1218	0.024	ppbv	#	83
59) m/p-Xylene	9.529	91	759	0.019	ppbv	#	29
60) o-Xylene	9.966	91	693	0.018	ppbv	#	32
61) Styrene	9.875	104	538	0.030	ppbv	#	88
62) Isopropylbenzene	10.539	105	1735	0.024	ppbv		90
63) 1,1,2,2-Tetrachloroethane	9.960	83	369	0.014	ppbv	#	1
64) n-propylbenzene	10.995	120	616	0.033	ppbv		92
65) tert-Butylbenzene	11.533	119	2219	0.035	ppbv		95
66) Benzyl Chloride	11.620	91	98	0.014	ppbv	#	65
67) sec-Butylbenzene	11.769	105	3170	0.035	ppbv		96
69) p-Isopropyltoluene	11.927	119	2370	0.031	ppbv	#	90
70) n-Butylbenzene	12.290	91	1534	0.020	ppbv	#	92
71) 2-Chlorotoluene	10.901	91	1757	0.032	ppbv		100
72) 4-Ethyltoluene	11.128	105	1502	0.031	ppbv	#	90
73) 1,3,5-Trimethylbenzene	11.202	105	1005	0.025	ppbv	#	83
74) 1,2,4-Trimethylbenzene	11.533	105	806	0.018	ppbv		89
75) 1,3-Dichlorobenzene	11.600	146	251	0.010	ppbv	#	1
76) 1,4-Dichlorobenzene	11.672	146	504	0.019	ppbv	#	24
77) 1,2-Dichlorobenzene	11.950	146	709	0.028	ppbv		79
78) Hexachloro-1,3-Butadiene	13.876	225	239	0.012	ppbv	#	19
79) Naphthalene	13.520	128	851	0.018	ppbv	#	94
80) Naphthalene,2-methyl-	14.458	142	15	0.001	ppbv	#	1
81) 1,2,4-Trichlorobenzene	13.445	180	219	0.011	ppbv	#	79

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

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

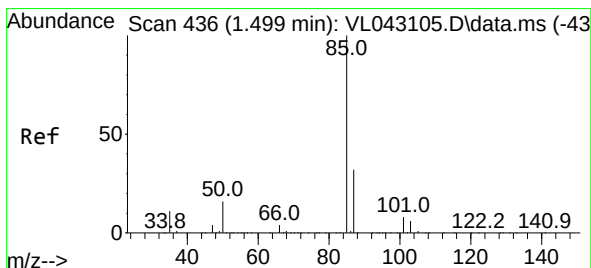
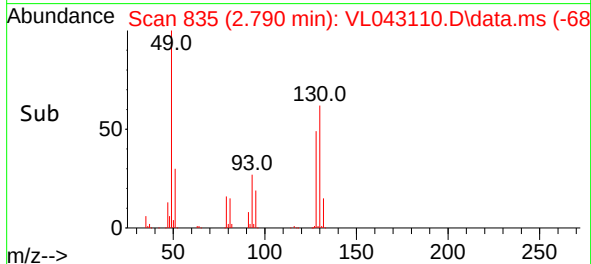
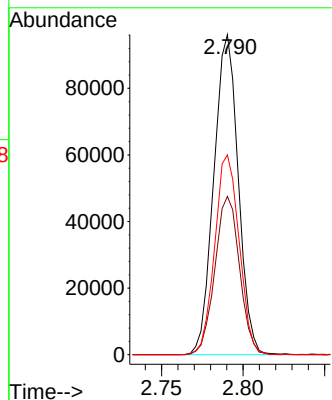
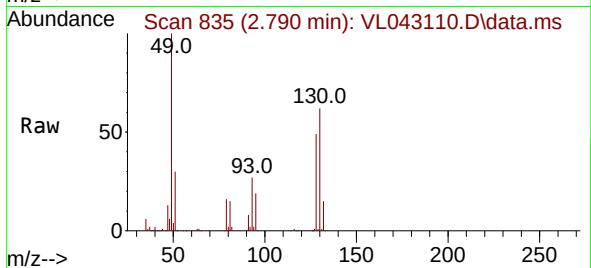




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

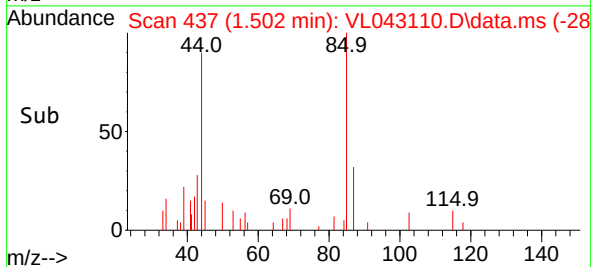
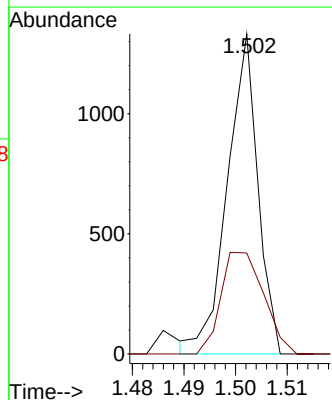
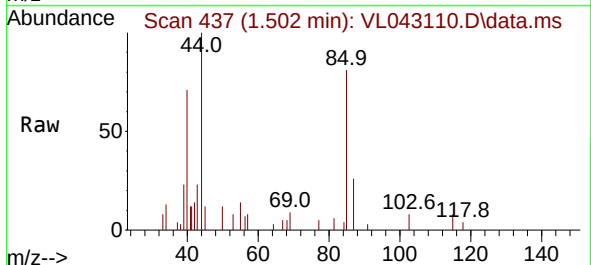
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

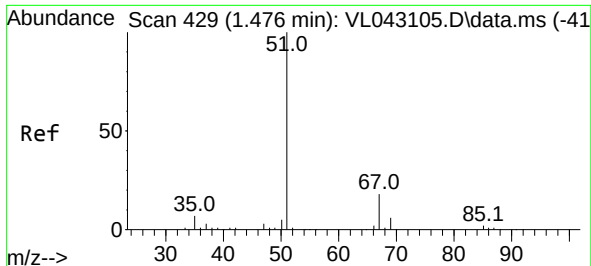
Tgt Ion: 49 Resp: 100058
Ion Ratio Lower Upper
49 100
128 49.9 24.4 73.4
130 62.5 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 546
Ion Ratio Lower Upper
85 100
87 31.5 25.3 37.9





#3

Chlorodifluoromethane

Concen: 0.037 ppbv

RT: 1.480 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

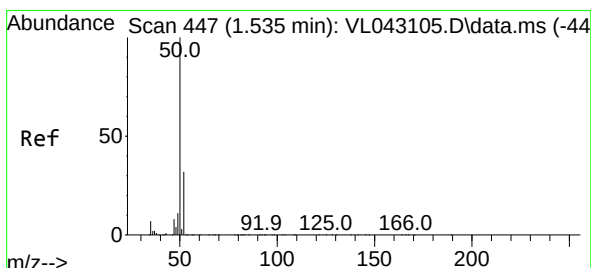
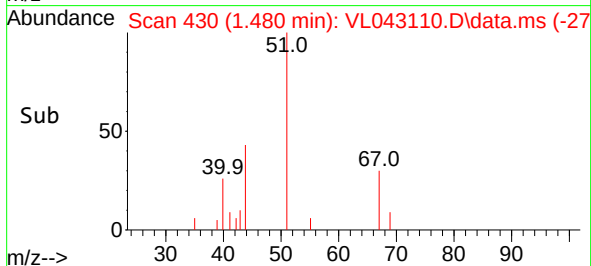
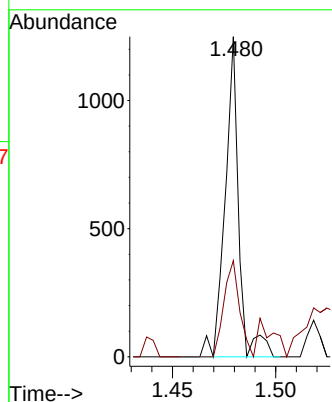
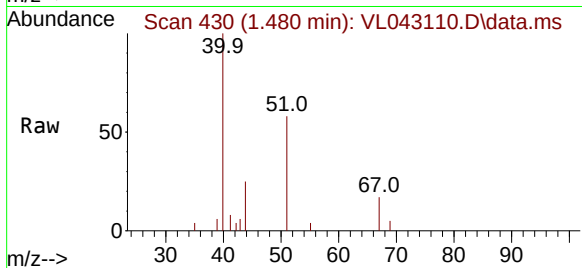
VSTDICC0.03

Tgt Ion: 51 Resp: 572

Ion Ratio Lower Upper

51 100

67 48.1 15.1 22.7#



#4

Chloromethane

Concen: 0.063 ppbv

RT: 1.535 min Scan# 447

Delta R.T. -0.000 min

Lab File: VL043110.D

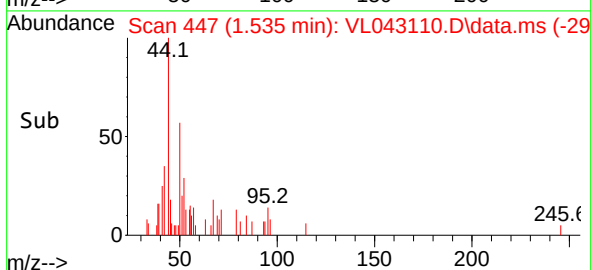
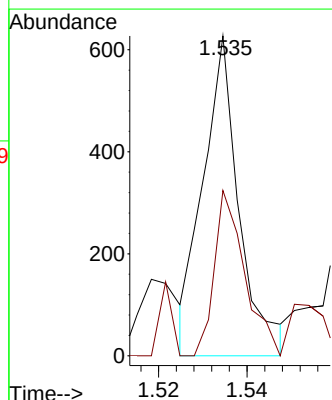
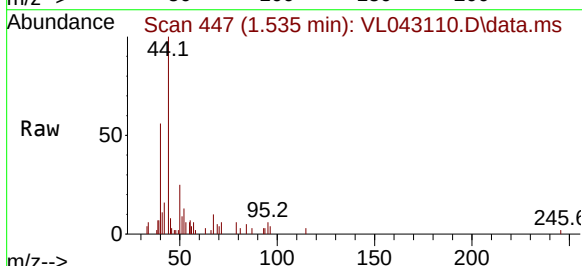
Acq: 14 Oct 2025 13:42

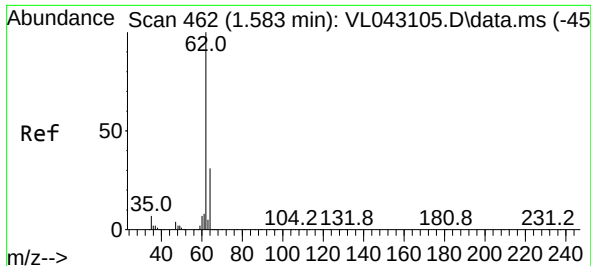
Tgt Ion: 50 Resp: 354

Ion Ratio Lower Upper

50 100

52 57.3 25.2 37.8#

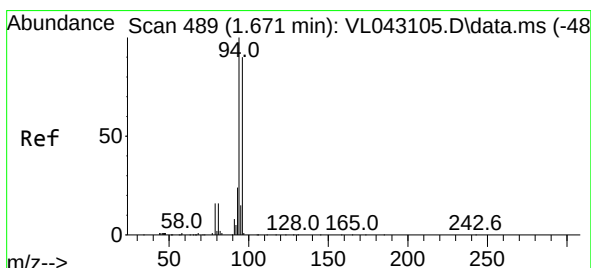
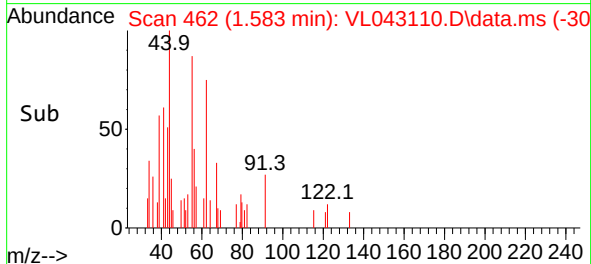
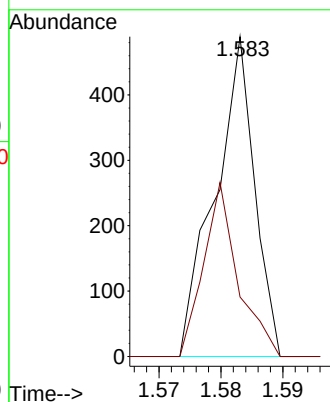
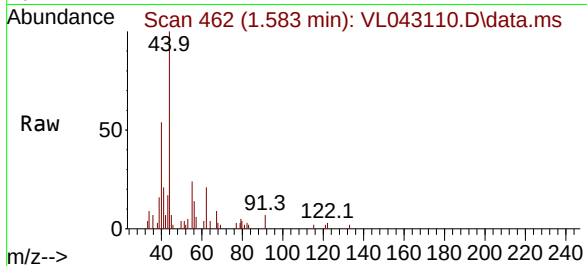




#5
 Vinyl Chloride
 Concen: 0.039 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

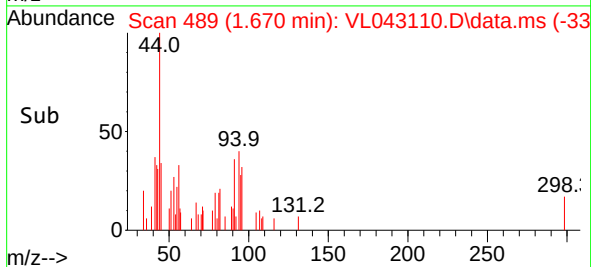
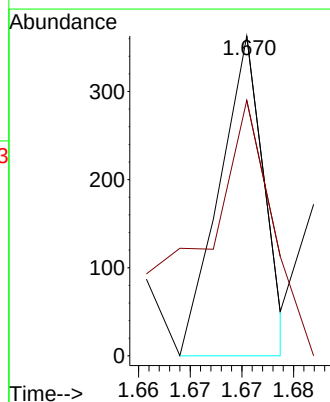
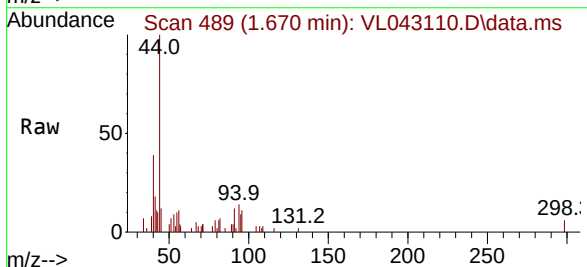
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

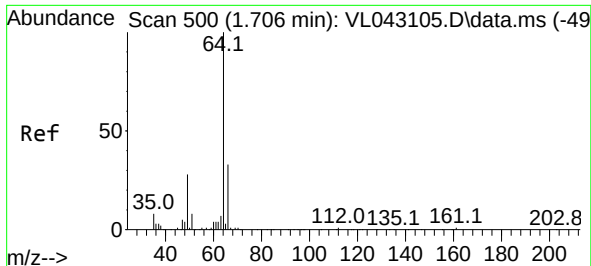
Tgt Ion: 62 Resp: 217
 Ion Ratio Lower Upper
 62 100
 64 18.6 24.6 36.8#



#6
 Bromomethane
 Concen: 0.036 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 94 Resp: 110
 Ion Ratio Lower Upper
 94 100
 96 48.8 72.2 108.4#

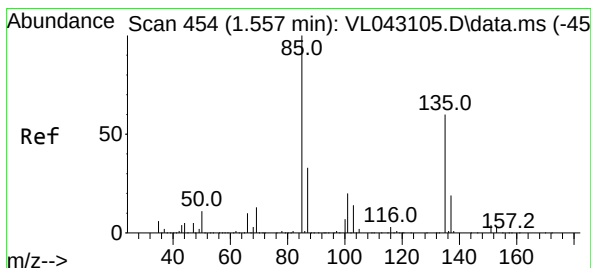
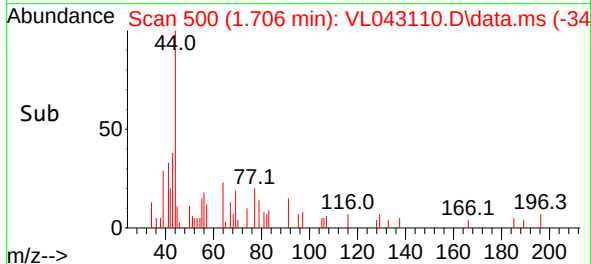
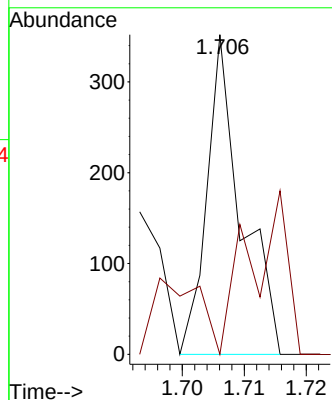
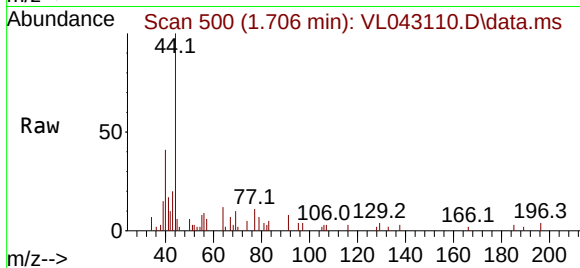




#7
Chloroethane
Concen: 0.060 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

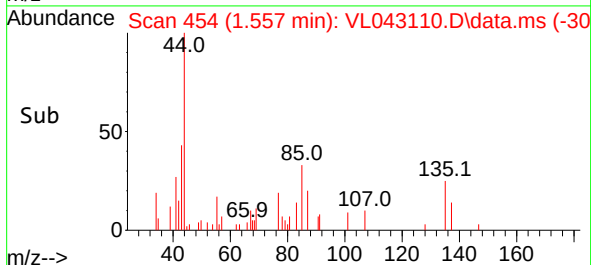
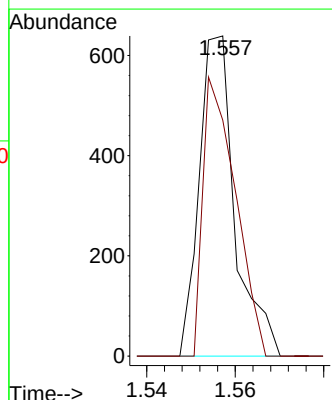
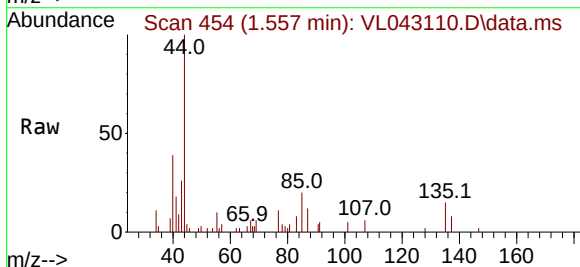
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

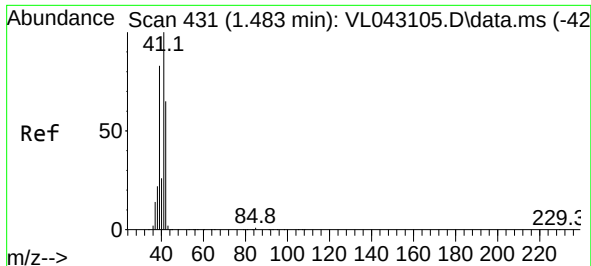
Tgt Ion: 64 Resp: 136
Ion Ratio Lower Upper
64 100
66 0.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.031 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 358
Ion Ratio Lower Upper
85 100
135 79.6 48.2 72.4#





#9

Propene

Concen: 0.077 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

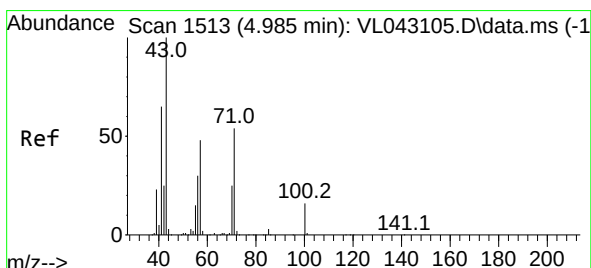
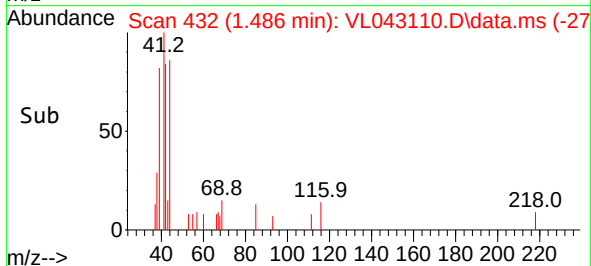
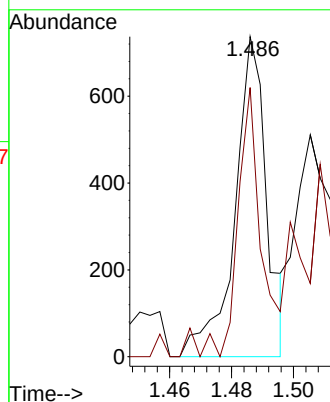
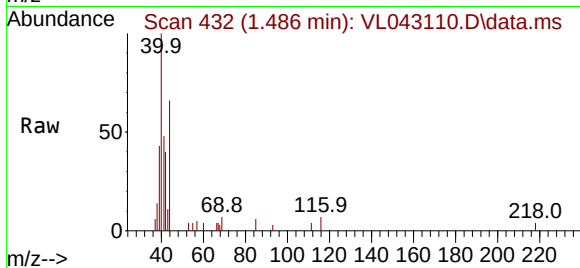
VSTDICC0.03

Tgt Ion: 41 Resp: 524

Ion Ratio Lower Upper

41 100

42 154.8 55.1 82.7#



#10

Heptane

Concen: 0.010 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.003 min

Lab File: VL043110.D

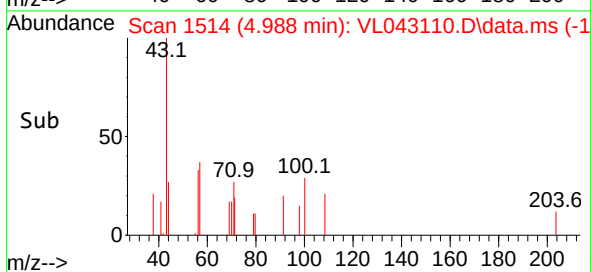
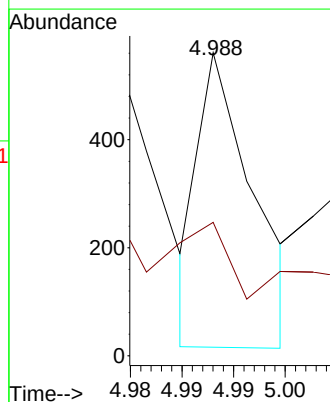
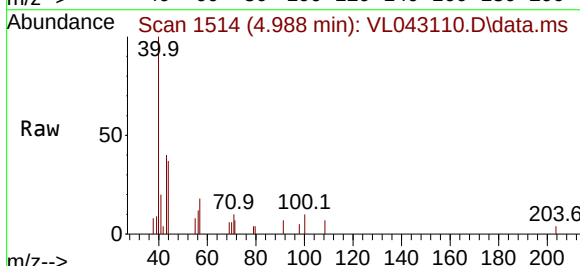
Acq: 14 Oct 2025 13:42

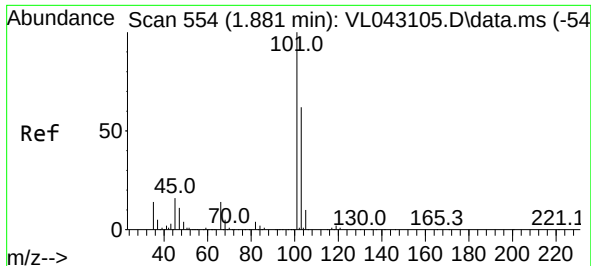
Tgt Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#

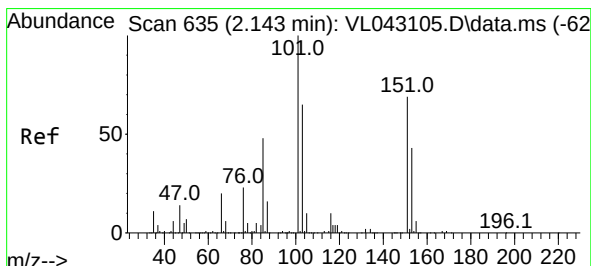
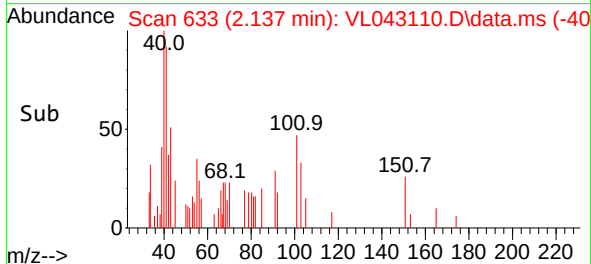
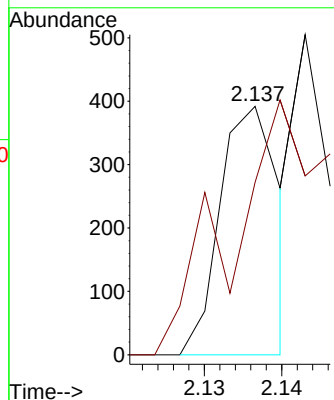
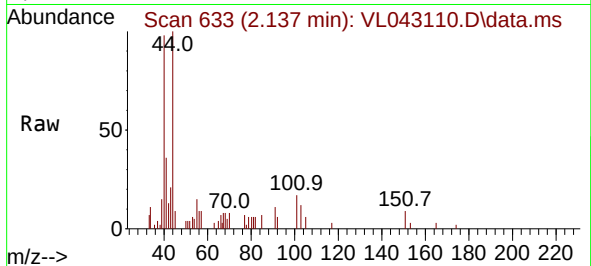




#11
 Trichlorofluoromethane
 Concen: 0.015 ppbv
 RT: 2.137 min Scan# 611
 Delta R.T. 0.256 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

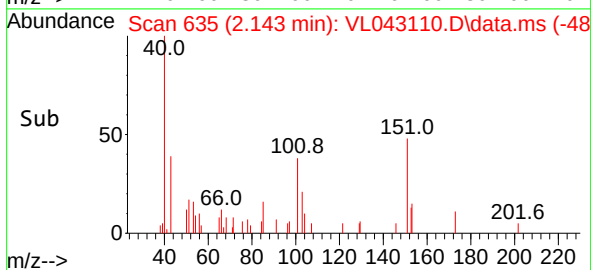
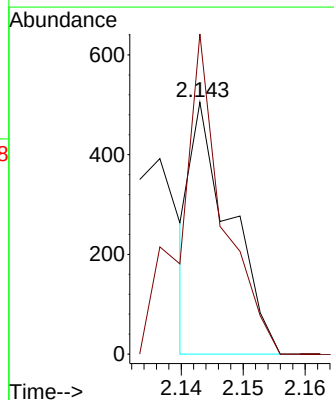
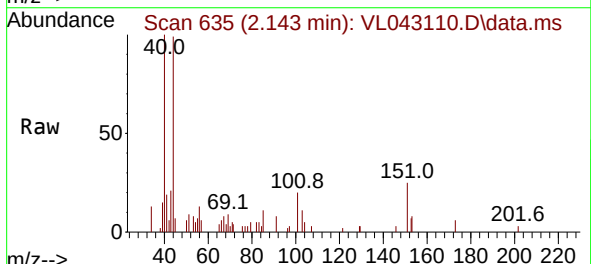
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

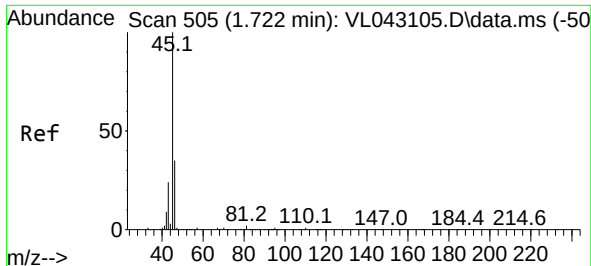
Tgt Ion:101 Resp: 209
 Ion Ratio Lower Upper
 101 100
 103 49.7 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.020 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion:101 Resp: 220
 Ion Ratio Lower Upper
 101 100
 151 139.1 54.7 82.1#

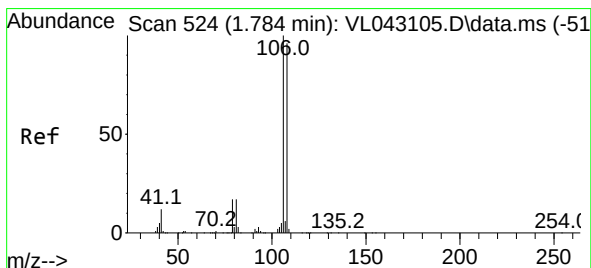
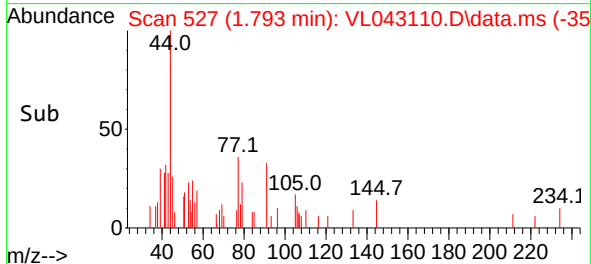
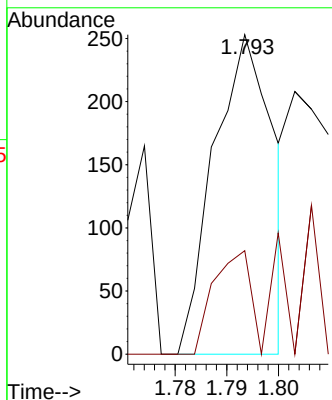
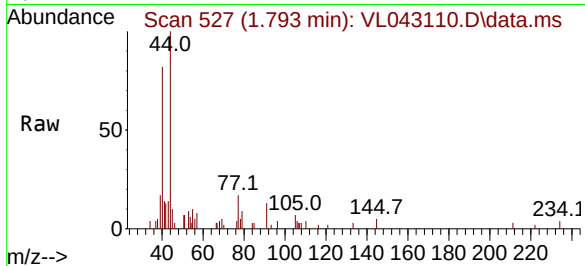




#13
 Ethanol
 Concen: 0.080 ppbv
 RT: 1.793 min Scan# 51
 Delta R.T. 0.071 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

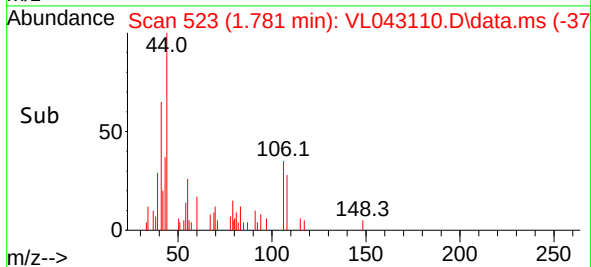
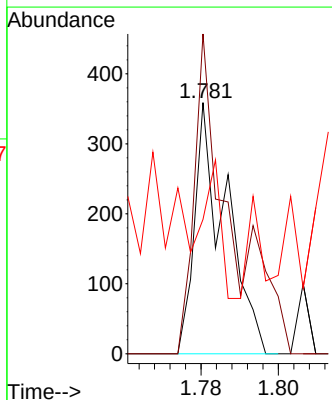
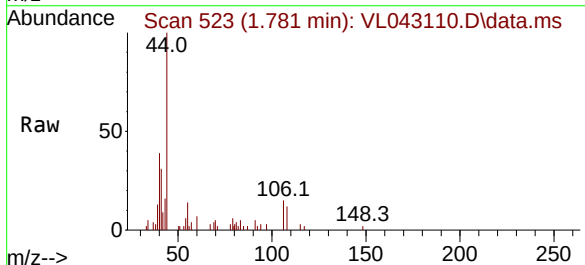
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

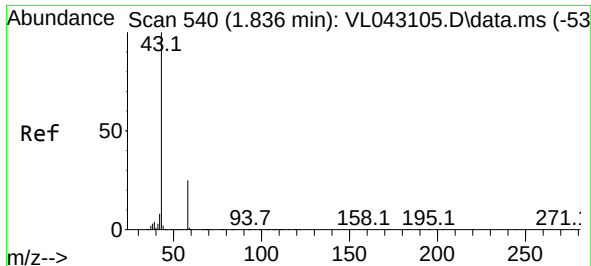
Tgt Ion: 45 Resp: 201
 Ion Ratio Lower Upper
 45 100
 46 146.3 14.7 58.9#



#14
 Bromoethene
 Concen: 0.049 ppbv
 RT: 1.781 min Scan# 523
 Delta R.T. -0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 108 Resp: 202
 Ion Ratio Lower Upper
 108 100
 106 144.6 84.4 126.6#
 79 154.0 15.3 22.9#

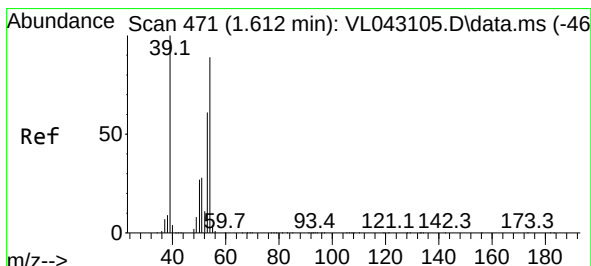
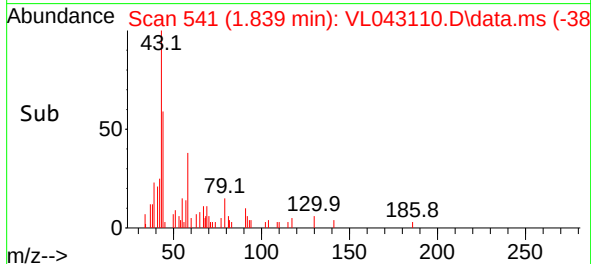
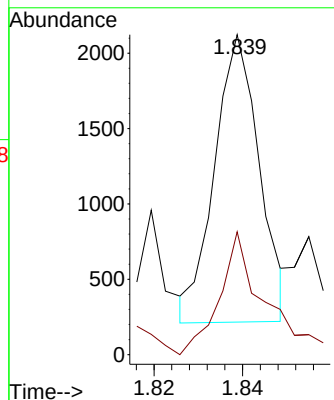
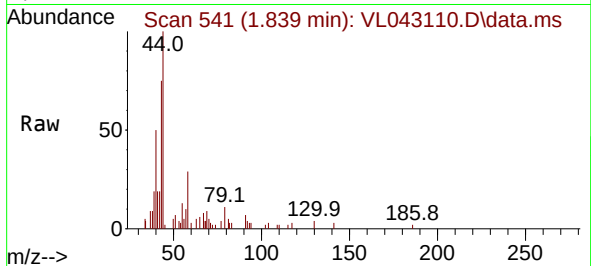




#15
Acetone
Concen: 0.099 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

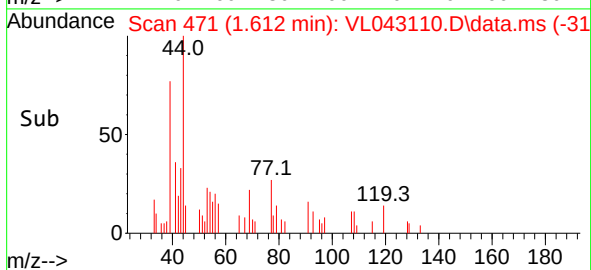
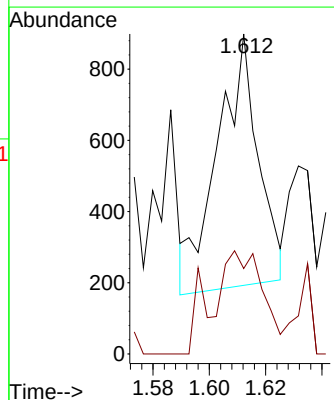
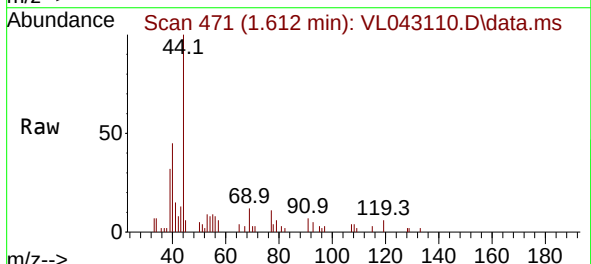
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

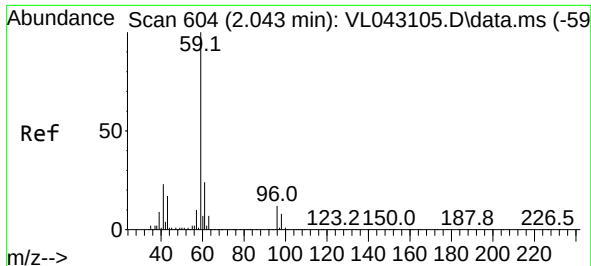
Tgt Ion: 43 Resp: 1339
Ion Ratio Lower Upper
43 100
58 48.2 20.8 31.2#



#16
1,3-Butadiene
Concen: 0.110 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 39 Resp: 710
Ion Ratio Lower Upper
39 100
54 63.4 59.0 88.4





#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_1

ClientSampleId :

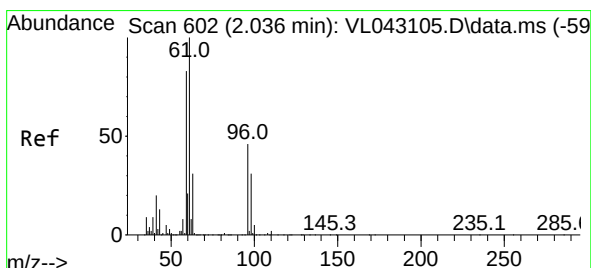
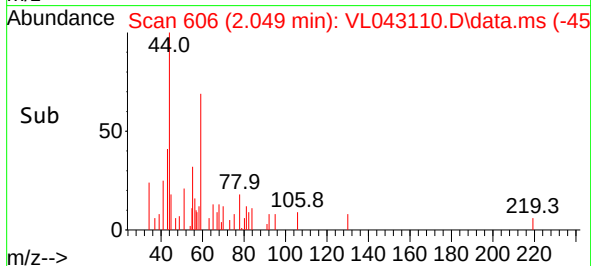
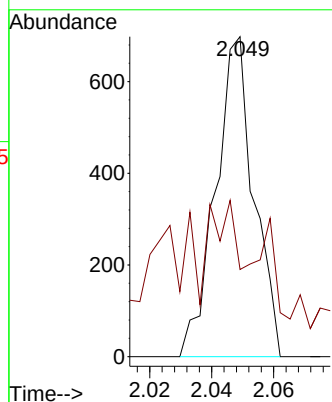
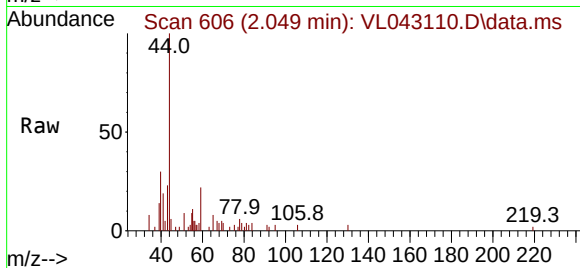
VSTDIC0.03

Tgt Ion: 59 Resp: 599

Ion Ratio Lower Upper

59 100

57 72.6 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.048 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

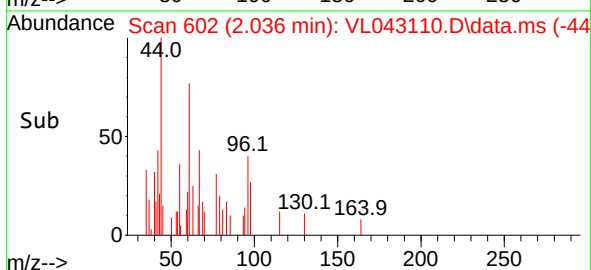
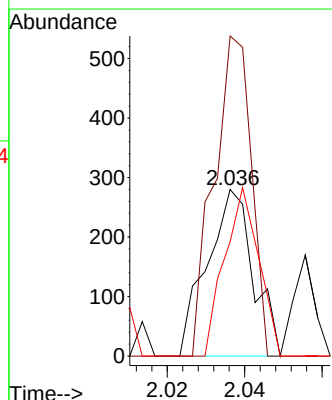
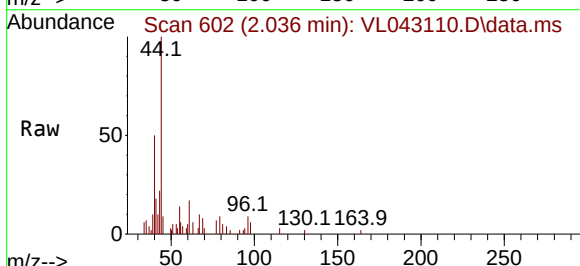
Tgt Ion: 96 Resp: 232

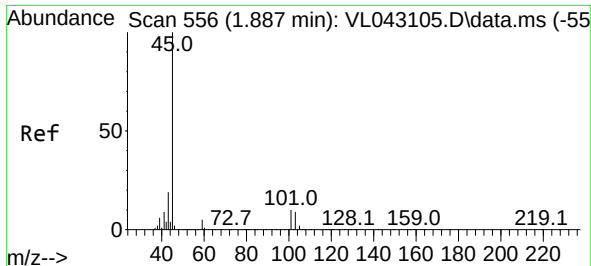
Ion Ratio Lower Upper

96 100

61 192.1 173.4 260.0

98 68.6 53.2 79.8

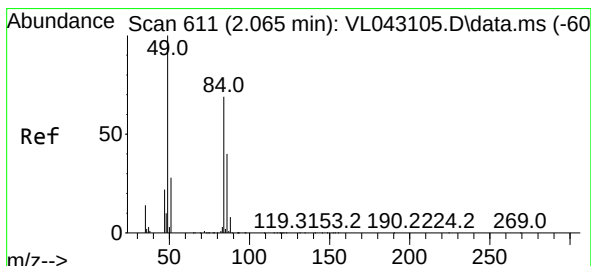
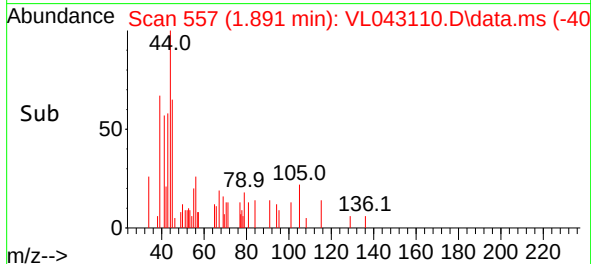
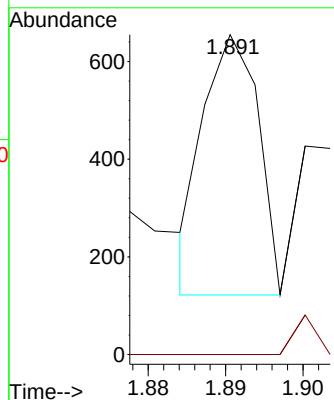
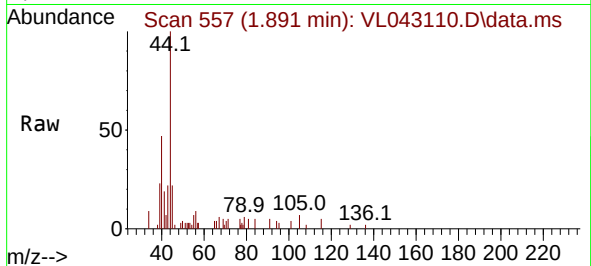




#19
Isopropyl Alcohol
Concen: 0.031 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

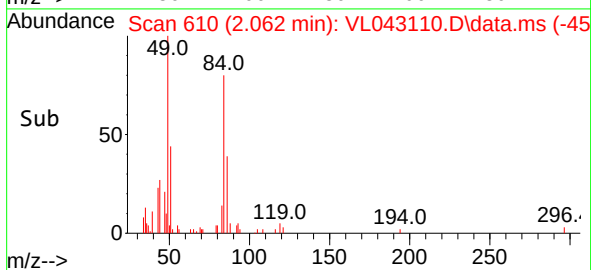
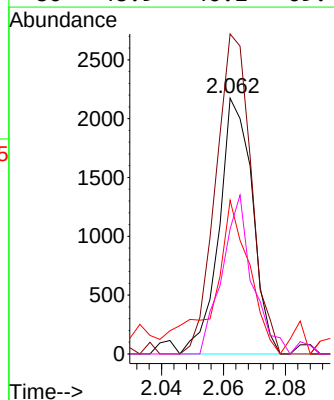
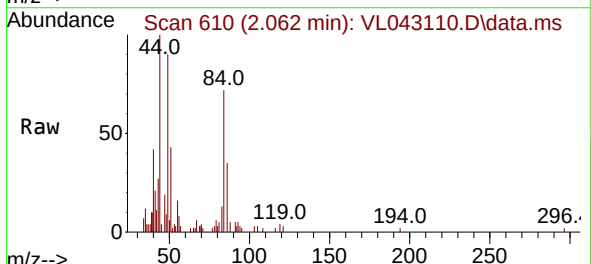
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

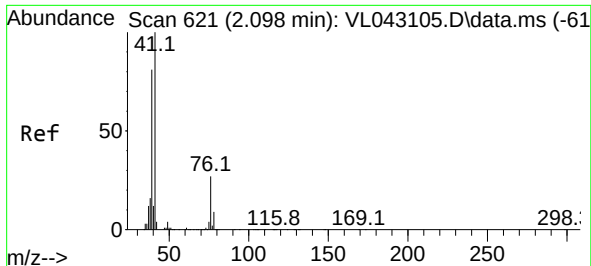
Tgt Ion: 45 Resp: 263
Ion Ratio Lower Upper
45 100
58 35.7 31.3 46.9



#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 84 Resp: 1624
Ion Ratio Lower Upper
84 100
49 125.2 116.6 175.0
51 60.1 34.8 52.2#
86 48.9 46.2 69.4

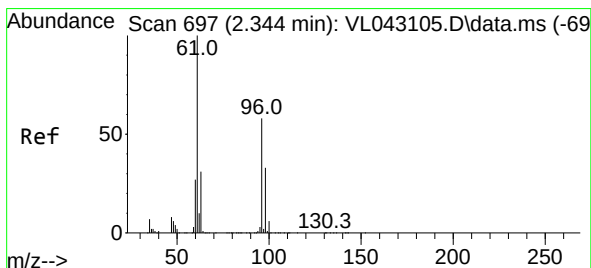
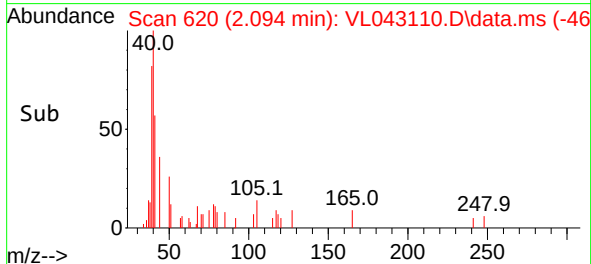
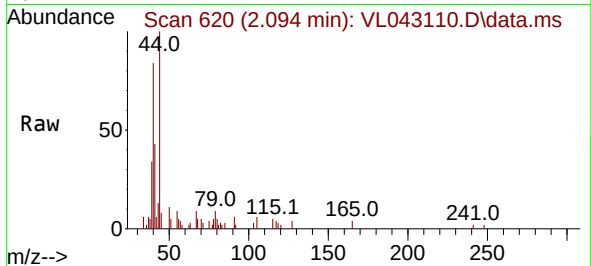




#21
 Allyl Chloride
 Concen: 0.065 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

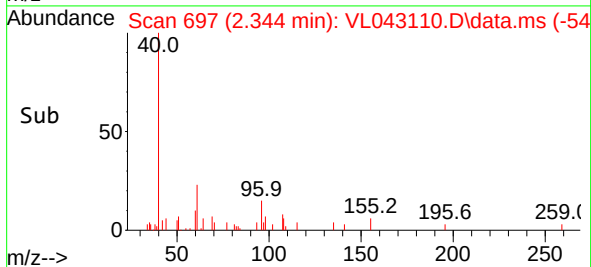
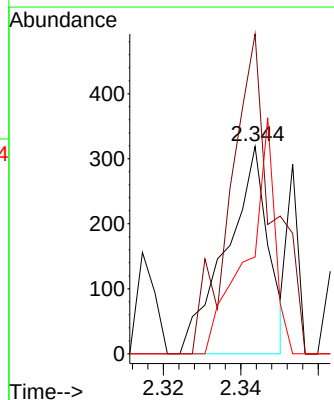
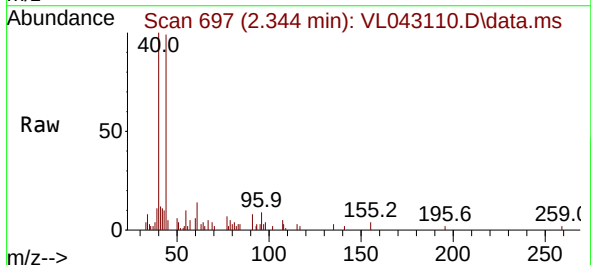
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

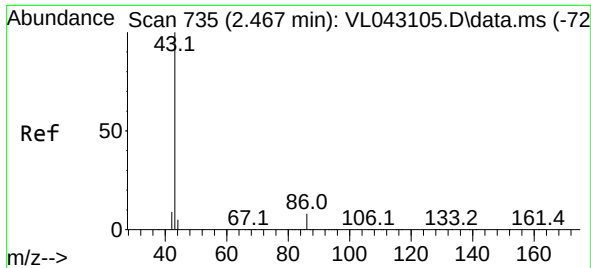
Tgt Ion: 41 Resp: 645
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.5 32.3#
 39 263.7 60.8 91.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.041 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 96 Resp: 240
 Ion Ratio Lower Upper
 96 100
 61 154.2 137.0 205.6
 98 46.7 45.5 68.3

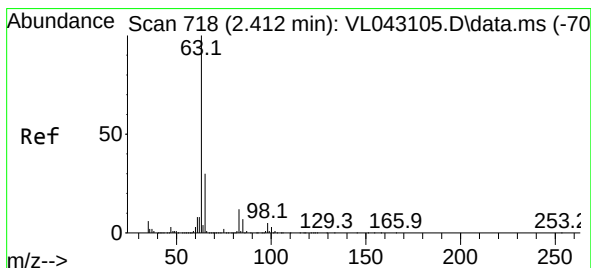
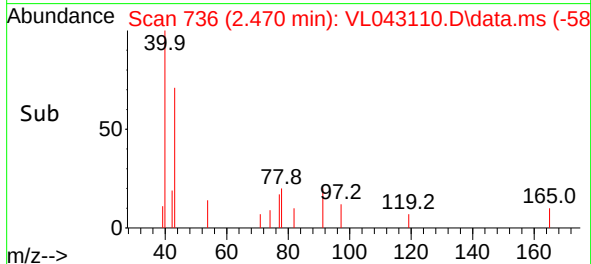
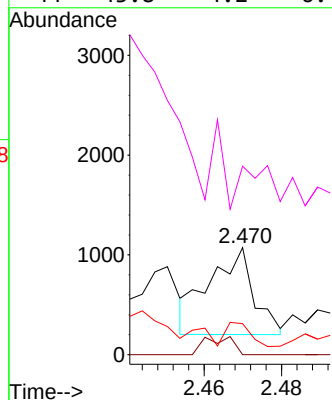
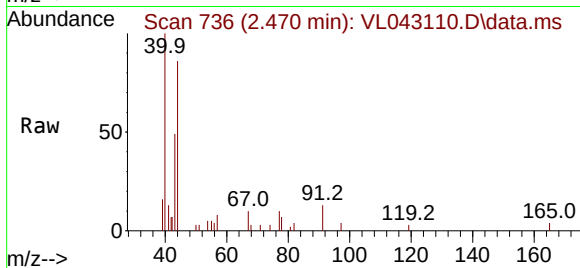




#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 2.470 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

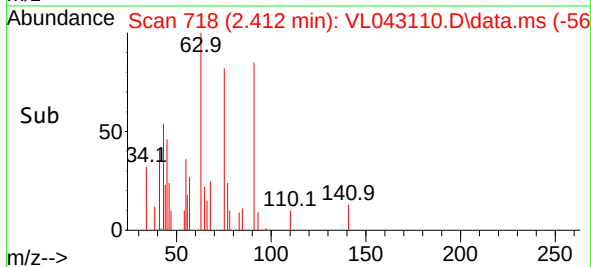
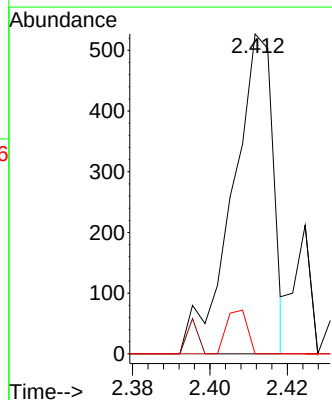
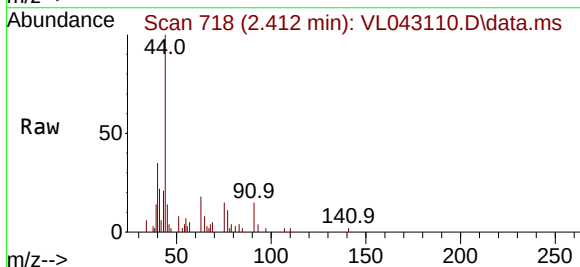
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

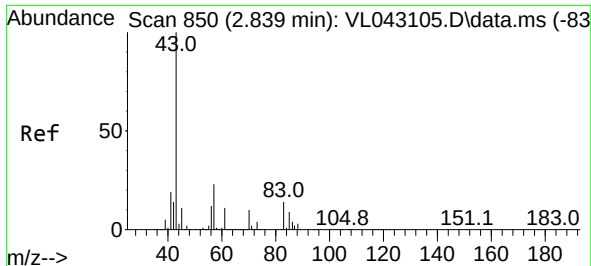
Tgt Ion: 43	Resp: 699
Ion Ratio	Lower Upper
43 100	
86 0.0	6.2 9.2#
42 27.9	7.6 11.4#
44 43.8	4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 0.034 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 63	Resp: 383
Ion Ratio	Lower Upper
63 100	
98 0.0	2.6 7.8#
100 0.0	1.5 4.4#

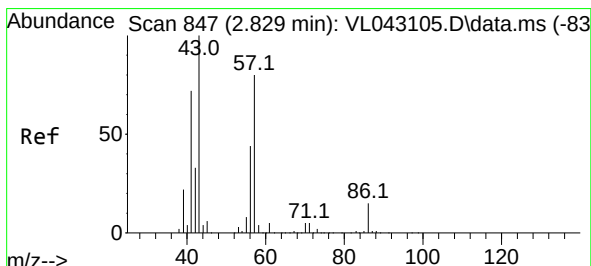
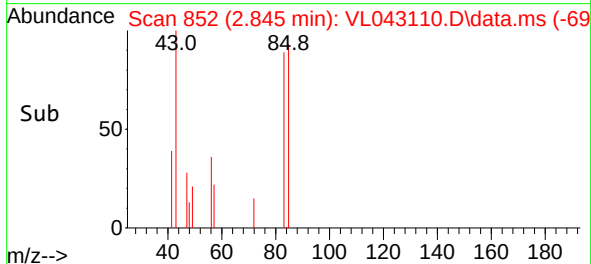
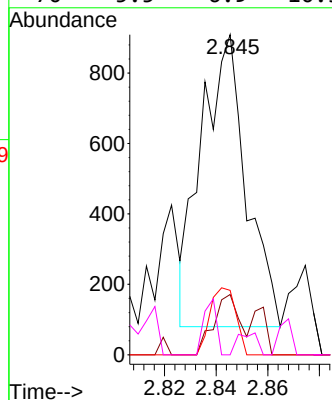
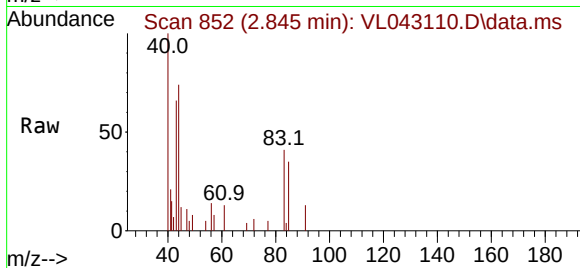




#25
Ethyl Acetate
Concen: 0.030 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

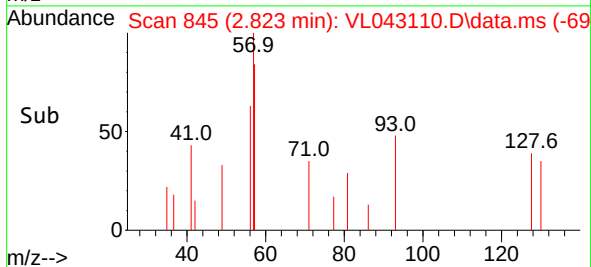
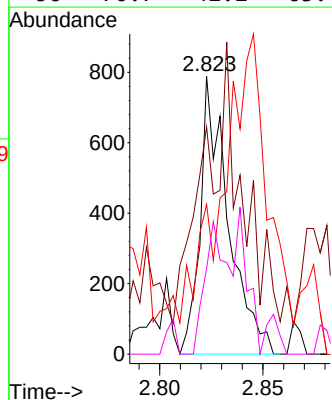
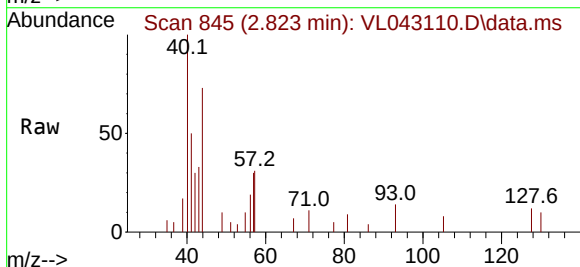
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

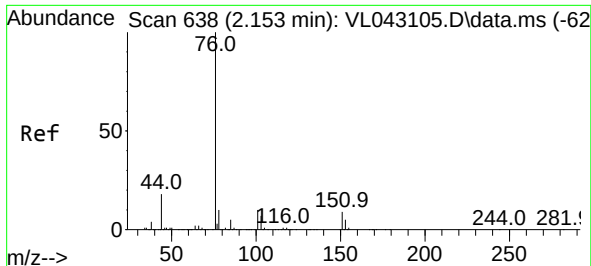
Tgt Ion: 43	Resp: 998
Ion Ratio	Lower Upper
43 100	
45 18.0	7.8 11.8#
61 13.2	7.0 10.6#
70 5.5	6.9 10.3#



#26
Hexane
Concen: 0.048 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 57	Resp: 740
Ion Ratio	Lower Upper
57 100	
41 136.4	71.4 107.0#
43 230.5	178.5 267.7
56 70.7	42.2 63.4#

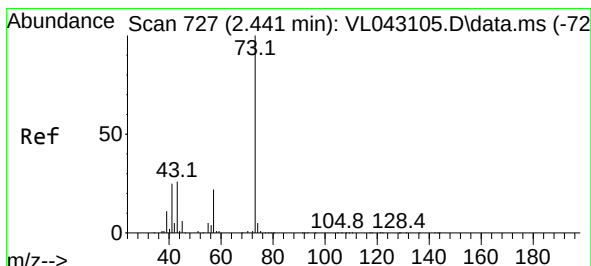
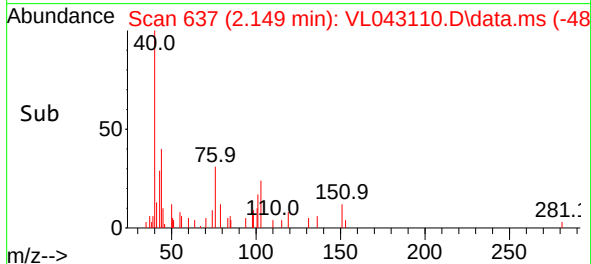
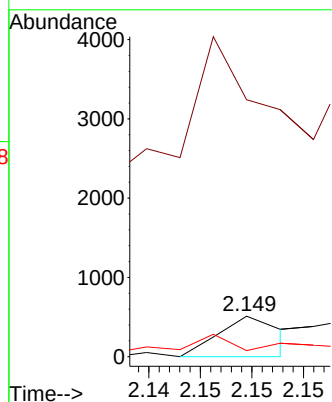
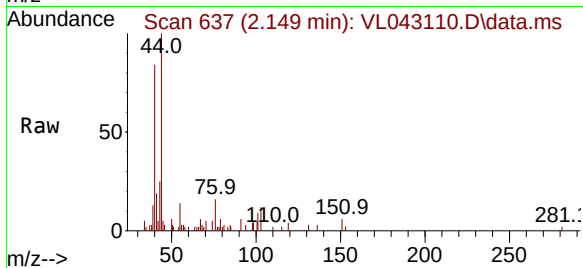




#27
Carbon Disulfide
Concen: 0.015 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

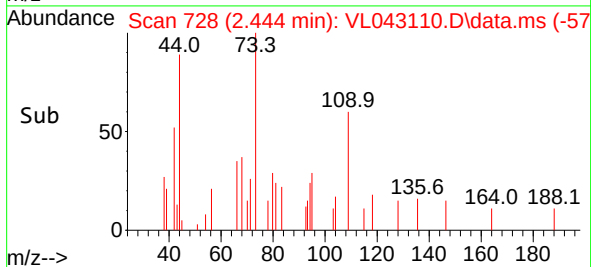
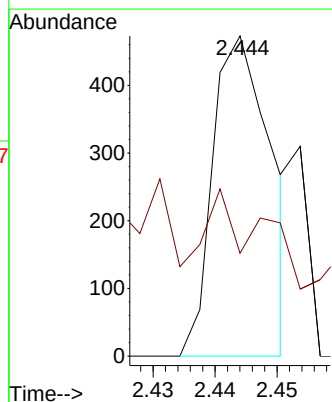
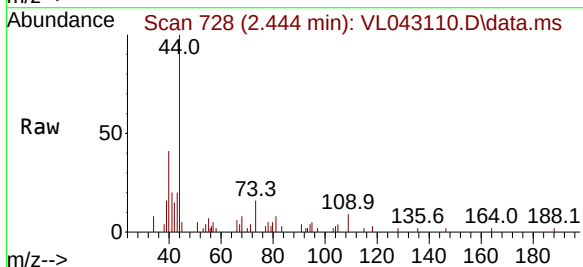
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

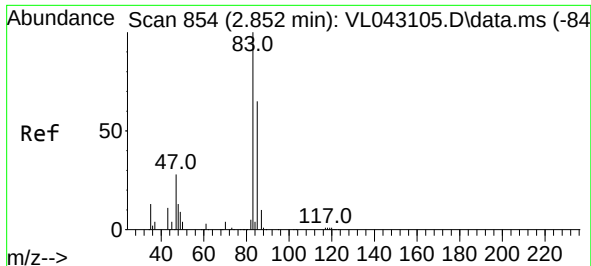
Tgt Ion: 76 Resp: 215
Ion Ratio Lower Upper
76 100
44 0.0 16.7 25.1#
78 209.8 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.044 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 73 Resp: 309
Ion Ratio Lower Upper
73 100
57 184.8 20.5 30.7#





#29

Chloroform

Concen: 0.038 ppbv

RT: 2.849 min Scan# 8

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

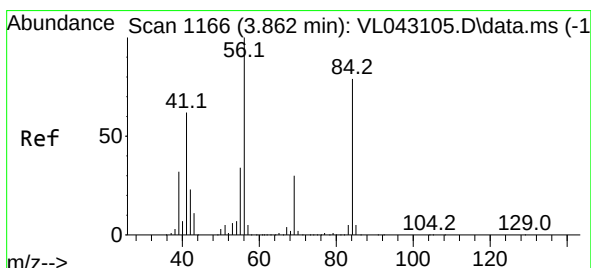
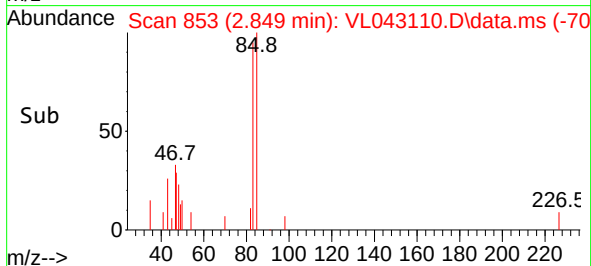
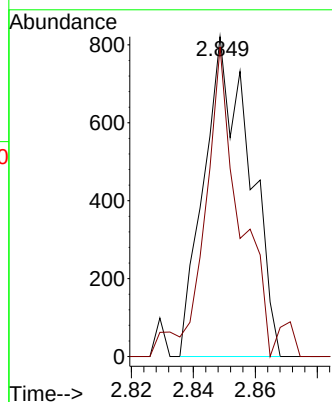
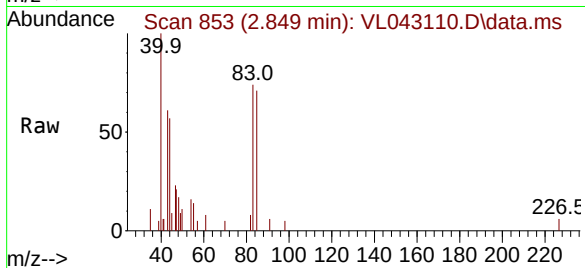
VSTDIC0.03

Tgt Ion: 83 Resp: 839

Ion Ratio Lower Upper

83 100

85 90.7 51.8 77.6#



#30

Cyclohexane

Concen: 0.021 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

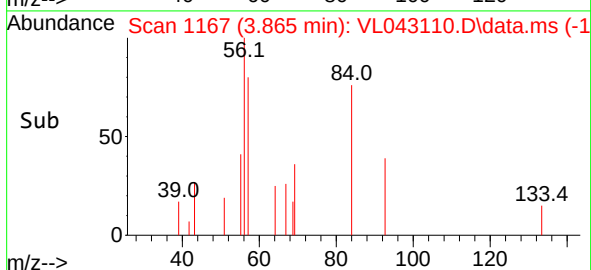
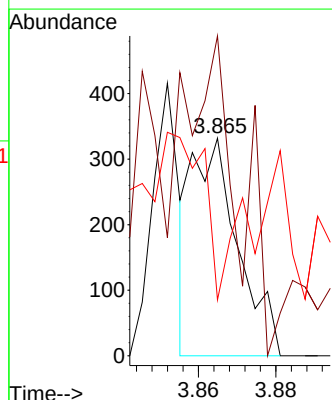
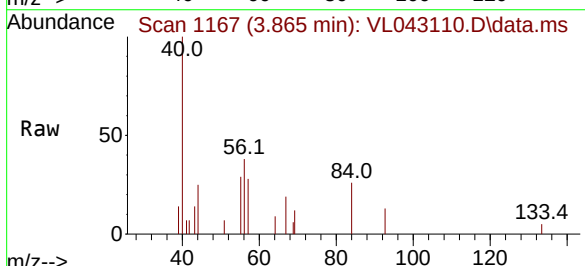
Tgt Ion: 84 Resp: 276

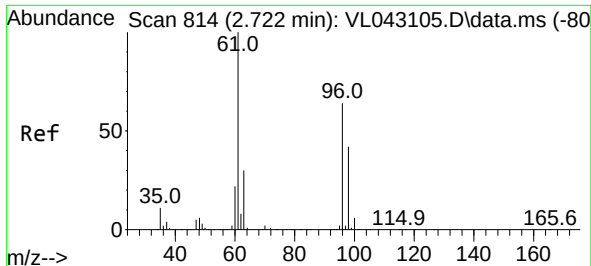
Ion Ratio Lower Upper

84 100

56 324.3 100.9 151.3#

41 0.0 63.8 95.6#

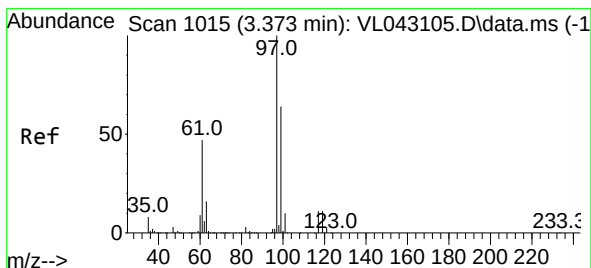
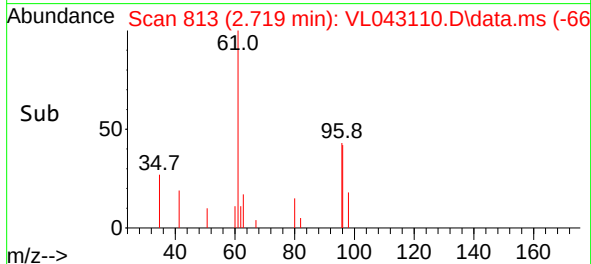
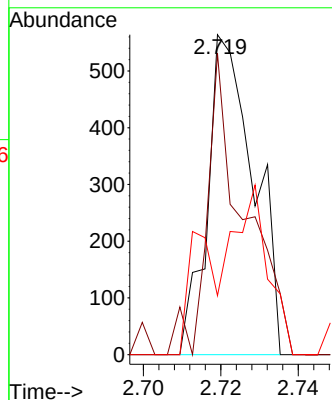
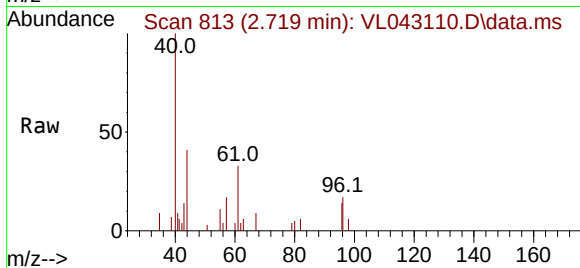




#31
 cis-1,2-Dichloroethene
 Concen: 0.032 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

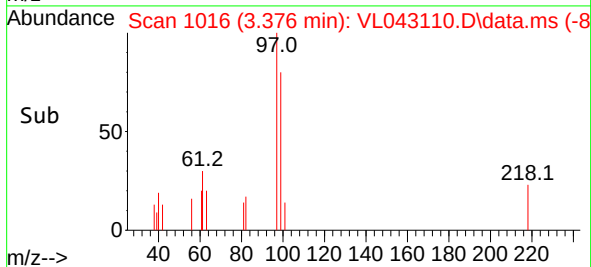
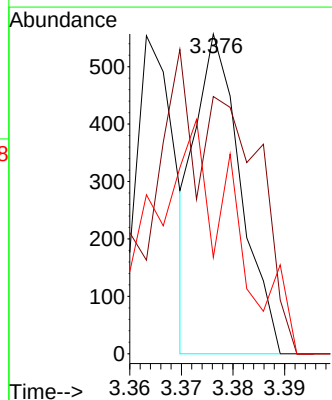
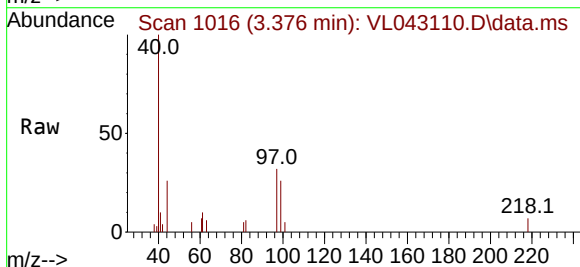
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

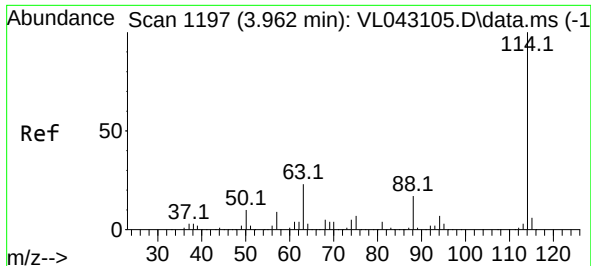
Tgt Ion: 61 Resp: 467
 Ion Ratio Lower Upper
 61 100
 96 79.3 51.0 76.6#
 98 18.4 33.5 50.3#



#32
 1,1,1-Trichloroethane
 Concen: 0.014 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 97 Resp: 336
 Ion Ratio Lower Upper
 97 100
 99 185.7 51.3 76.9#
 61 149.7 38.4 57.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

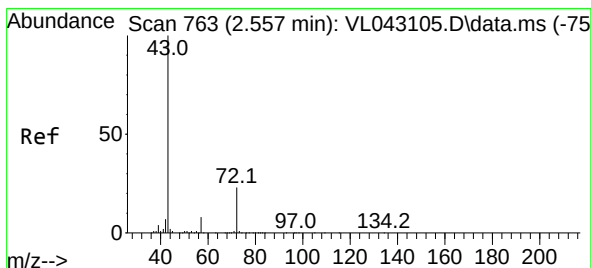
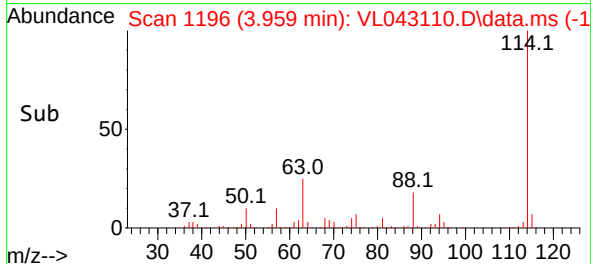
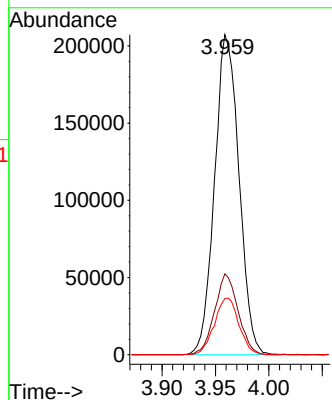
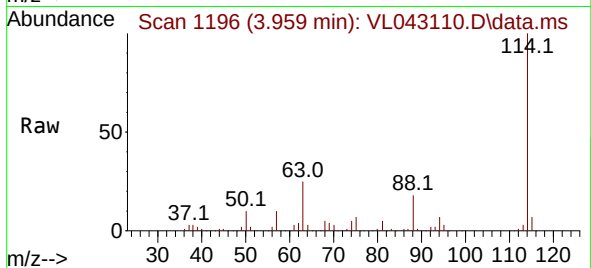
Tgt Ion:114 Resp: 328897

Ion Ratio Lower Upper

114 100

63 24.3 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 0.041 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043110.D

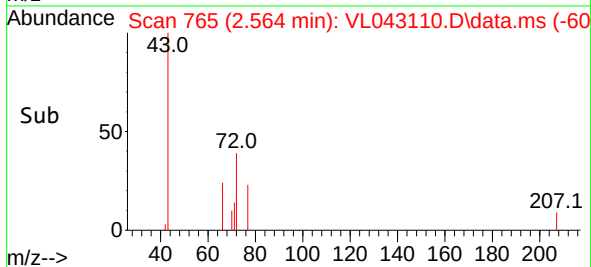
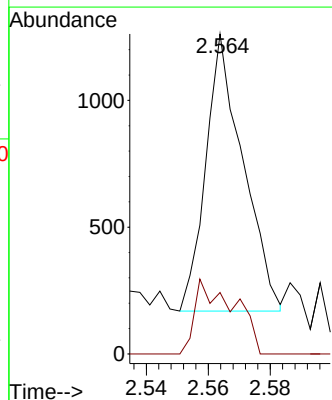
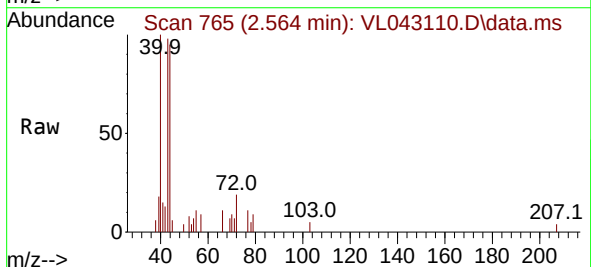
Acq: 14 Oct 2025 13:42

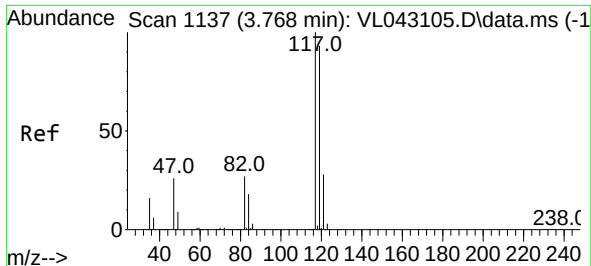
Tgt Ion: 43 Resp: 909

Ion Ratio Lower Upper

43 100

72 28.4 18.4 27.6#

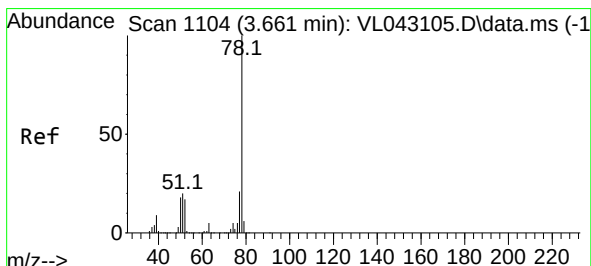
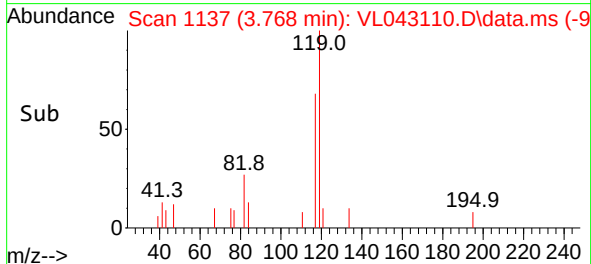
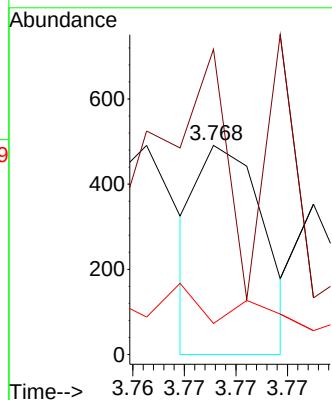
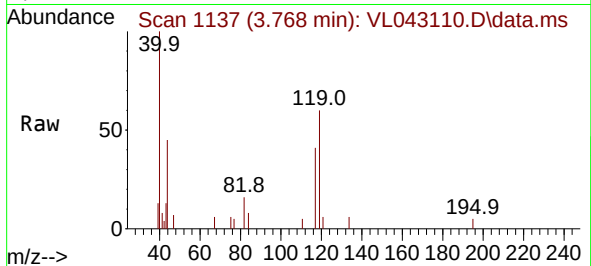




#35
Carbon Tetrachloride
Concen: 0.009 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

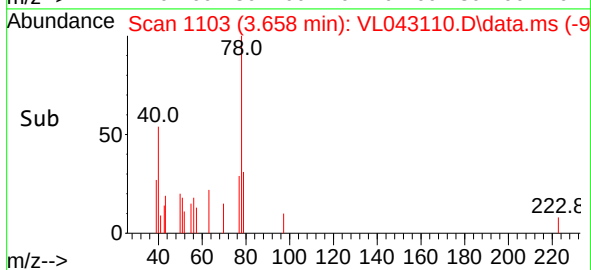
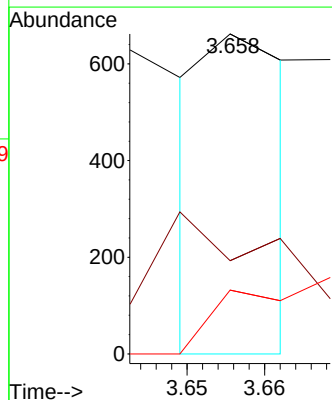
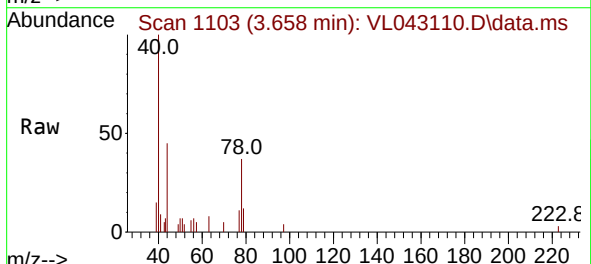
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

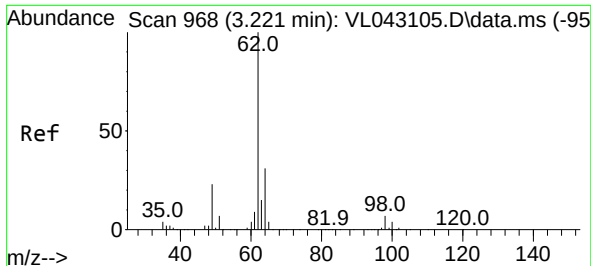
Tgt Ion:117 Resp: 216
Ion Ratio Lower Upper
117 100
119 74.1 74.1 111.1
121 0.0 22.2 33.2#



#36
Benzene
Concen: 0.008 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 78 Resp: 246
Ion Ratio Lower Upper
78 100
77 0.0 17.0 25.6#
50 244.4 14.6 22.0#

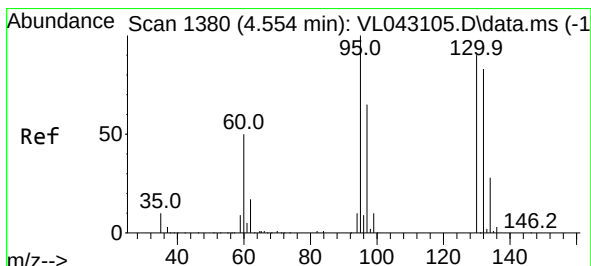
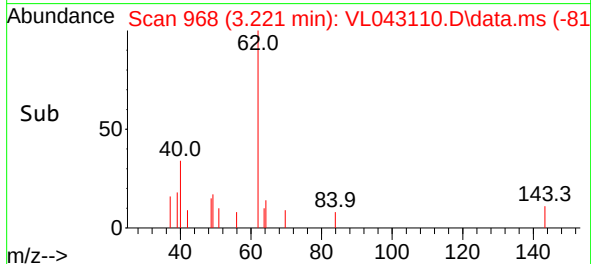
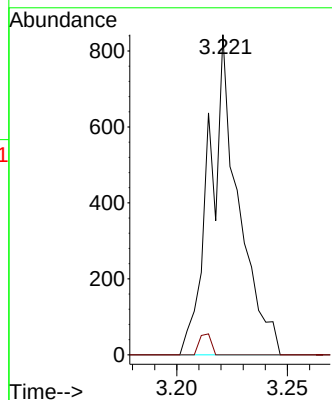
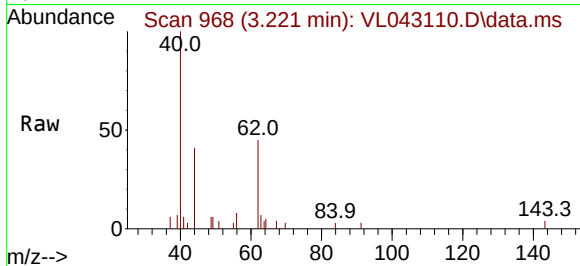




#37
1,2-Dichloroethane
Concen: 0.043 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

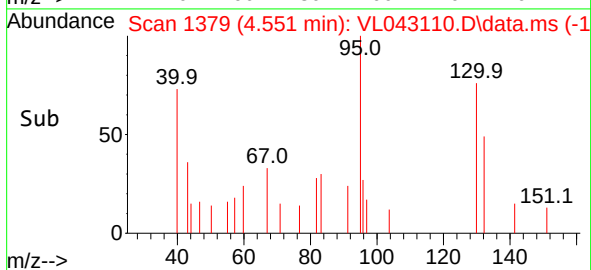
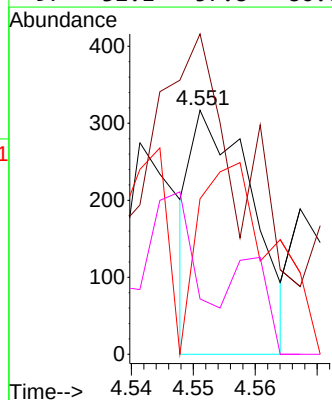
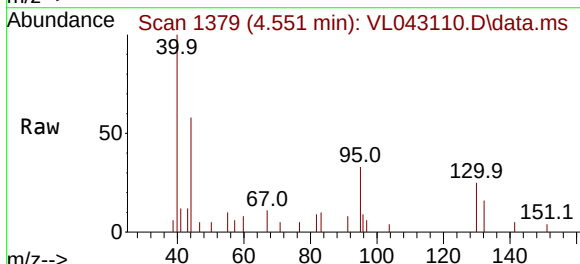
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

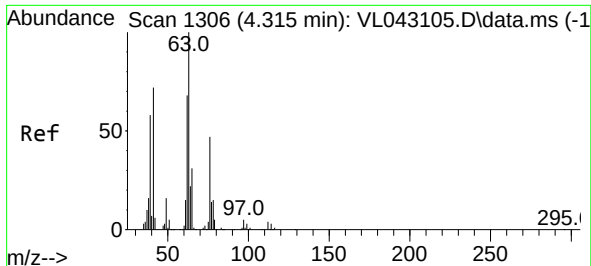
Tgt Ion: 62 Resp: 772
Ion Ratio Lower Upper
62 100
98 2.7 5.8 8.6#



#38
Trichloroethene
Concen: 0.017 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:130 Resp: 216
Ion Ratio Lower Upper
130 100
95 136.6 88.6 133.0#
132 90.2 73.4 110.0
97 32.1 57.8 86.6#





#39

1,2-Dichloropropane

Concen: 7.052 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.356 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

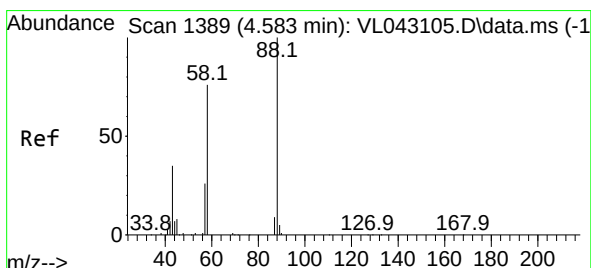
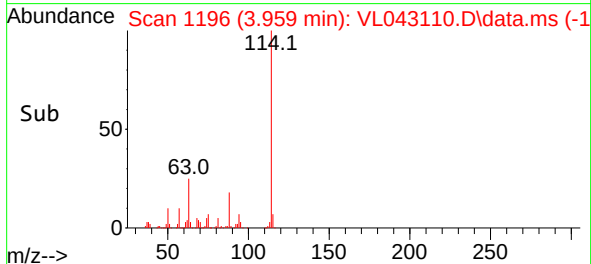
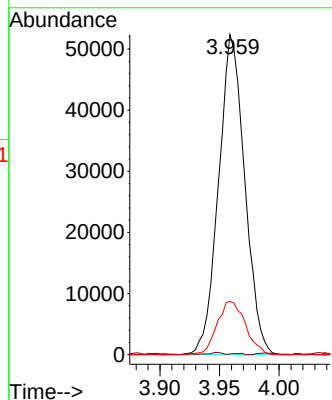
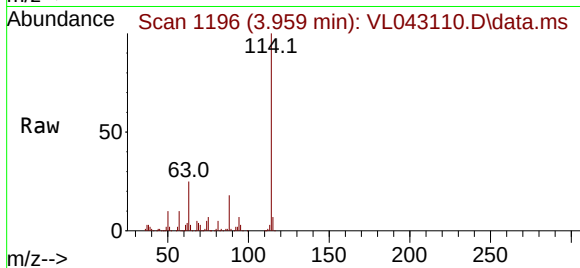
Tgt Ion: 63 Resp: 79938

Ion Ratio Lower Upper

63 100

41 0.2 58.0 87.0#

62 16.7 54.7 82.1#



#40

1,4-Dioxane

Concen: 0.007 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.026 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Tgt Ion: 88 Resp: 33

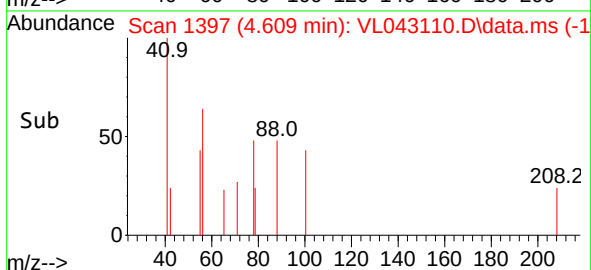
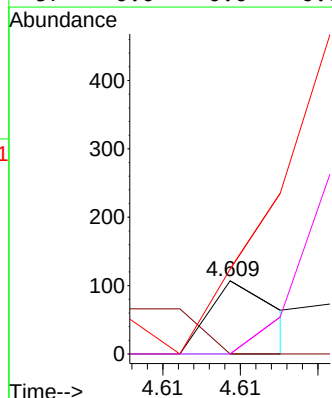
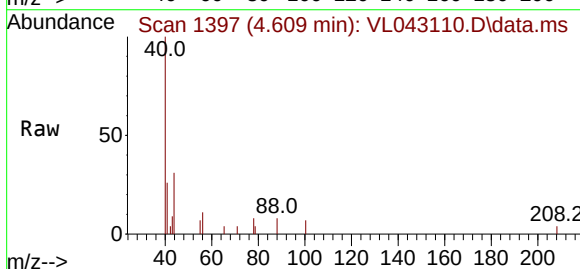
Ion Ratio Lower Upper

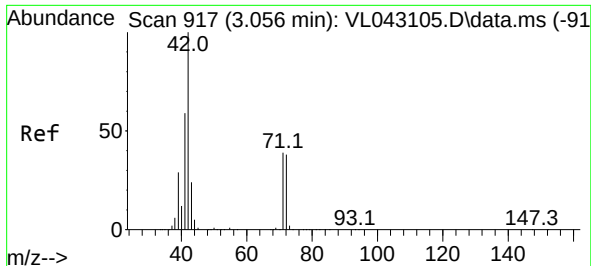
88 100

58 0.0 61.1 91.7#

43 303.0 24.0 36.0#

57 0.0 0.0 0.0

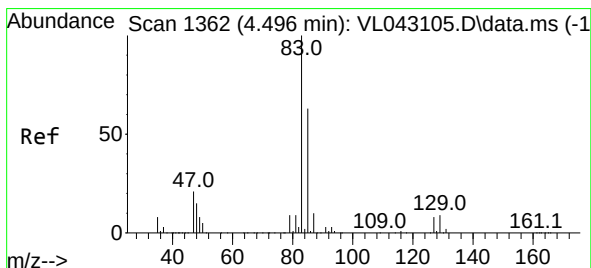
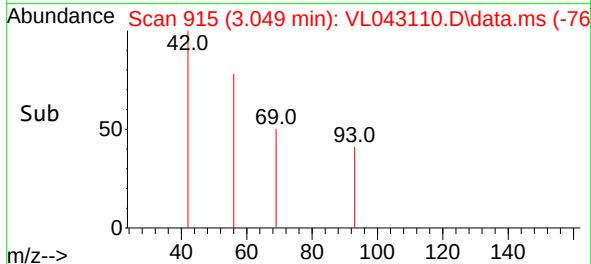
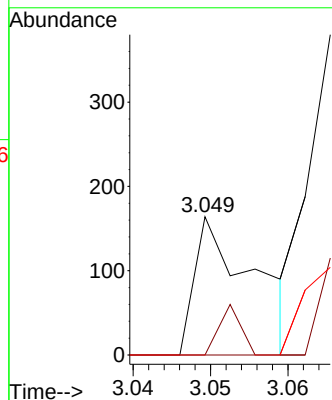
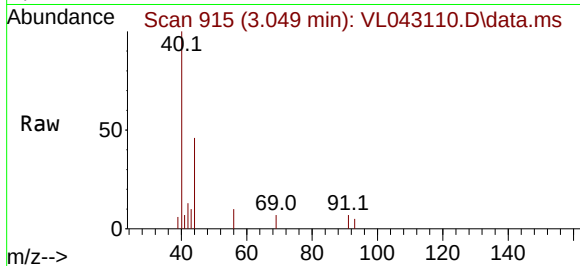




#41
Tetrahydrofuran
Concen: 0.007 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

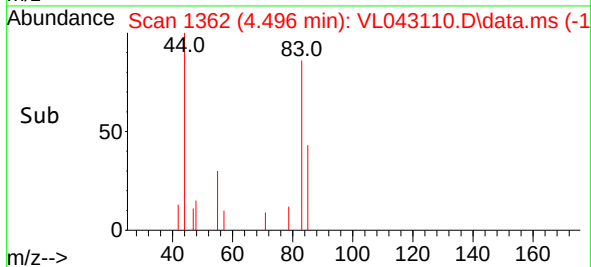
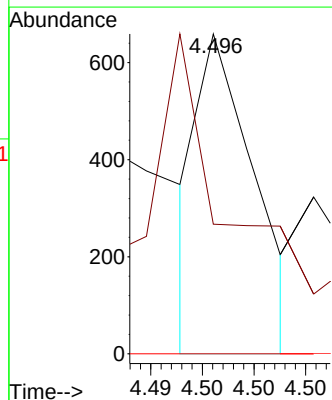
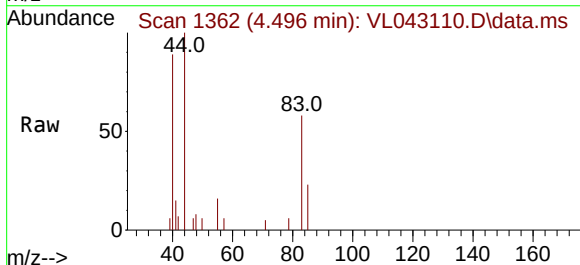
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

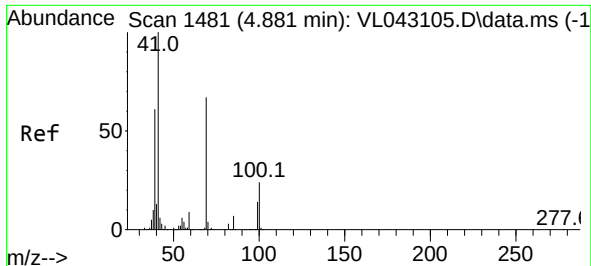
Tgt Ion: 42 Resp: 87
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9#
71 0.0 30.4 45.6#



#42
Bromodichloromethane
Concen: 0.010 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 83 Resp: 250
Ion Ratio Lower Upper
83 100
85 0.9 50.6 75.8#
127 0.0 6.3 9.5#

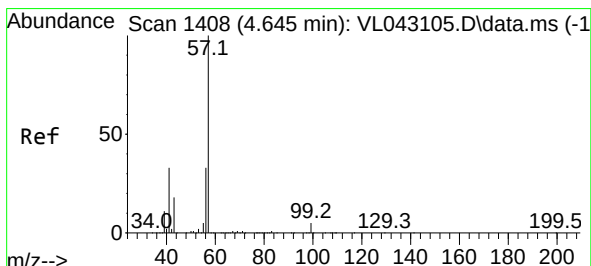
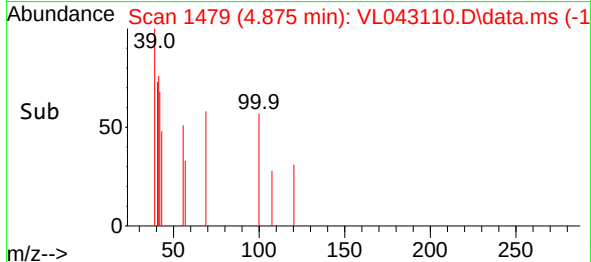
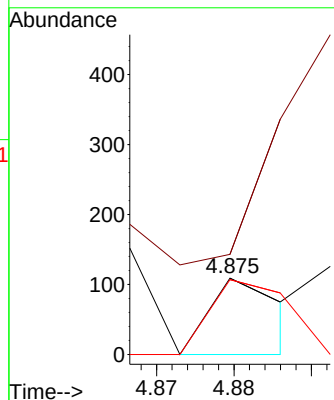
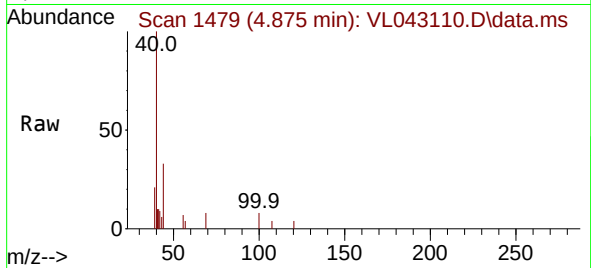




#43
Methyl Methacrylate
Concen: 0.002 ppbv
RT: 4.875 min Scan# 1481
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

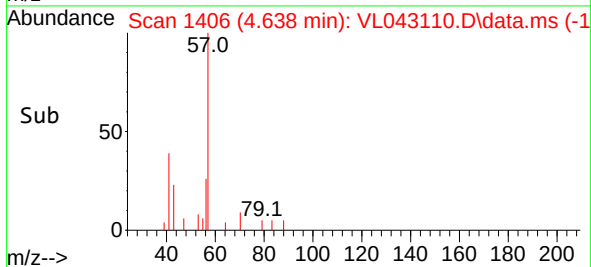
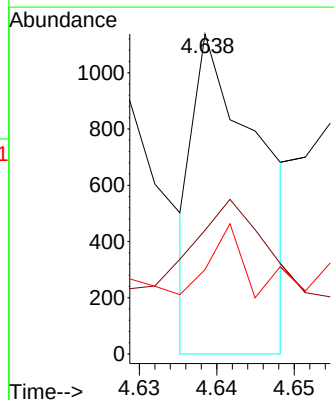
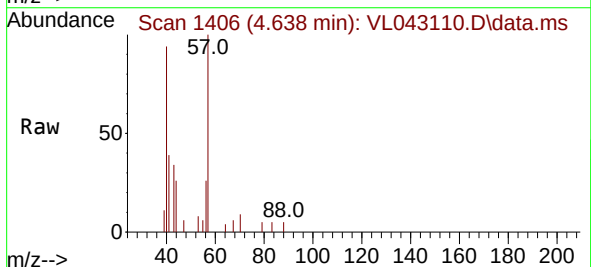
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

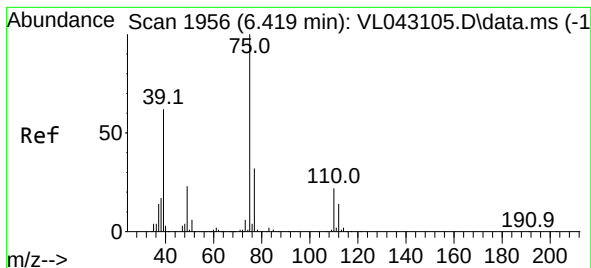
Tgt Ion: 69 Resp: 36
Ion Ratio Lower Upper
69 100
41 0.0 120.5 180.7#
100 0.0 29.0 43.4#



#44
2,2,4-Trimethylpentane
Concen: 0.013 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 57 Resp: 669
Ion Ratio Lower Upper
57 100
41 234.7 26.3 39.5#
56 122.3 25.9 38.9#





#45

t-1,3-Dichloropropene

Concen: 0.010 ppbv

RT: 6.415 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

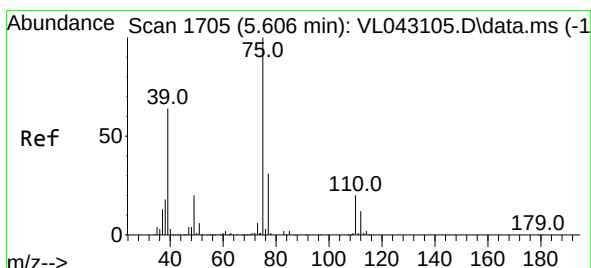
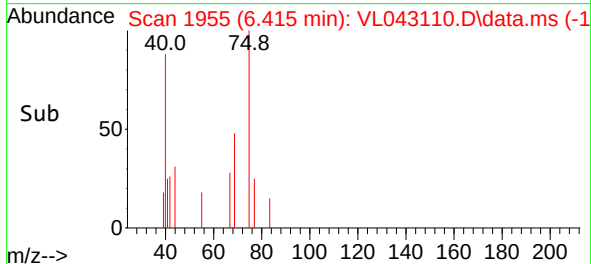
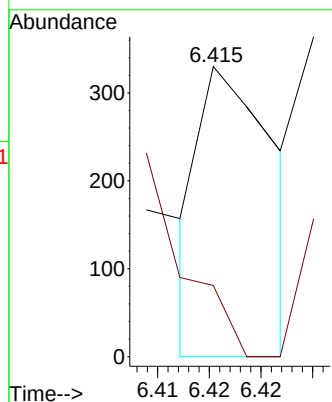
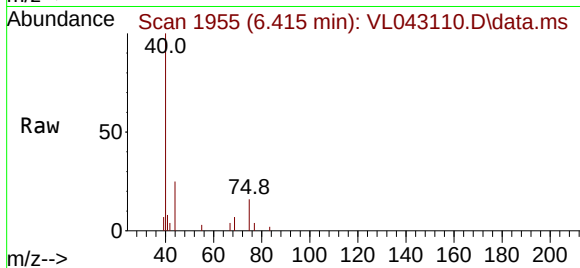
VSTDIC0.03

Tgt Ion: 75 Resp: 165

Ion Ratio Lower Upper

75 100

77 24.5 25.4 38.2#



#46

cis-1,3-Dichloropropene

Concen: 0.014 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

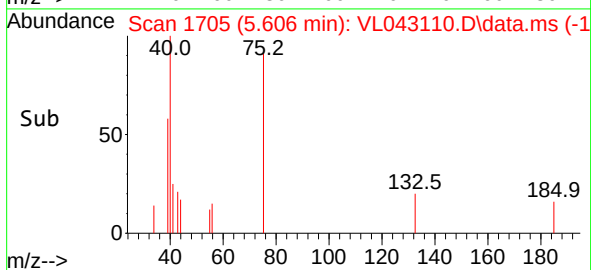
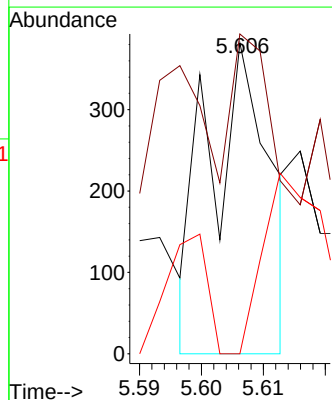
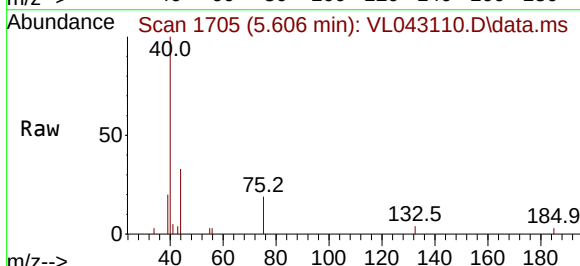
Tgt Ion: 75 Resp: 261

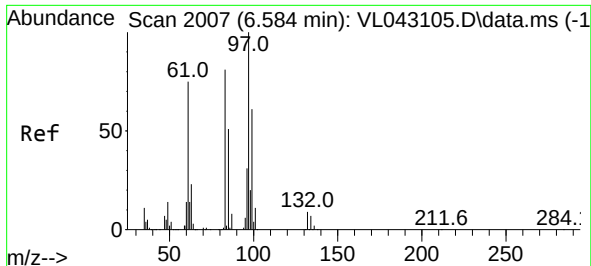
Ion Ratio Lower Upper

75 100

39 62.3 51.0 76.6

77 0.0 25.0 37.4#



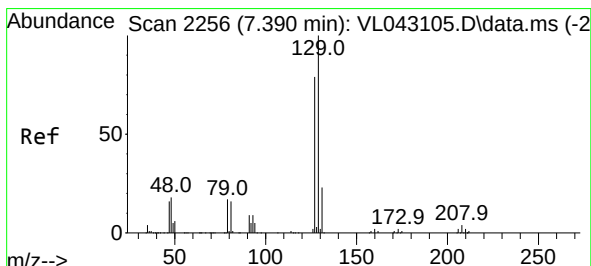
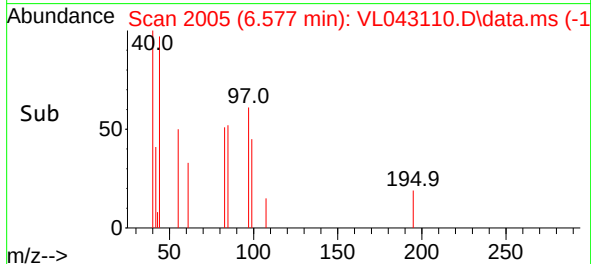
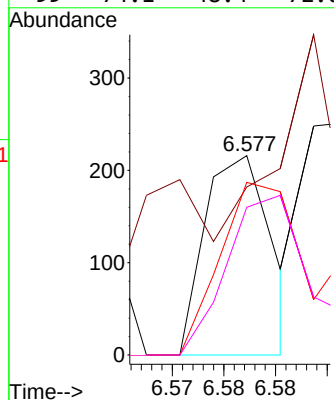
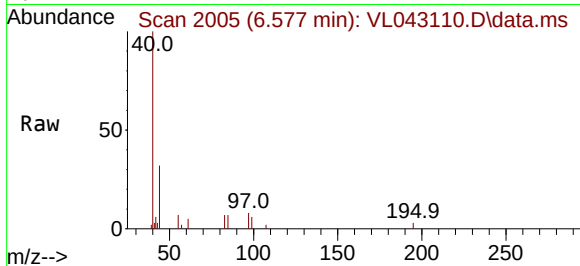


#47
1,1,2-Trichloroethane
Concen: 0.008 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 97 Resp: 98

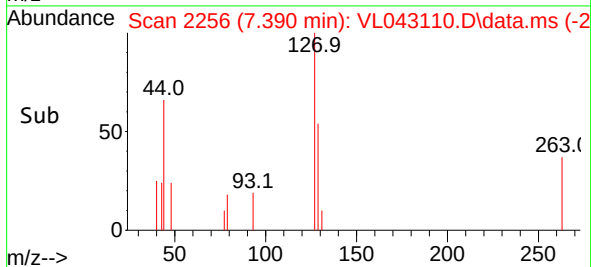
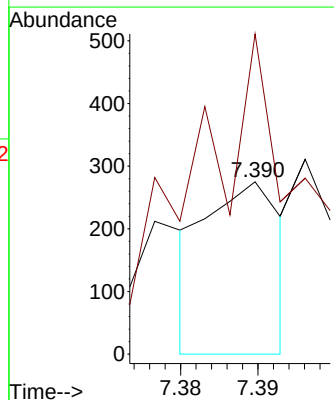
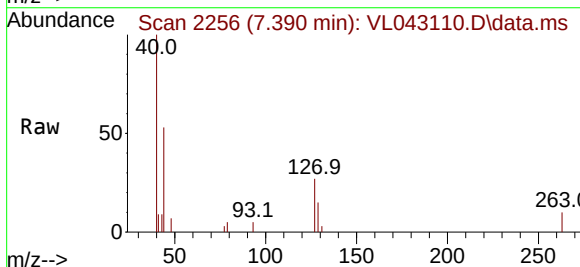
Ion	Ratio	Lower	Upper
97	100		
83	0.0	64.6	96.8#
85	86.6	40.6	60.8#
99	74.1	48.4	72.6#

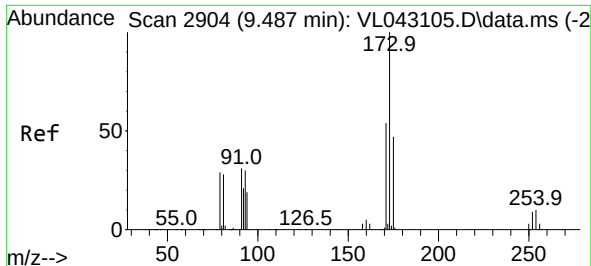


#48
Dibromochloromethane
Concen: 0.009 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 129 Resp: 186

Ion	Ratio	Lower	Upper
129	100		
127	311.3	39.3	117.9#





#49

Bromoform

Concen: 0.019 ppbv

RT: 9.480 min Scan# 2904

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

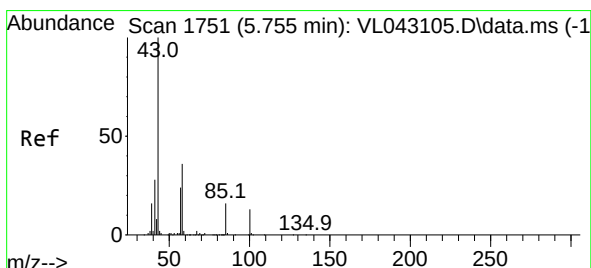
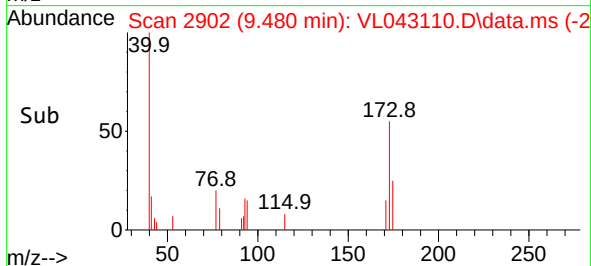
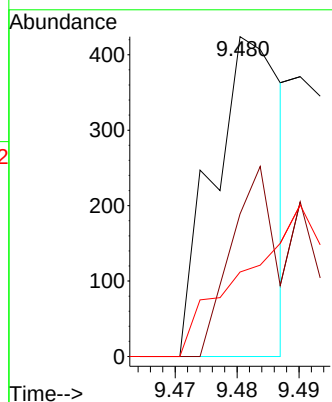
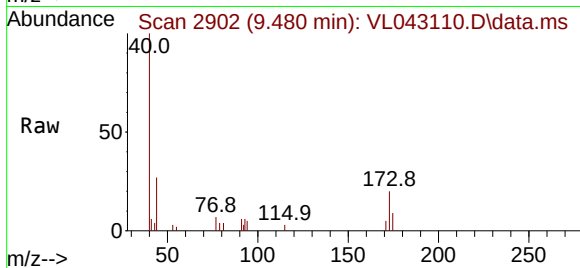
Tgt Ion:173 Resp: 323

Ion Ratio Lower Upper

173 100

175 56.3 38.8 58.2

171 0.0 41.7 62.5#



#50

4-Methyl-2-Pentanone

Concen: 0.009 ppbv

RT: 5.762 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VL043110.D

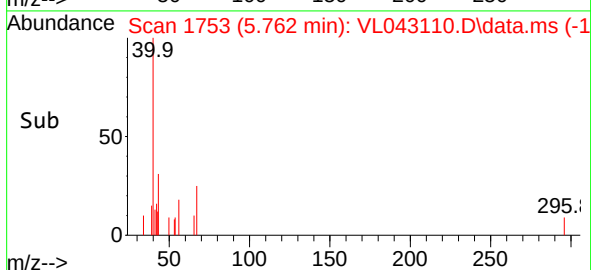
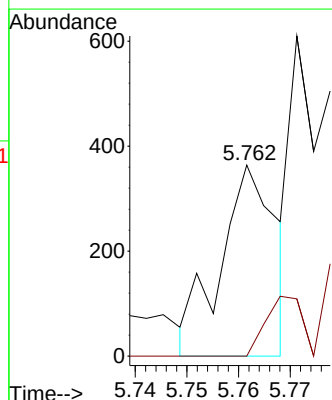
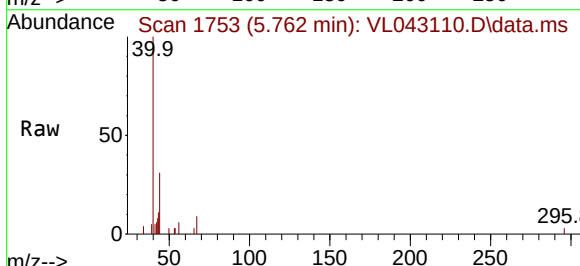
Acq: 14 Oct 2025 13:42

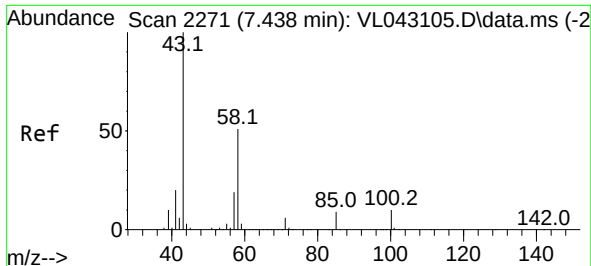
Tgt Ion: 43 Resp: 271

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#

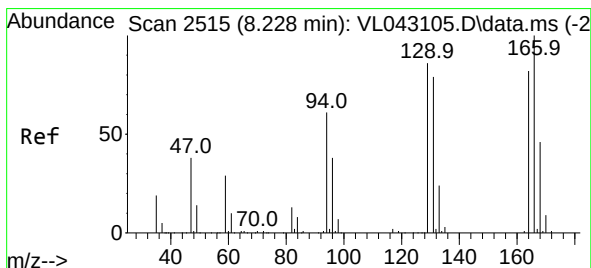
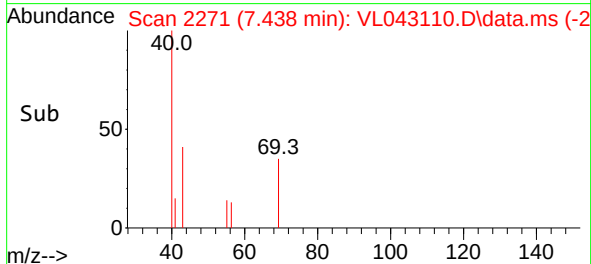
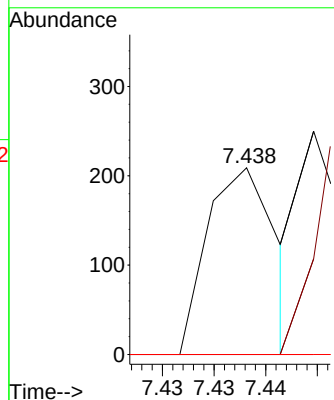
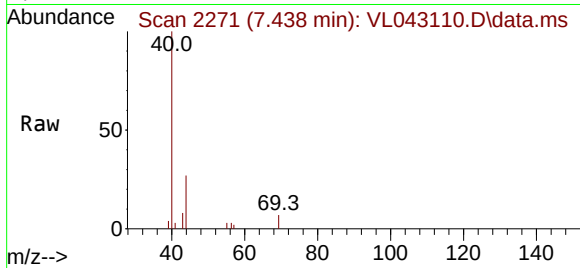




#51
2-Hexanone
Concen: 0.004 ppbv
RT: 7.438 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

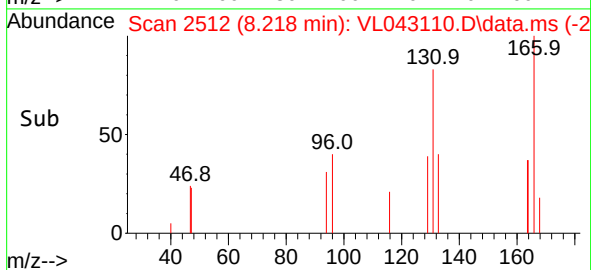
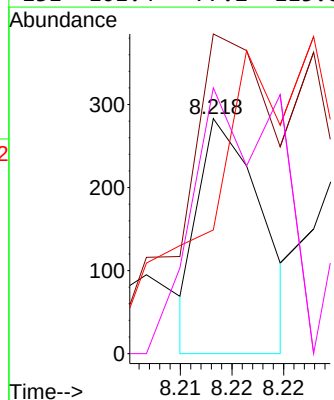
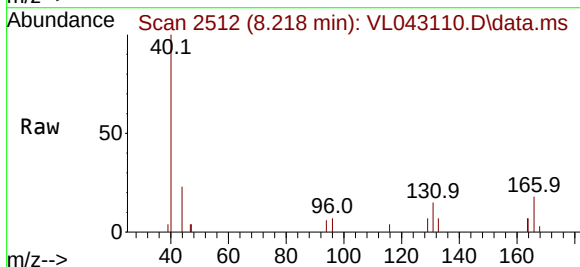
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

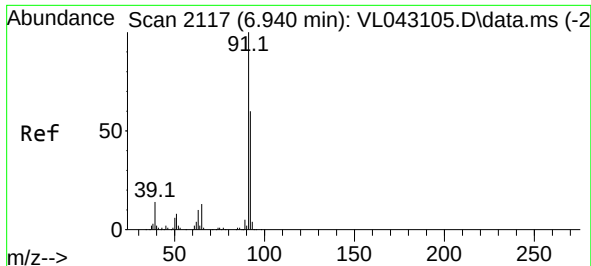
Tgt Ion: 43 Resp: 98
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.011 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 164 Resp: 120
Ion Ratio Lower Upper
164 100
166 125.2 97.6 146.4
129 8.9 84.5 126.7#
131 101.4 77.2 115.8

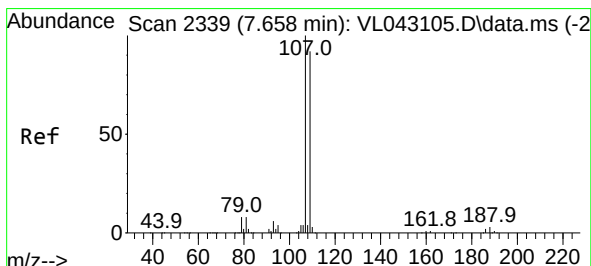
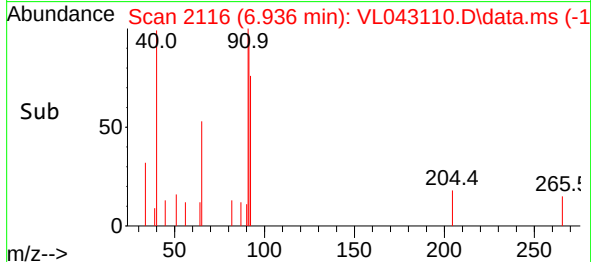
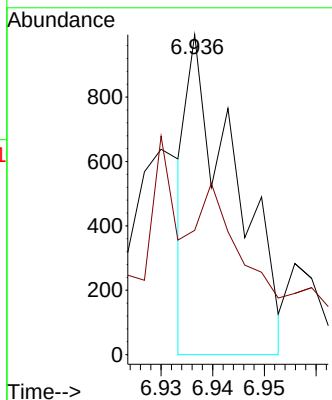
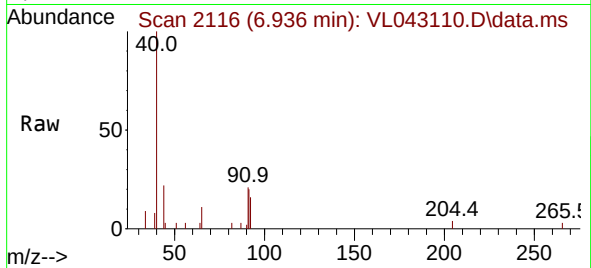




#53
Toluene
Concen: 0.017 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

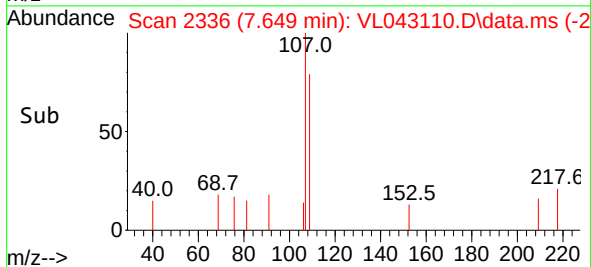
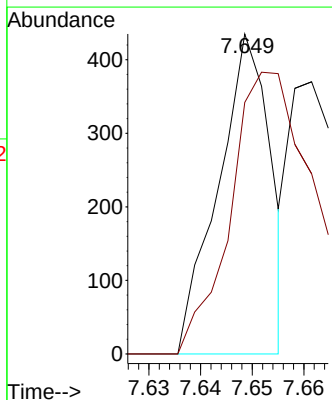
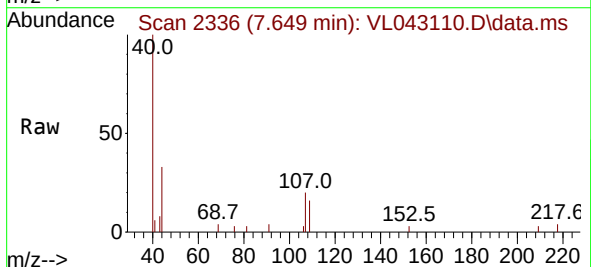
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

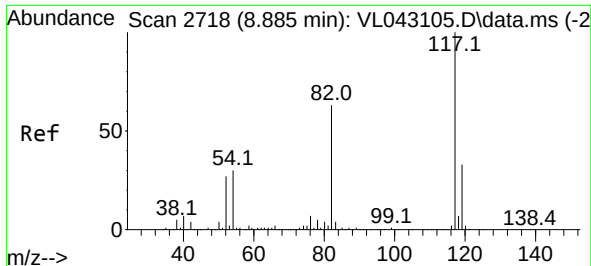
Tgt Ion: 91 Resp: 632
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2#



#54
1,2-Dibromoethane
Concen: 0.016 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 107 Resp: 308
Ion Ratio Lower Upper
107 100
109 78.6 73.4 110.2

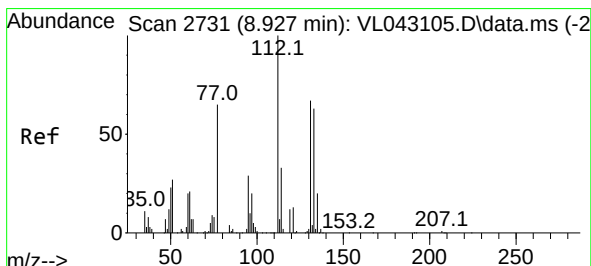
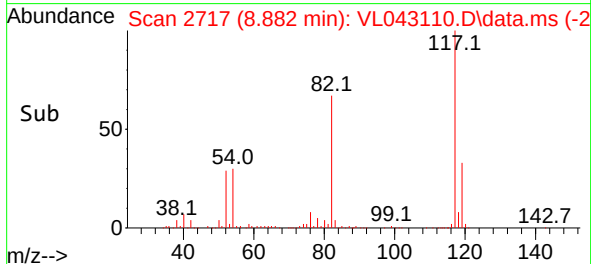
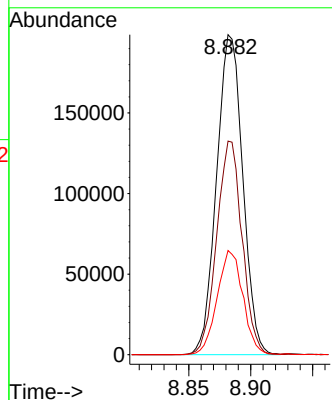
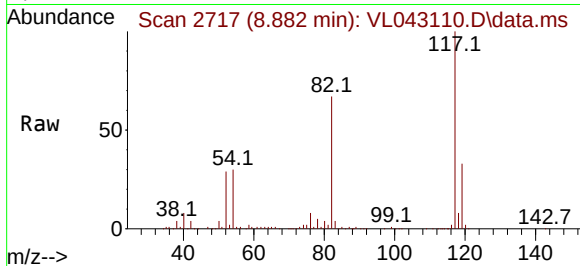




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2718
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

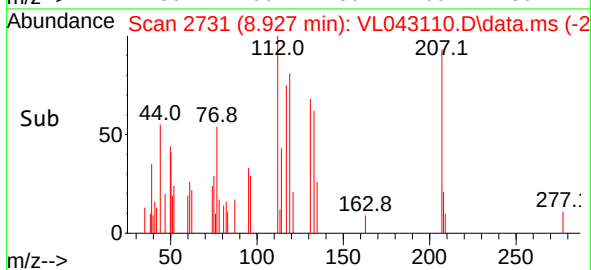
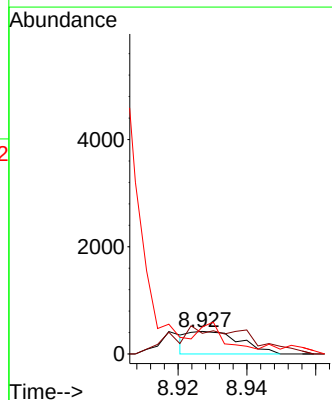
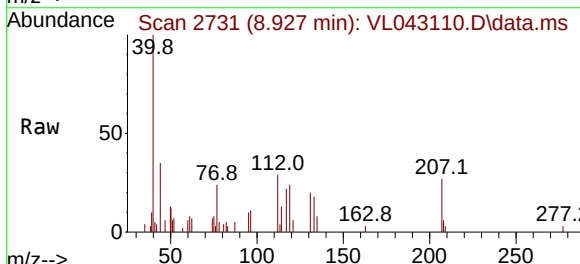
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

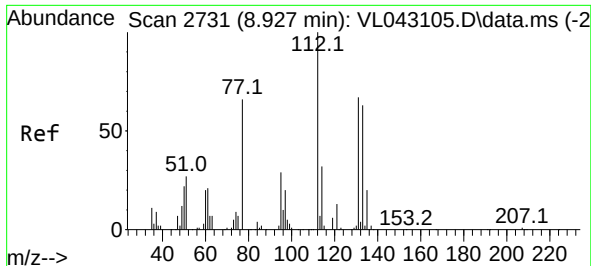
Tgt Ion:117 Resp: 292884
Ion Ratio Lower Upper
117 100
82 64.7 53.8 80.8
119 32.1 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.024 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:131 Resp: 441
Ion Ratio Lower Upper
131 100
133 181.0 75.7 113.5#
119 0.0 50.6 76.0#





#57

Chlorobenzene

Concen: 0.028 ppbv

RT: 8.921 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

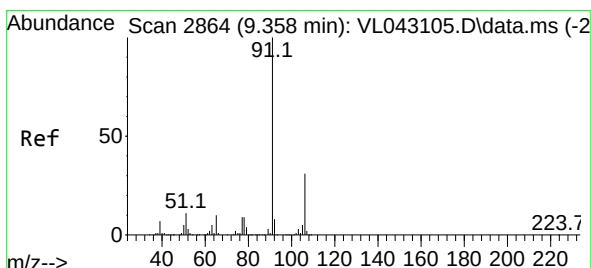
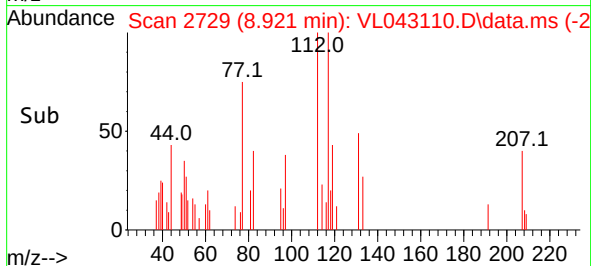
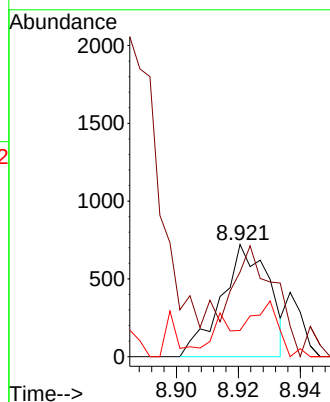
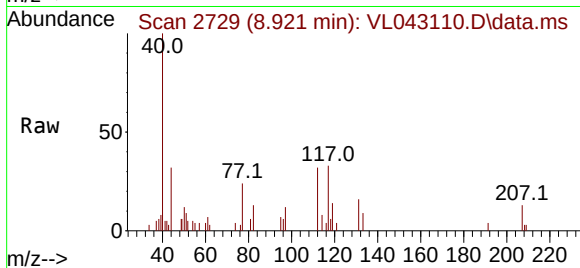
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:112	Resp:	764
Ion	Ratio	Lower Upper
112	100	
77	33.7	53.3 79.9#
114	16.0	29.3 35.8#



#58

Ethyl Benzene

Concen: 0.024 ppbv

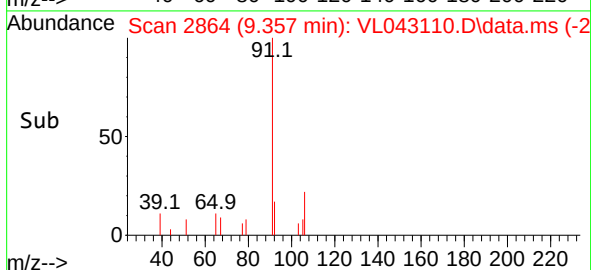
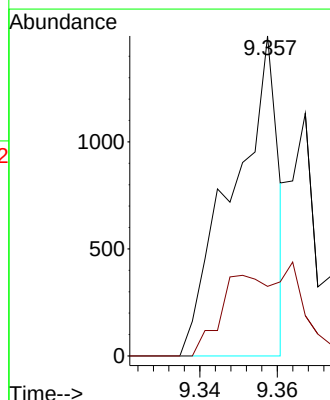
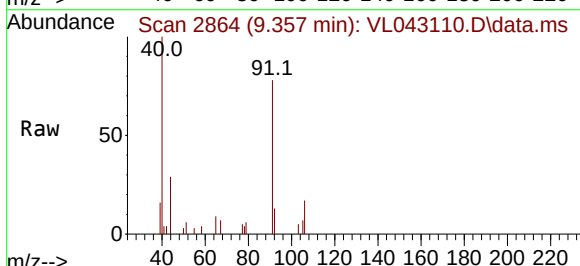
RT: 9.357 min Scan# 2864

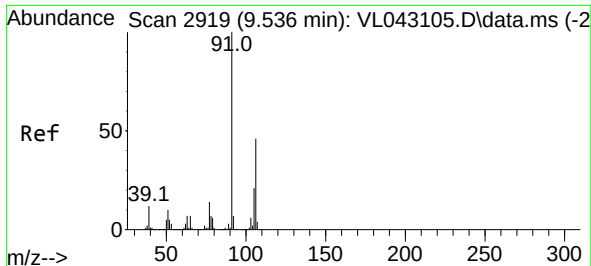
Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Tgt Ion: 91	Resp:	1218
Ion	Ratio	Lower Upper
91	100	
106	21.7	24.8 37.2#





#59

m/p-Xylene

Concen: 0.019 ppbv

RT: 9.529 min Scan# 2919

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

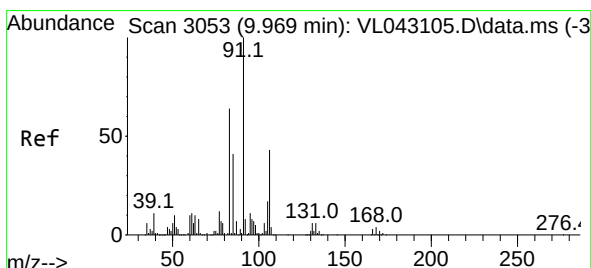
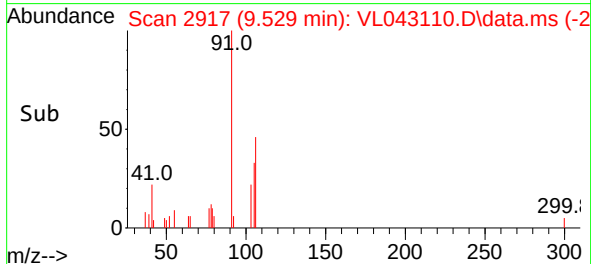
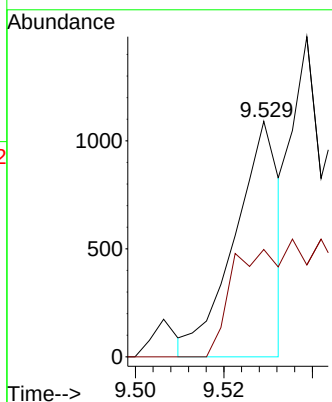
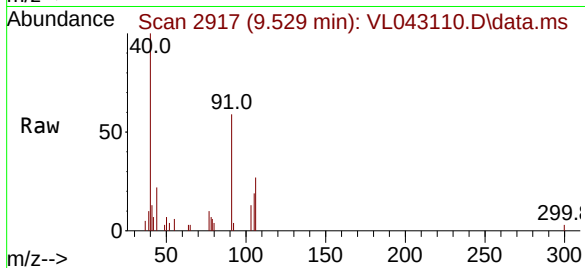
VSTDIC0.03

Tgt Ion: 91 Resp: 759

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 0.018 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL043110.D

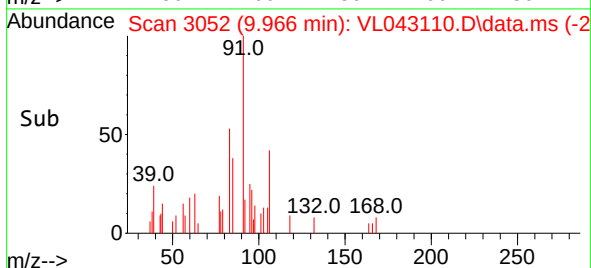
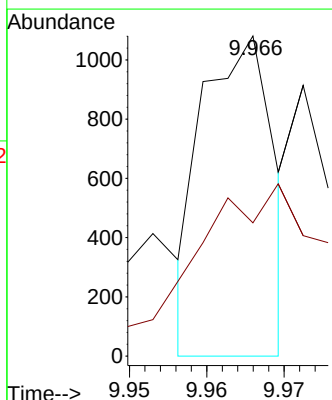
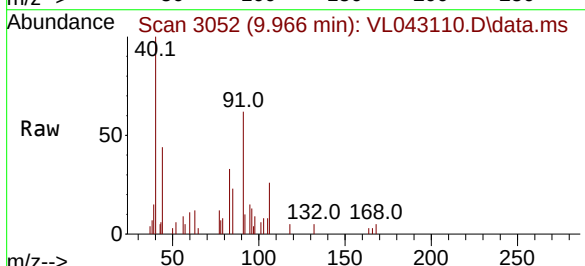
Acq: 14 Oct 2025 13:42

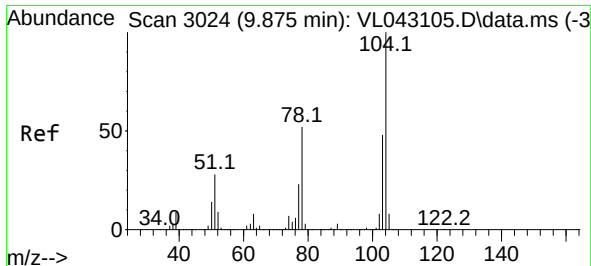
Tgt Ion: 91 Resp: 693

Ion Ratio Lower Upper

91 100

106 0.0 21.9 65.8#

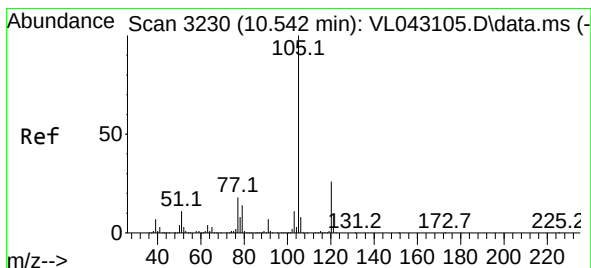
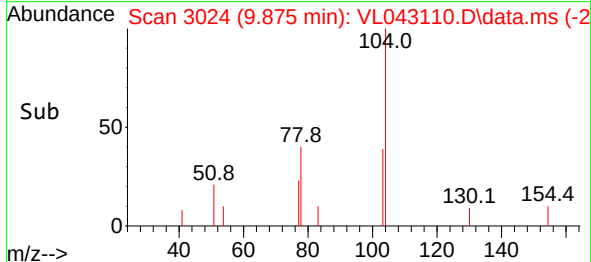
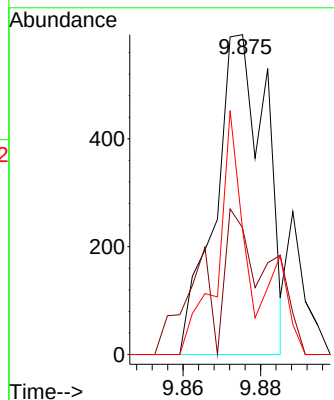
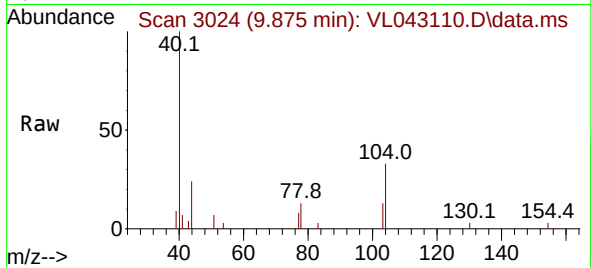




#61
Styrene
Concen: 0.030 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

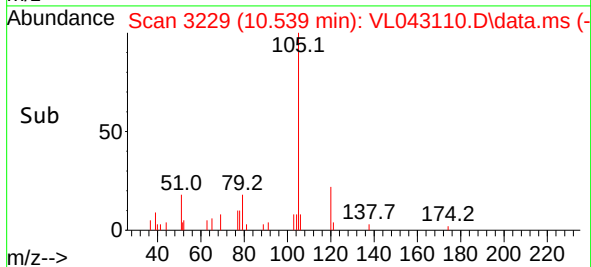
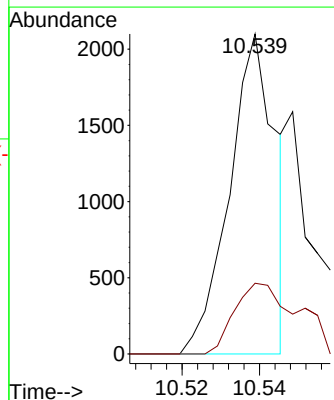
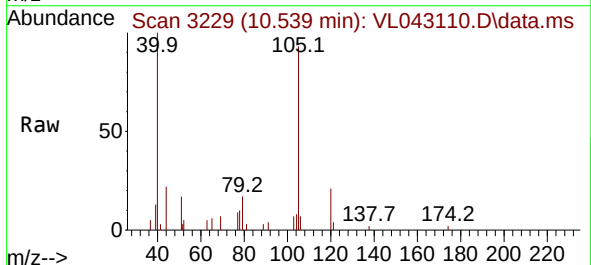
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

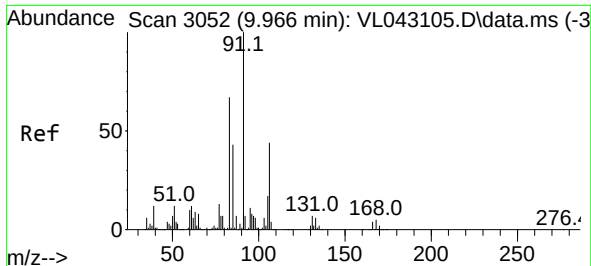
Tgt Ion:104 Resp: 538
Ion Ratio Lower Upper
104 100
78 61.7 40.2 60.2#
103 50.9 36.9 55.3



#62
Isopropylbenzene
Concen: 0.024 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 1735
Ion Ratio Lower Upper
105 100
120 30.3 20.2 30.4

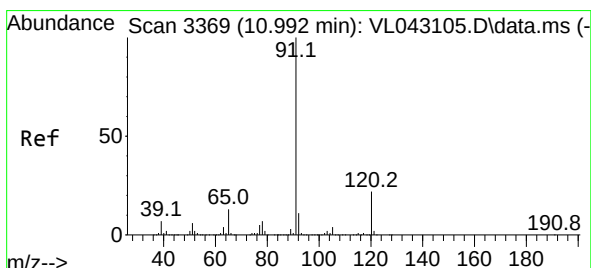
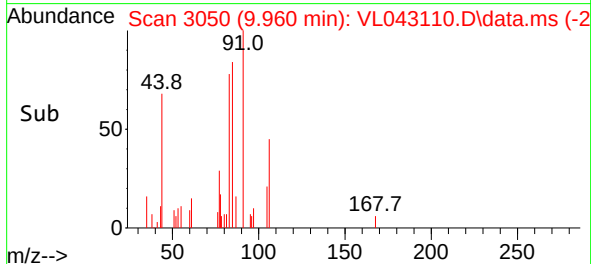
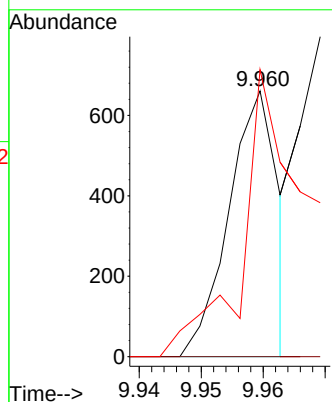
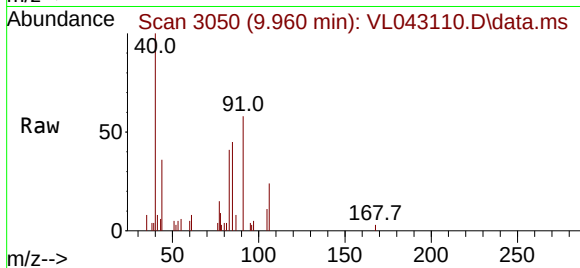




#63
1,1,2,2-Tetrachloroethane
Concen: 0.014 ppbv
RT: 9.960 min Scan# 3052
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

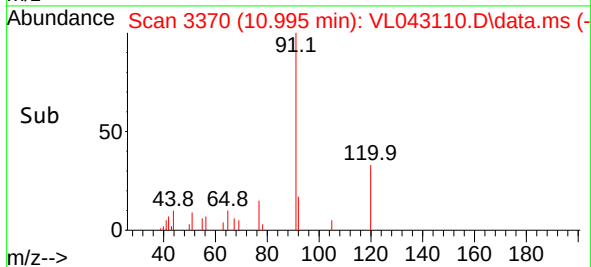
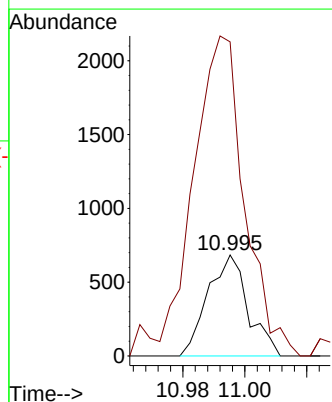
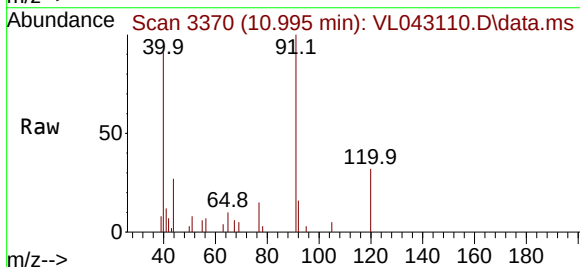
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

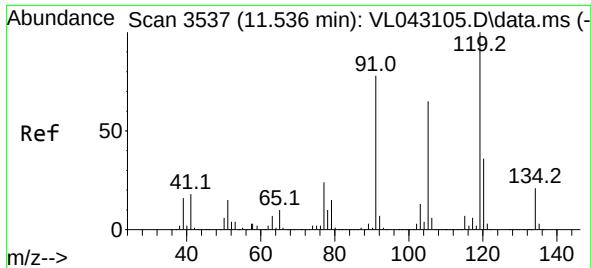
Tgt Ion: 83 Resp: 369
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3#
85 181.6 32.0 96.0#



#64
n-propylbenzene
Concen: 0.033 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 120 Resp: 616
Ion Ratio Lower Upper
120 100
91 432.5 361.6 542.4

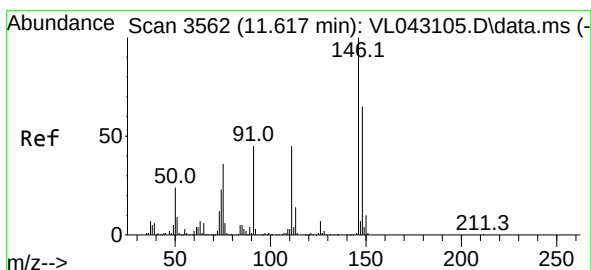
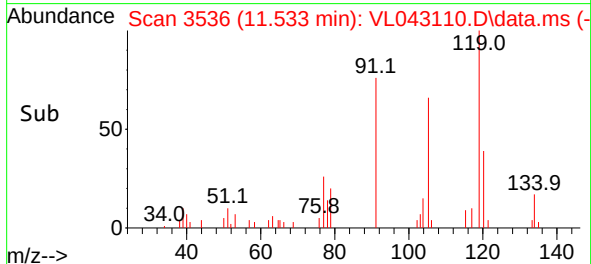
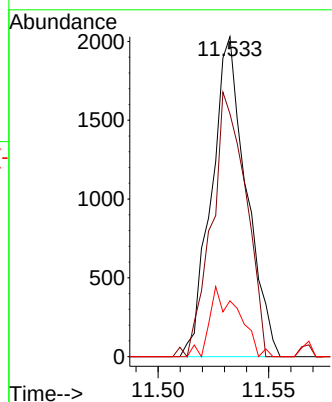
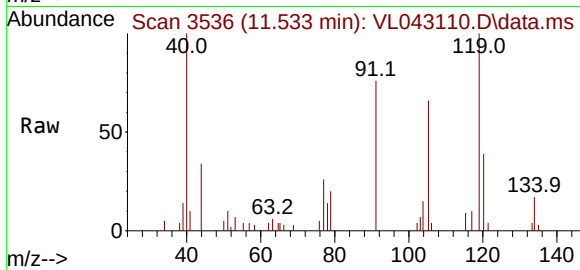




#65
tert-Butylbenzene
Concen: 0.035 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

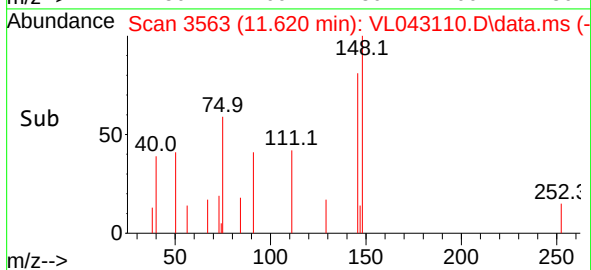
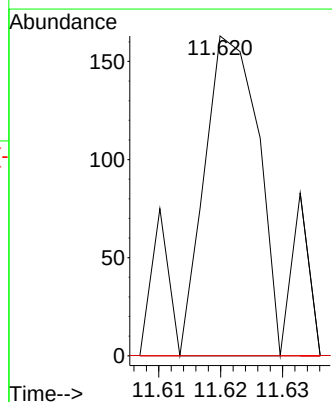
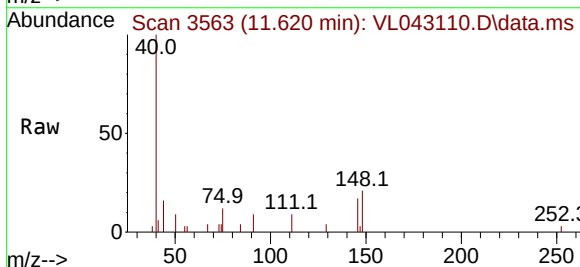
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

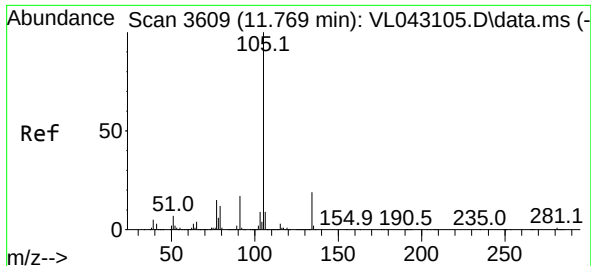
Tgt Ion:119 Resp: 2219
Ion Ratio Lower Upper
119 100
91 82.6 63.4 95.0
134 18.3 17.3 25.9



#66
Benzyl Chloride
Concen: 0.014 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 91 Resp: 98
Ion Ratio Lower Upper
91 100
126 0.0 14.6 22.0#
128 0.0 4.6 6.8#

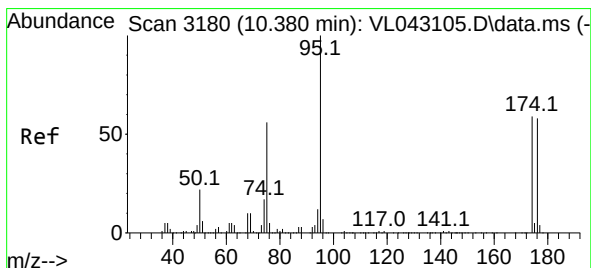
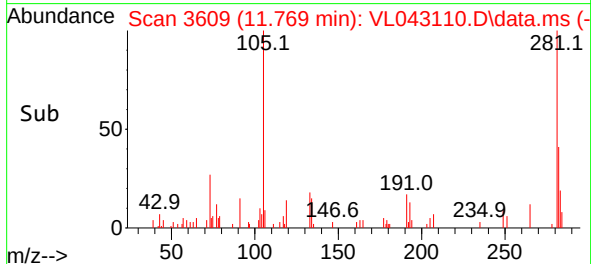
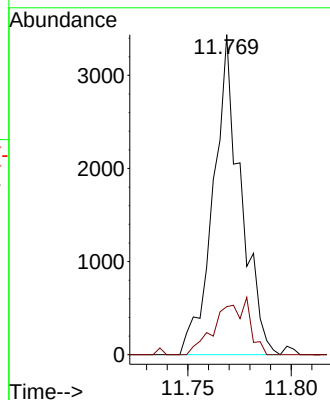
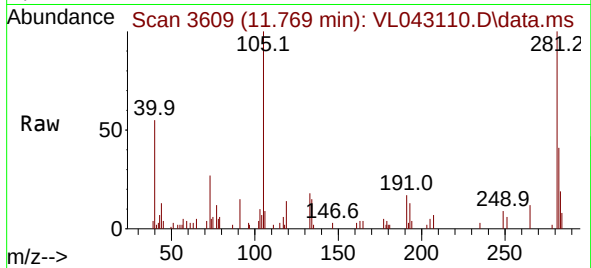




#67
 sec-Butylbenzene
 Concen: 0.035 ppbv
 RT: 11.769 min Scan# 3170
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

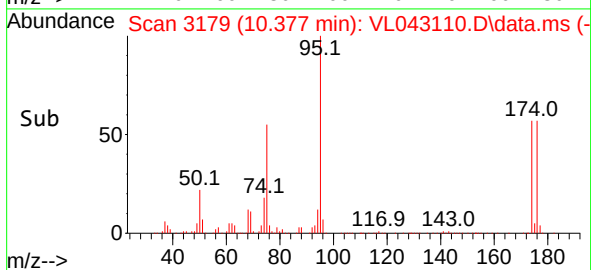
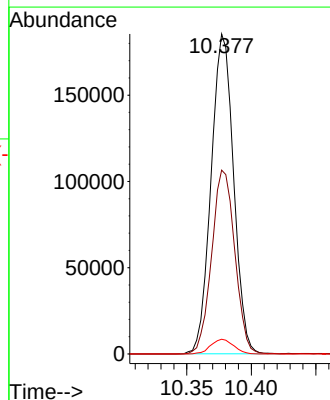
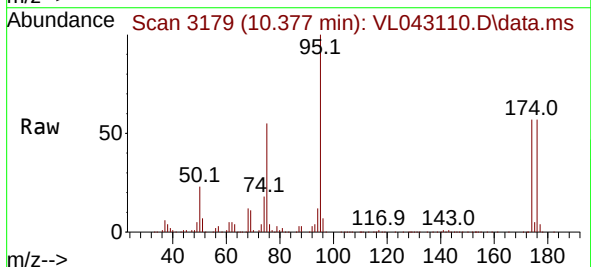
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

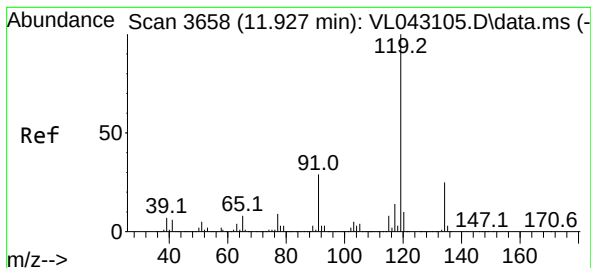
Tgt Ion:105 Resp: 3170
 Ion Ratio Lower Upper
 105 100
 134 21.1 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.841 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 95 Resp: 224043
 Ion Ratio Lower Upper
 95 100
 174 59.2 48.3 72.5
 175 4.7 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.031 ppbv

RT: 11.927 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

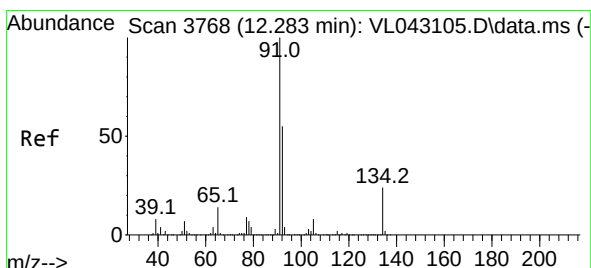
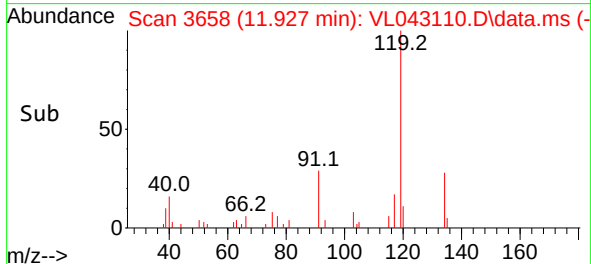
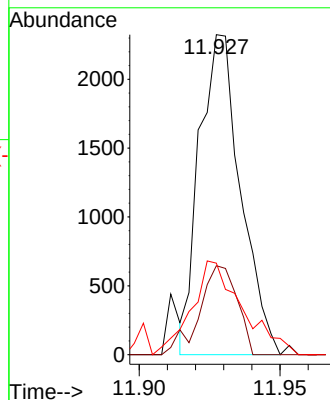
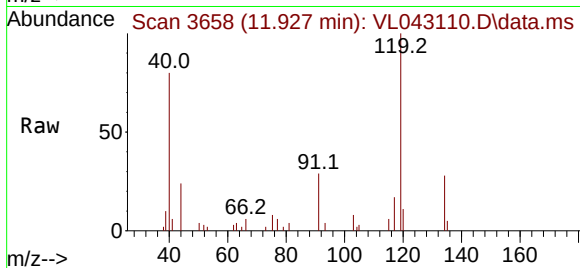
Tgt Ion:119 Resp: 2370

Ion Ratio Lower Upper

119 100

134 25.3 20.3 30.5

91 38.4 22.6 33.8#



#70

n-Butylbenzene

Concen: 0.020 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.006 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

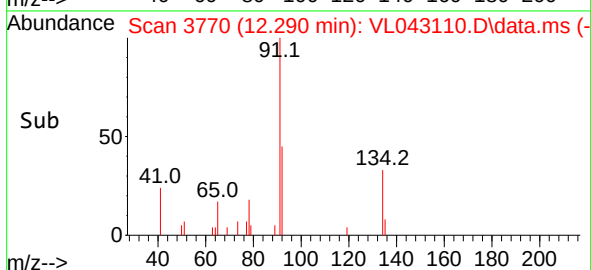
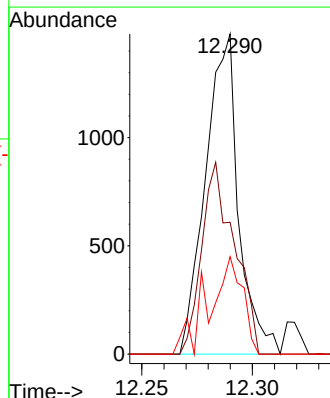
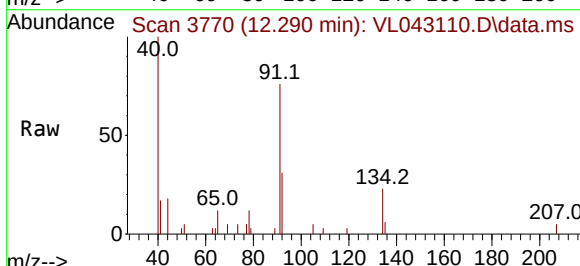
Tgt Ion: 91 Resp: 1534

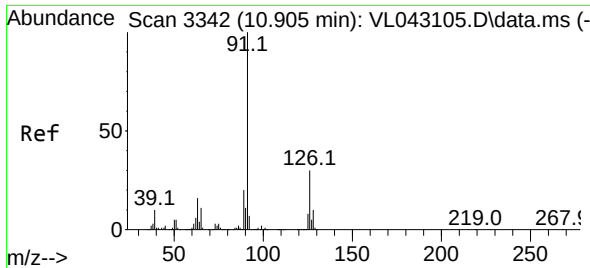
Ion Ratio Lower Upper

91 100

92 59.6 44.5 66.7

134 31.5 19.3 28.9#

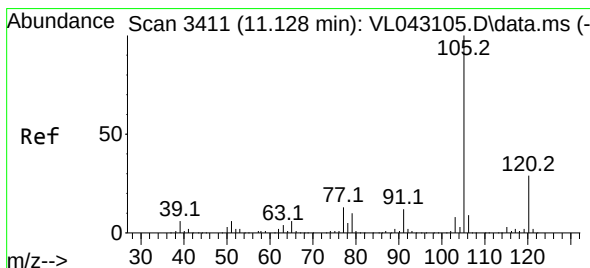
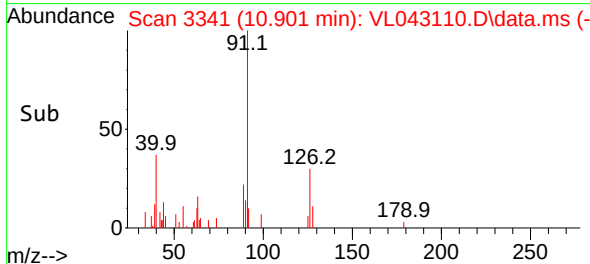
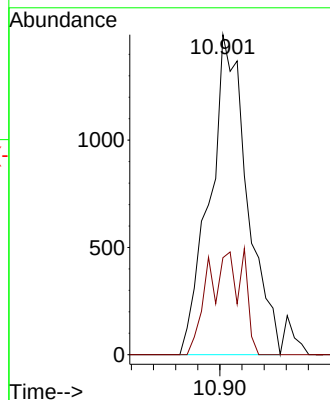
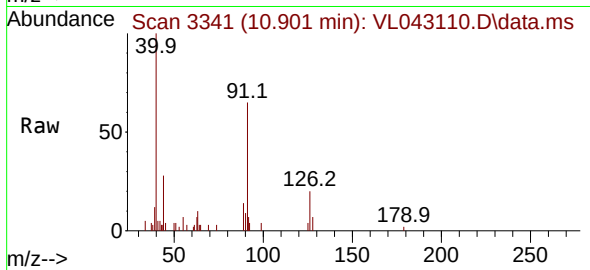




#71
2-Chlorotoluene
Concen: 0.032 ppbv
RT: 10.901 min Scan# 3111
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

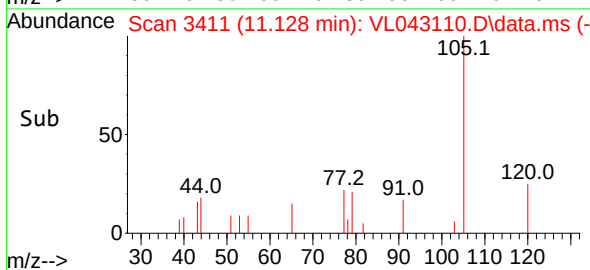
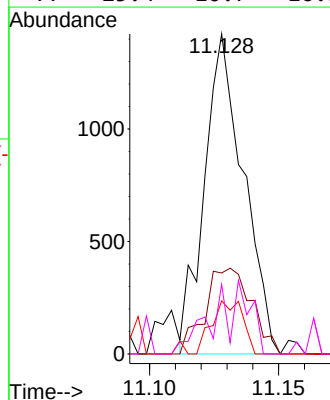
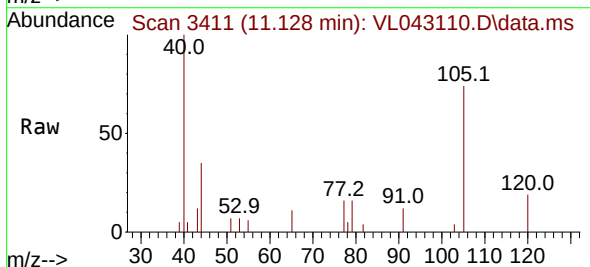
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

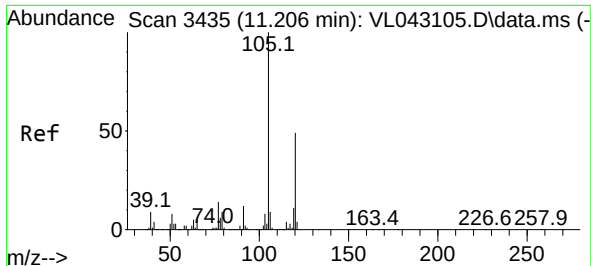
Tgt Ion: 91 Resp: 1757
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.0



#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 105 Resp: 1502
Ion Ratio Lower Upper
105 100
120 32.0 24.2 36.4
91 13.9 10.0 15.0
77 25.4 10.7 16.1#

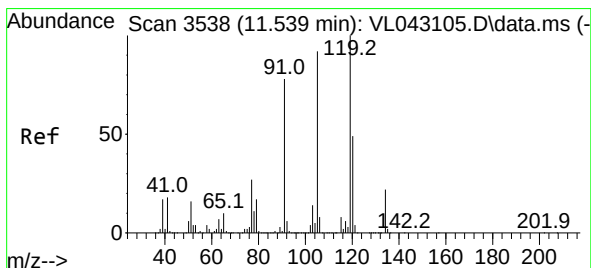
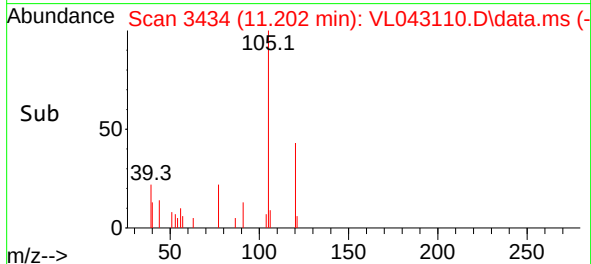
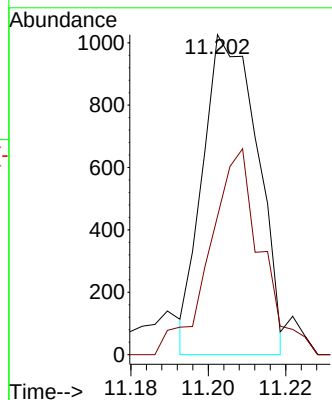
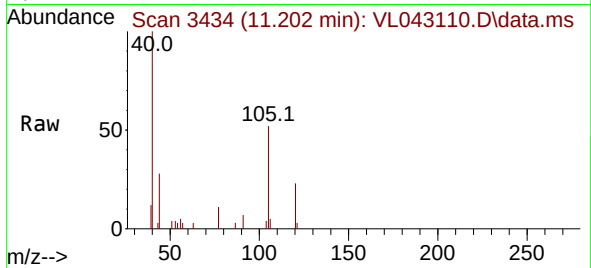




#73
1,3,5-Trimethylbenzene
Concen: 0.025 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

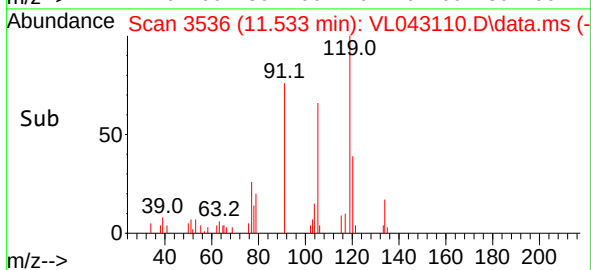
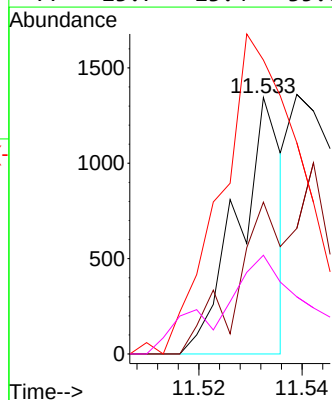
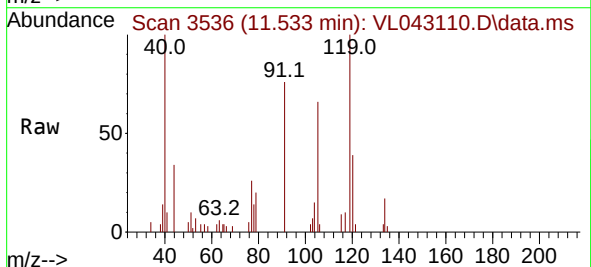
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

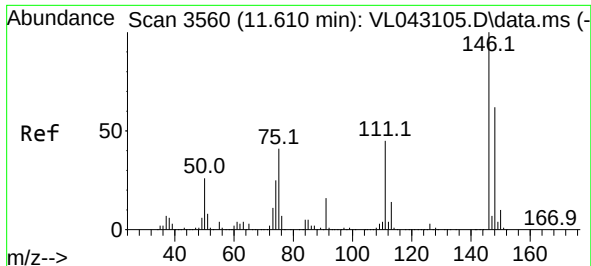
Tgt Ion:105 Resp: 1005
Ion Ratio Lower Upper
105 100
120 37.2 39.0 58.6#



#74
1,2,4-Trimethylbenzene
Concen: 0.018 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 806
Ion Ratio Lower Upper
105 100
120 59.2 42.8 64.2
91 98.1 68.3 102.5
77 23.7 23.4 35.0

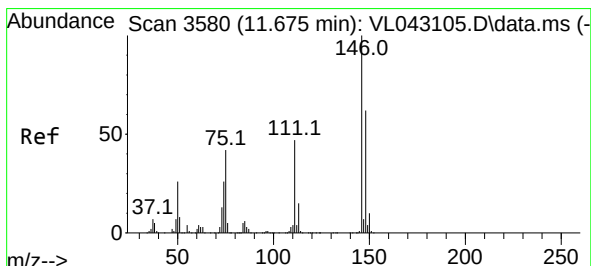
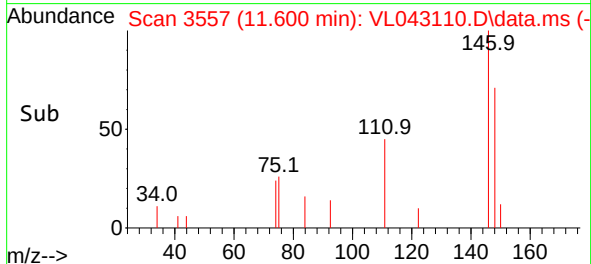
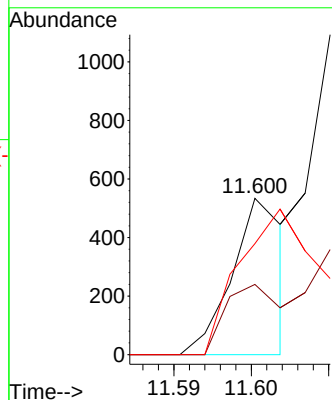
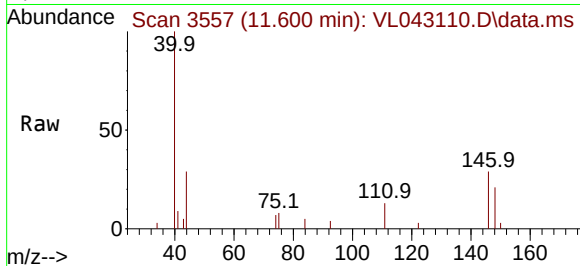




#75
1,3-Dichlorobenzene
Concen: 0.010 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

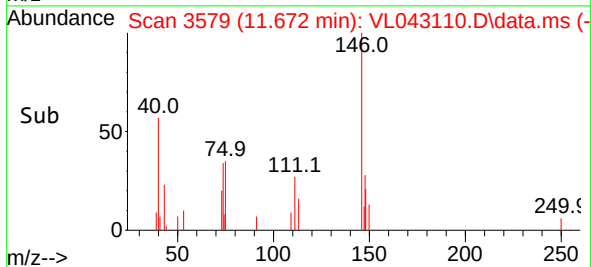
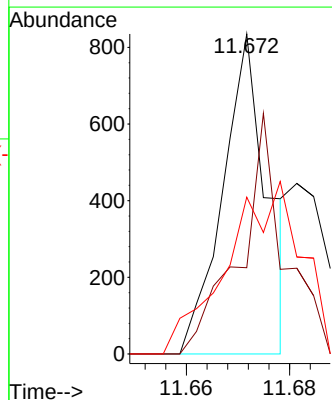
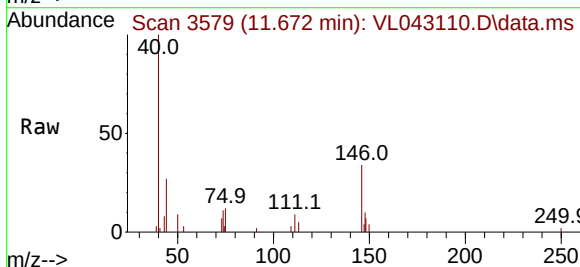
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

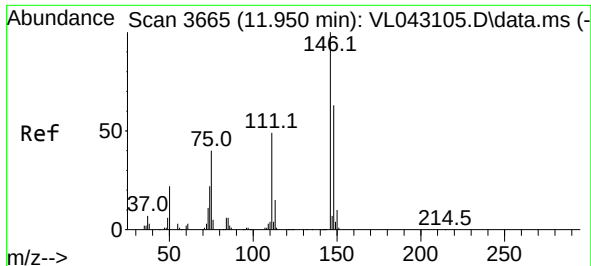
Tgt Ion:146 Resp: 251
Ion Ratio Lower Upper
146 100
111 0.0 23.3 69.9#
148 222.3 31.6 95.0#



#76
1,4-Dichlorobenzene
Concen: 0.019 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:146 Resp: 504
Ion Ratio Lower Upper
146 100
111 0.0 22.4 67.0#
148 0.0 31.6 94.7#

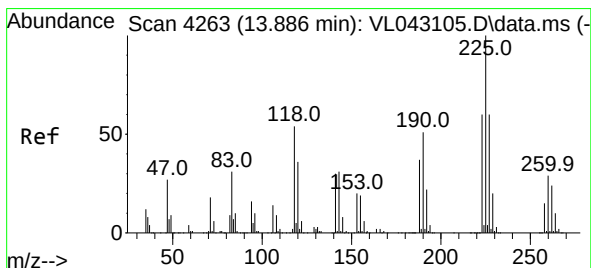
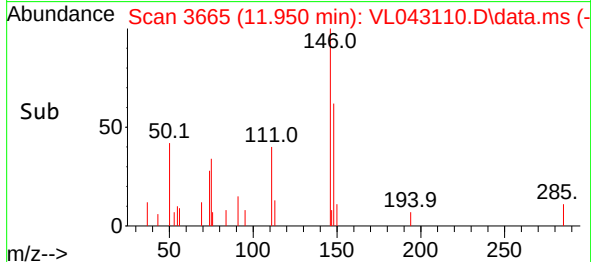
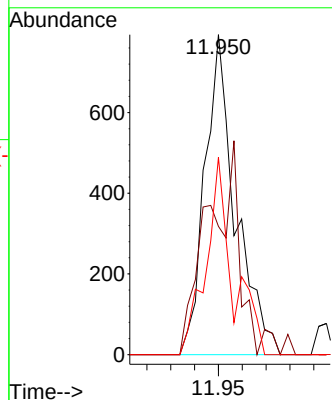
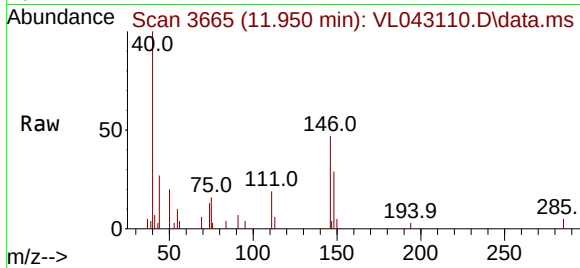




#77
1,2-Dichlorobenzene
Concen: 0.028 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

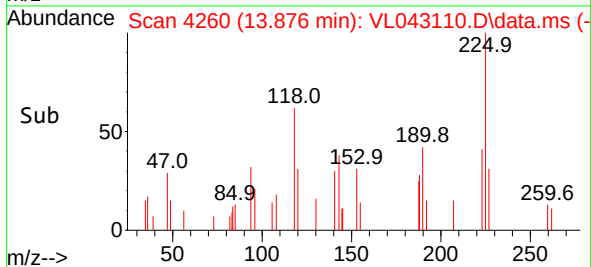
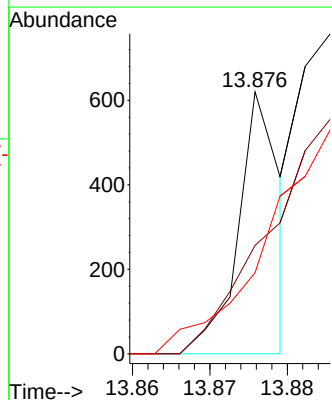
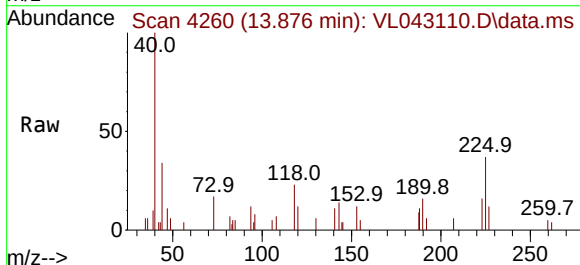
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

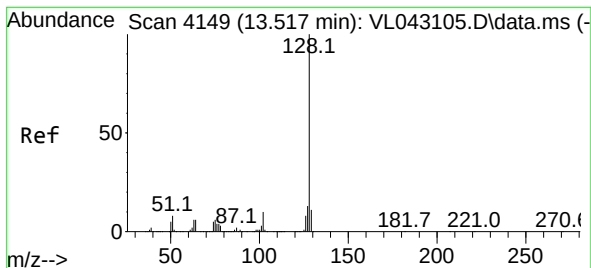
Tgt Ion:	146	Resp:	709
Ion	Ratio	Lower	Upper
146	100		
111	71.2	24.0	72.0
148	53.5	31.1	93.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.012 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:	225	Resp:	239
Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.2	75.4#
227	0.0	49.6	74.4#





#79

Naphthalene

Concen: 0.018 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

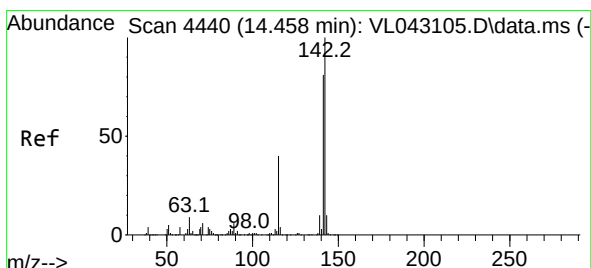
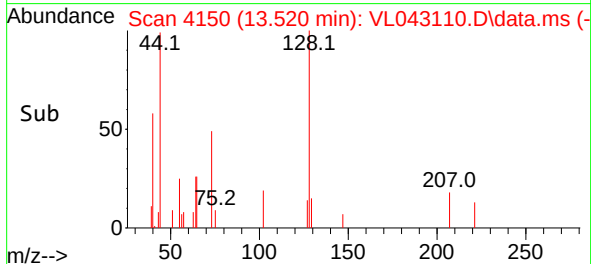
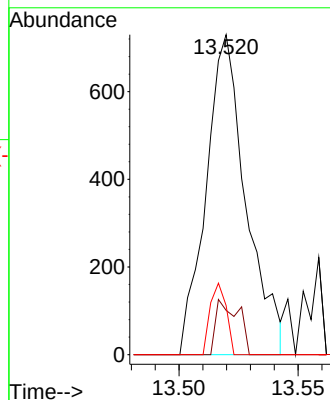
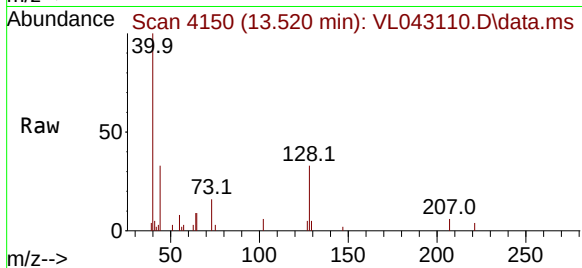
Tgt Ion:128 Resp: 851

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

129 15.3 9.1 13.7#



#80

Naphthalene,2-methyl-

Concen: 0.001 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

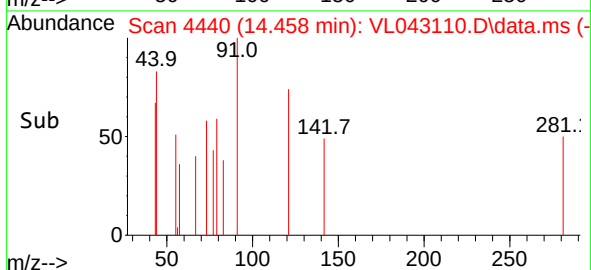
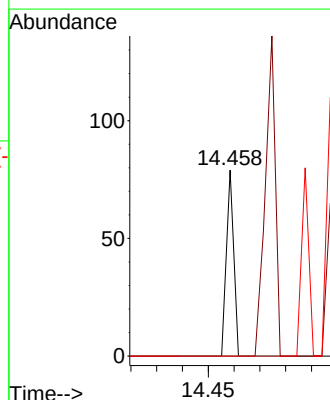
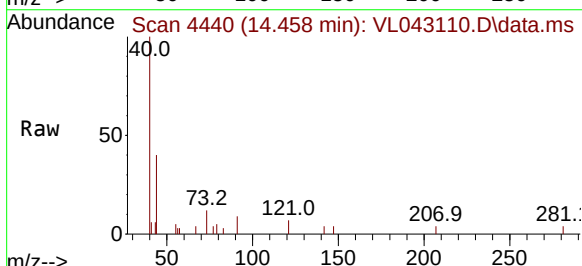
Tgt Ion:142 Resp: 15

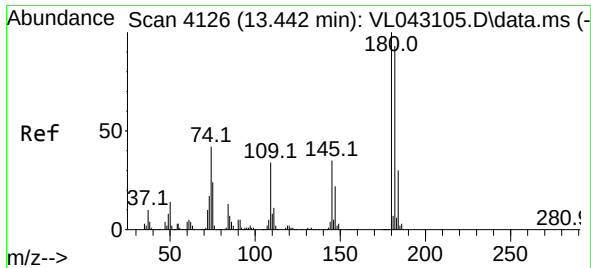
Ion Ratio Lower Upper

142 100

141 546.7 64.6 97.0#

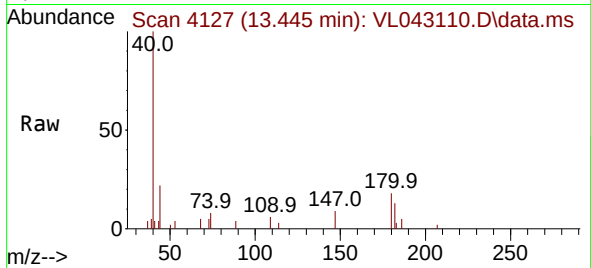
115 340.0 30.2 45.4#



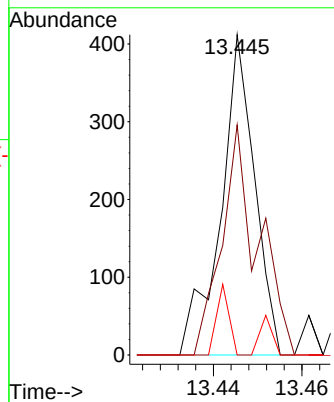
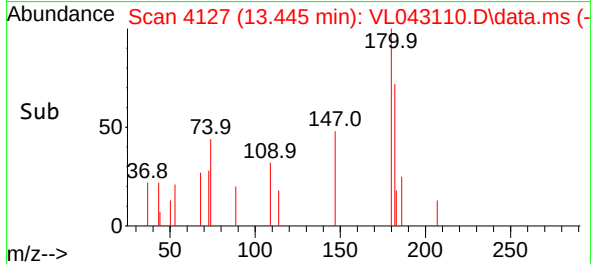


#81
 1,2,4-Trichlorobenzene
 Concen: 0.011 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



Tgt Ion:180 Resp: 219
 Ion Ratio Lower Upper
 180 100
 182 76.7 75.5 113.3
 184 12.8 23.9 35.9#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	321665	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	292542	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 233522 10.270 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	193353	13.485	ppbv	98
3) Chlorodifluoromethane	1.476	51	205650	13.255	ppbv	98
4) Chloromethane	1.534	50	72111	12.695	ppbv	98
5) Vinyl Chloride	1.583	62	69909	12.548	ppbv	99
6) Bromomethane	1.670	94	39756	13.013	ppbv	98
7) Chloroethane	1.706	64	27709	12.164	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	156753	13.526	ppbv	100
9) Propene	1.486	41	88451	12.854	ppbv	98
10) Heptane	4.985	43	249682	12.658	ppbv	99
11) Trichlorofluoromethane	1.881	101	191307	13.640	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	150640	13.341	ppbv	98
13) Ethanol	1.722	45	25828	10.148	ppbv	98
14) Bromoethene	1.784	108	54818	13.068	ppbv	99
15) Acetone	1.835	43	160069	11.710	ppbv	100
16) 1,3-Butadiene	1.612	39	80403	12.411	ppbv	98
17) tert-Butyl alcohol	2.039	59	237633	12.735	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65634	13.333	ppbv	98
19) Isopropyl Alcohol	1.887	45	102035	12.051	ppbv	98
20) Methylene Chloride	2.065	84	60549	11.268	ppbv	90
21) Allyl Chloride	2.097	41	131539	13.105	ppbv	95
22) trans-1,2-Dichloroethene	2.343	96	76780	13.048	ppbv	97
23) Vinyl Acetate	2.463	43	288274	14.476	ppbv	98
24) 1,1-Dichloroethane	2.411	63	152663	13.428	ppbv	99
25) Ethyl Acetate	2.835	43	434350	12.884	ppbv	100
26) Hexane	2.829	57	199384	12.836	ppbv	98
27) Carbon Disulfide	2.152	76	192452	13.522	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	96464	13.650	ppbv	94
29) Chloroform	2.852	83	302154	13.425	ppbv	98
30) Cyclohexane	3.858	84	177947	13.133	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	203888	13.745	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	316442	13.500	ppbv	99
34) 2-Butanone	2.557	43	283134	13.020	ppbv	99
35) Carbon Tetrachloride	3.764	117	325078	14.056	ppbv	98
36) Benzene	3.661	78	415823	13.725	ppbv	99
37) 1,2-Dichloroethane	3.221	62	241983	13.865	ppbv	98
38) Trichloroethene	4.551	130	159136	12.590	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147155	13.274	ppbv	95
40) 1,4-Dioxane	4.580	88	65323	13.180	ppbv #	94
41) Tetrahydrofuran	3.052	42	160247	13.200	ppbv	99
42) Bromodichloromethane	4.493	83	343817	14.234	ppbv	99
43) Methyl Methacrylate	4.881	69	210756	13.633	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	675770	13.340	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	218386	14.142	ppbv	97

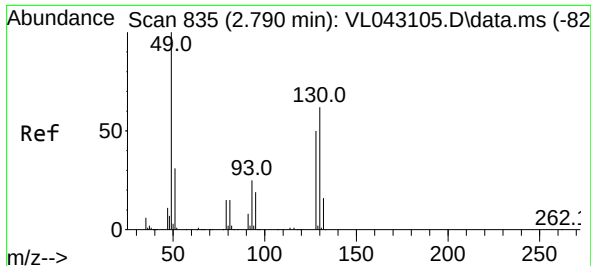
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 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Oct 15 01:55:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	258355	14.018	ppbv	98
47) 1,1,2-Trichloroethane	6.583	97	163113	13.638	ppbv	94
48) Dibromochloromethane	7.393	129	280993	14.051	ppbv	100
49) Bromoform	9.487	173	230561	14.184	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	401849	13.396	ppbv	100
51) 2-Hexanone	7.435	43	317288	14.176	ppbv #	99
52) Tetrachloroethene	8.231	164	143954	13.177	ppbv	98
53) Toluene	6.936	91	483870	13.457	ppbv	100
54) 1,2-Dibromoethane	7.655	107	254024	13.461	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	250303	13.573	ppbv	99
57) Chlorobenzene	8.927	112	355301	12.983	ppbv	98
58) Ethyl Benzene	9.357	91	676918	13.375	ppbv	97
59) m/p-Xylene	9.535	91	626074	15.622	ppbv #	29
60) o-Xylene	9.966	91	516660	13.063	ppbv	99
61) Styrene	9.875	104	247585	13.867	ppbv	99
62) Isopropylbenzene	10.542	105	931508	13.034	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	331423	12.515	ppbv	100
64) n-propylbenzene	10.992	120	241719	12.775	ppbv	96
65) tert-Butylbenzene	11.532	119	788234	12.490	ppbv	97
66) Benzyl Chloride	11.620	91	97114	13.778	ppbv	99
67) sec-Butylbenzene	11.769	105	1125489	12.566	ppbv	99
69) p-Isopropyltoluene	11.930	119	959206	12.602	ppbv	99
70) n-Butylbenzene	12.283	91	973466	12.979	ppbv	100
71) 2-Chlorotoluene	10.904	91	721827	13.242	ppbv	98
72) 4-Ethyltoluene	11.128	105	647315	13.310	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	534006	13.314	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	560932	12.498	ppbv #	86
75) 1,3-Dichlorobenzene	11.610	146	339203	13.031	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	341936	13.027	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	318800	12.660	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	226294	11.606	ppbv	99
79) Naphthalene	13.516	128	661098	14.260	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	212784	17.384	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	266712	13.698	ppbv	100

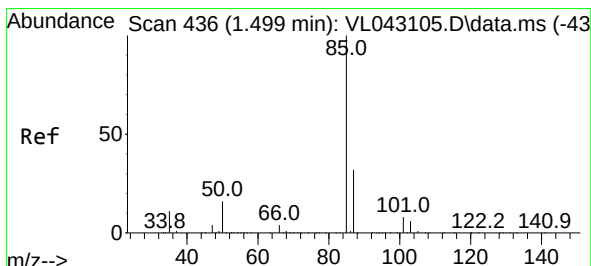
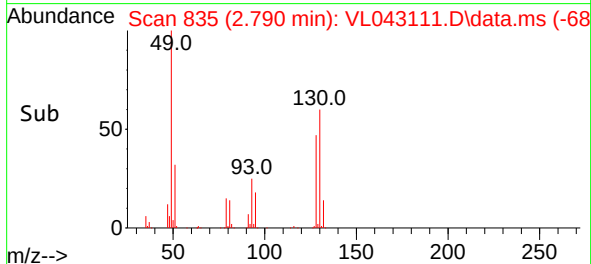
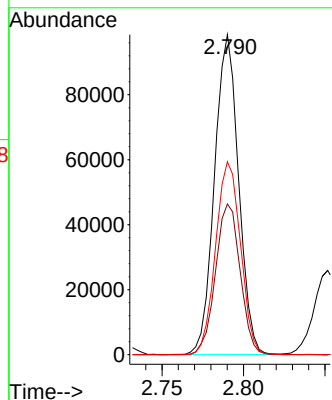
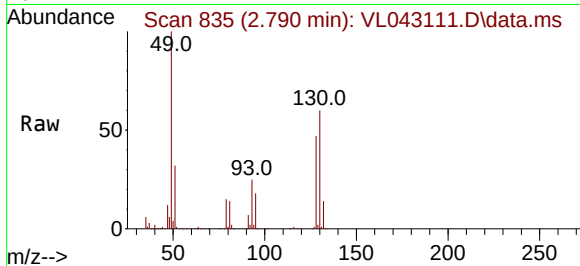
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

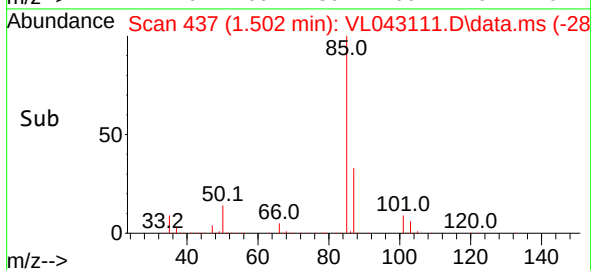
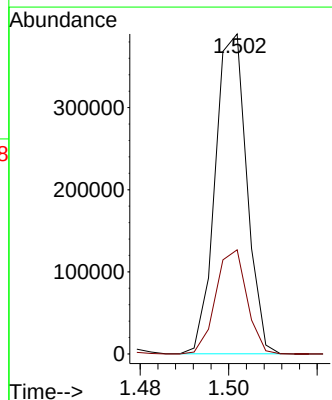
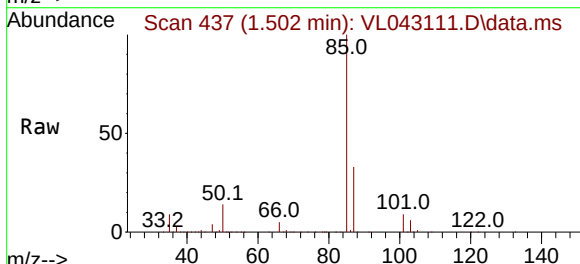
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

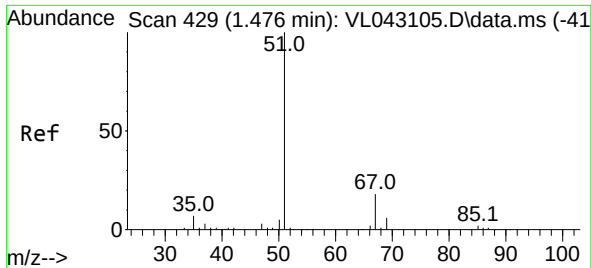
Tgt Ion: 49 Resp: 100858
Ion Ratio Lower Upper
49 100
128 48.4 24.4 73.4
130 62.4 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 13.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 193353
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9





#3

Chlorodifluoromethane

Concen: 13.255 ppbv

RT: 1.476 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

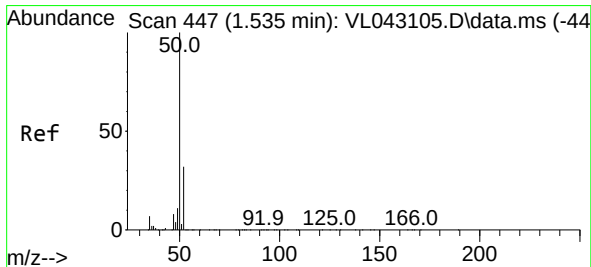
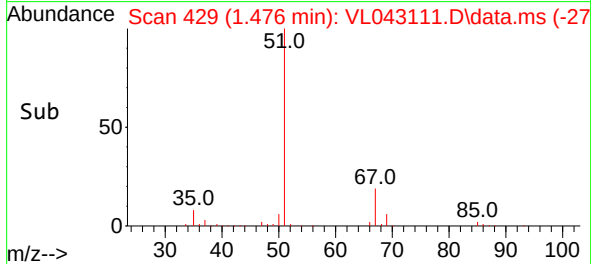
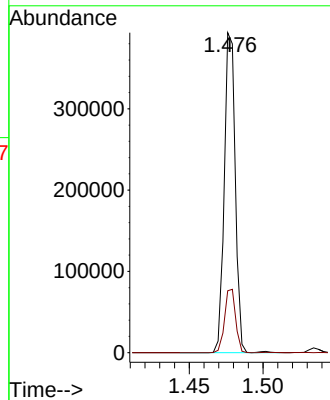
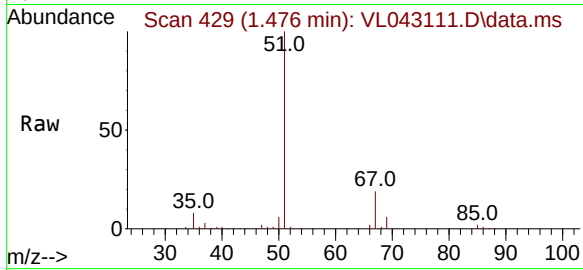
VSTDIC015

Tgt Ion: 51 Resp: 205650

Ion Ratio Lower Upper

51 100

67 20.0 15.1 22.7



#4

Chloromethane

Concen: 12.695 ppbv

RT: 1.534 min Scan# 447

Delta R.T. -0.000 min

Lab File: VL043111.D

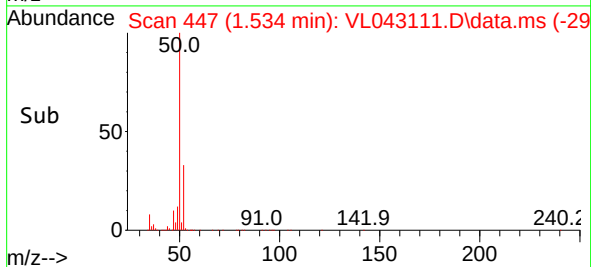
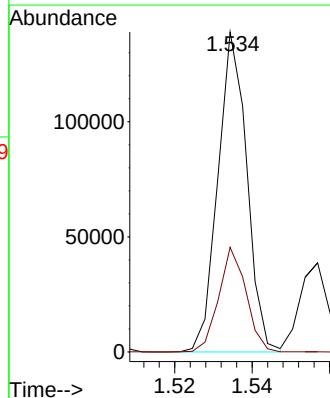
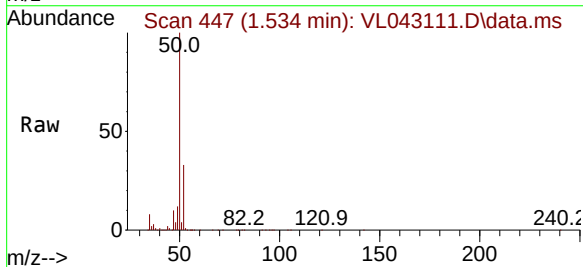
Acq: 14 Oct 2025 14:18

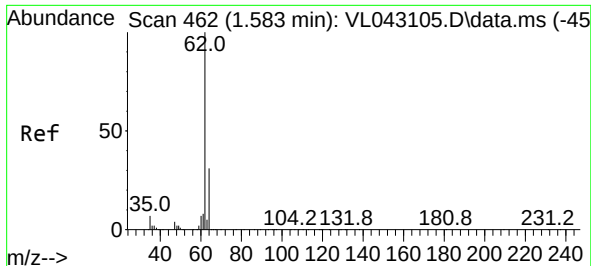
Tgt Ion: 50 Resp: 72111

Ion Ratio Lower Upper

50 100

52 32.7 25.2 37.8

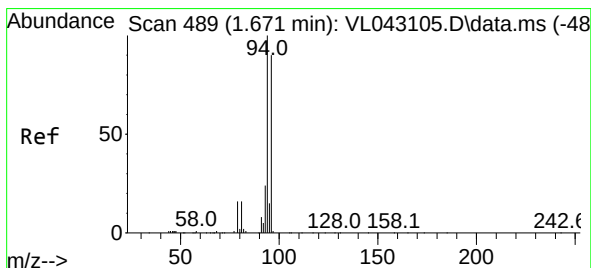
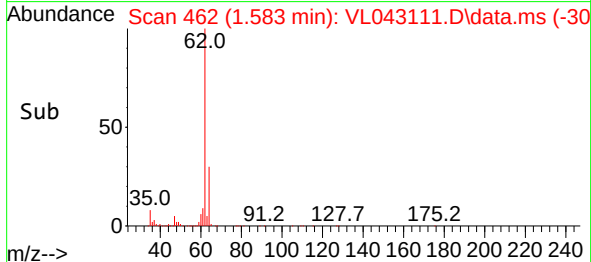
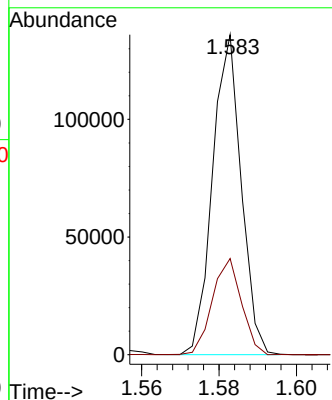
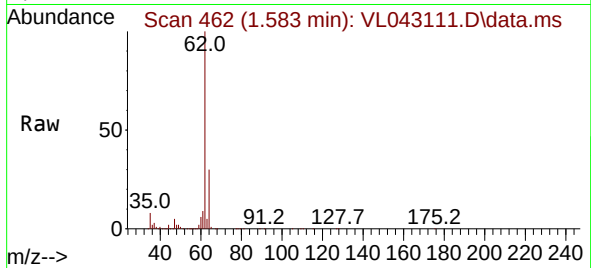




#5
 Vinyl Chloride
 Concen: 12.548 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

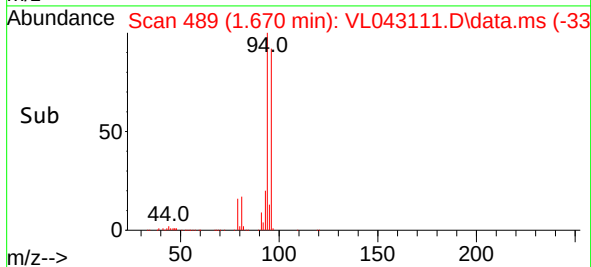
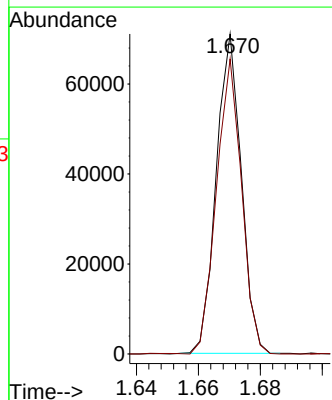
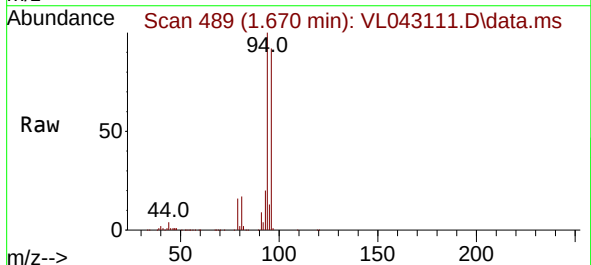
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

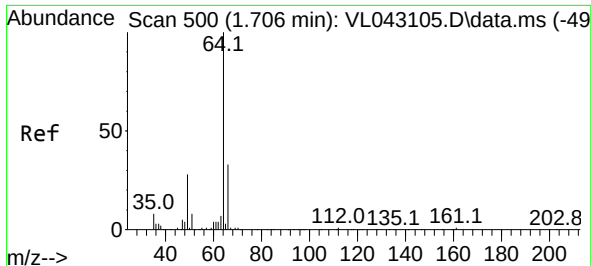
Tgt Ion: 62 Resp: 69909
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.6 36.8



#6
 Bromomethane
 Concen: 13.013 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 94 Resp: 39756
 Ion Ratio Lower Upper
 94 100
 96 92.4 72.2 108.4

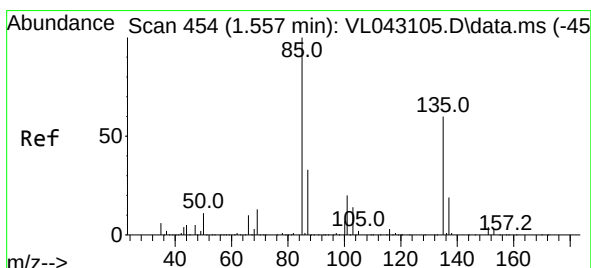
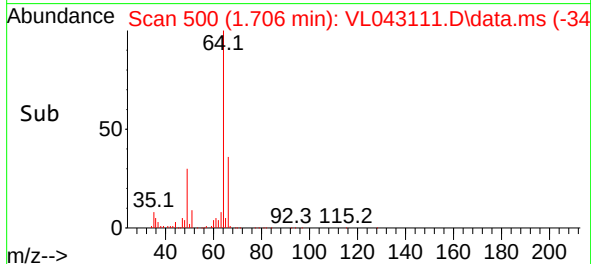
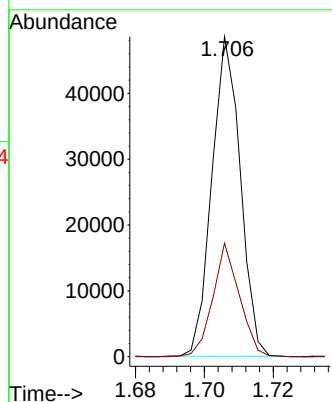
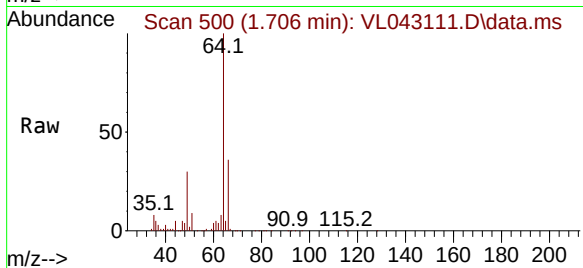




#7
Chloroethane
Concen: 12.164 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

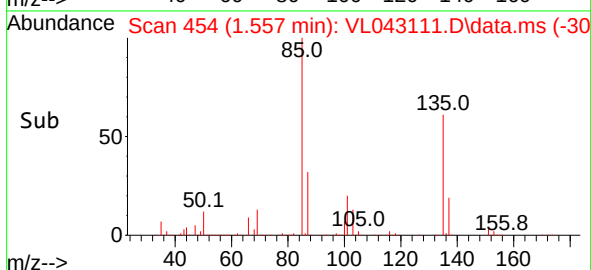
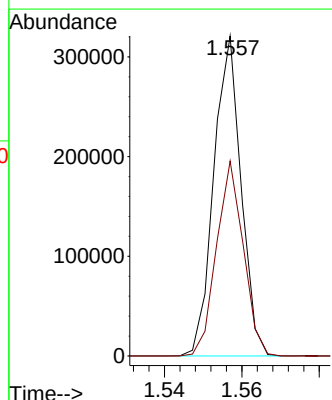
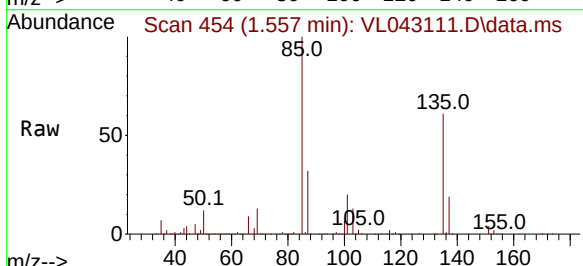
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

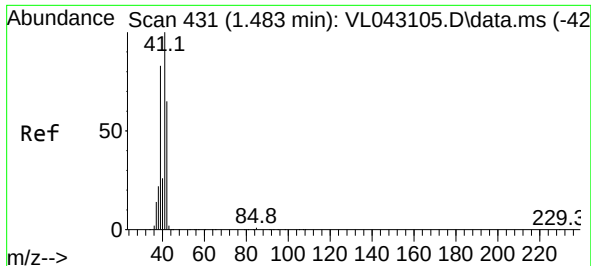
Tgt Ion: 64 Resp: 27709
Ion Ratio Lower Upper
64 100
66 35.5 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 13.526 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 156753
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 12.854 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_1

ClientSampleId :

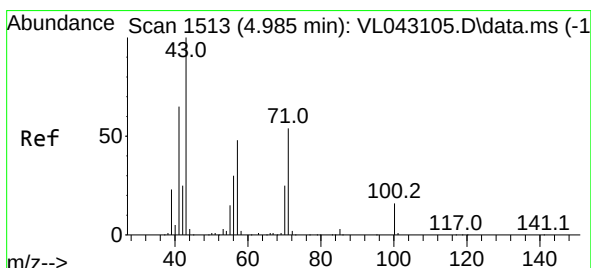
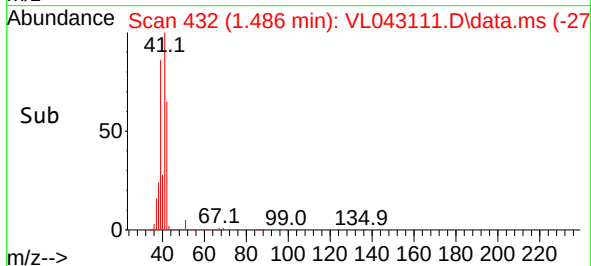
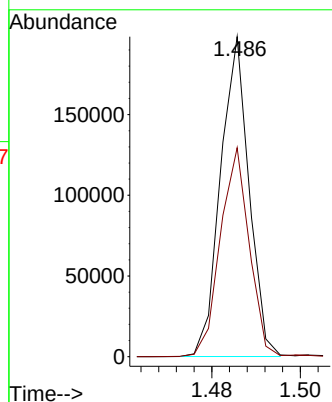
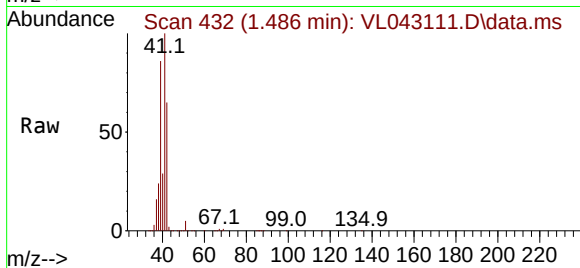
VSTDIC015

Tgt Ion: 41 Resp: 88451

Ion Ratio Lower Upper

41 100

42 67.2 55.1 82.7



#10

Heptane

Concen: 12.658 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043111.D

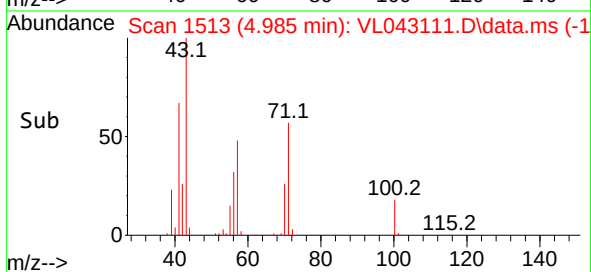
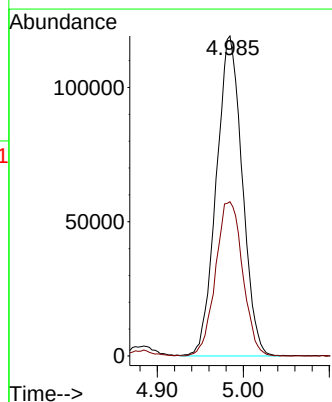
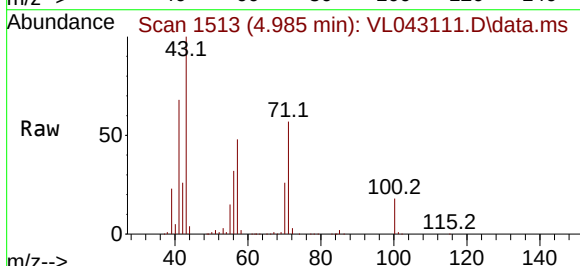
Acq: 14 Oct 2025 14:18

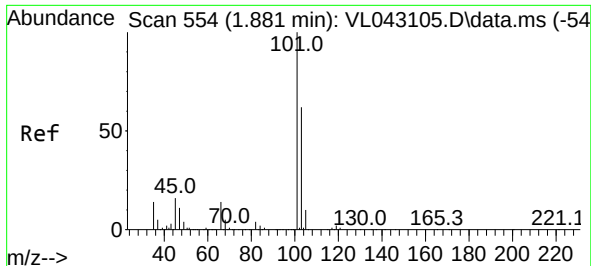
Tgt Ion: 43 Resp: 249682

Ion Ratio Lower Upper

43 100

57 50.3 40.8 61.2

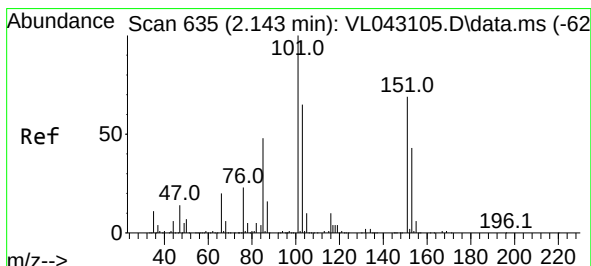
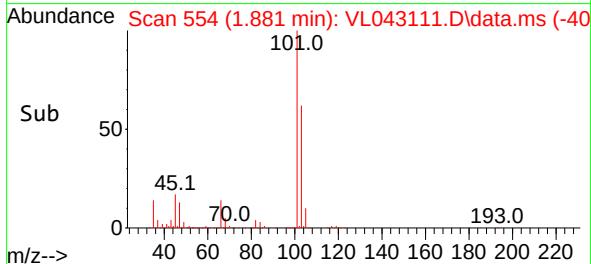
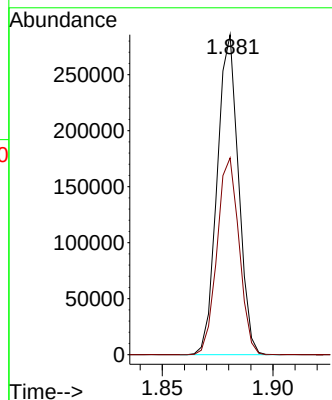
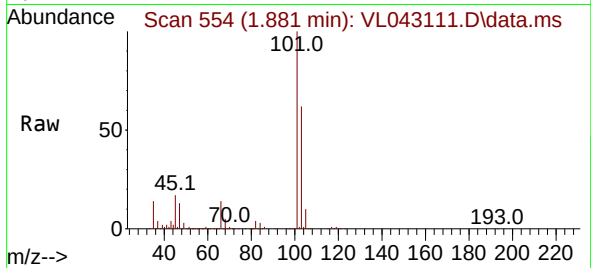




#11
 Trichlorofluoromethane
 Concen: 13.640 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

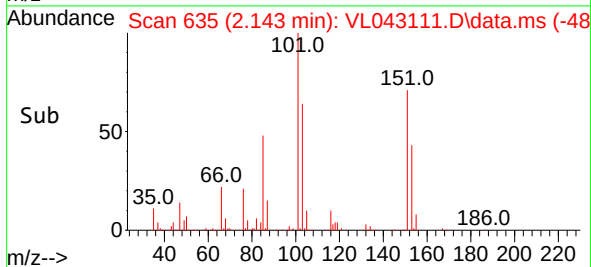
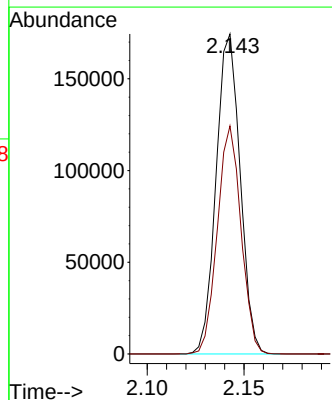
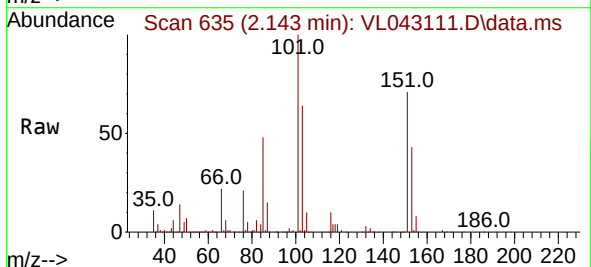
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

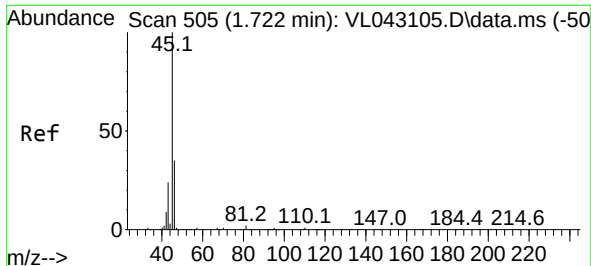
Tgt Ion:101 Resp: 191307
 Ion Ratio Lower Upper
 101 100
 103 61.5 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.341 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion:101 Resp: 150640
 Ion Ratio Lower Upper
 101 100
 151 70.0 54.7 82.1

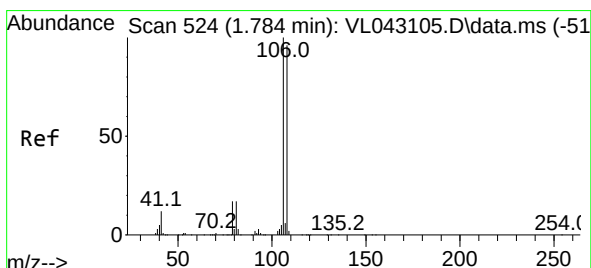
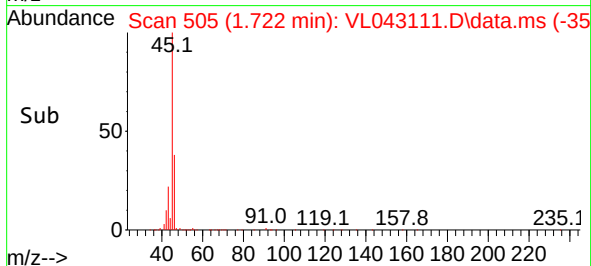
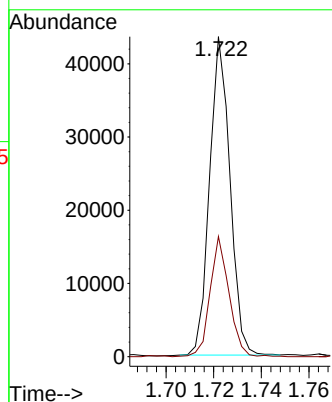
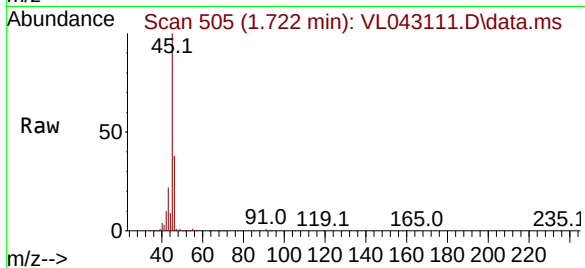




#13
Ethanol
Concen: 10.148 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

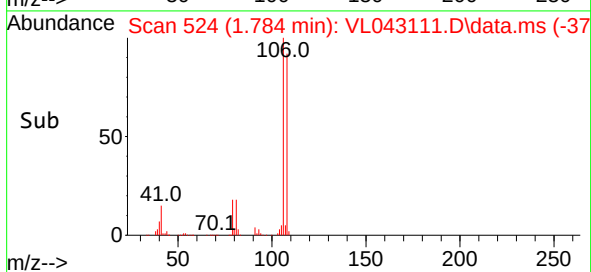
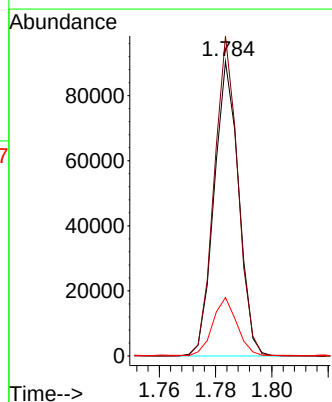
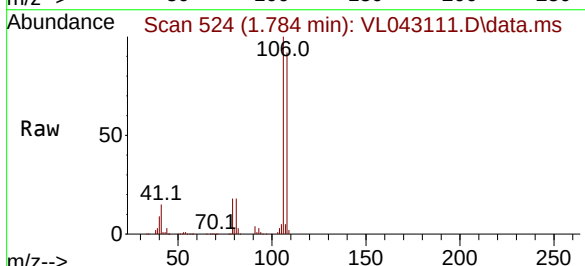
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

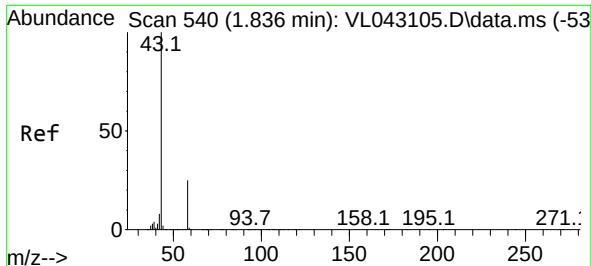
Tgt Ion: 45 Resp: 25828
Ion Ratio Lower Upper
45 100
46 35.5 14.7 58.9



#14
Bromoethene
Concen: 13.068 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 108 Resp: 54818
Ion Ratio Lower Upper
108 100
106 104.9 84.4 126.6
79 20.2 15.3 22.9

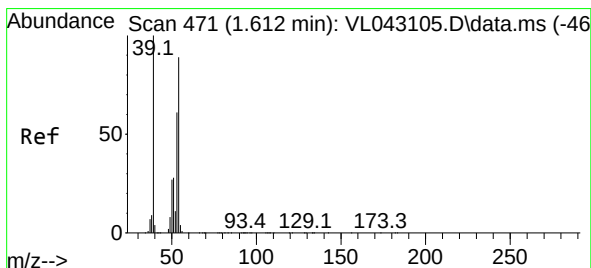
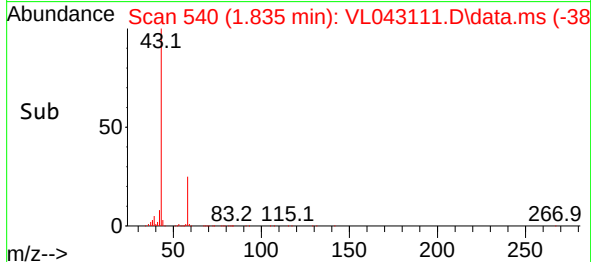
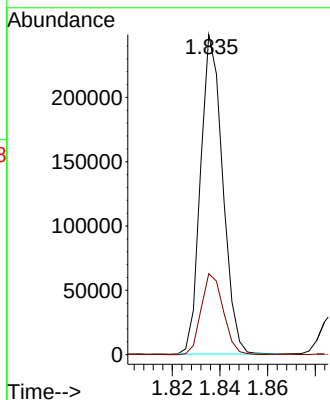
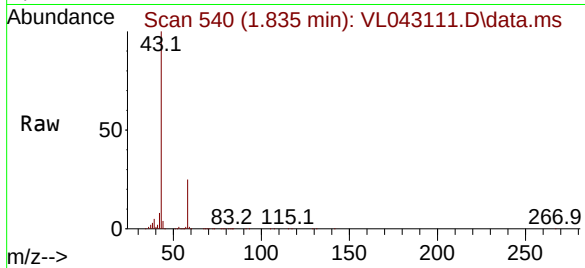




#15
Acetone
Concen: 11.710 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

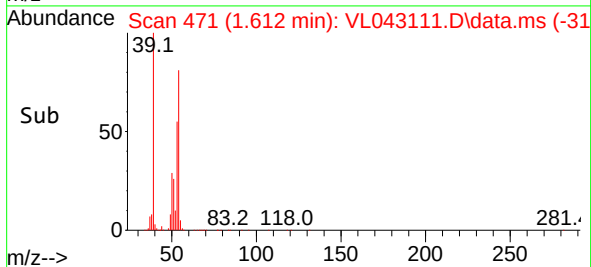
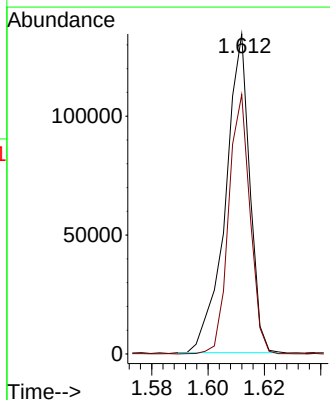
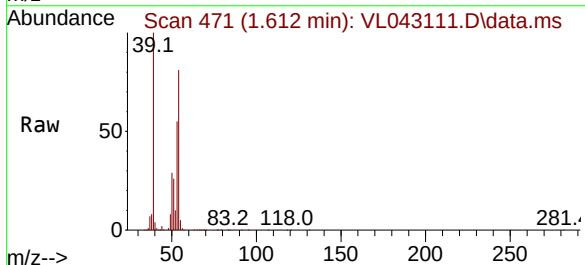
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

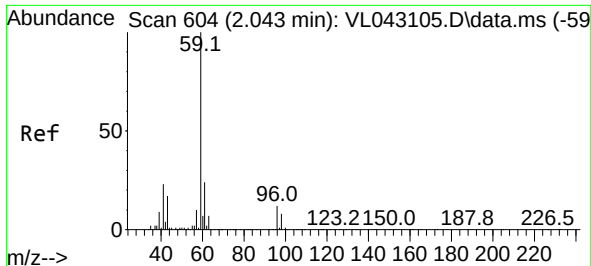
Tgt Ion: 43 Resp: 160069
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2



#16
1,3-Butadiene
Concen: 12.411 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403
Ion Ratio Lower Upper
39 100
54 71.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 12.735 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_1

ClientSampleId :

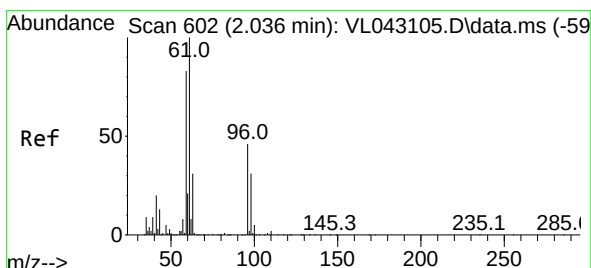
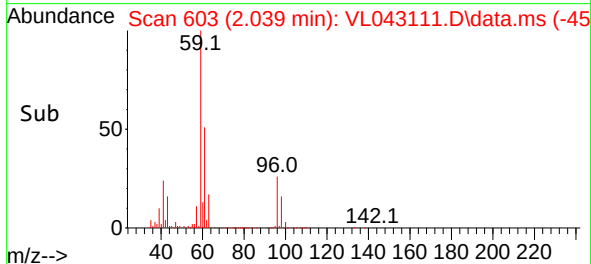
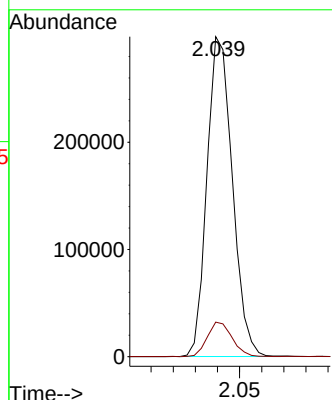
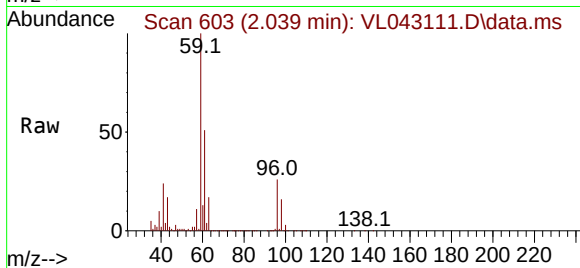
VSTDIC015

Tgt Ion: 59 Resp: 237633

Ion Ratio Lower Upper

59 100

57 10.6 8.2 12.4



#18

1,1-Dichloroethene

Concen: 13.333 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

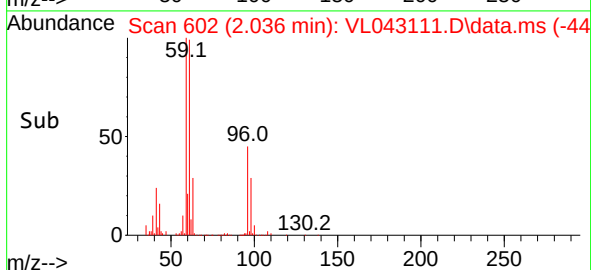
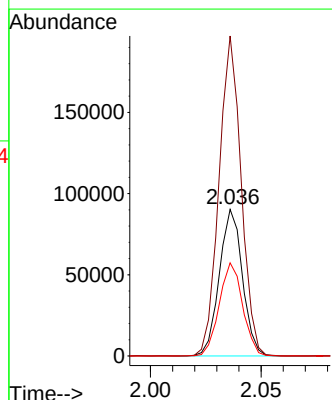
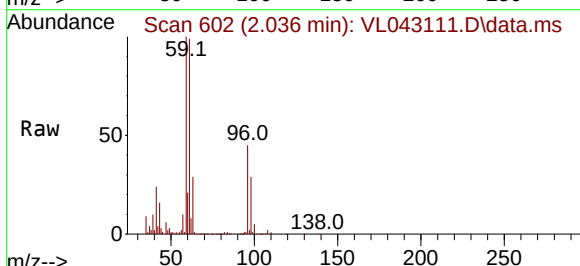
Tgt Ion: 96 Resp: 65634

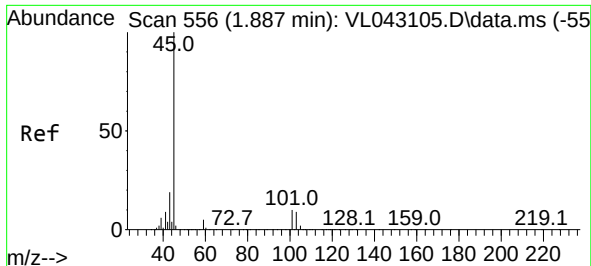
Ion Ratio Lower Upper

96 100

61 218.2 173.4 260.0

98 63.5 53.2 79.8

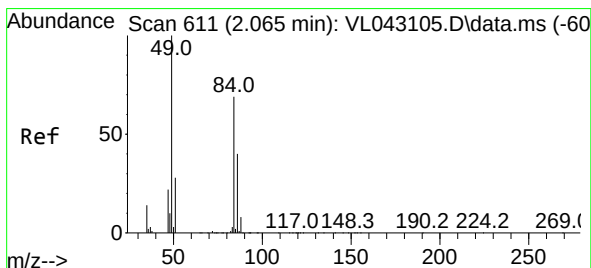
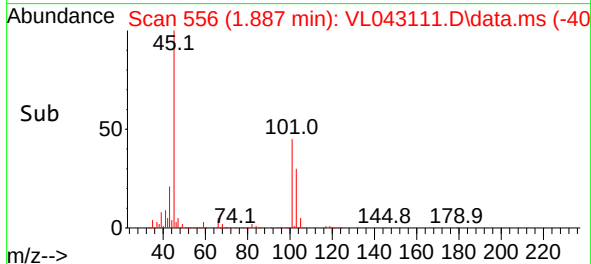
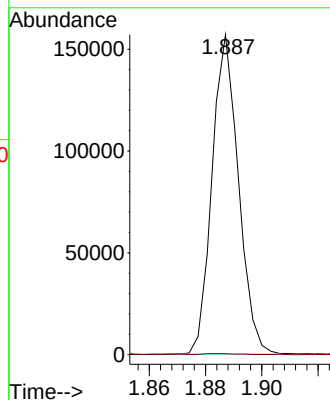
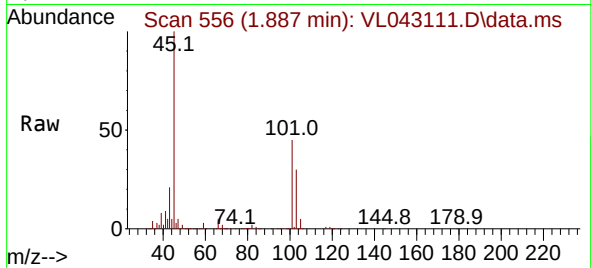




#19
Isopropyl Alcohol
Concen: 12.051 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

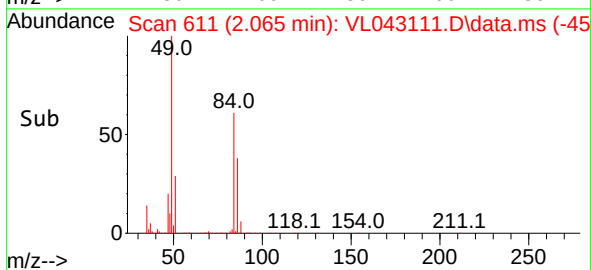
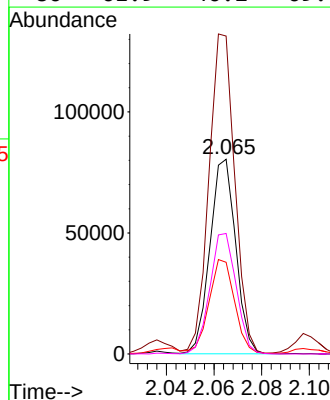
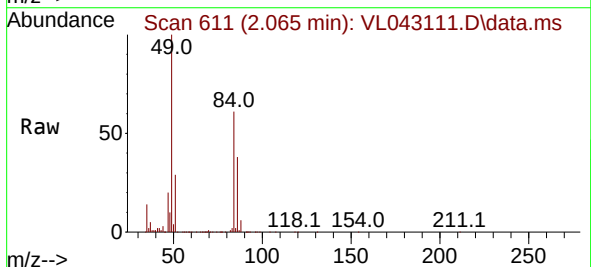
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

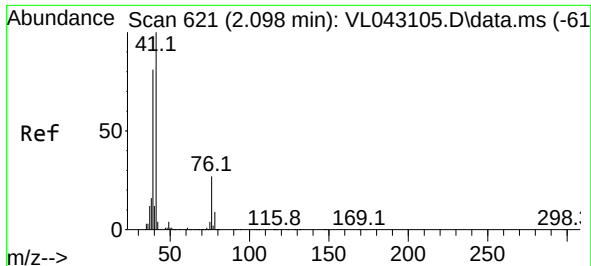
Tgt Ion: 45 Resp: 102035
Ion Ratio Lower Upper
45 100
58 40.2 31.3 46.9



#20
Methylene Chloride
Concen: 11.268 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 60549
Ion Ratio Lower Upper
84 100
49 162.4 116.6 175.0
51 46.6 34.8 52.2
86 61.9 46.2 69.4





#21

Allyl Chloride

Concen: 13.105 ppbv

RT: 2.097 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

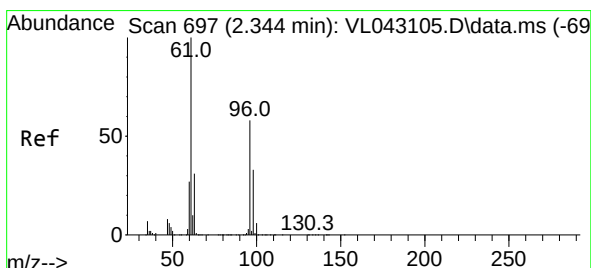
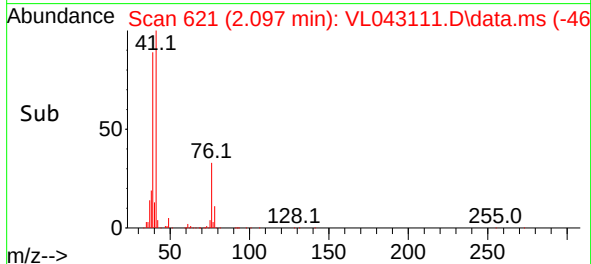
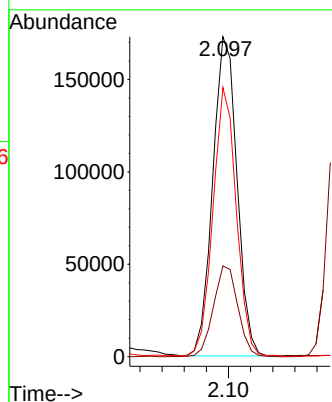
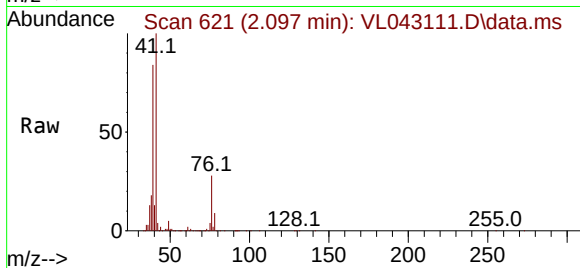
Tgt Ion: 41 Resp: 131539

Ion Ratio Lower Upper

41 100

76 28.8 21.5 32.3

39 80.9 60.8 91.2



#22

trans-1,2-Dichloroethene

Concen: 13.048 ppbv

RT: 2.343 min Scan# 697

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

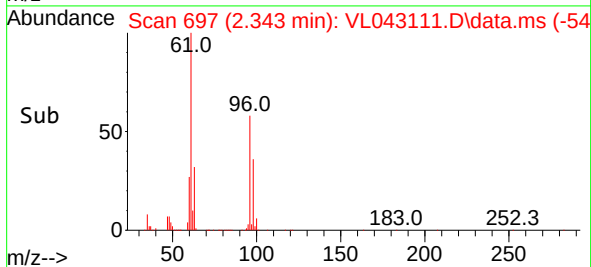
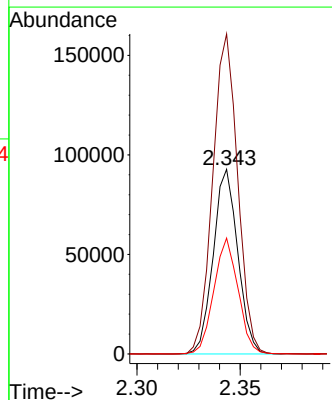
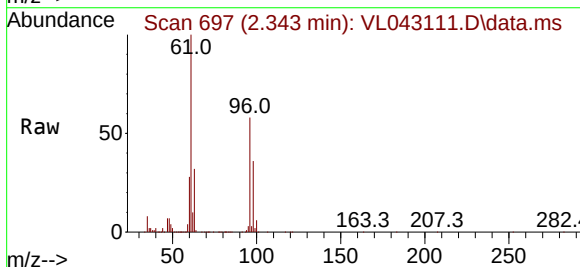
Tgt Ion: 96 Resp: 76780

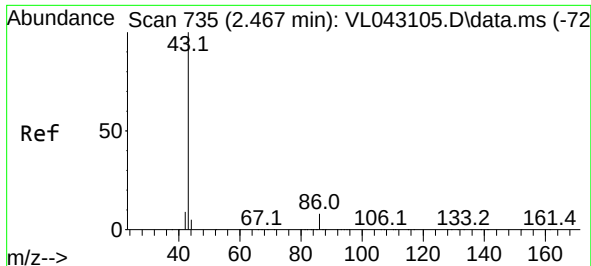
Ion Ratio Lower Upper

96 100

61 173.2 137.0 205.6

98 62.8 45.5 68.3



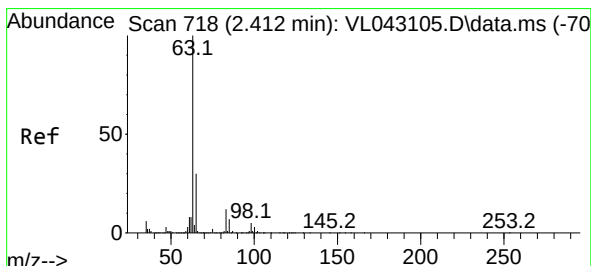
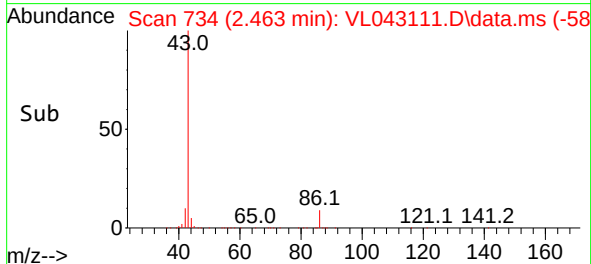
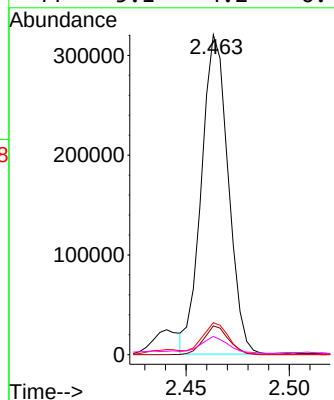
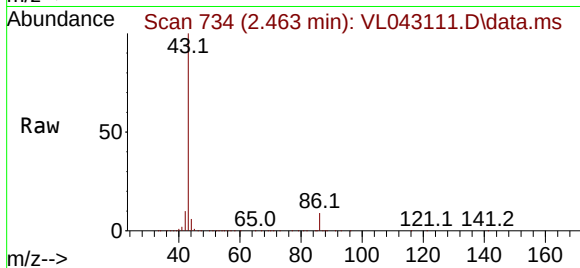


#23
 Vinyl Acetate
 Concen: 14.476 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 288274

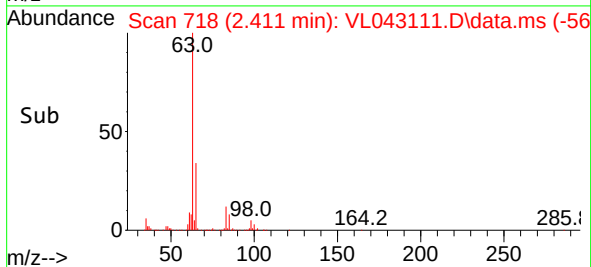
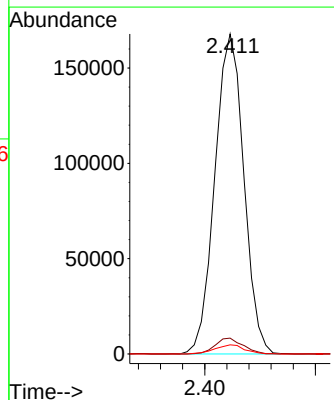
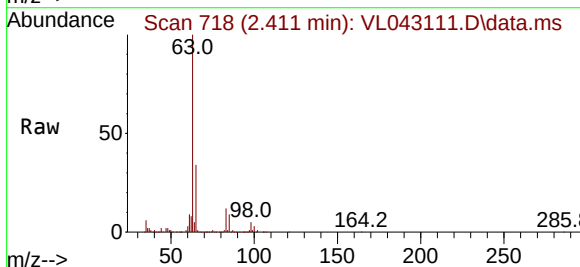
Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.2	9.2
42	10.0	7.6	11.4
44	5.1	4.2	6.4

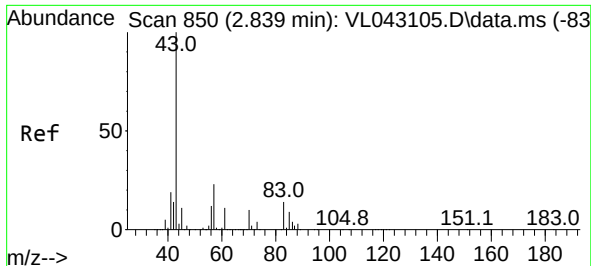


#24
 1,1-Dichloroethane
 Concen: 13.428 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 63 Resp: 152663

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	2.8	1.5	4.4



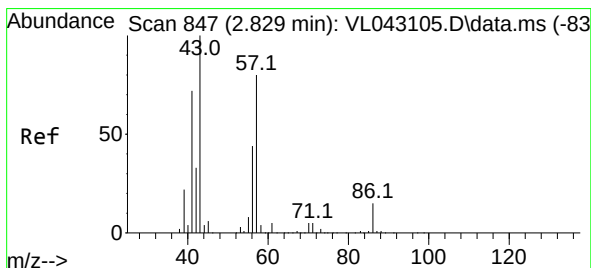
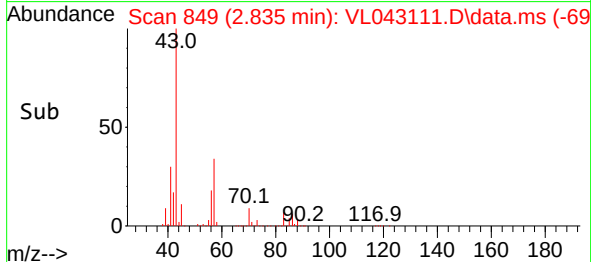
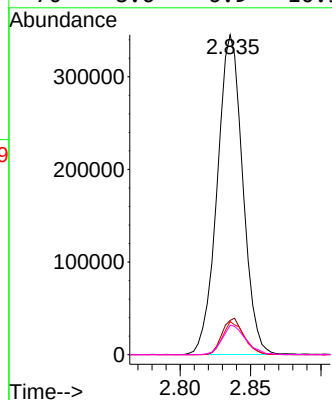
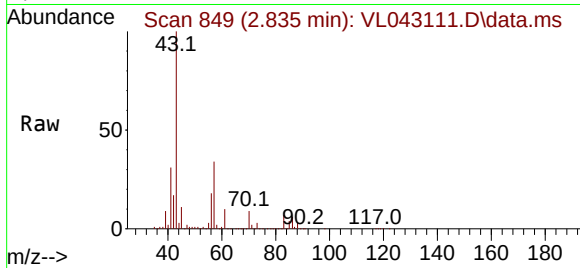


#25
Ethyl Acetate
Concen: 12.884 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 434350

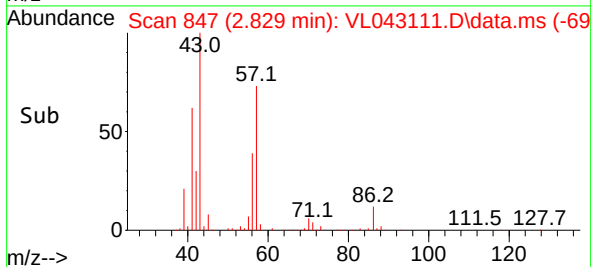
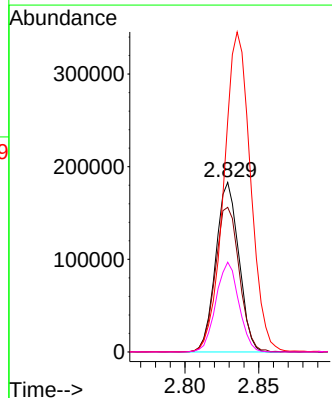
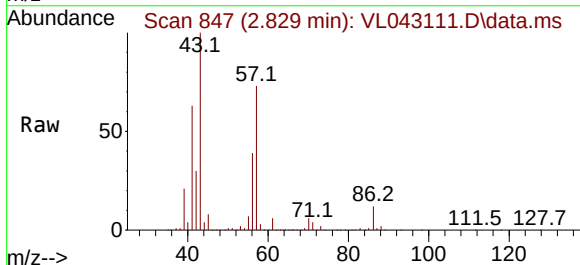
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.9	7.0	10.6
70	8.6	6.9	10.3

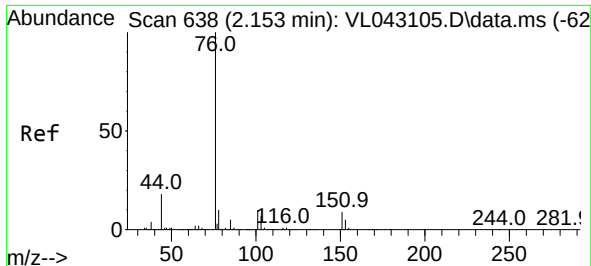


#26
Hexane
Concen: 12.836 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 199384

Ion	Ratio	Lower	Upper
57	100		
41	89.9	71.4	107.0
43	218.2	178.5	267.7
56	52.7	42.2	63.4

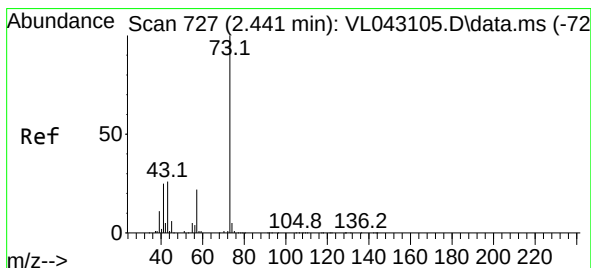
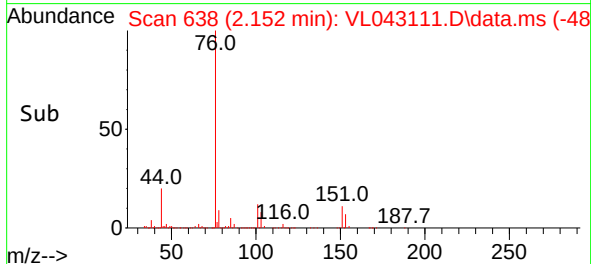
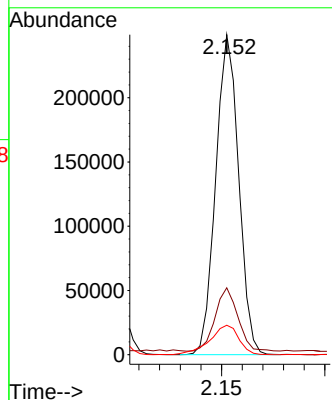
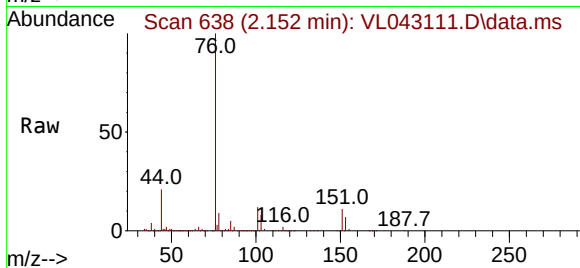




#27
Carbon Disulfide
Concen: 13.522 ppbv
RT: 2.152 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

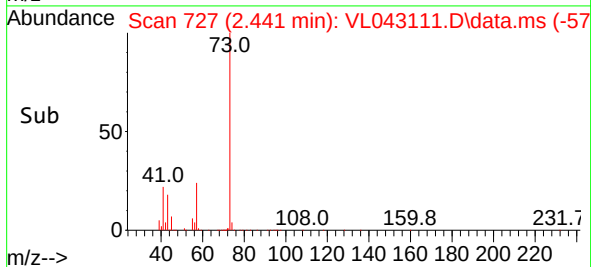
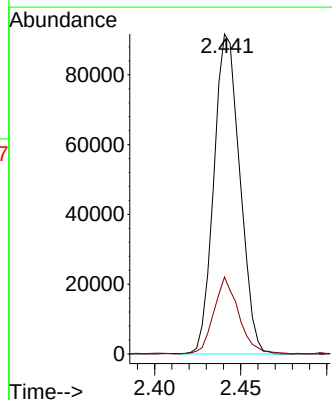
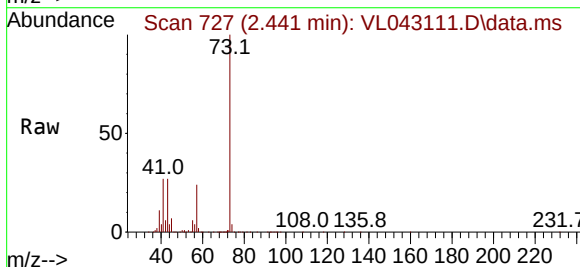
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

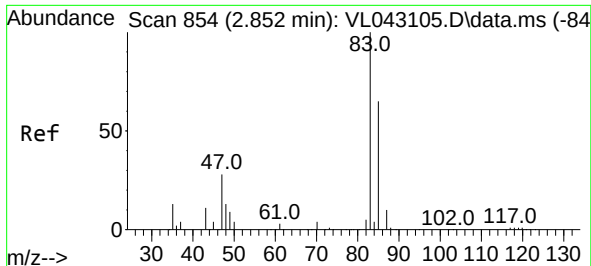
Tgt Ion: 76 Resp: 192452
Ion Ratio Lower Upper
76 100
44 20.6 16.7 25.1
78 11.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 13.650 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 73 Resp: 96464
Ion Ratio Lower Upper
73 100
57 22.7 20.5 30.7

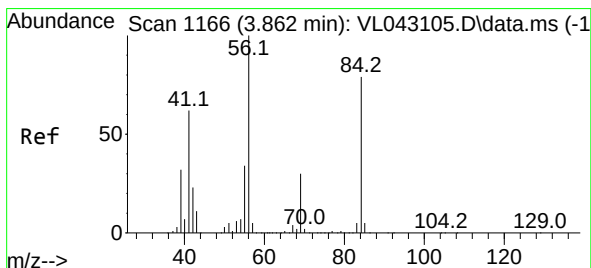
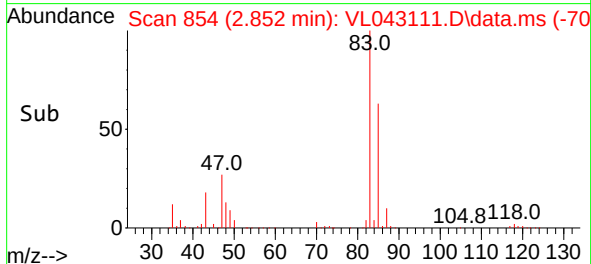
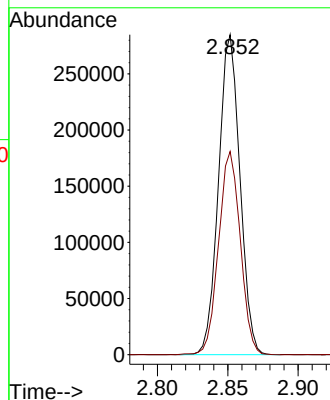
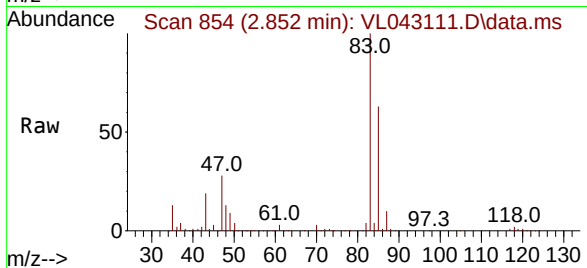




#29
Chloroform
Concen: 13.425 ppbv
RT: 2.852 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

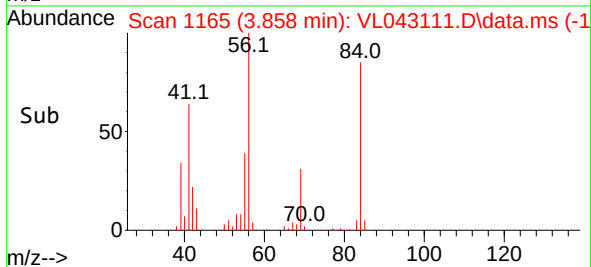
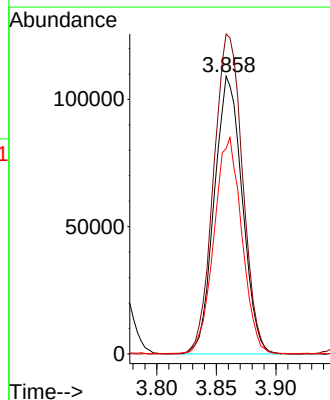
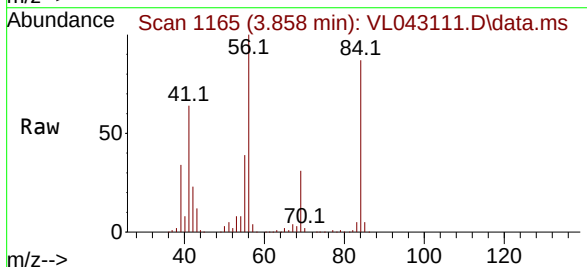
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

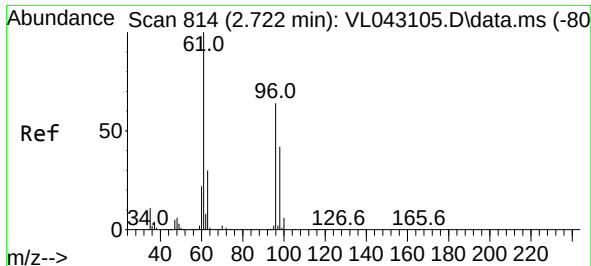
Tgt Ion: 83 Resp: 302154
Ion Ratio Lower Upper
83 100
85 63.5 51.8 77.6



#30
Cyclohexane
Concen: 13.133 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 177947
Ion Ratio Lower Upper
84 100
56 119.1 100.9 151.3
41 77.3 63.8 95.6

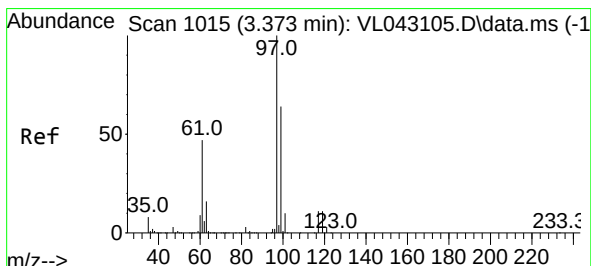
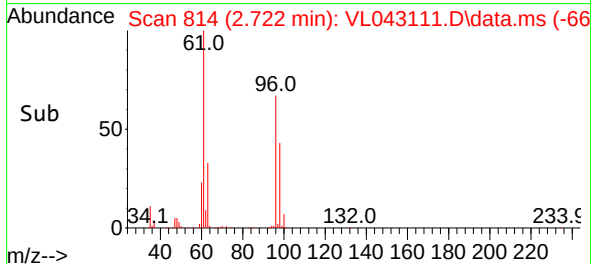
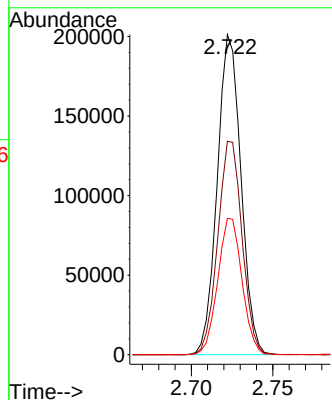
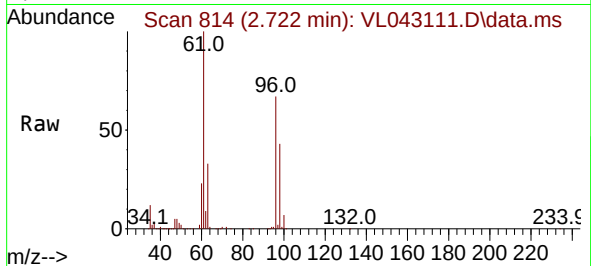




#31
 cis-1,2-Dichloroethene
 Concen: 13.745 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

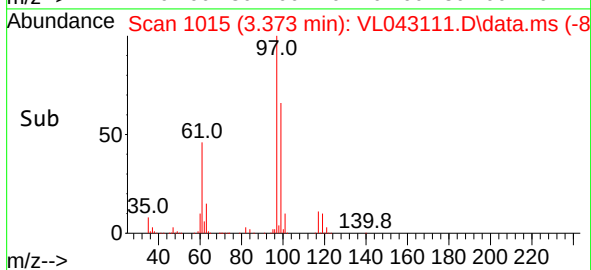
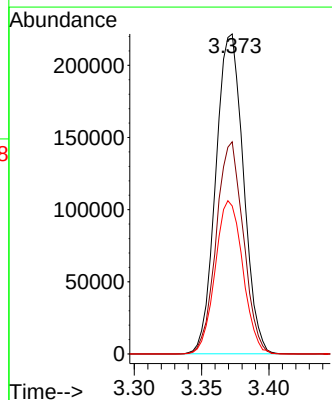
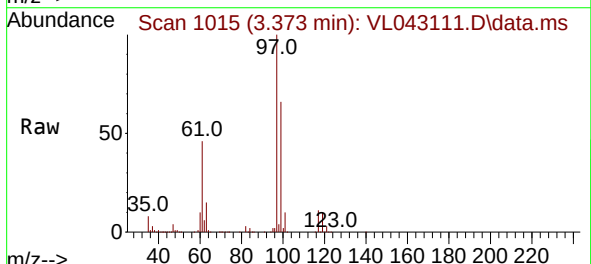
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

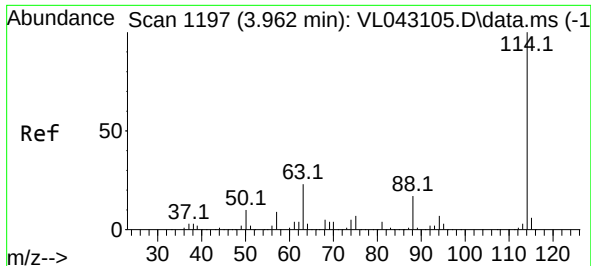
Tgt Ion: 61 Resp: 203888
 Ion Ratio Lower Upper
 61 100
 96 66.7 51.0 76.6
 98 42.6 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 13.500 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 97 Resp: 316442
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.3 76.9
 61 48.0 38.4 57.6

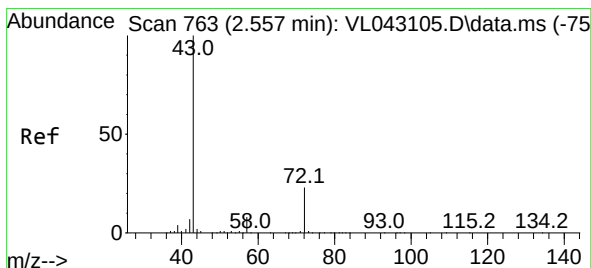
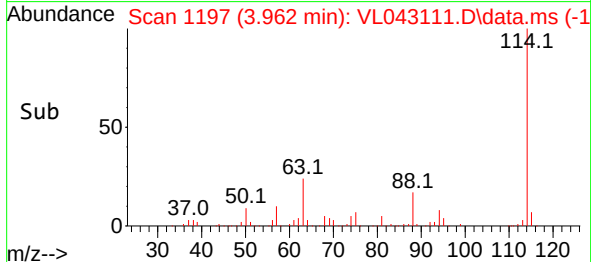
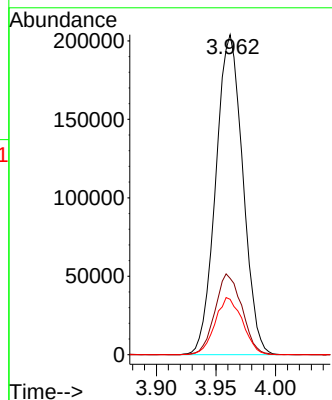
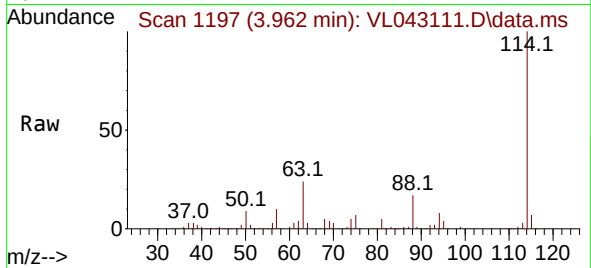




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

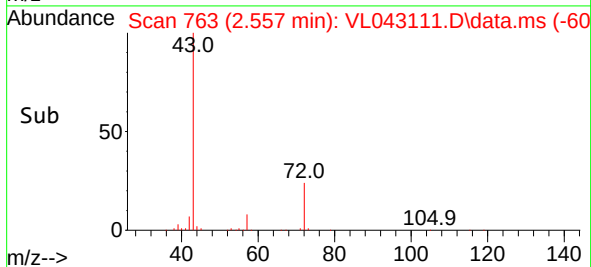
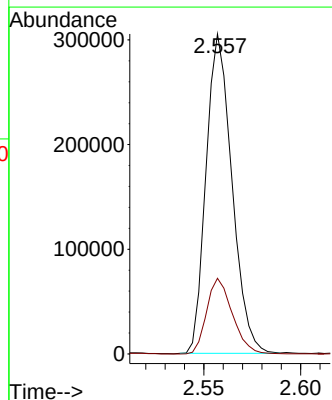
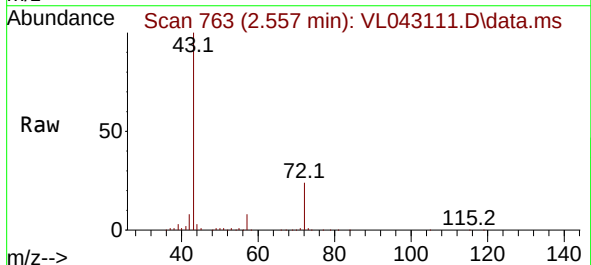
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

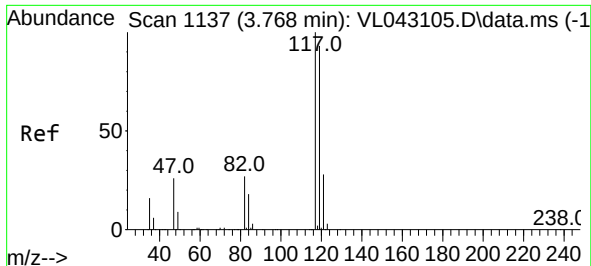
Tgt Ion:114 Resp: 321665
 Ion Ratio Lower Upper
 114 100
 63 25.1 19.3 28.9
 88 18.1 13.9 20.9



#34
 2-Butanone
 Concen: 13.020 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 283134
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.4 27.6

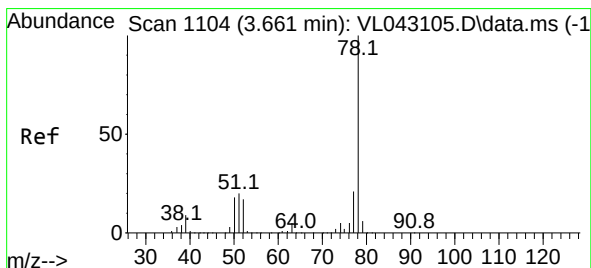
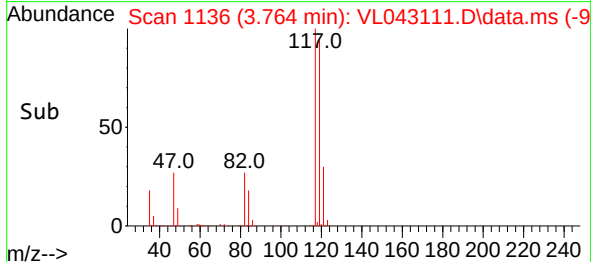
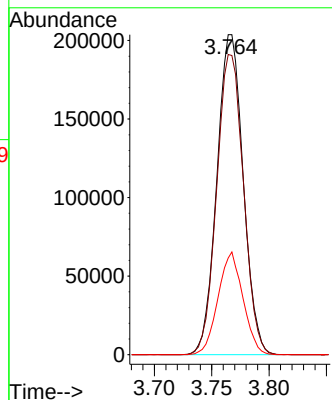
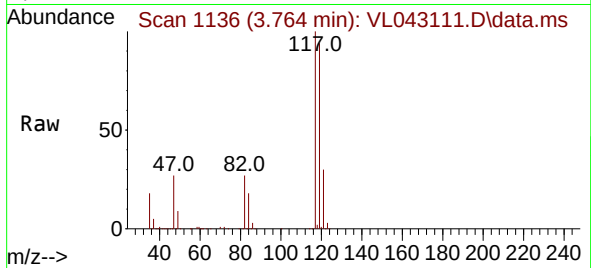




#35
Carbon Tetrachloride
Concen: 14.056 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

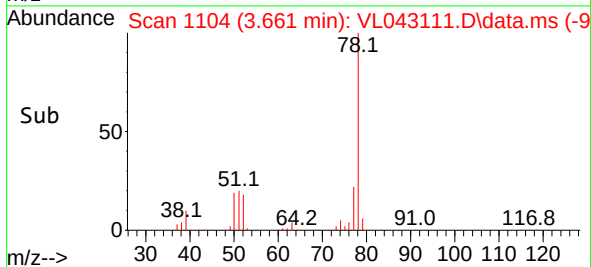
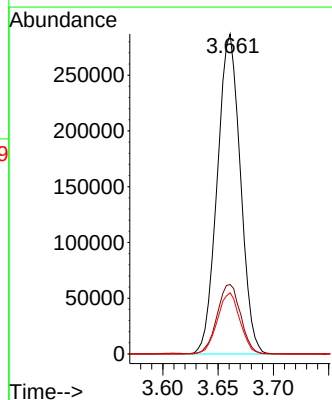
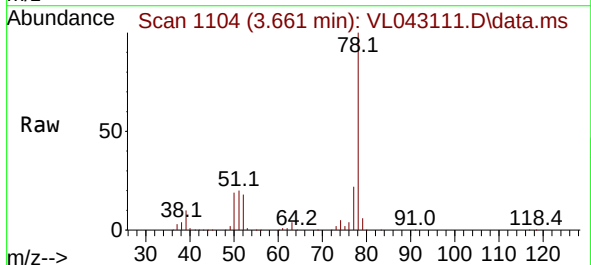
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

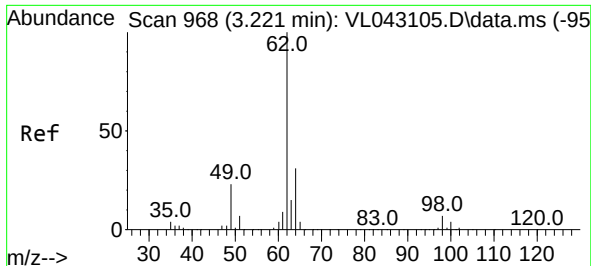
Tgt Ion: 117 Resp: 325078
Ion Ratio Lower Upper
117 100
119 93.8 74.1 111.1
121 30.2 22.2 33.2



#36
Benzene
Concen: 13.725 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 78 Resp: 415823
Ion Ratio Lower Upper
78 100
77 21.6 17.0 25.6
50 19.1 14.6 22.0

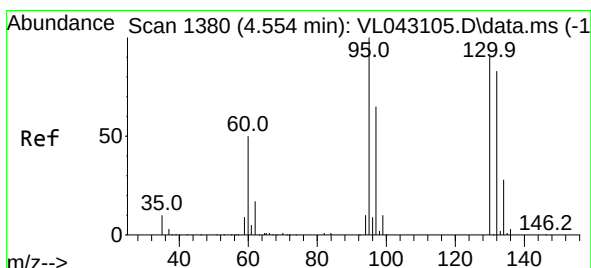
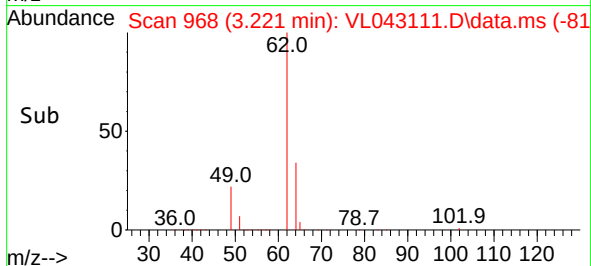
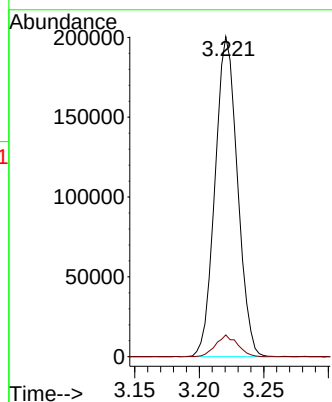
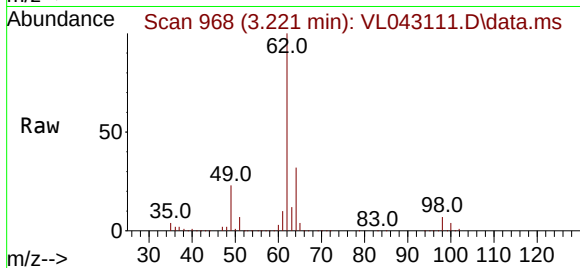




#37
1,2-Dichloroethane
Concen: 13.865 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

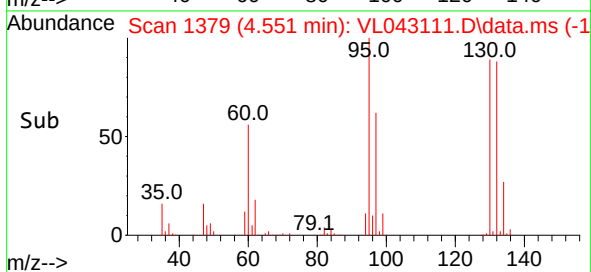
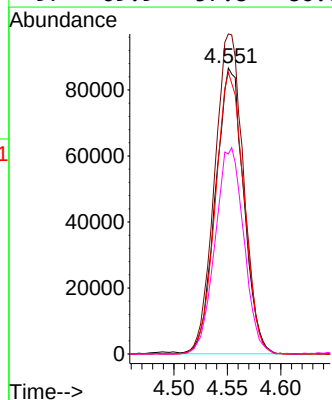
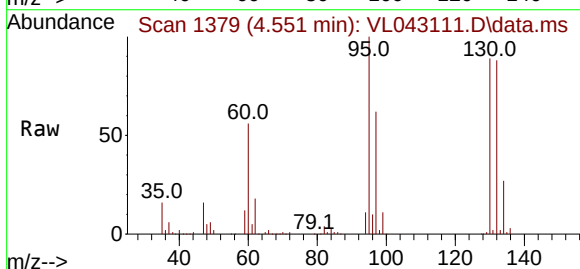
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

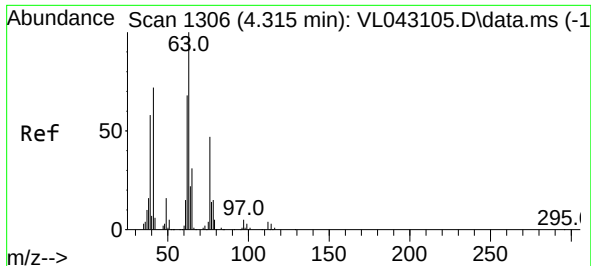
Tgt Ion: 62 Resp: 241983
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6



#38
Trichloroethene
Concen: 12.590 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:130 Resp: 159136
Ion Ratio Lower Upper
130 100
95 111.8 88.6 133.0
132 98.5 73.4 110.0
97 69.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 13.274 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

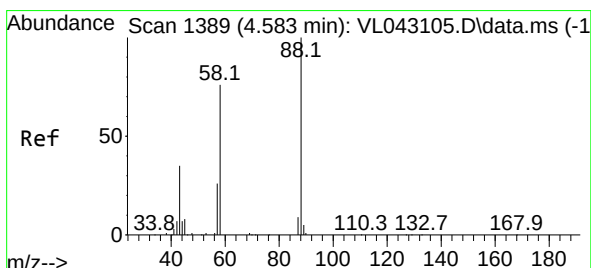
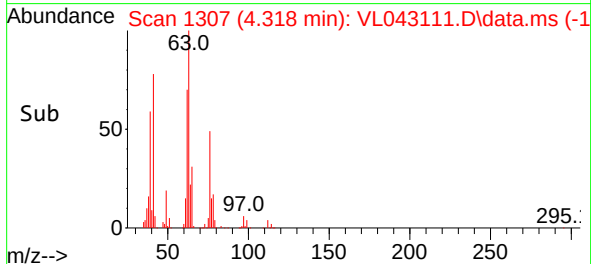
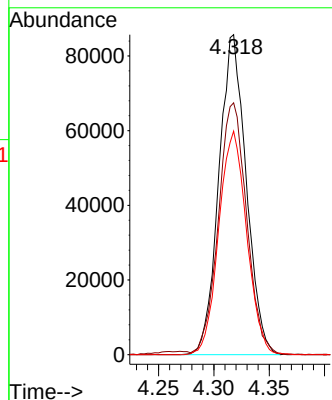
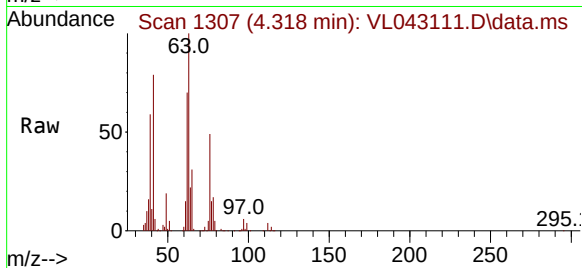
Tgt Ion: 63 Resp: 147155

Ion Ratio Lower Upper

63 100

41 78.4 58.0 87.0

62 69.9 54.7 82.1



#40

1,4-Dioxane

Concen: 13.180 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Tgt Ion: 88 Resp: 65323

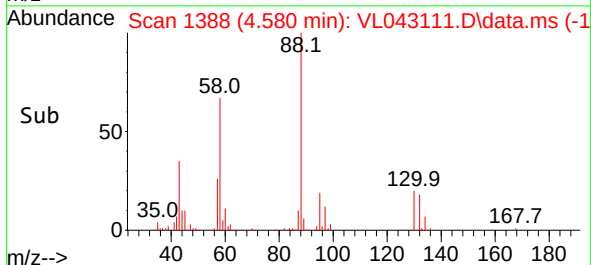
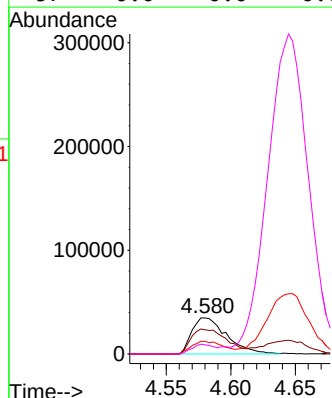
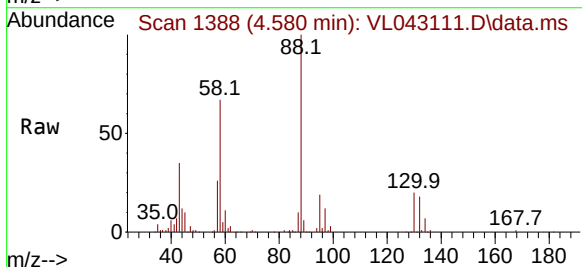
Ion Ratio Lower Upper

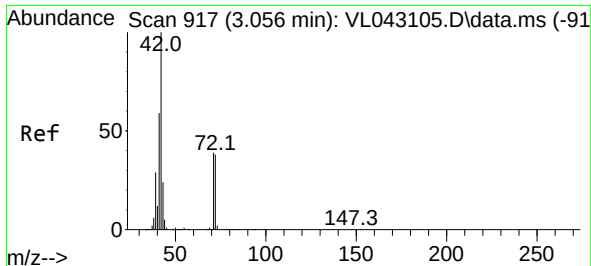
88 100

58 69.1 61.1 91.7

43 30.0 24.0 36.0

57 0.0 0.0 0.0

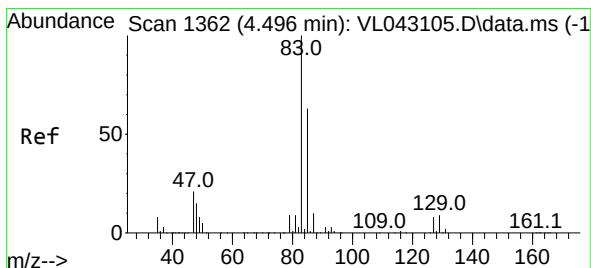
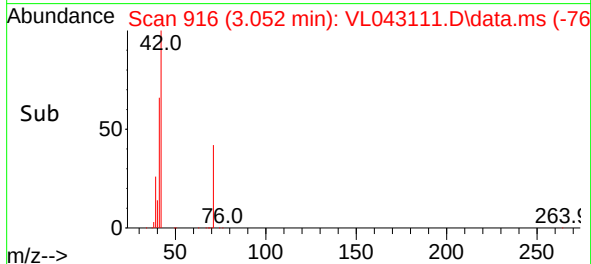
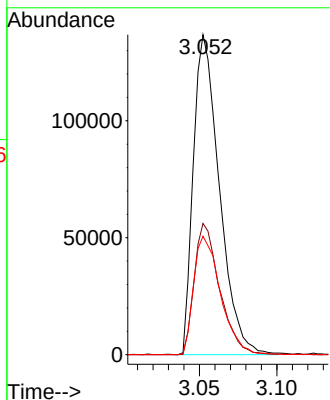
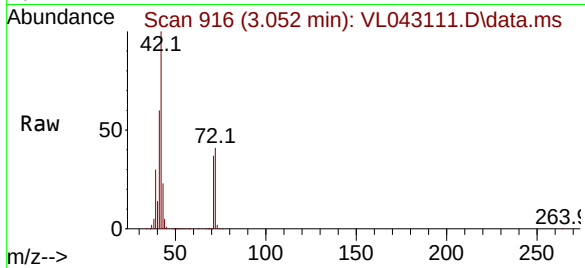




#41
Tetrahydrofuran
Concen: 13.200 ppbv
RT: 3.052 min Scan# 917
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

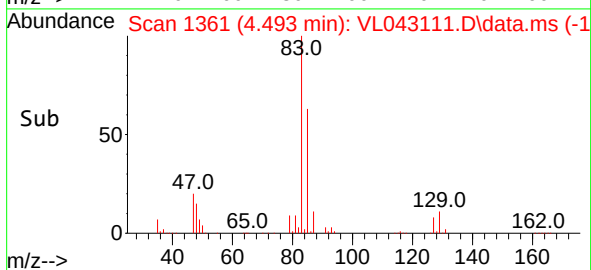
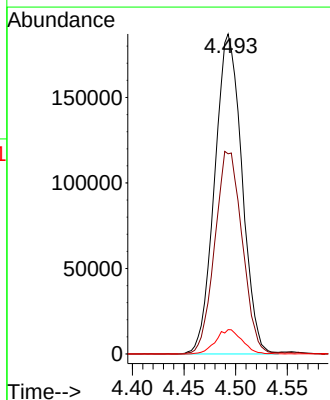
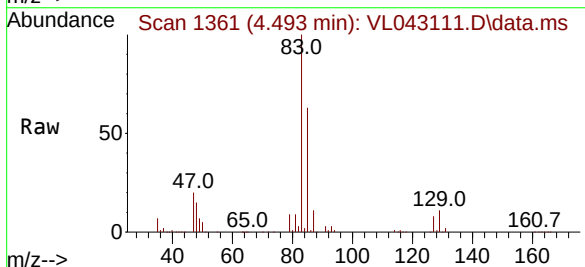
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

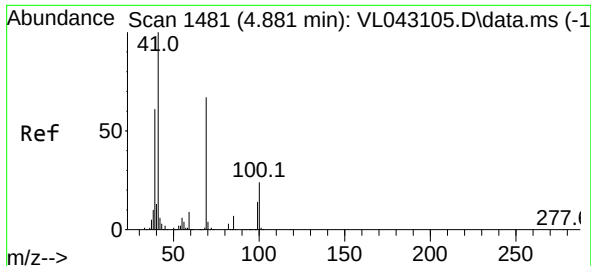
Tgt Ion: 42 Resp: 160247
Ion Ratio Lower Upper
42 100
72 40.0 31.3 46.9
71 38.2 30.4 45.6



#42
Bromodichloromethane
Concen: 14.234 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 83 Resp: 343817
Ion Ratio Lower Upper
83 100
85 62.5 50.6 75.8
127 7.6 6.3 9.5

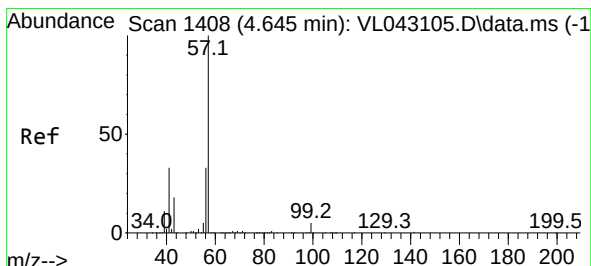
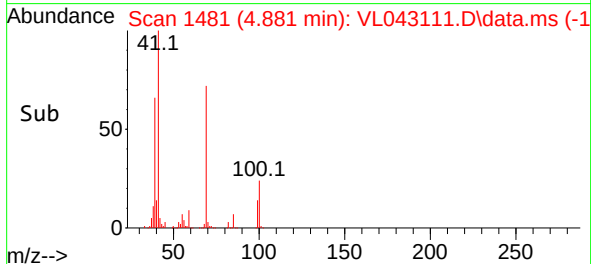
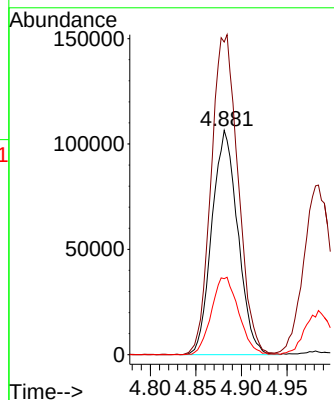
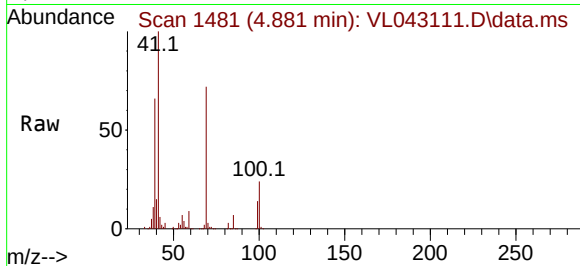




#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

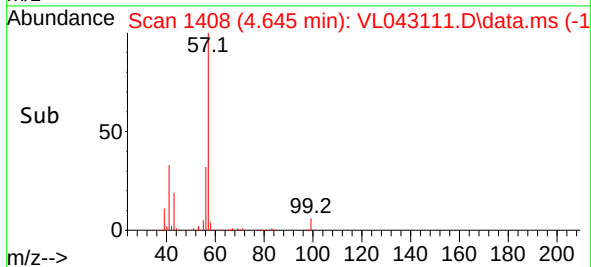
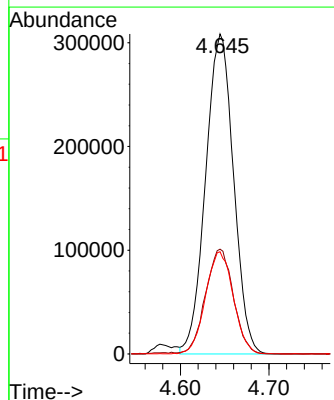
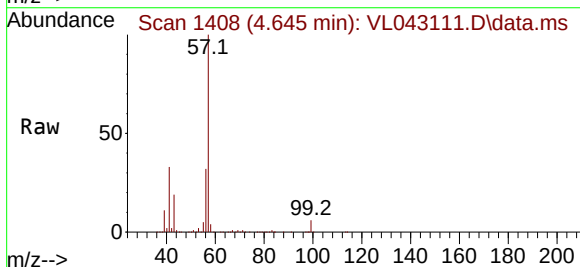
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

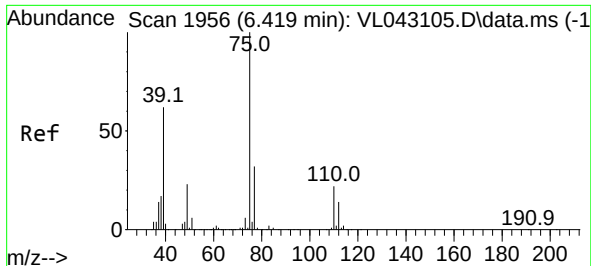
Tgt Ion: 69 Resp: 210756
Ion Ratio Lower Upper
69 100
41 148.2 120.5 180.7
100 36.3 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 13.340 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.9 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 14.142 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

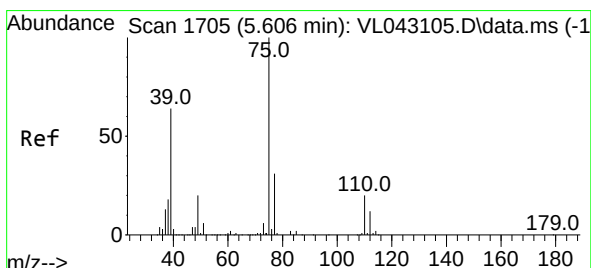
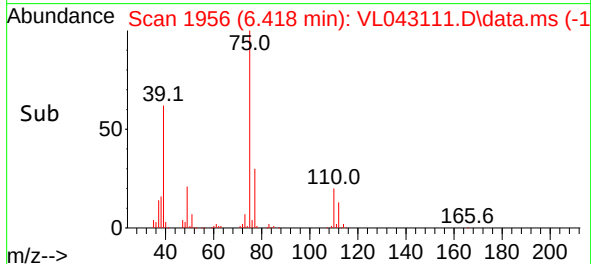
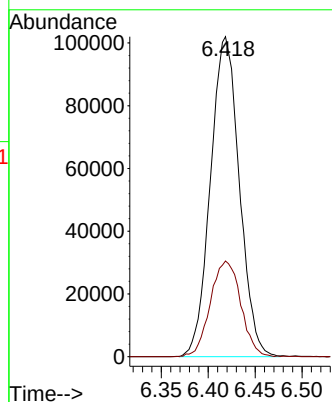
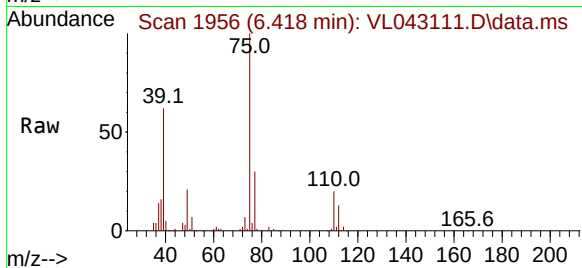
VSTDIC015

Tgt Ion: 75 Resp: 218386

Ion Ratio Lower Upper

75 100

77 29.9 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 14.018 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

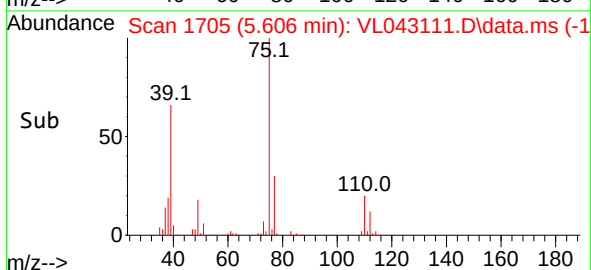
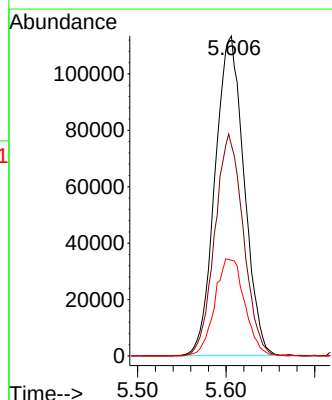
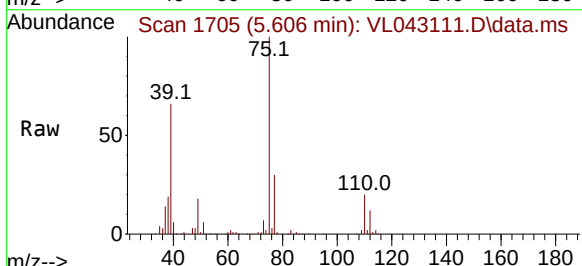
Tgt Ion: 75 Resp: 258355

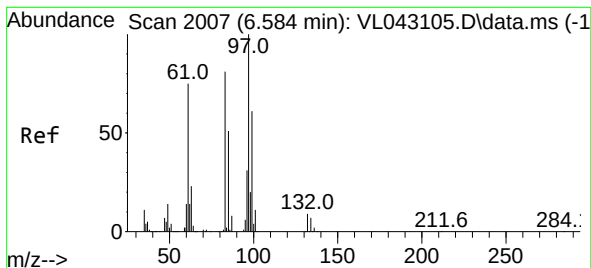
Ion Ratio Lower Upper

75 100

39 65.8 51.0 76.6

77 29.9 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 13.638 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 163113

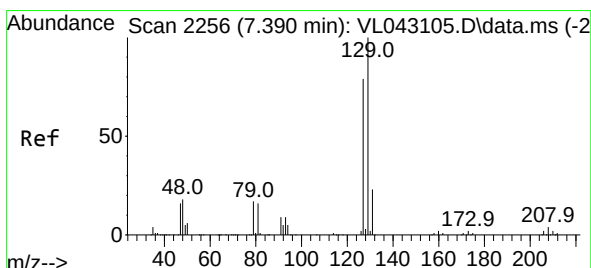
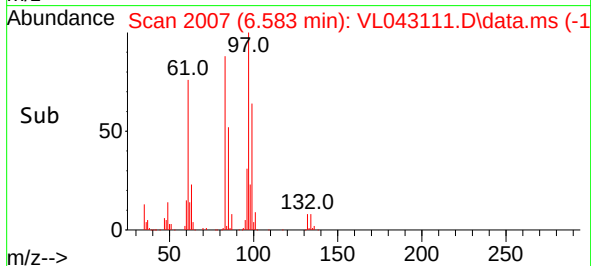
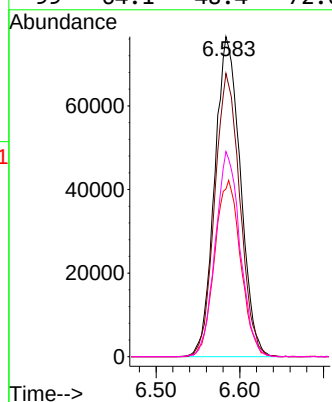
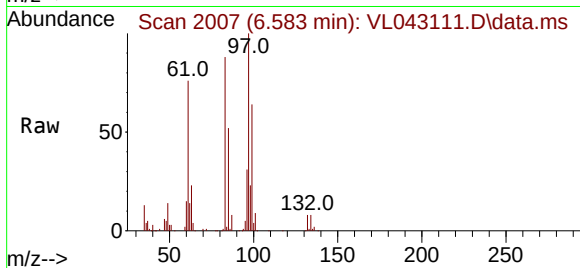
Ion Ratio Lower Upper

97 100

83 88.4 64.6 96.8

85 52.4 40.6 60.8

99 64.1 48.4 72.6



#48

Dibromochloromethane

Concen: 14.051 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043111.D

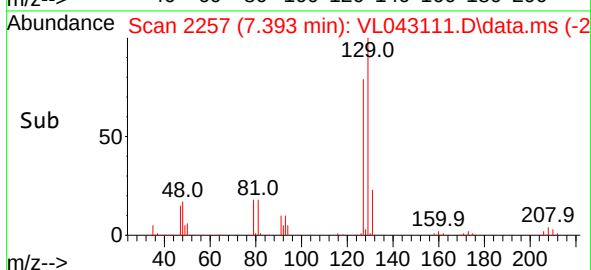
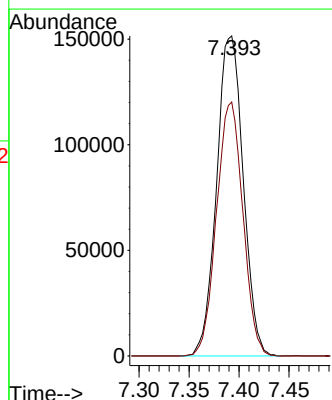
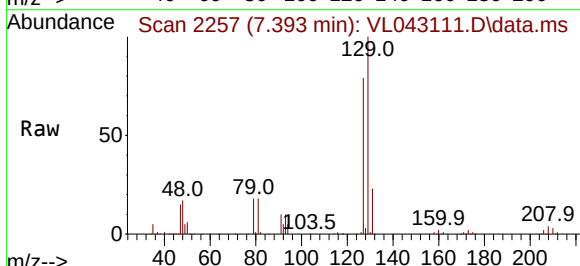
Acq: 14 Oct 2025 14:18

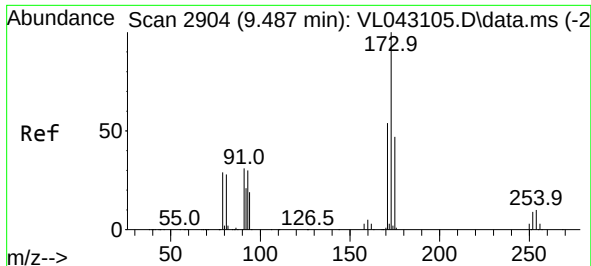
Tgt Ion: 129 Resp: 280993

Ion Ratio Lower Upper

129 100

127 78.6 39.3 117.9

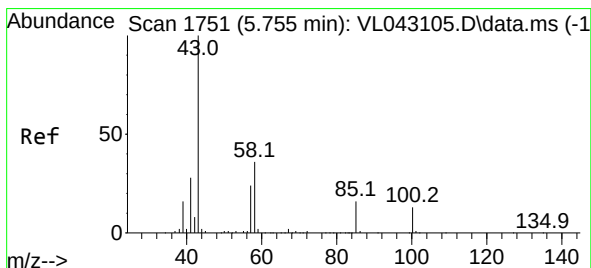
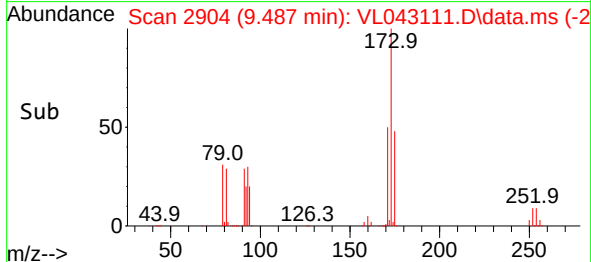
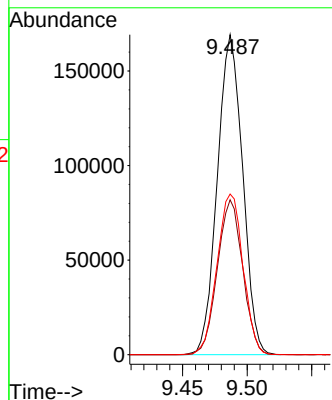
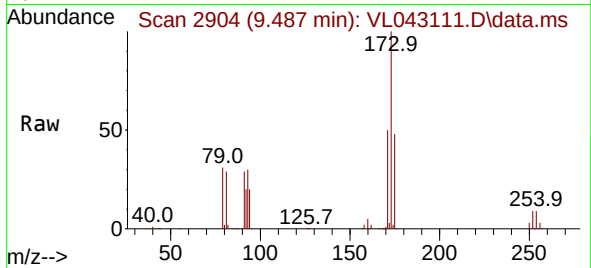




#49
Bromoform
Concen: 14.184 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

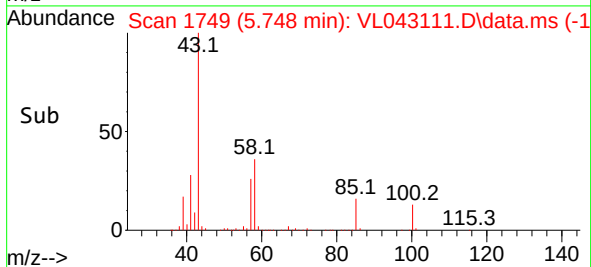
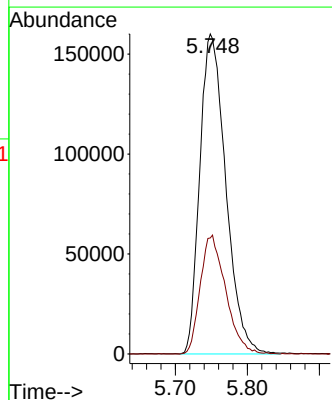
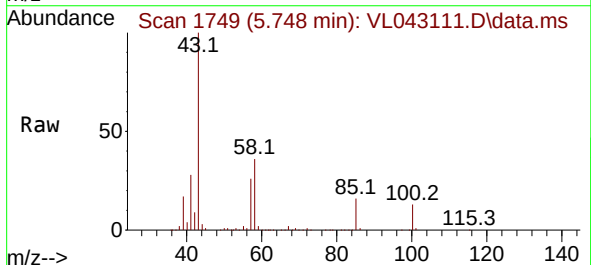
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

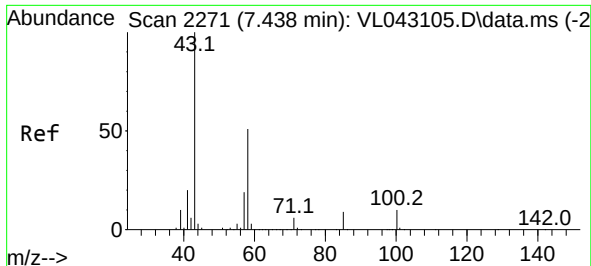
Tgt Ion:173 Resp: 230561
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
171 51.7 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 13.396 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.007 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 401849
Ion Ratio Lower Upper
43 100
58 36.3 29.1 43.7

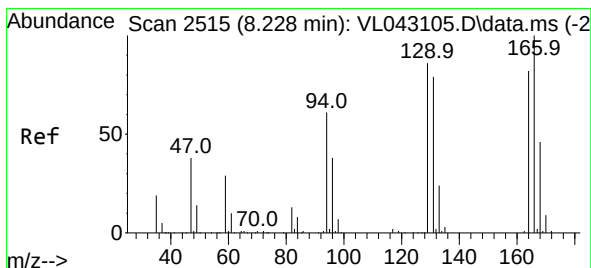
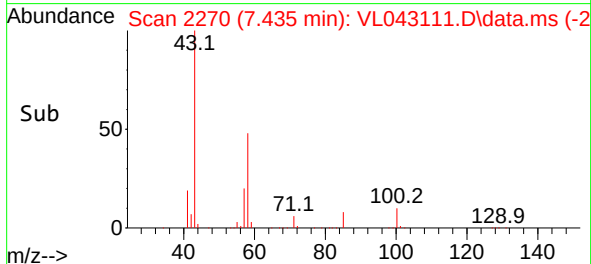
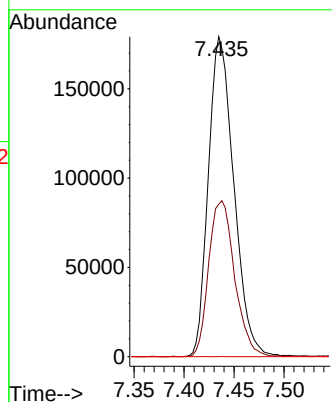
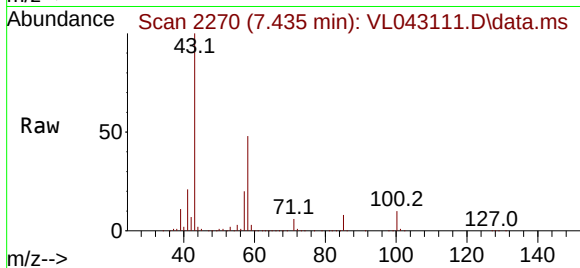




#51
2-Hexanone
Concen: 14.176 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

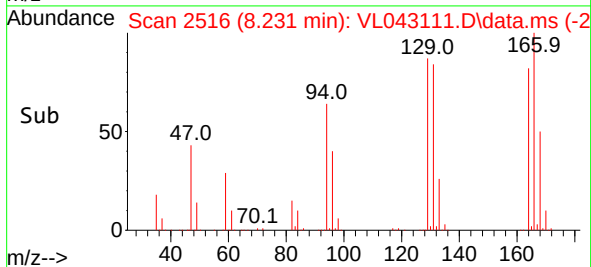
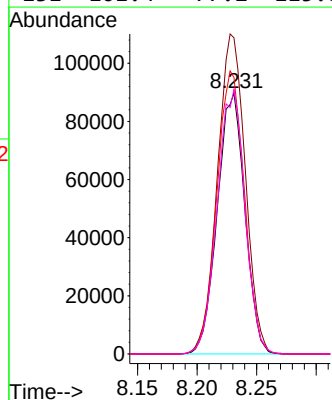
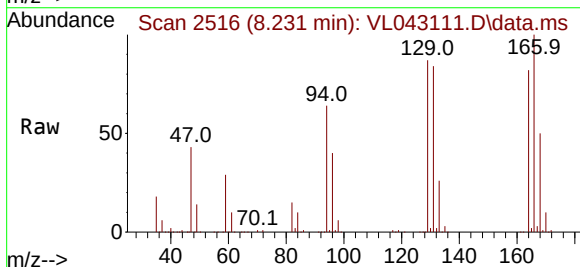
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

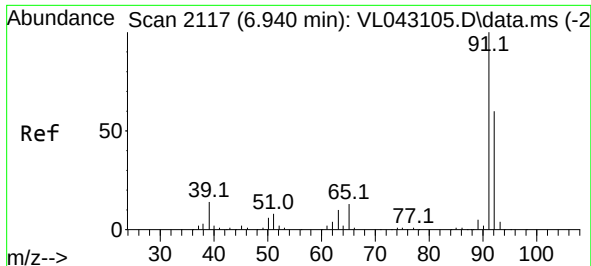
Tgt Ion: 43 Resp: 317288
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 13.177 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:164 Resp: 143954
Ion Ratio Lower Upper
164 100
166 121.3 97.6 146.4
129 106.0 84.5 126.7
131 101.4 77.2 115.8

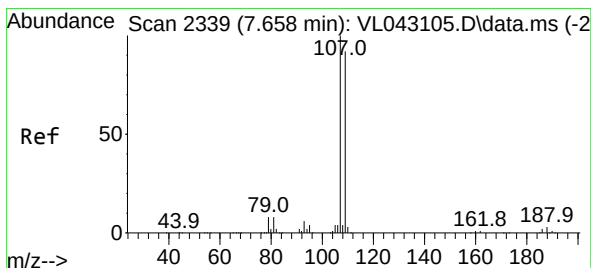
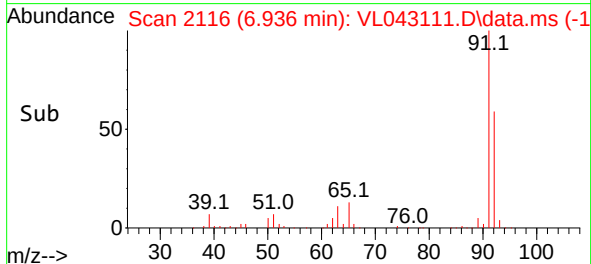
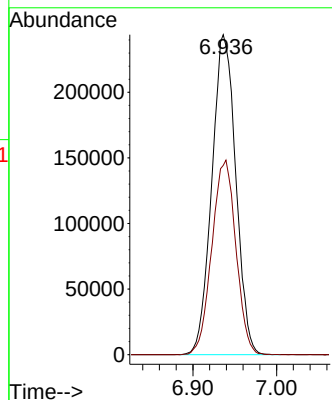
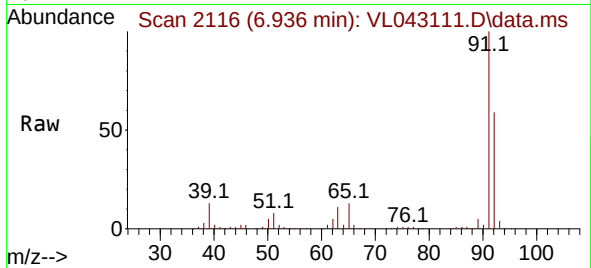




#53
Toluene
Concen: 13.457 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

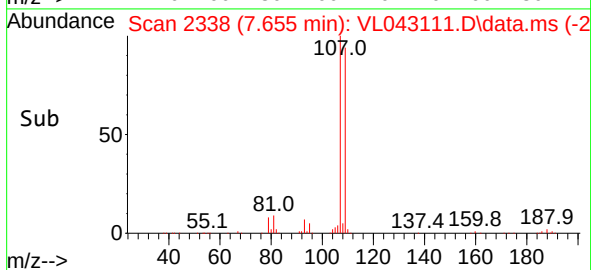
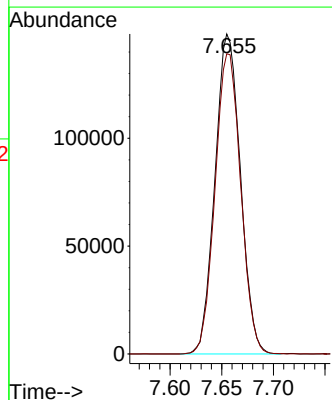
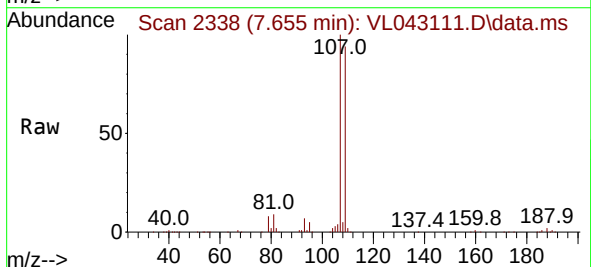
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

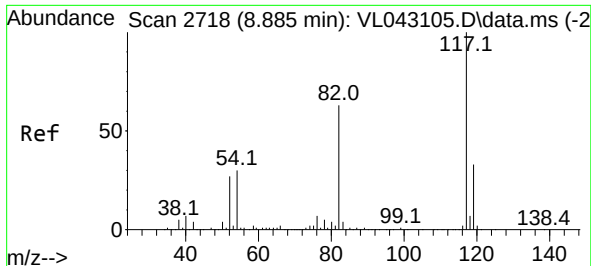
Tgt Ion: 91 Resp: 483870
Ion Ratio Lower Upper
91 100
92 61.1 48.8 73.2



#54
1,2-Dibromoethane
Concen: 13.461 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 107 Resp: 254024
Ion Ratio Lower Upper
107 100
109 93.8 73.4 110.2

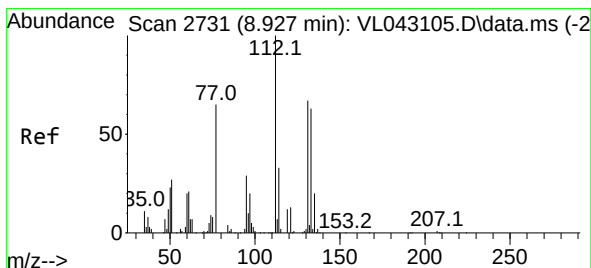
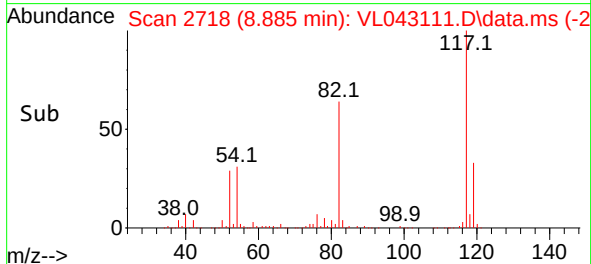
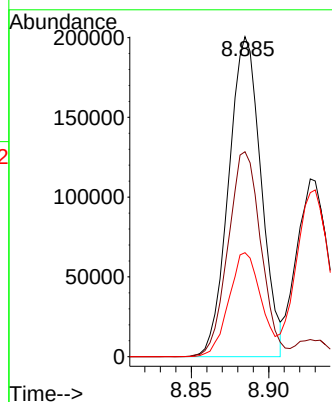
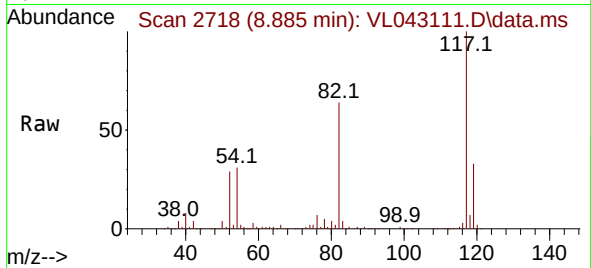




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

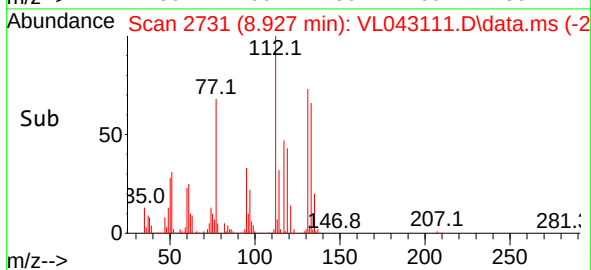
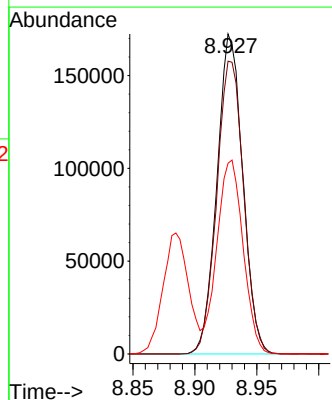
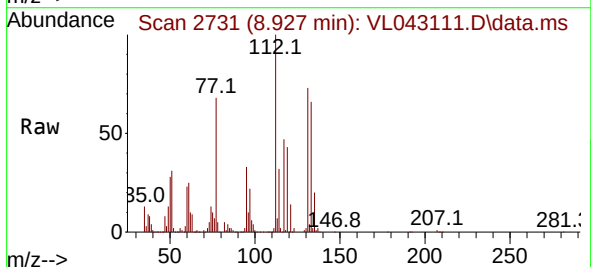
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

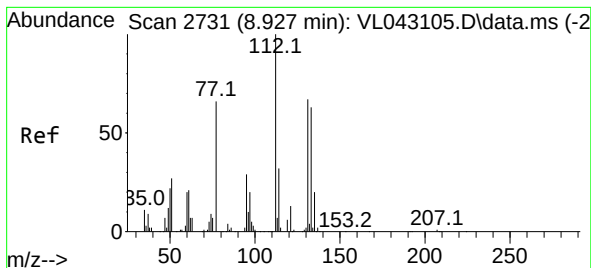
Tgt Ion:117 Resp: 292542
Ion Ratio Lower Upper
117 100
82 70.2 53.8 80.8
119 33.1 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 13.573 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:131 Resp: 250303
Ion Ratio Lower Upper
131 100
133 95.1 75.7 113.5
119 61.9 50.6 76.0





#57

Chlorobenzene

Concen: 12.983 ppbv

RT: 8.927 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

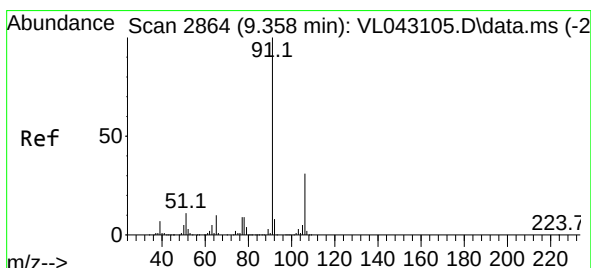
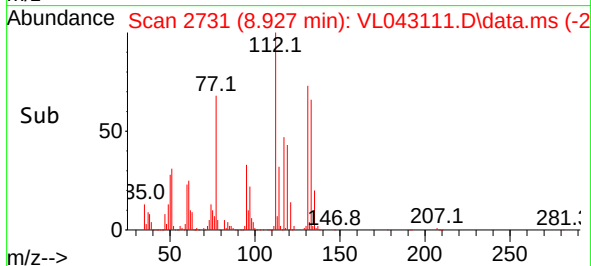
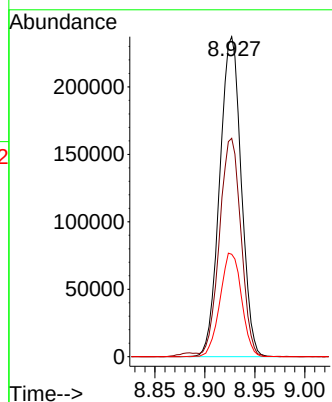
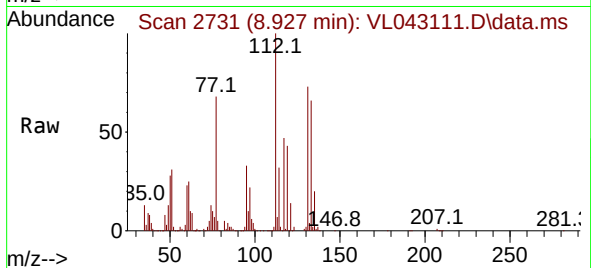
Tgt Ion:112 Resp: 355301

Ion Ratio Lower Upper

112 100

77 68.2 53.3 79.9

114 32.0 29.3 35.8



#58

Ethyl Benzene

Concen: 13.375 ppbv

RT: 9.357 min Scan# 2864

Delta R.T. -0.000 min

Lab File: VL043111.D

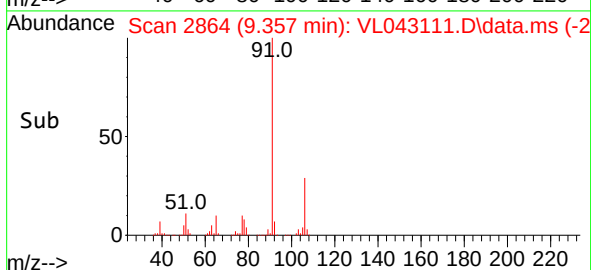
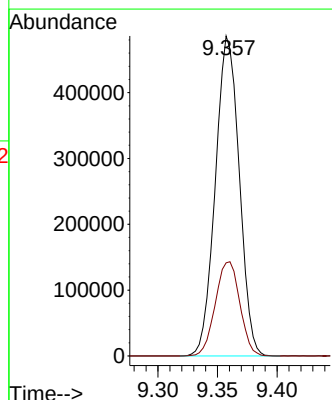
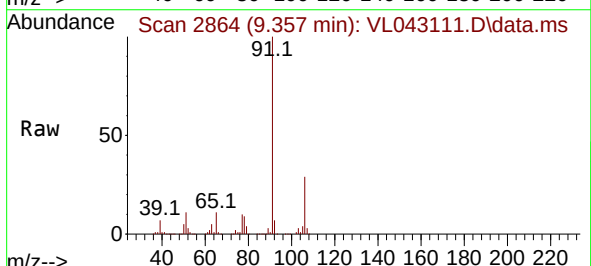
Acq: 14 Oct 2025 14:18

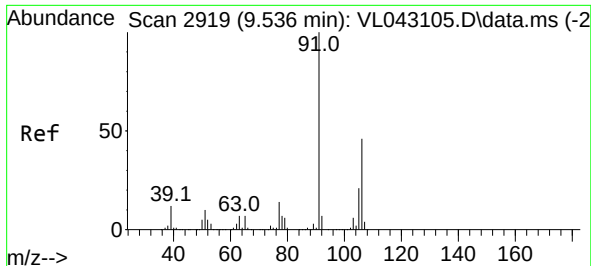
Tgt Ion: 91 Resp: 676918

Ion Ratio Lower Upper

91 100

106 29.1 24.8 37.2





#59

m/p-Xylene

Concen: 15.622 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

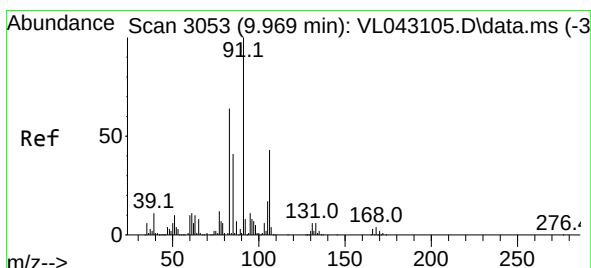
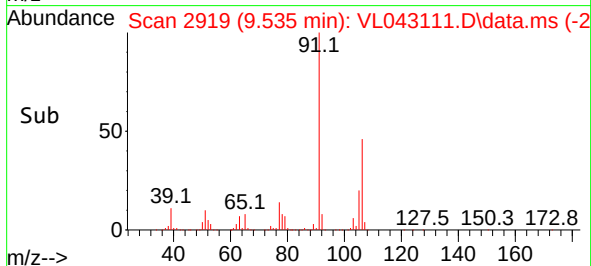
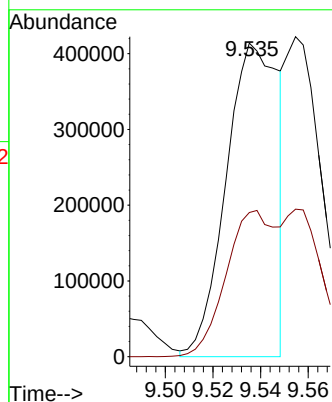
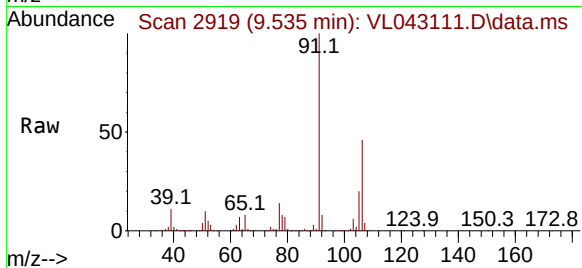
VSTDIC015

Tgt Ion: 91 Resp: 626074

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 13.063 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.004 min

Lab File: VL043111.D

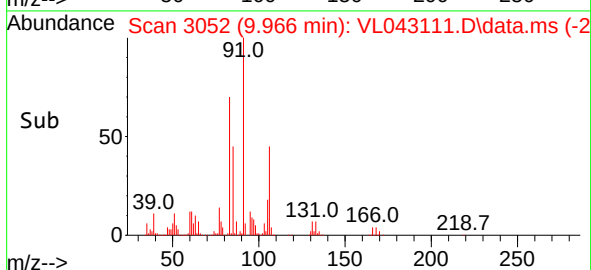
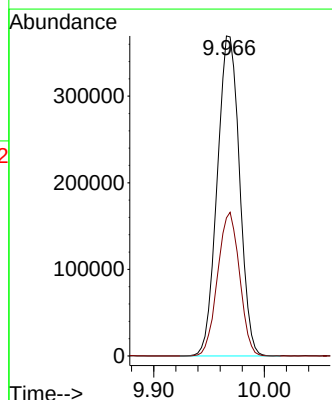
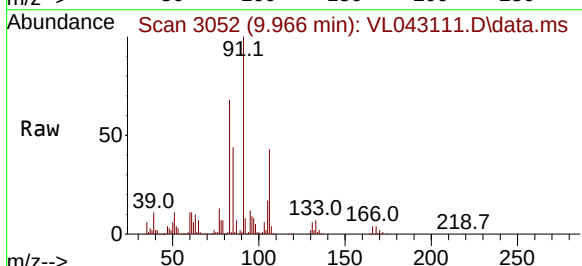
Acq: 14 Oct 2025 14:18

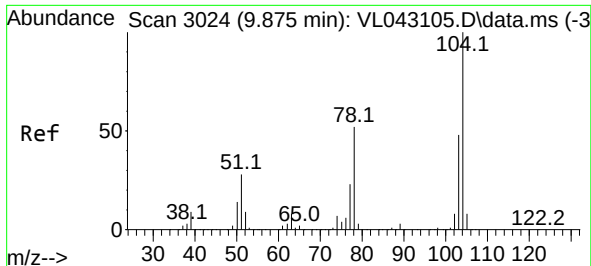
Tgt Ion: 91 Resp: 516660

Ion Ratio Lower Upper

91 100

106 44.3 21.9 65.8

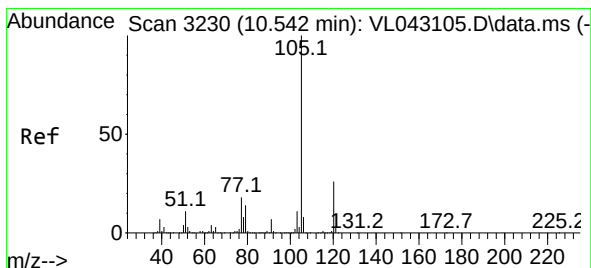
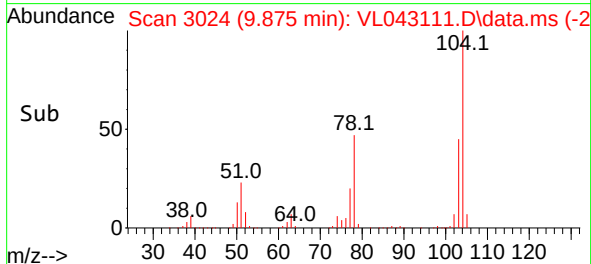
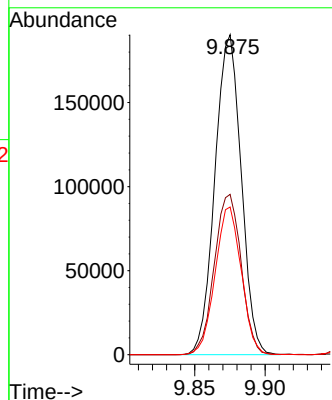
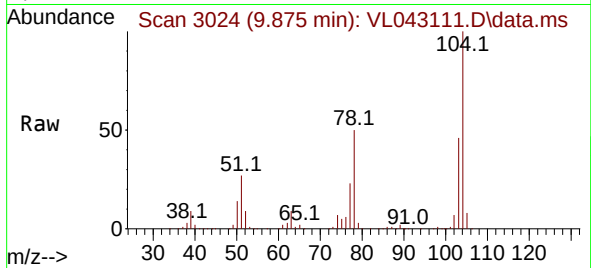




#61
Styrene
Concen: 13.867 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

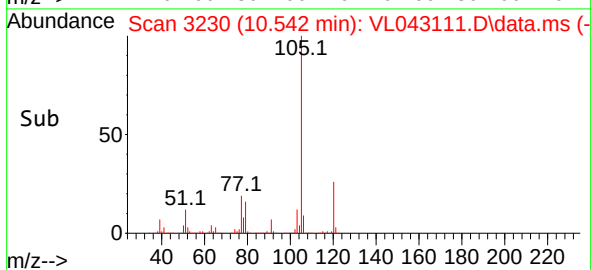
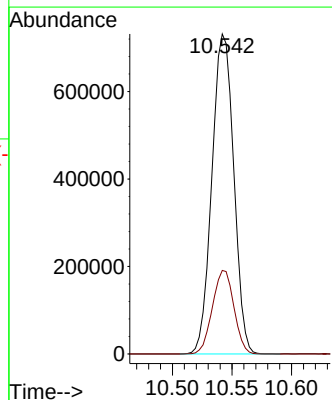
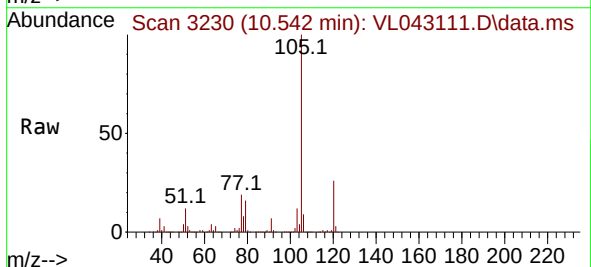
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

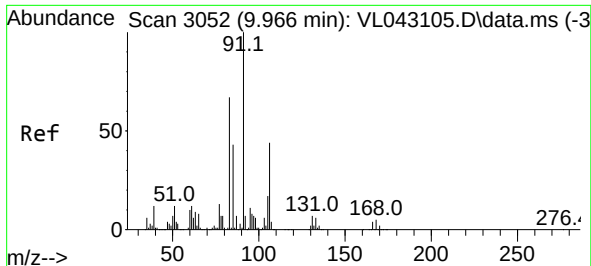
Tgt Ion:104 Resp: 247585
Ion Ratio Lower Upper
104 100
78 51.2 40.2 60.2
103 46.0 36.9 55.3



#62
Isopropylbenzene
Concen: 13.034 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 931508
Ion Ratio Lower Upper
105 100
120 25.7 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 12.515 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

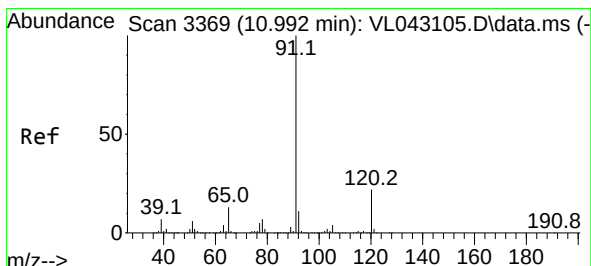
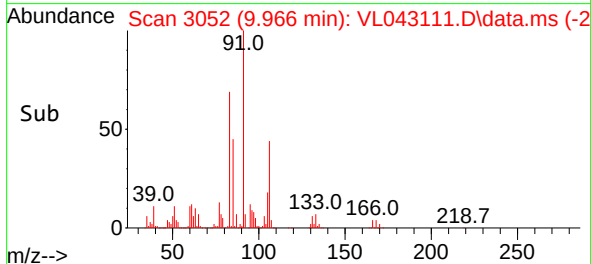
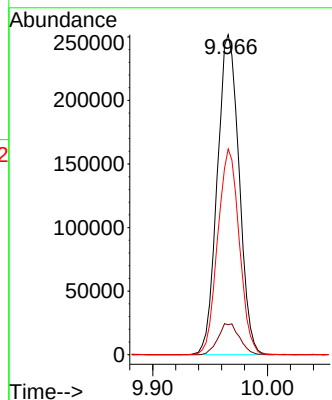
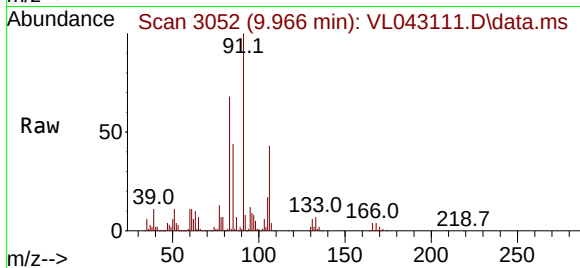
Tgt Ion: 83 Resp: 331423

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

85 63.6 32.0 96.0



#64

n-propylbenzene

Concen: 12.775 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. -0.000 min

Lab File: VL043111.D

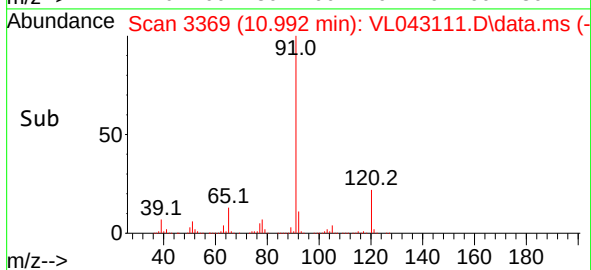
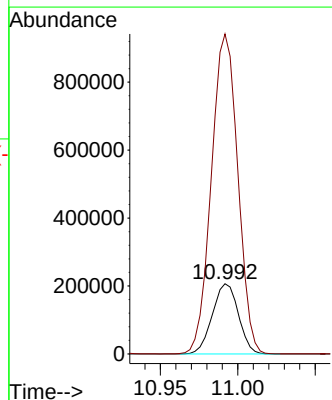
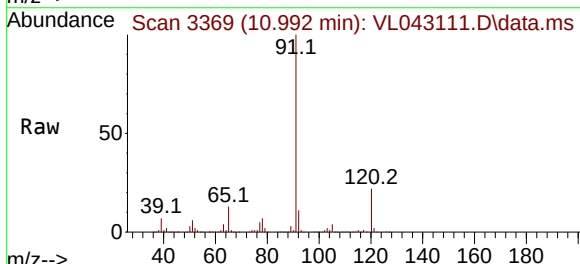
Acq: 14 Oct 2025 14:18

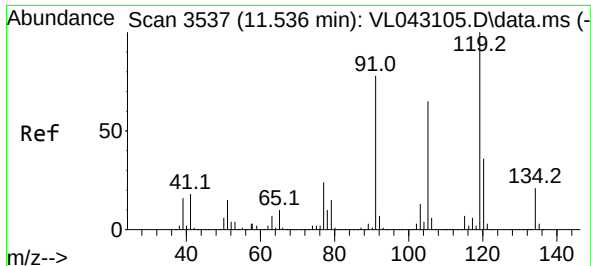
Tgt Ion: 120 Resp: 241719

Ion Ratio Lower Upper

120 100

91 463.5 361.6 542.4

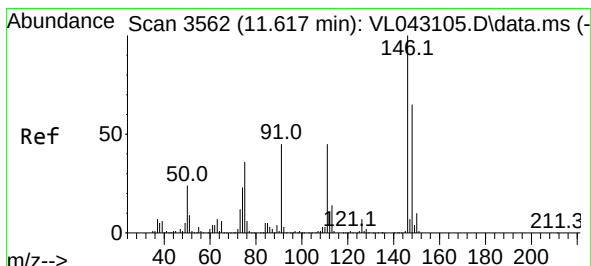
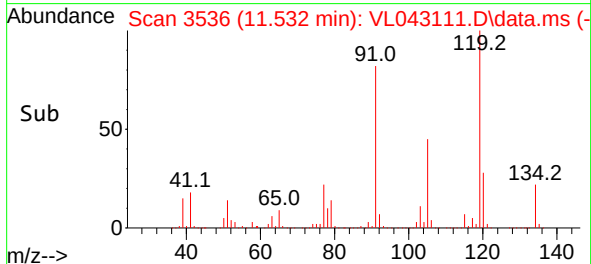
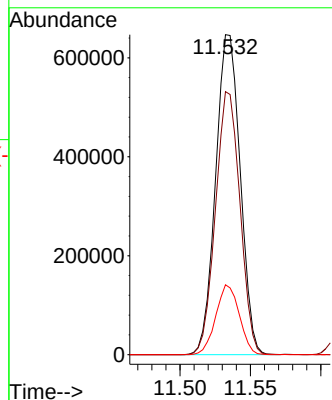
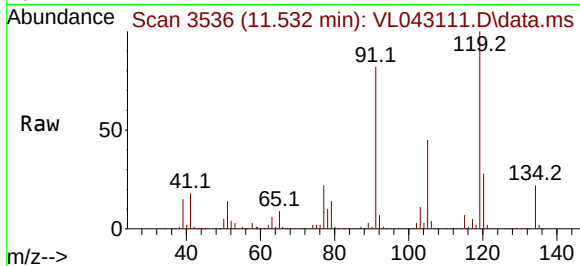




#65
tert-Butylbenzene
Concen: 12.490 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

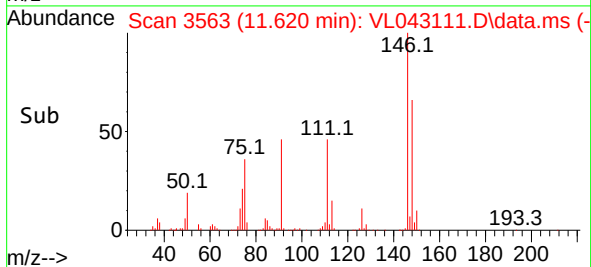
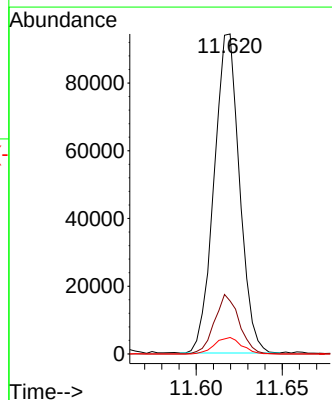
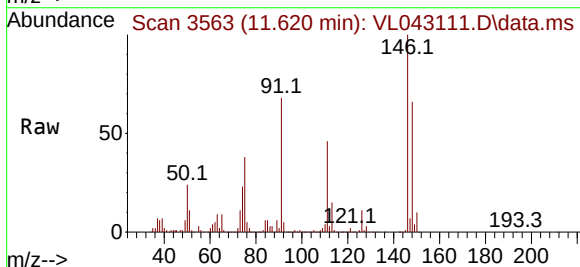
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

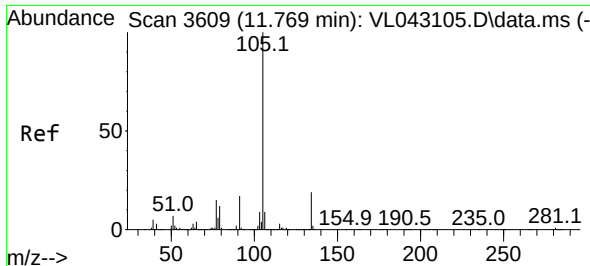
Tgt Ion:119 Resp: 788234
Ion Ratio Lower Upper
119 100
91 81.8 63.4 95.0
134 20.8 17.3 25.9



#66
Benzyl Chloride
Concen: 13.778 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 97114
Ion Ratio Lower Upper
91 100
126 18.0 14.6 22.0
128 5.4 4.6 6.8

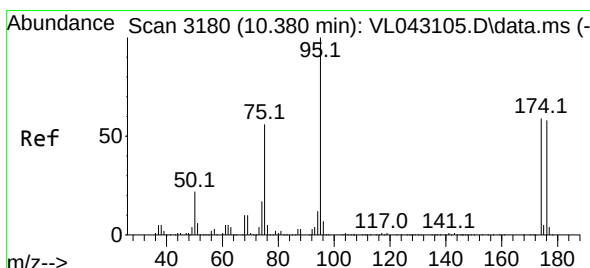
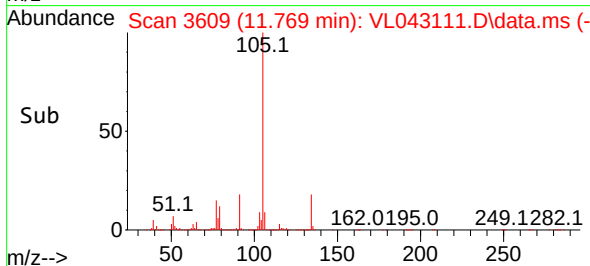
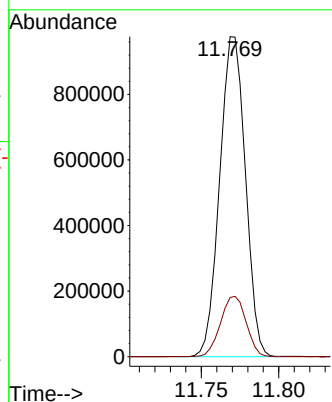
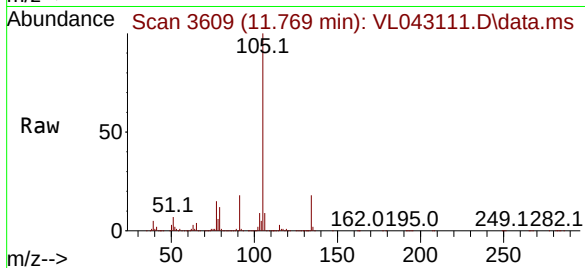




#67
 sec-Butylbenzene
 Concen: 12.566 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

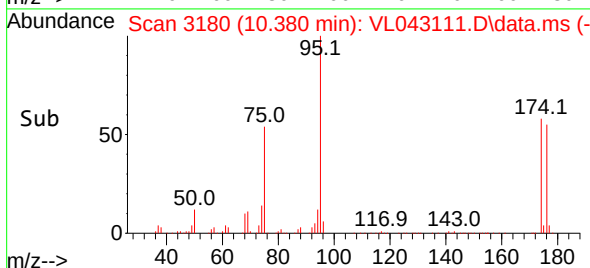
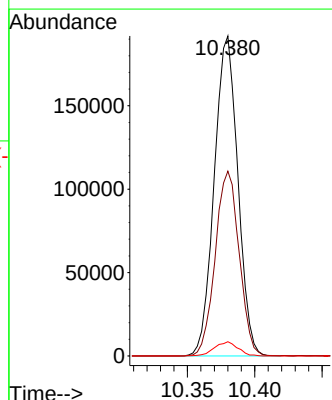
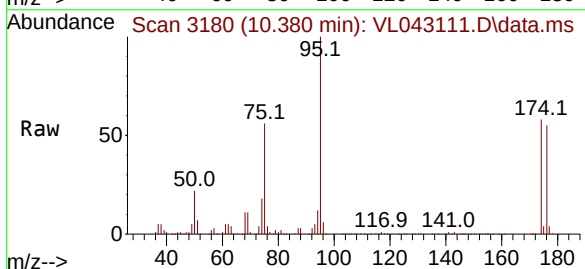
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

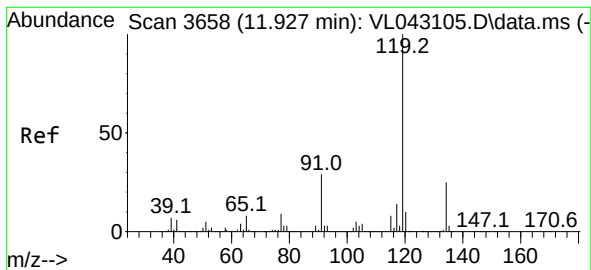
Tgt Ion:105 Resp: 1125489
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.270 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 95 Resp: 233522
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.3 72.5
 175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 12.602 ppbv

RT: 11.930 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

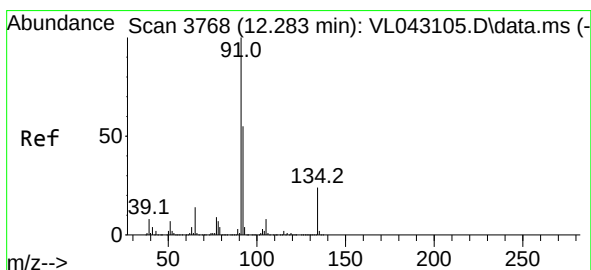
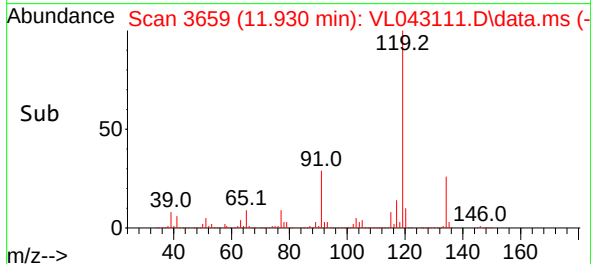
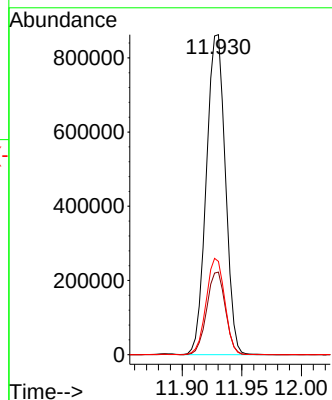
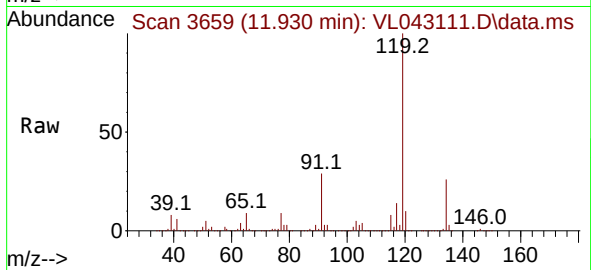
Tgt Ion:119 Resp: 959206

Ion Ratio Lower Upper

119 100

134 25.5 20.3 30.5

91 29.5 22.6 33.8



#70

n-Butylbenzene

Concen: 12.979 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

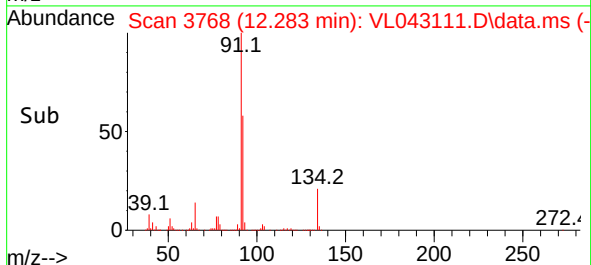
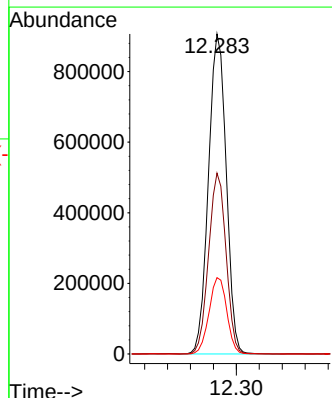
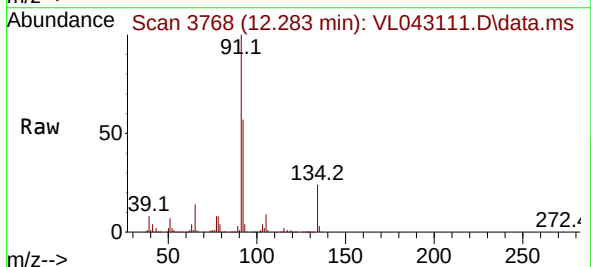
Tgt Ion: 91 Resp: 973466

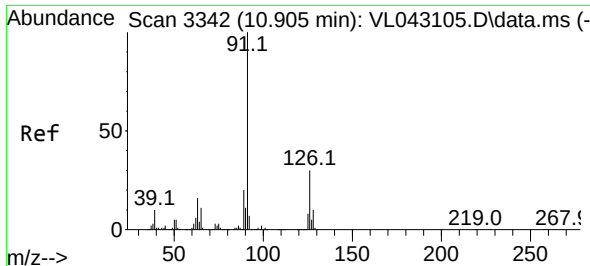
Ion Ratio Lower Upper

91 100

92 55.6 44.5 66.7

134 23.8 19.3 28.9

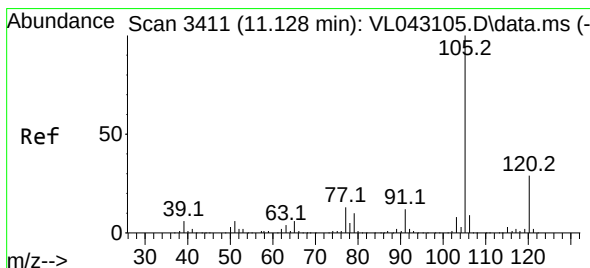
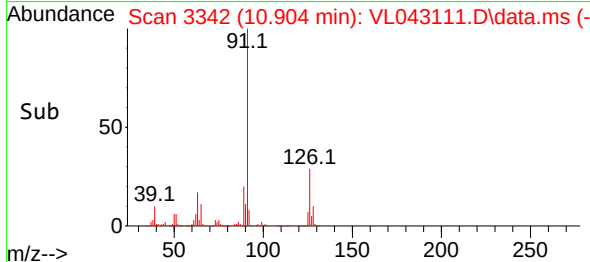
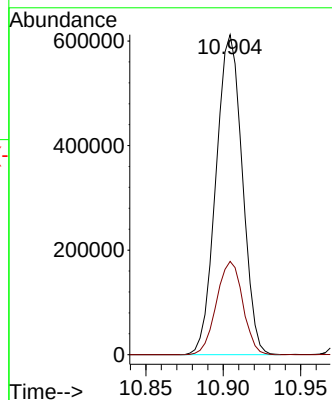
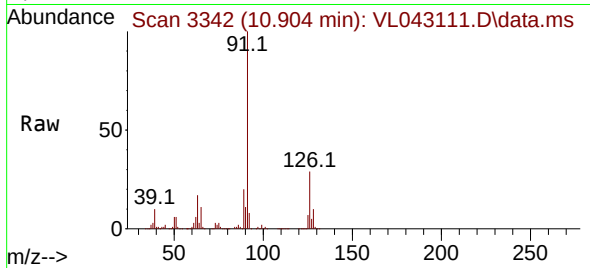




#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

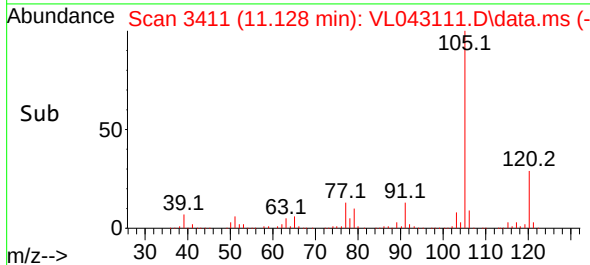
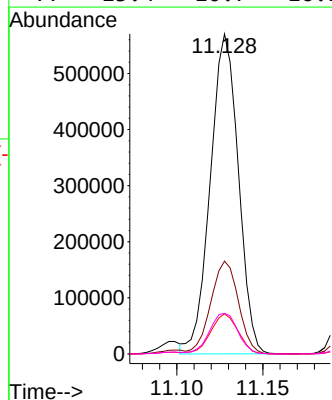
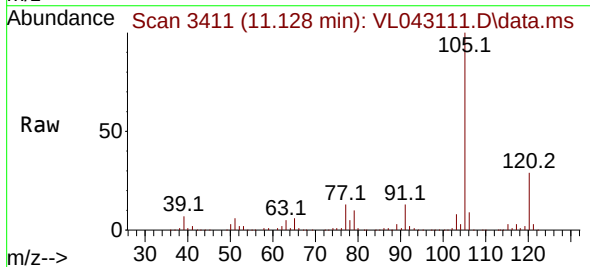
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

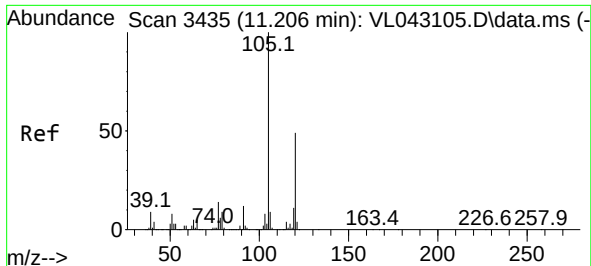
Tgt Ion: 91 Resp: 721827
Ion Ratio Lower Upper
91 100
126 29.1 12.0 48.0



#72
4-Ethyltoluene
Concen: 13.310 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 647315
Ion Ratio Lower Upper
105 100
120 29.6 24.2 36.4
91 12.7 10.0 15.0
77 13.4 10.7 16.1

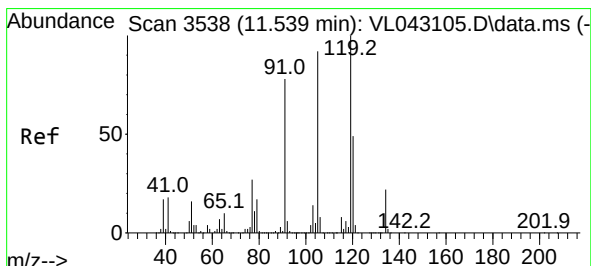
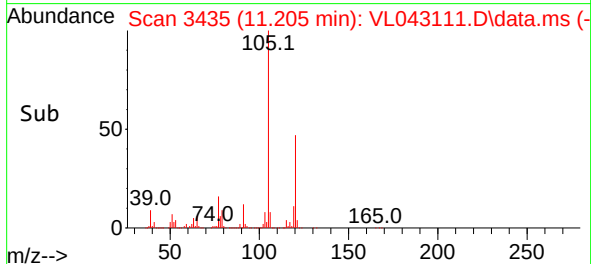
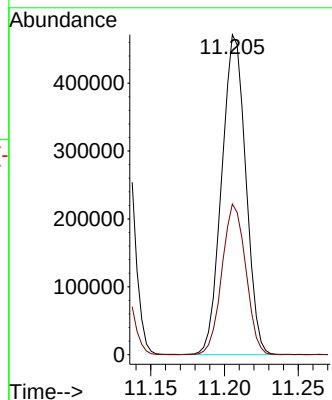
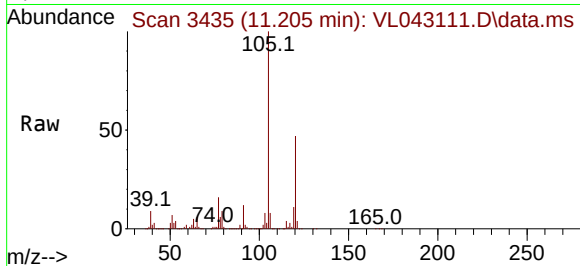




#73
 1,3,5-Trimethylbenzene
 Concen: 13.314 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

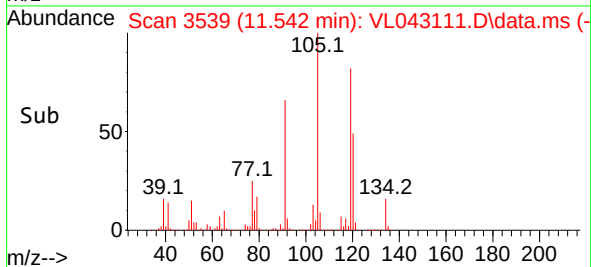
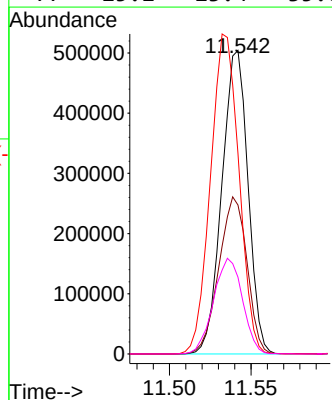
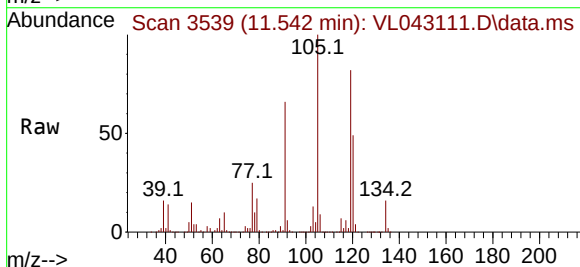
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

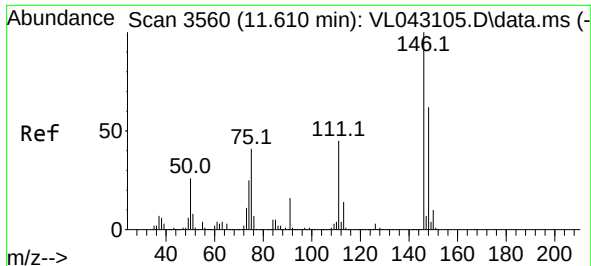
Tgt Ion:105 Resp: 534006
 Ion Ratio Lower Upper
 105 100
 120 47.1 39.0 58.6



#74
 1,2,4-Trimethylbenzene
 Concen: 12.498 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.003 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 560932
 Ion Ratio Lower Upper
 105 100
 120 49.0 42.8 64.2
 91 66.0 68.3 102.5#
 77 25.2 23.4 35.0

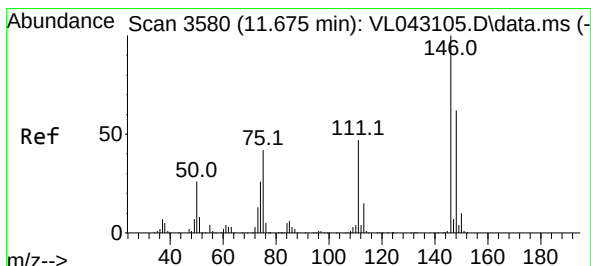
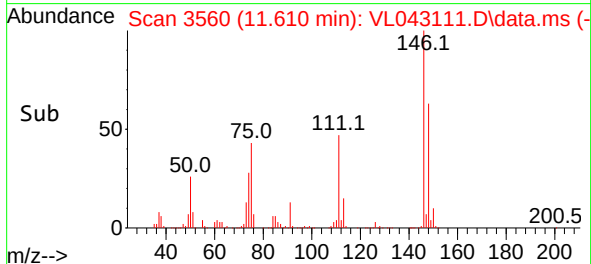
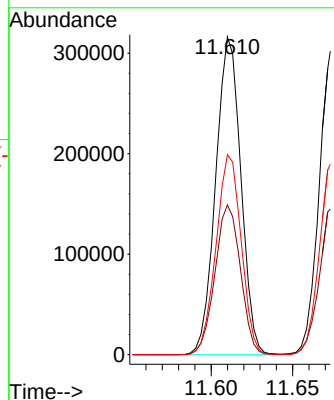
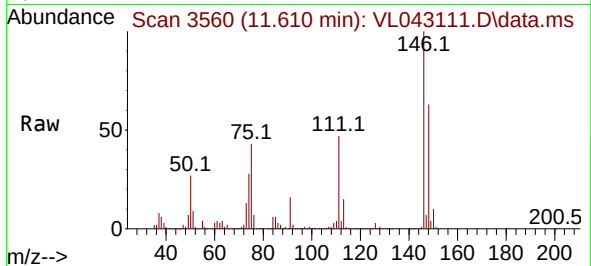




#75
1,3-Dichlorobenzene
Concen: 13.031 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

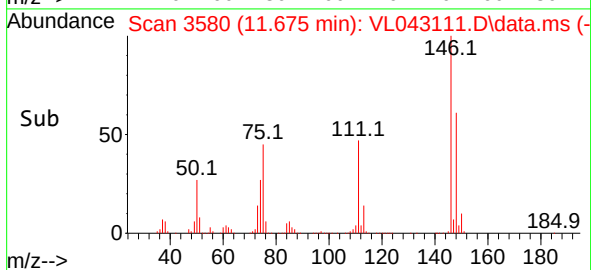
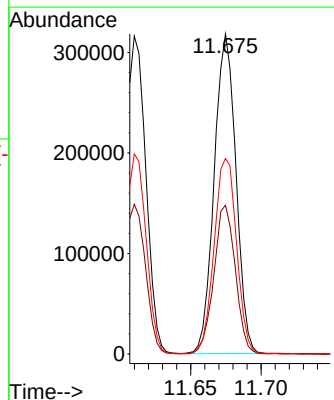
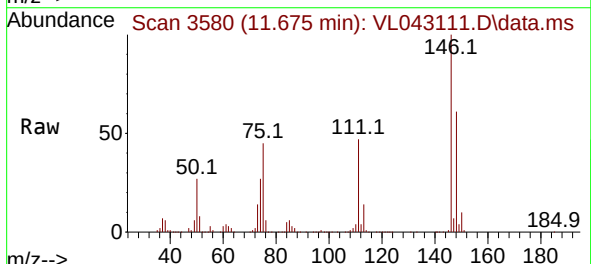
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

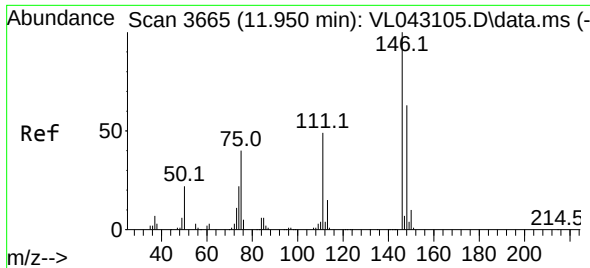
Tgt Ion:146 Resp: 339203
Ion Ratio Lower Upper
146 100
111 47.7 23.3 69.9
148 63.0 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 13.027 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 341936
Ion Ratio Lower Upper
146 100
111 46.1 22.4 67.0
148 63.4 31.6 94.7

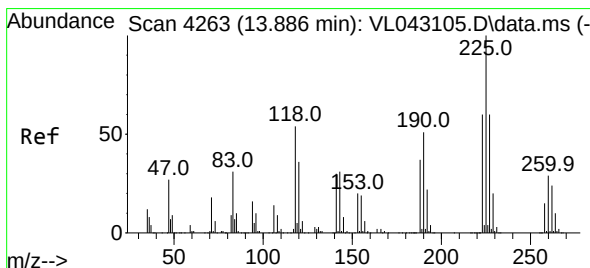
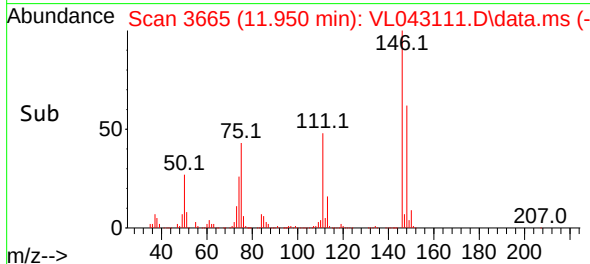
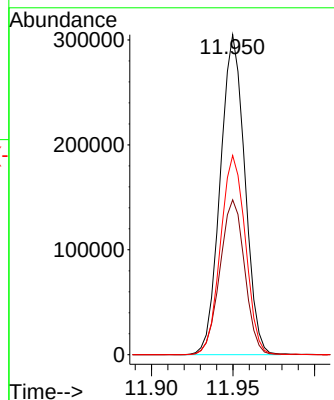
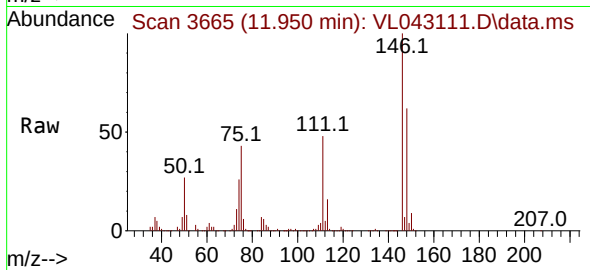




#77
1,2-Dichlorobenzene
Concen: 12.660 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

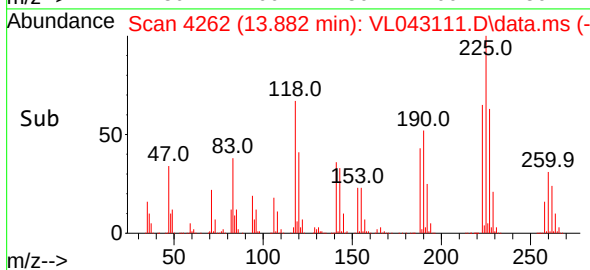
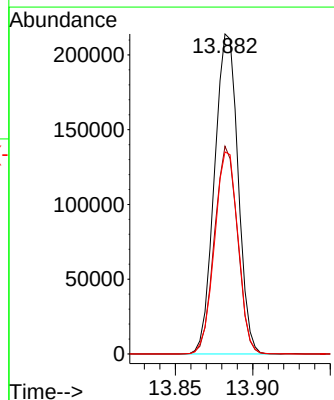
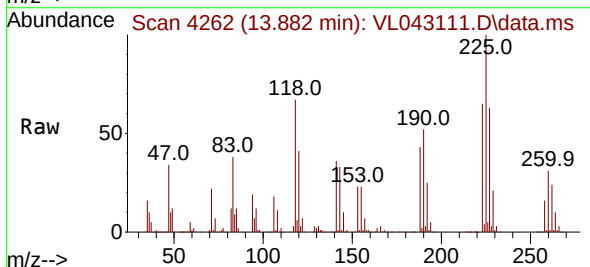
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

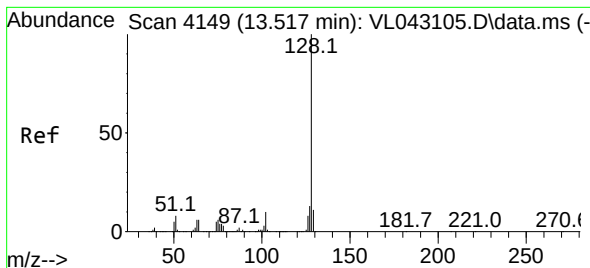
Tgt Ion:146 Resp: 318800
Ion Ratio Lower Upper
146 100
111 48.8 24.0 72.0
148 63.2 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 11.606 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:225 Resp: 226294
Ion Ratio Lower Upper
225 100
223 63.5 50.2 75.4
227 63.1 49.6 74.4





#79

Naphthalene

Concen: 14.260 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

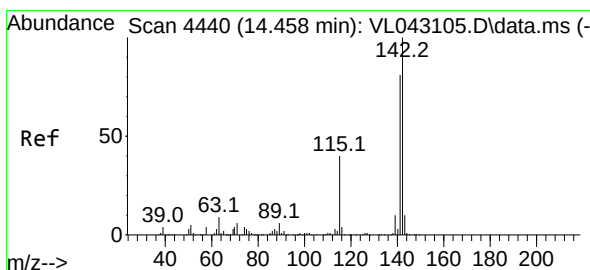
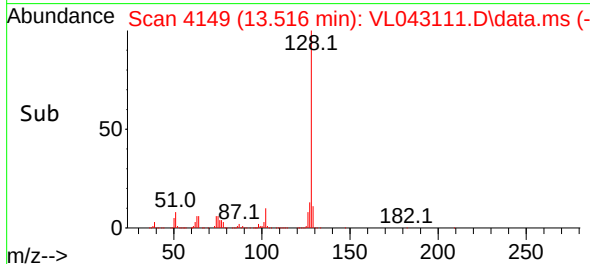
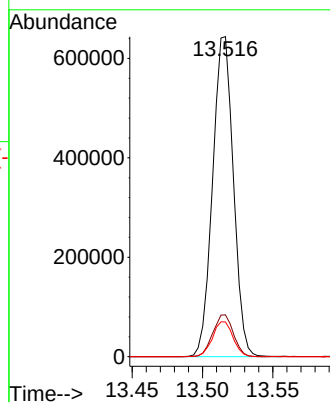
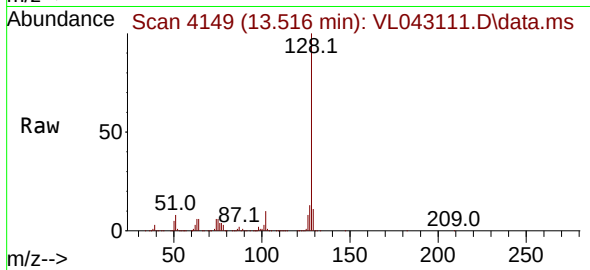
Tgt Ion:128 Resp: 661098

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

129 10.8 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 17.384 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

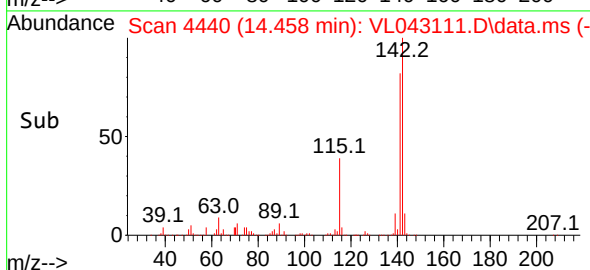
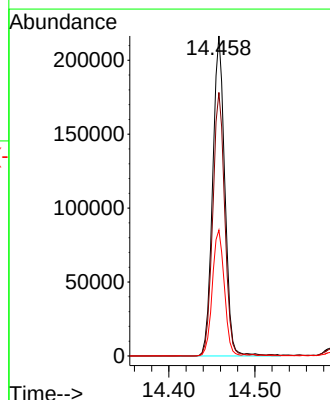
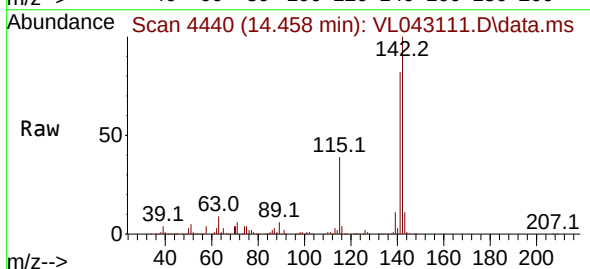
Tgt Ion:142 Resp: 212784

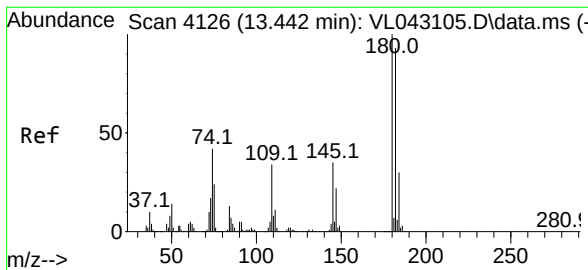
Ion Ratio Lower Upper

142 100

141 81.9 64.6 97.0

115 39.4 30.2 45.4

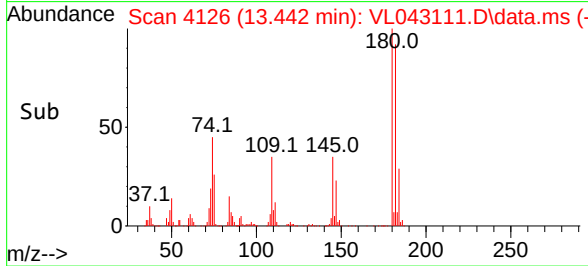
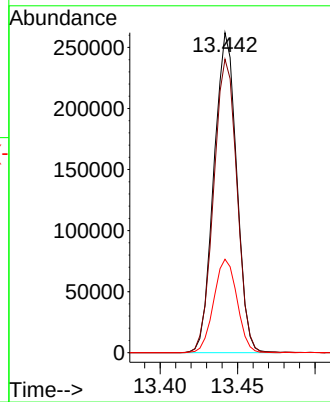
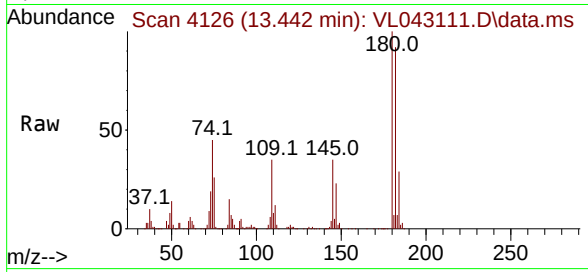




#81
 1,2,4-Trichlorobenzene
 Concen: 13.698 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 266712
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.5 113.3
 184 30.0 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	97563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	325610	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	291676	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	229010	10.101	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	130726	9.425	ppbv	98
3) Chlorodifluoromethane	1.479	51	138956	9.260	ppbv	99
4) Chloromethane	1.538	50	48722	8.867	ppbv	96
5) Vinyl Chloride	1.583	62	47005	8.722	ppbv	97
6) Bromomethane	1.670	94	26304	8.901	ppbv	98
7) Chloroethane	1.709	64	19138	8.685	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	107147	9.558	ppbv	99
9) Propene	1.486	41	59287	8.908	ppbv	98
10) Heptane	4.991	43	165341	8.629	ppbv	99
11) Trichlorofluoromethane	1.881	101	132447	9.762	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	102449	9.380	ppbv	98
13) Ethanol	1.725	45	16837	6.839	ppbv	96
14) Bromoethene	1.787	108	37835	9.324	ppbv	100
15) Acetone	1.839	43	108010	8.214	ppbv	99
16) 1,3-Butadiene	1.612	39	55493	8.855	ppbv	98
17) tert-Butyl alcohol	2.043	59	162672	9.012	ppbv	97
18) 1,1-Dichloroethene	2.039	96	46544	9.774	ppbv	93
19) Isopropyl Alcohol	1.887	45	67552	8.248	ppbv	97
20) Methylene Chloride	2.065	84	40319	7.757	ppbv	89
21) Allyl Chloride	2.101	41	88965	9.181	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	51295	9.011	ppbv	93
23) Vinyl Acetate	2.467	43	185329	9.621	ppbv	98
24) 1,1-Dichloroethane	2.415	63	102877	9.355	ppbv	98
25) Ethyl Acetate	2.839	43	292399	8.966	ppbv	100
26) Hexane	2.832	57	135463	9.015	ppbv	97
27) Carbon Disulfide	2.156	76	131064	9.520	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	67260	9.839	ppbv	97
29) Chloroform	2.852	83	204925	9.412	ppbv	95
30) Cyclohexane	3.865	84	119287	9.096	ppbv	96
31) cis-1,2-Dichloroethene	2.725	61	137462	9.580	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	219167	9.666	ppbv	98
34) 2-Butanone	2.560	43	188755	8.624	ppbv	99
35) Carbon Tetrachloride	3.771	117	217678	9.298	ppbv	96
36) Benzene	3.664	78	278365	9.077	ppbv	97
37) 1,2-Dichloroethane	3.224	62	161750	9.156	ppbv	98
38) Trichloroethene	4.557	130	108261	8.453	ppbv	96
39) 1,2-Dichloropropane	4.321	63	100580	8.971	ppbv	96
40) 1,4-Dioxane	4.587	88	41464	8.265	ppbv #	95
41) Tetrahydrofuran	3.056	42	104701	8.553	ppbv	99
42) Bromodichloromethane	4.496	83	228288	9.336	ppbv	96
43) Methyl Methacrylate	4.884	69	138593	8.898	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	452117	8.738	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	142964	9.146	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

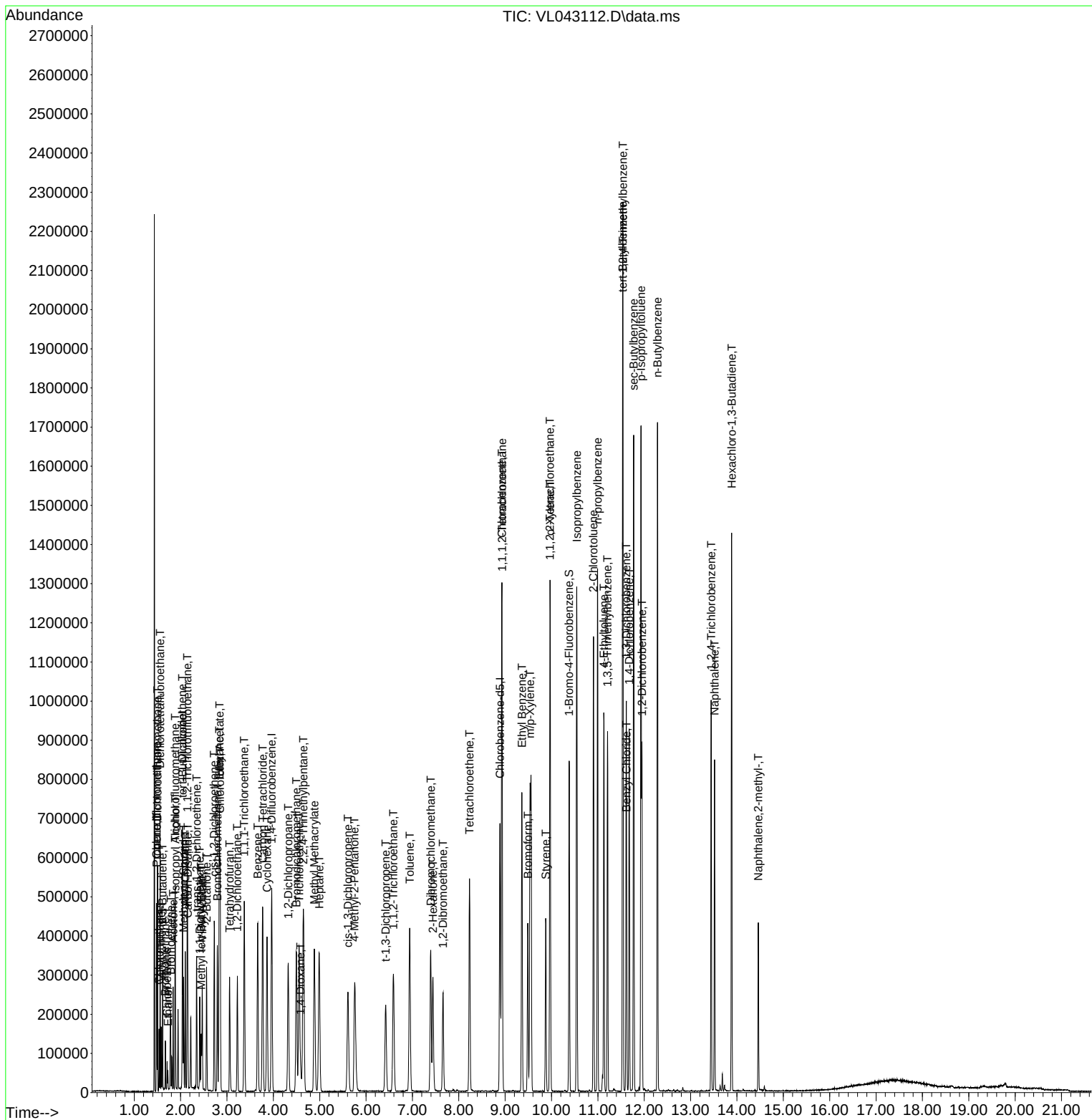
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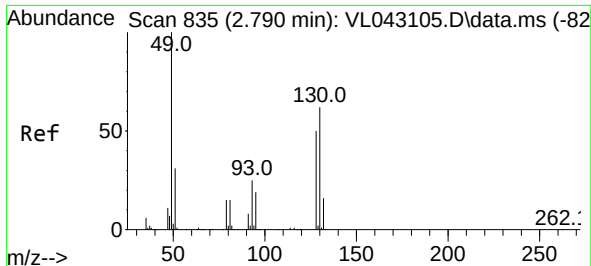
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	170038	9.106	ppbv	95
47) 1,1,2-Trichloroethane	6.590	97	108965	9.000	ppbv	96
48) Dibromochloromethane	7.396	129	184757	9.127	ppbv	100
49) Bromoform	9.490	173	147759	8.980	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	263070	8.709	ppbv	100
51) 2-Hexanone	7.441	43	203876	8.999	ppbv #	99
52) Tetrachloroethene	8.231	164	96000	8.681	ppbv	97
53) Toluene	6.943	91	324944	8.928	ppbv	100
54) 1,2-Dibromoethane	7.661	107	167936	8.856	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	166059	9.031	ppbv	98
57) Chlorobenzene	8.930	112	239309	8.770	ppbv	99
58) Ethyl Benzene	9.361	91	450029	8.990	ppbv	99
59) m/p-Xylene	9.539	91	392158	9.822	ppbv #	29
60) o-Xylene	9.969	91	348346	8.834	ppbv	100
61) Styrene	9.878	104	161979	9.099	ppbv	98
62) Isopropylbenzene	10.545	105	621758	8.726	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	215911	8.177	ppbv	100
64) n-propylbenzene	10.995	120	160411	8.503	ppbv	94
65) tert-Butylbenzene	11.536	119	532570	8.464	ppbv	98
66) Benzyl Chloride	11.620	91	58169	8.306	ppbv	98
67) sec-Butylbenzene	11.772	105	762711	8.541	ppbv	98
69) p-Isopropyltoluene	11.930	119	638261	8.411	ppbv	99
70) n-Butylbenzene	12.286	91	641547	8.579	ppbv	99
71) 2-Chlorotoluene	10.904	91	479799	8.828	ppbv	99
72) 4-Ethyltoluene	11.128	105	427034	8.807	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	354875	8.874	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	372506	8.324	ppbv	92
75) 1,3-Dichlorobenzene	11.610	146	219423	8.454	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	221364	8.458	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	204178	8.132	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	144646	7.440	ppbv	99
79) Naphthalene	13.516	128	389814	8.334	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	123632	10.146	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	162553	8.373	ppbv	98

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

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
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Response via : Initial Calibration

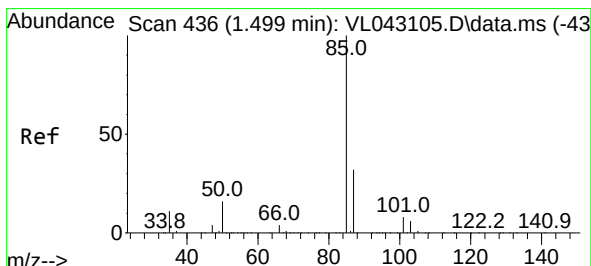
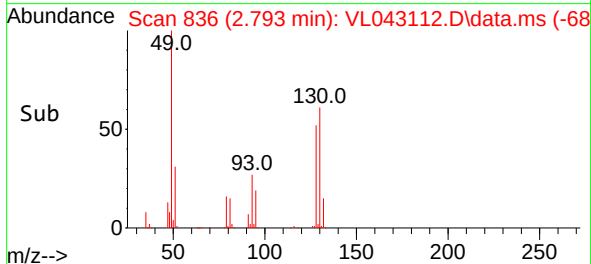
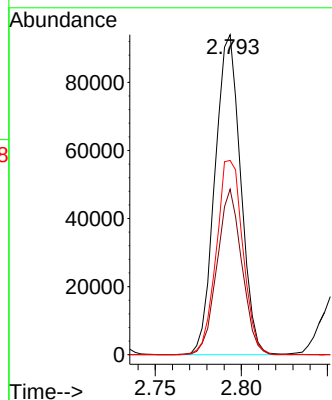
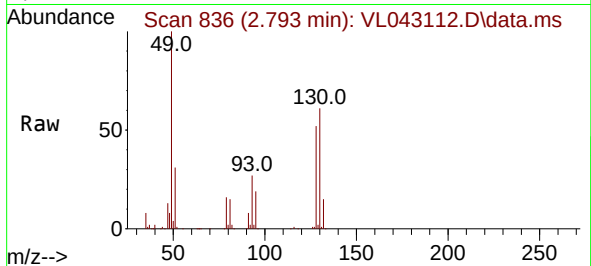




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

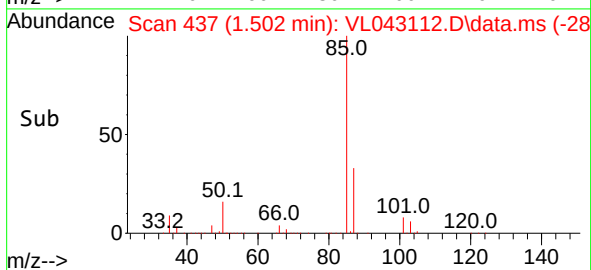
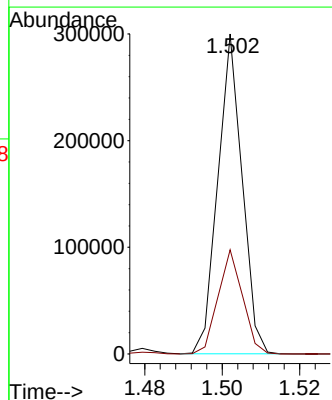
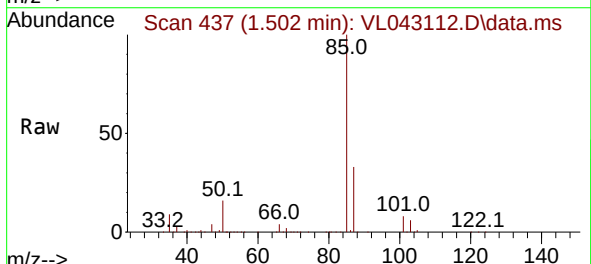
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ClientSampleId :
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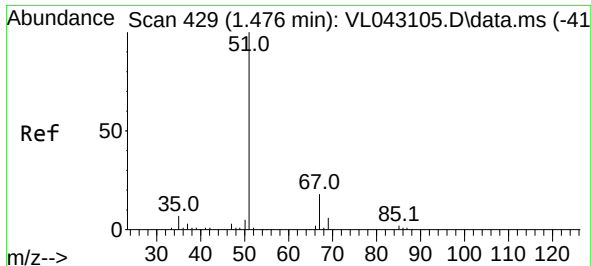
Tgt Ion: 49 Resp: 97563
Ion Ratio Lower Upper
49 100
128 50.0 24.4 73.4
130 62.8 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 9.425 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 130726
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9

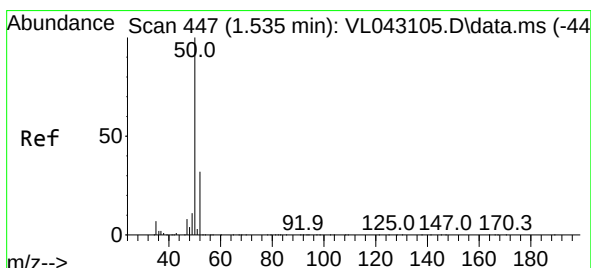
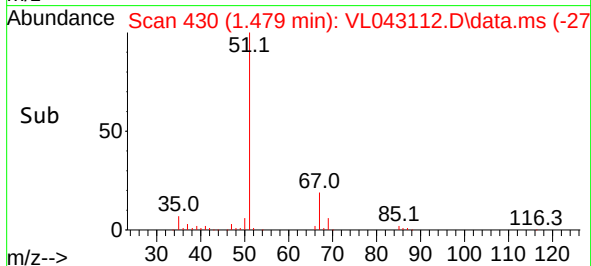
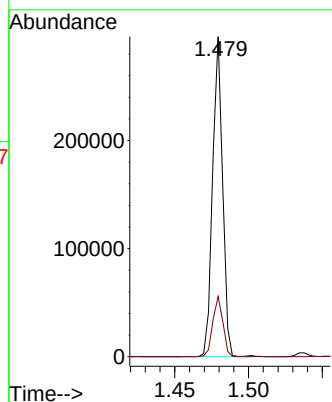
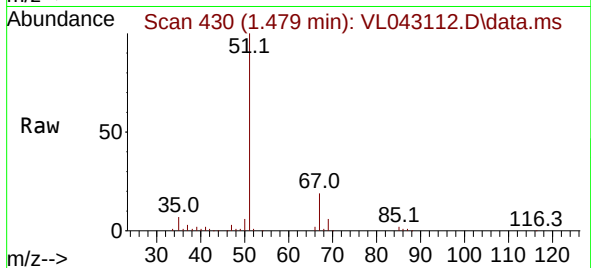




#3
Chlorodifluoromethane
Concen: 9.260 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

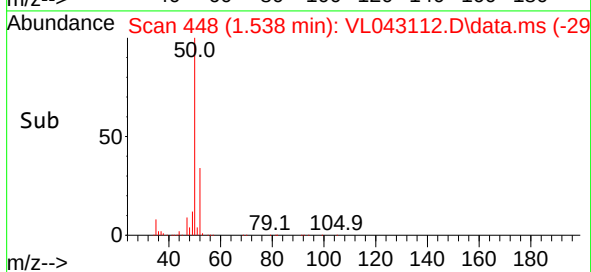
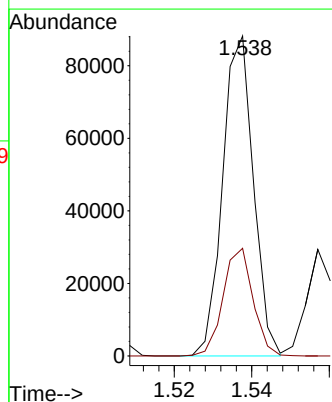
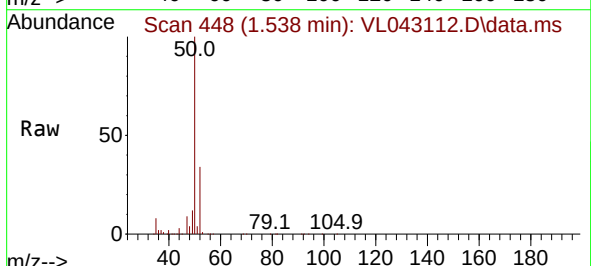
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ClientSampleId :
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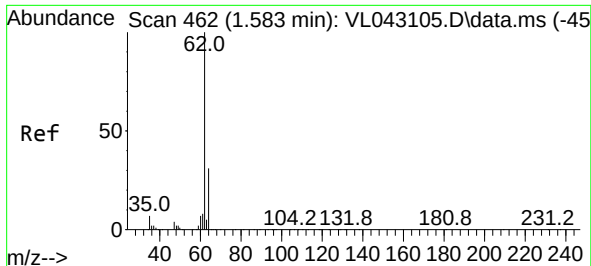
Tgt Ion: 51 Resp: 138956
Ion Ratio Lower Upper
51 100
67 19.1 15.1 22.7



#4
Chloromethane
Concen: 8.867 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 50 Resp: 48722
Ion Ratio Lower Upper
50 100
52 33.4 25.2 37.8

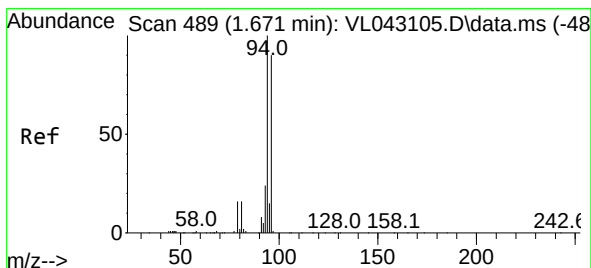
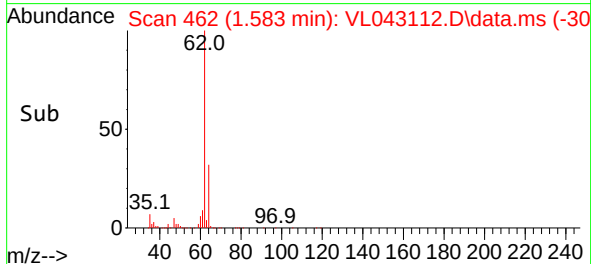
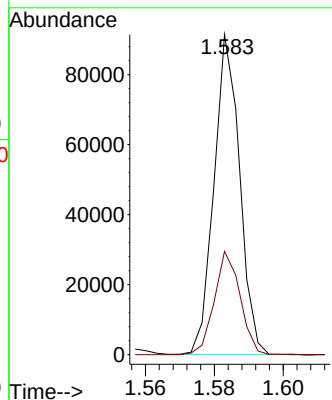
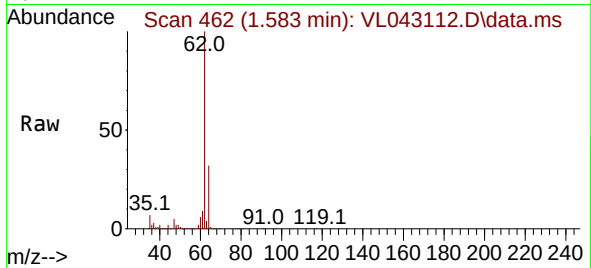




#5
 Vinyl Chloride
 Concen: 8.722 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

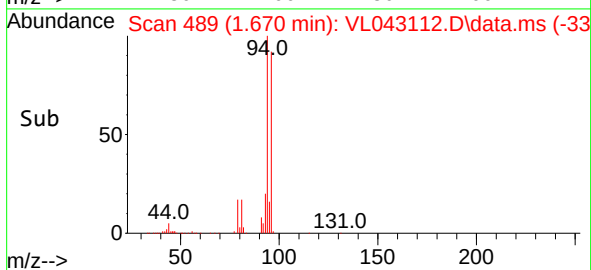
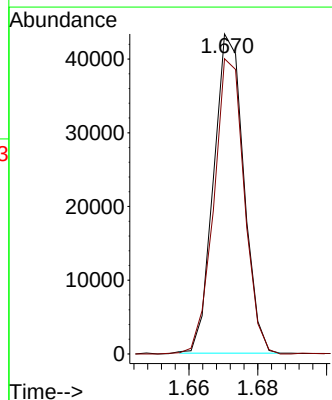
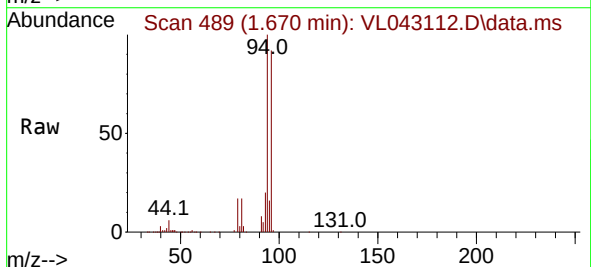
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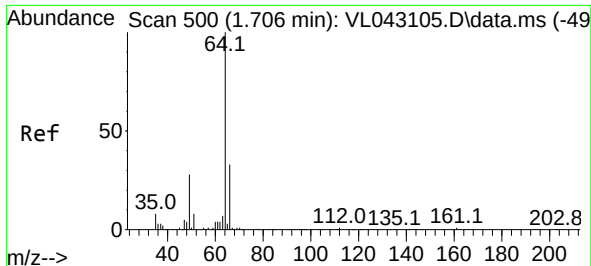
Tgt Ion: 62 Resp: 47005
 Ion Ratio Lower Upper
 62 100
 64 32.3 24.6 36.8



#6
 Bromomethane
 Concen: 8.901 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 94 Resp: 26304
 Ion Ratio Lower Upper
 94 100
 96 92.5 72.2 108.4

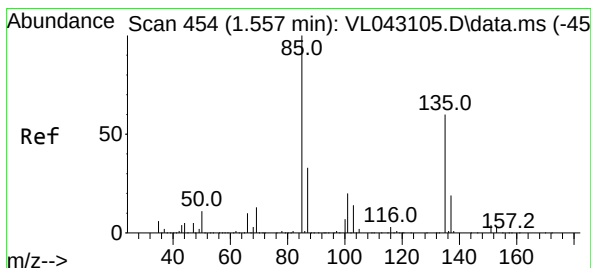
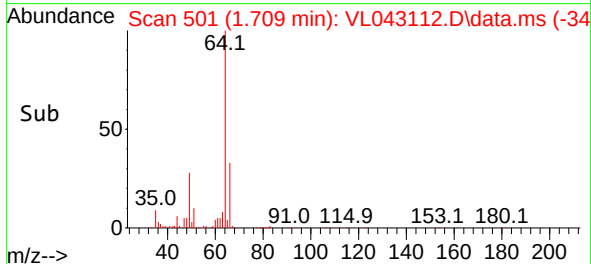
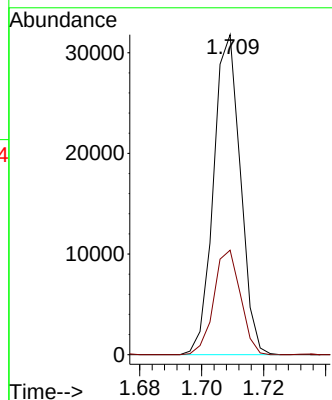
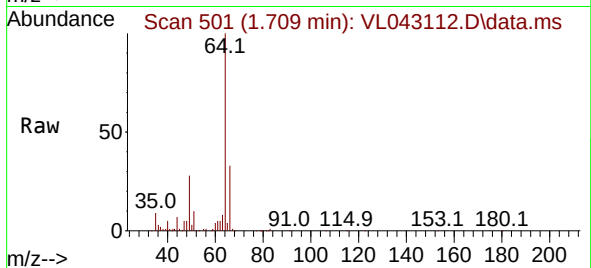




#7
Chloroethane
Concen: 8.685 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

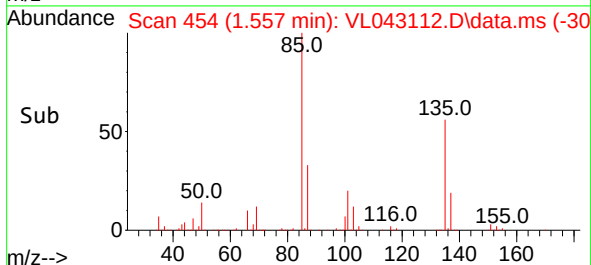
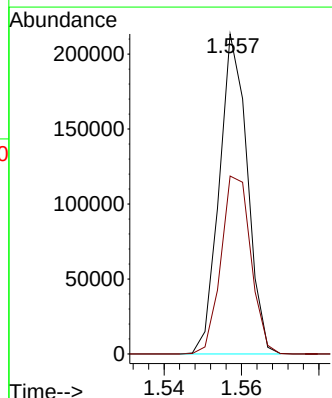
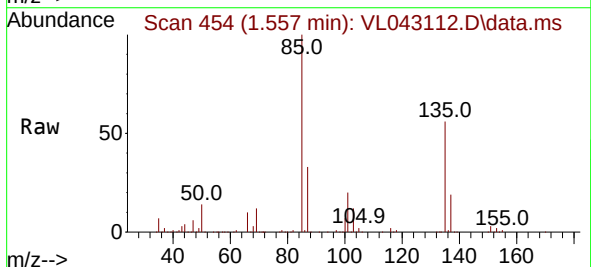
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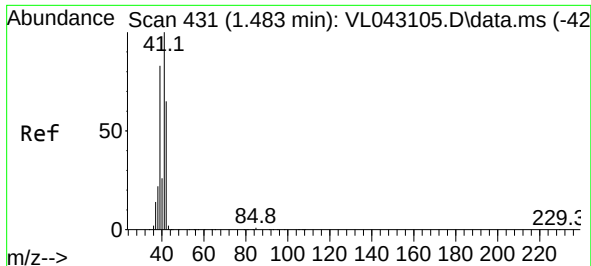
Tgt Ion: 64 Resp: 19138
Ion Ratio Lower Upper
64 100
66 32.7 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 9.558 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 107147
Ion Ratio Lower Upper
85 100
135 59.5 48.2 72.4





#9

Propene

Concen: 8.908 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

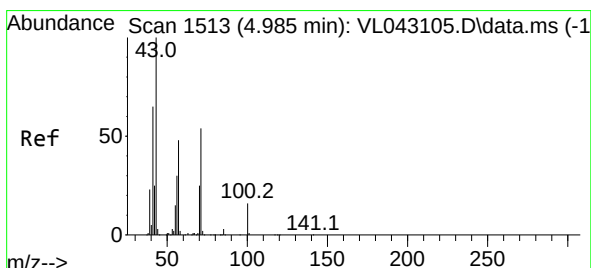
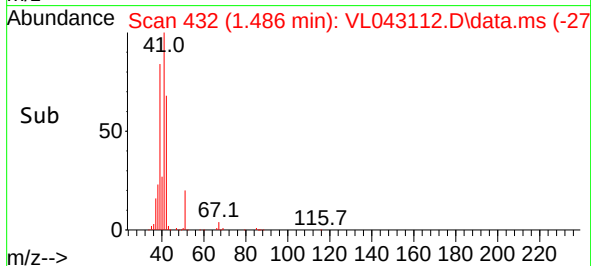
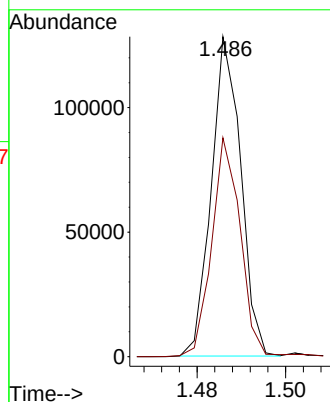
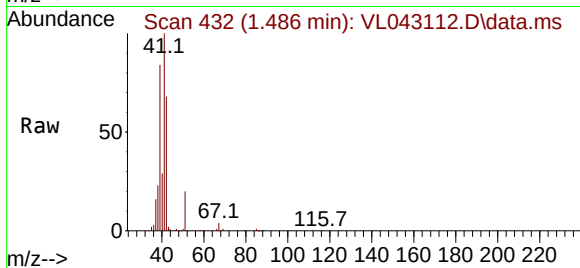
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Tgt Ion: 41 Resp: 59287

Ion Ratio Lower Upper

41 100

42 67.3 55.1 82.7



#10

Heptane

Concen: 8.629 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VL043112.D

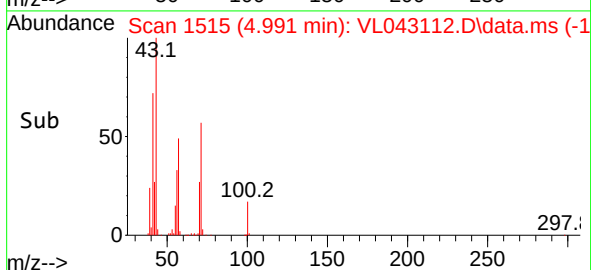
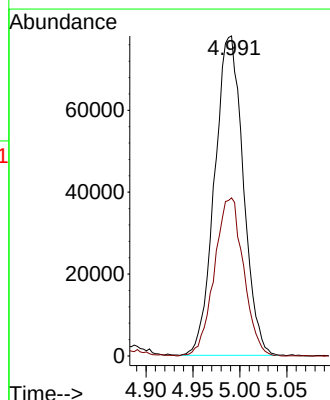
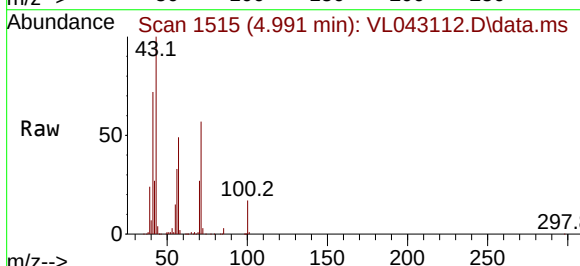
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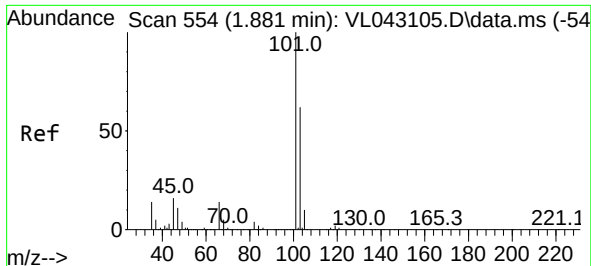
Tgt Ion: 43 Resp: 165341

Ion Ratio Lower Upper

43 100

57 50.4 40.8 61.2

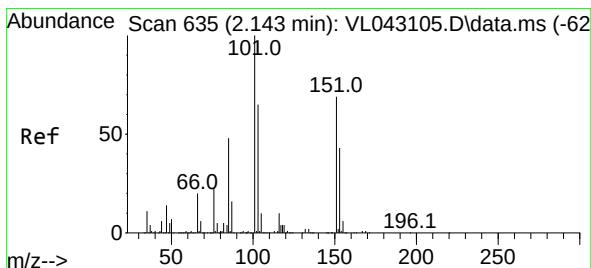
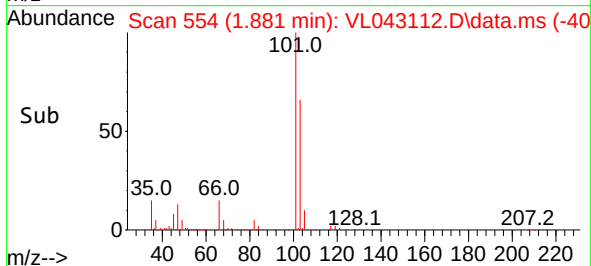
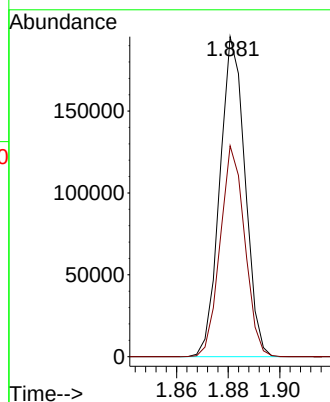
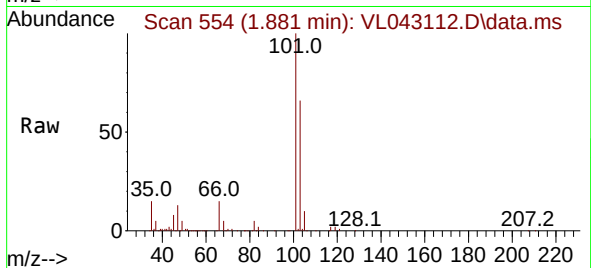




#11
 Trichlorofluoromethane
 Concen: 9.762 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

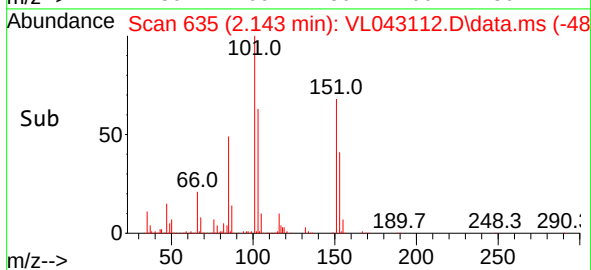
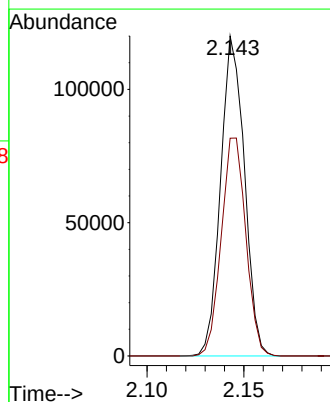
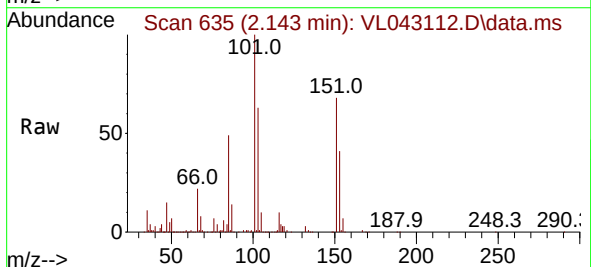
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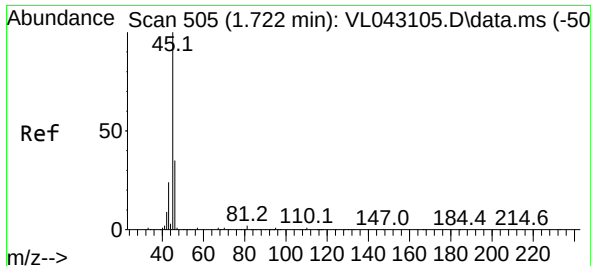
Tgt Ion:101 Resp: 132447
 Ion Ratio Lower Upper
 101 100
 103 65.9 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.380 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion:101 Resp: 102449
 Ion Ratio Lower Upper
 101 100
 151 70.4 54.7 82.1

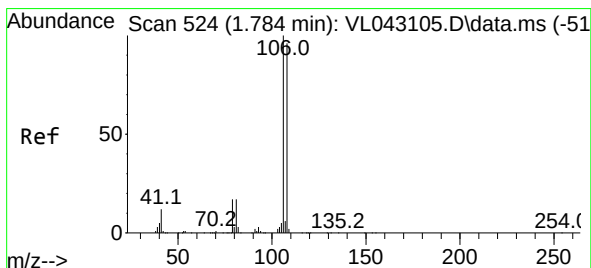
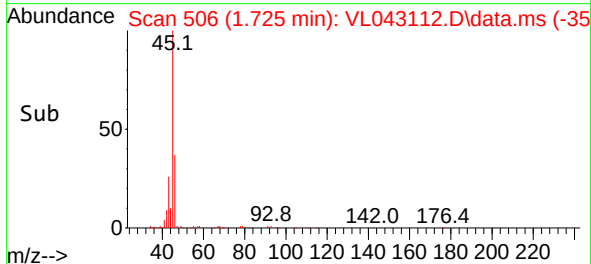
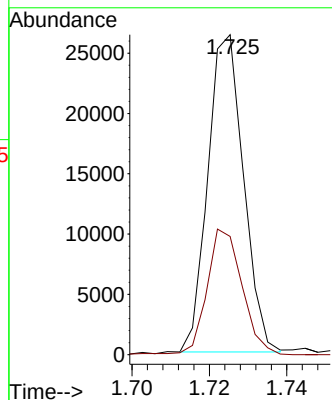
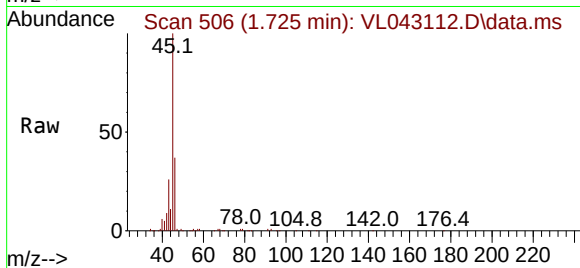




#13
 Ethanol
 Concen: 6.839 ppbv
 RT: 1.725 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

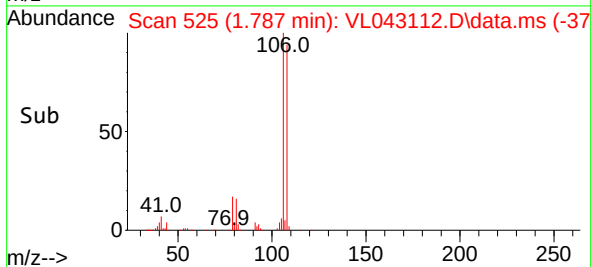
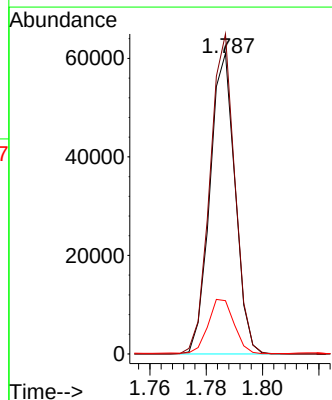
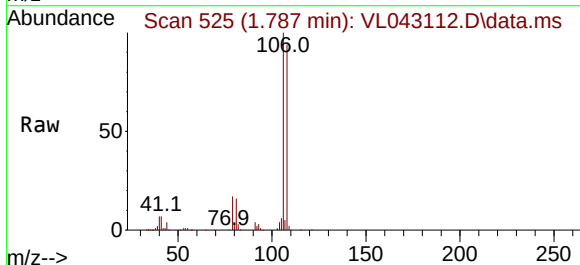
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

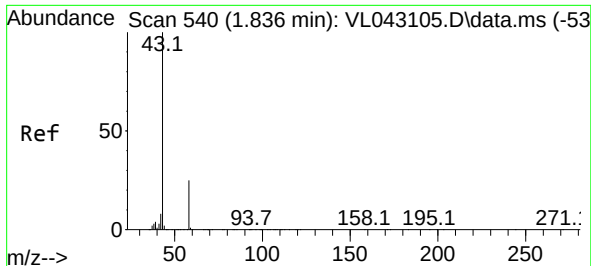
Tgt Ion: 45 Resp: 16837
 Ion Ratio Lower Upper
 45 100
 46 39.2 14.7 58.9



#14
 Bromoethene
 Concen: 9.324 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 108 Resp: 37835
 Ion Ratio Lower Upper
 108 100
 106 105.3 84.4 126.6
 79 18.7 15.3 22.9

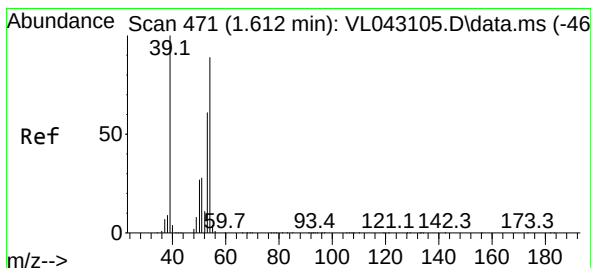
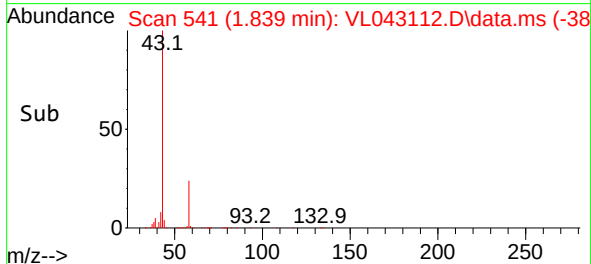
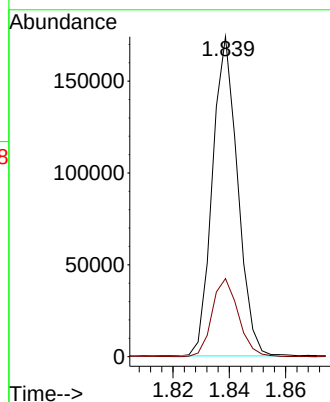
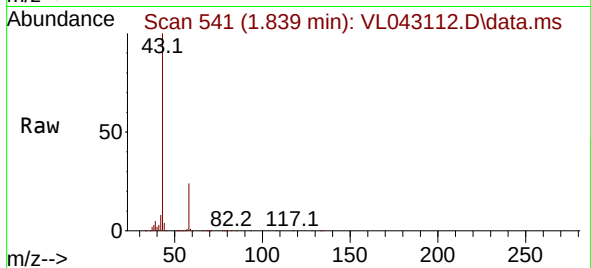




#15
Acetone
Concen: 8.214 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

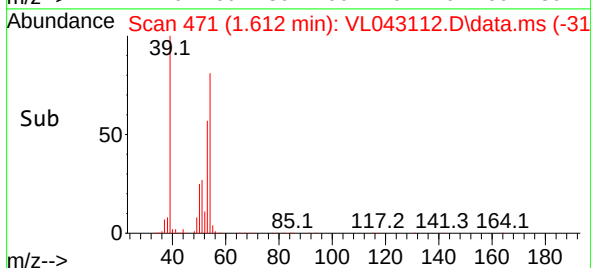
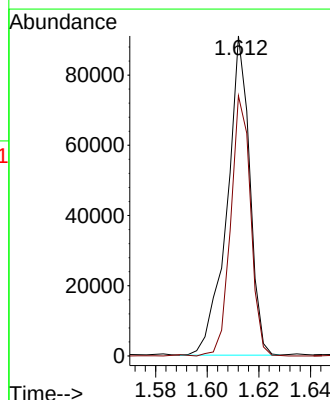
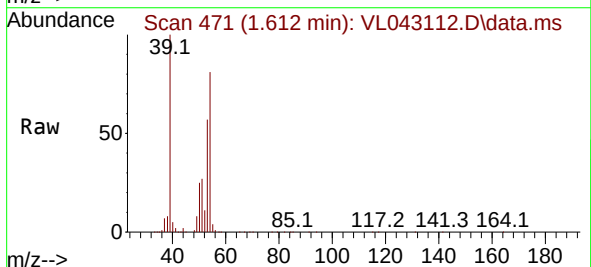
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

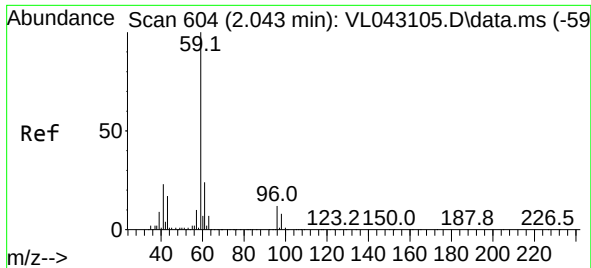
Tgt Ion: 43 Resp: 108010
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2



#16
1,3-Butadiene
Concen: 8.855 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 39 Resp: 55493
Ion Ratio Lower Upper
39 100
54 72.0 59.0 88.4

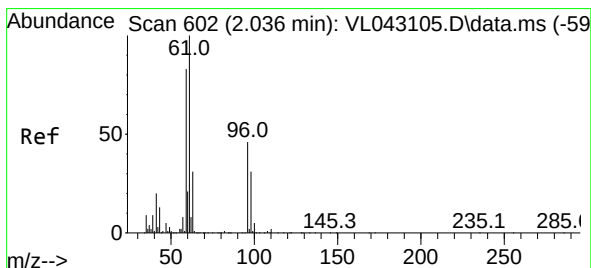
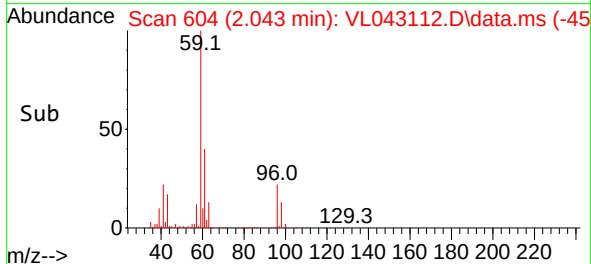
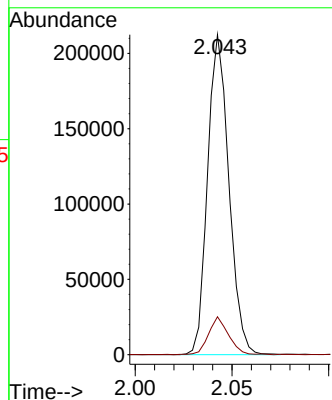
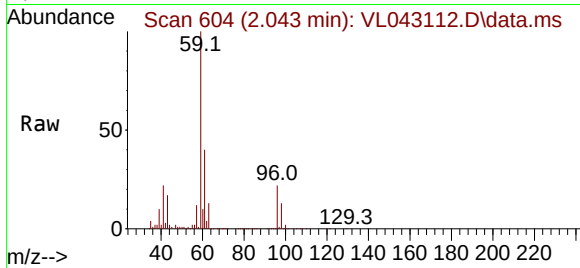




#17
 tert-Butyl alcohol
 Concen: 9.012 ppbv
 RT: 2.043 min Scan# 604
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

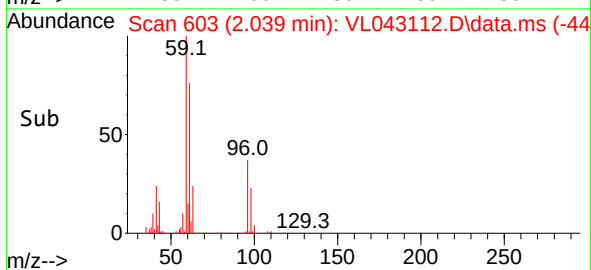
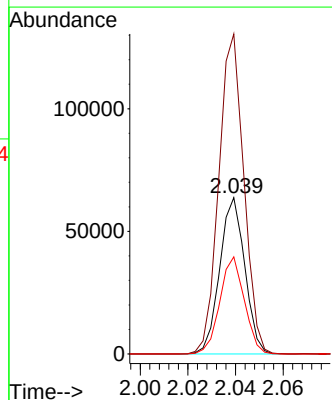
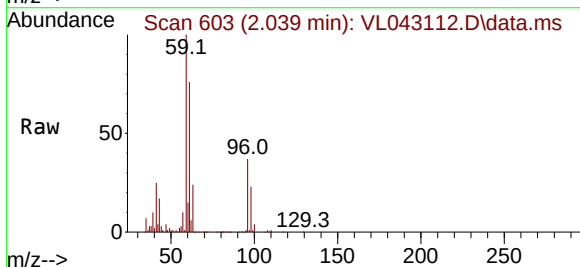
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

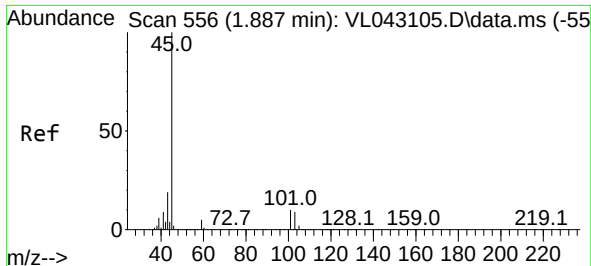
Tgt Ion: 59 Resp: 162672
 Ion Ratio Lower Upper
 59 100
 57 11.4 8.2 12.4



#18
 1,1-Dichloroethene
 Concen: 9.774 ppbv
 RT: 2.039 min Scan# 603
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 46544
 Ion Ratio Lower Upper
 96 100
 61 204.7 173.4 260.0
 98 62.1 53.2 79.8

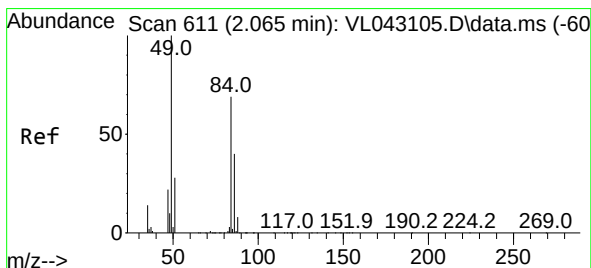
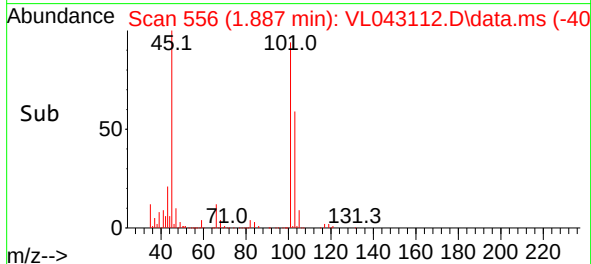
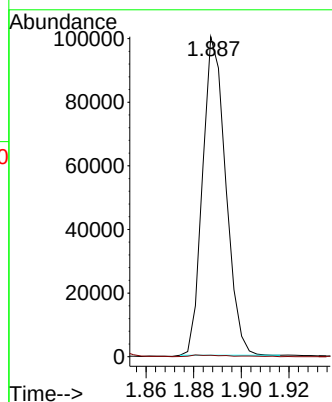
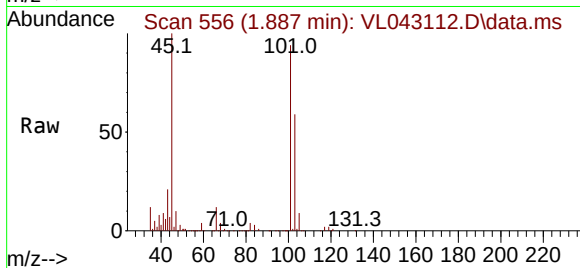




#19
Isopropyl Alcohol
Concen: 8.248 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

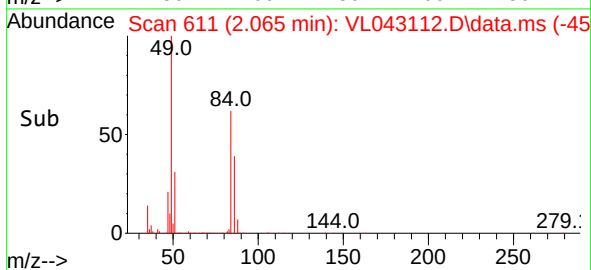
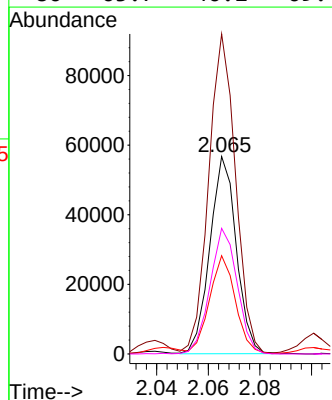
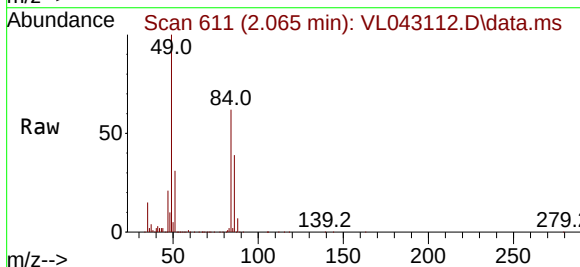
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

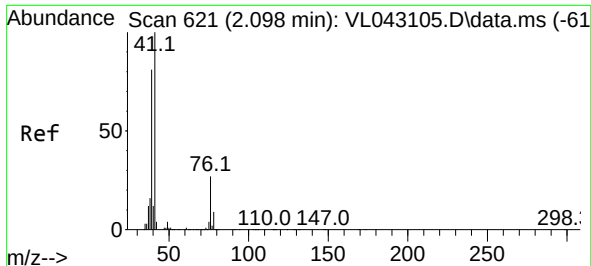
Tgt Ion: 45 Resp: 67552
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9



#20
Methylene Chloride
Concen: 7.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 40319
Ion Ratio Lower Upper
84 100
49 161.4 116.6 175.0
51 49.4 34.8 52.2
86 63.7 46.2 69.4

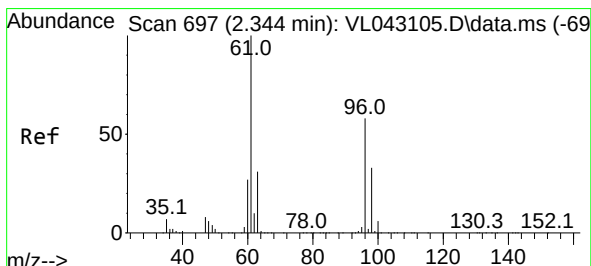
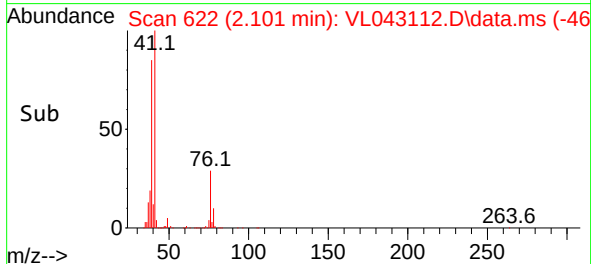
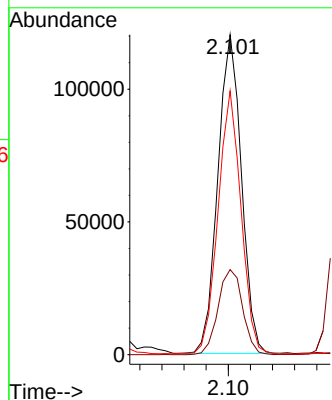
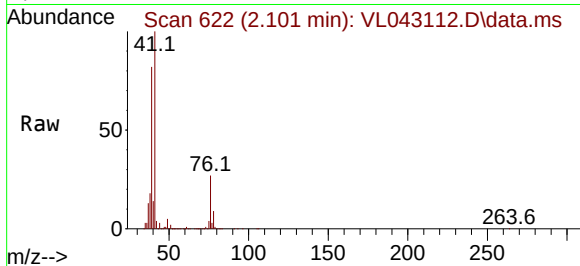




#21
 Allyl Chloride
 Concen: 9.181 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

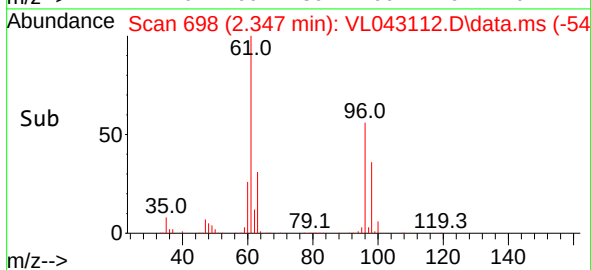
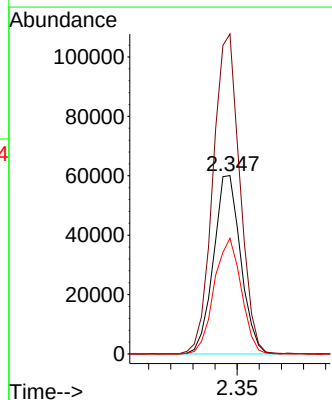
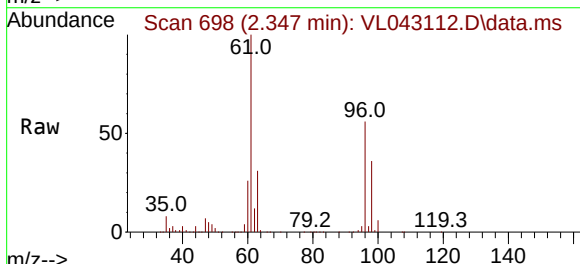
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

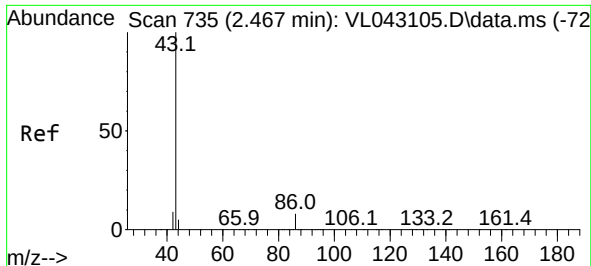
Tgt Ion: 41 Resp: 88965
 Ion Ratio Lower Upper
 41 100
 76 27.7 21.5 32.3
 39 80.2 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 9.011 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 51295
 Ion Ratio Lower Upper
 96 100
 61 179.2 137.0 205.6
 98 64.8 45.5 68.3



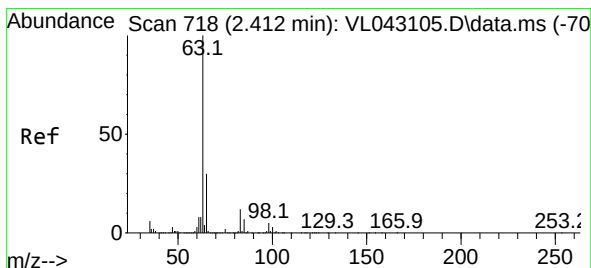
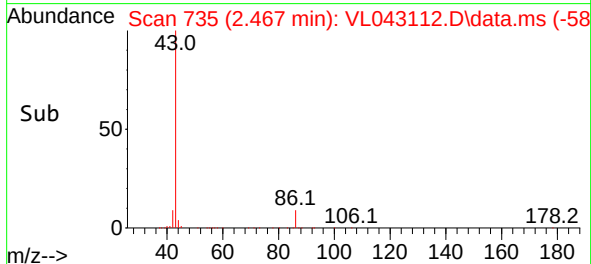
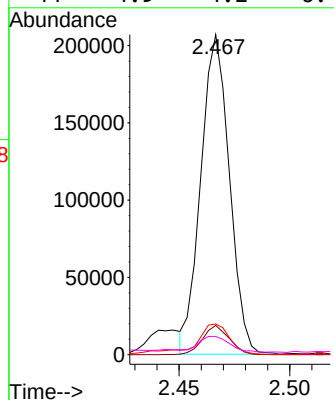
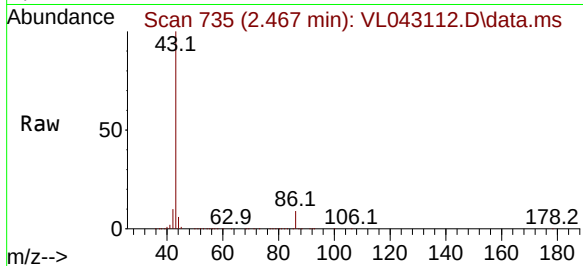


#23
 Vinyl Acetate
 Concen: 9.621 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

Tgt Ion: 43 Resp: 185329

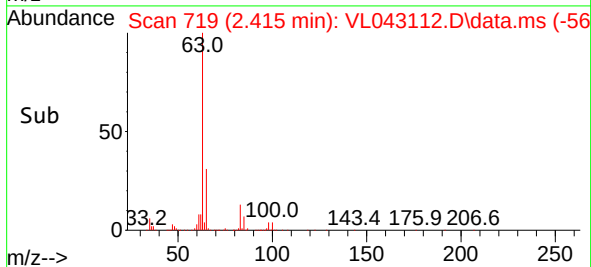
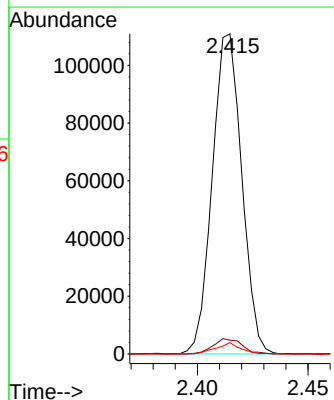
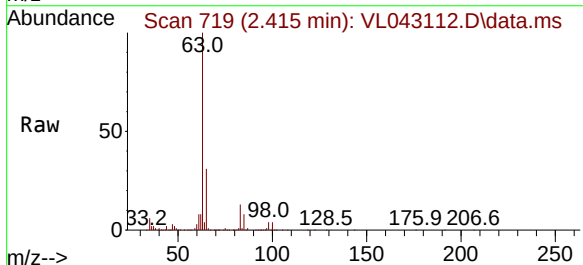
Ion	Ratio	Lower	Upper
43	100		
86	9.2	6.2	9.2
42	9.5	7.6	11.4
44	4.9	4.2	6.4

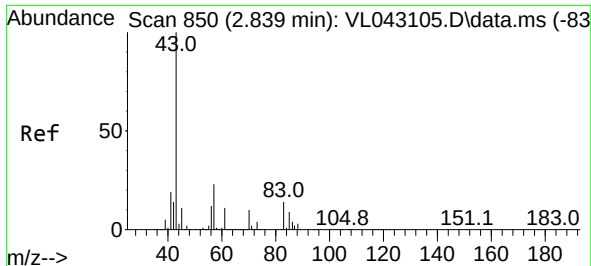


#24
 1,1-Dichloroethane
 Concen: 9.355 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 63 Resp: 102877

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.6	7.8
100	3.5	1.5	4.4



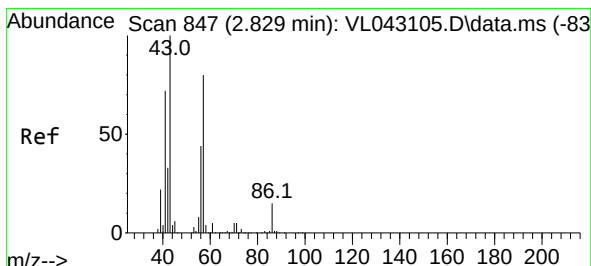
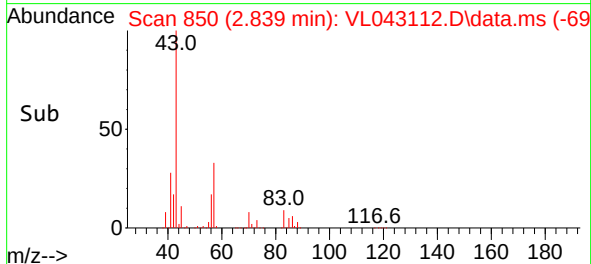
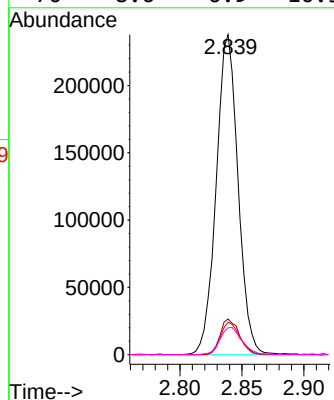
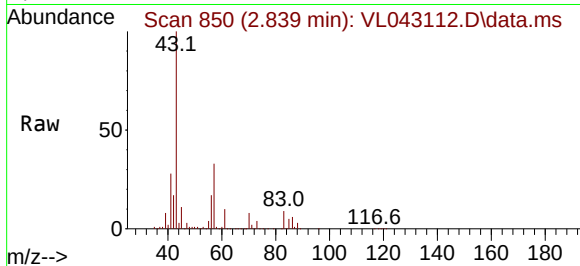


#25
Ethyl Acetate
Concen: 8.966 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 43 Resp: 292399

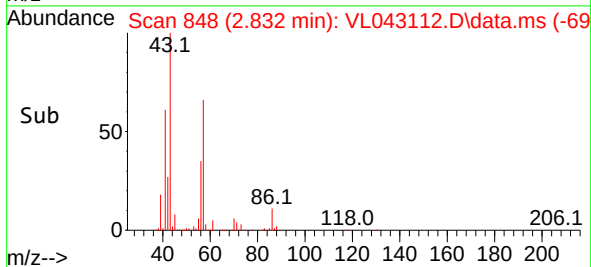
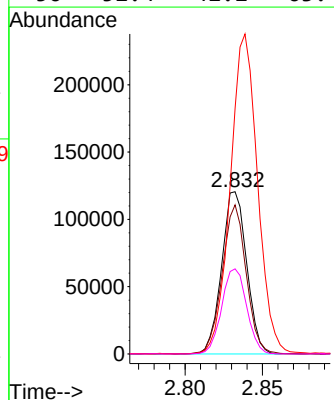
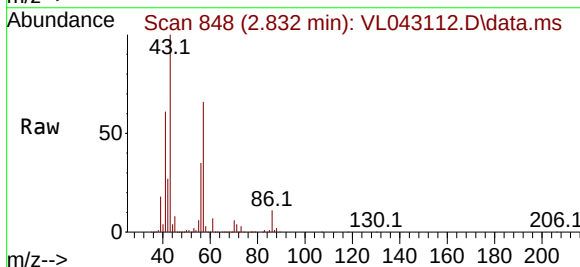
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	9.0	7.0	10.6
70	8.6	6.9	10.3

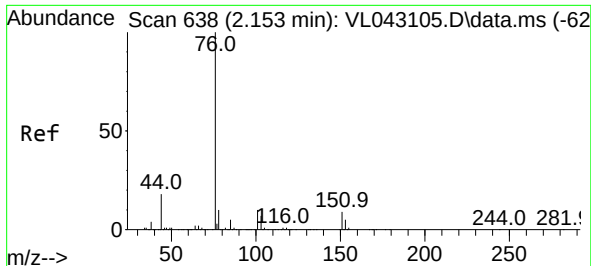


#26
Hexane
Concen: 9.015 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 135463

Ion	Ratio	Lower	Upper
57	100		
41	88.9	71.4	107.0
43	216.8	178.5	267.7
56	52.4	42.2	63.4

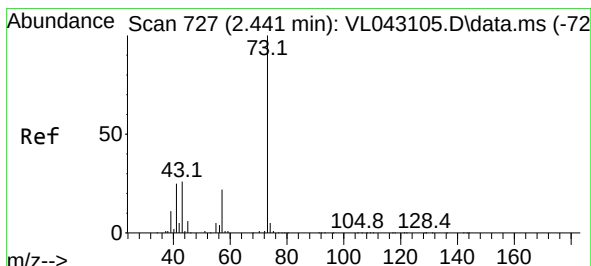
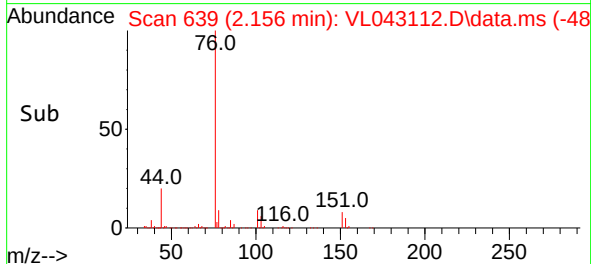
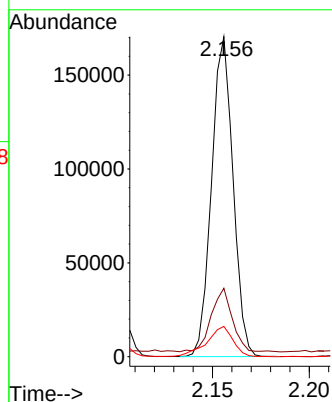
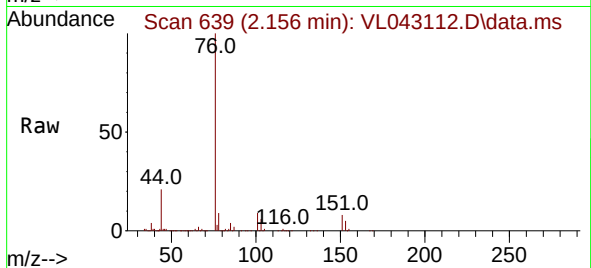




#27
Carbon Disulfide
Concen: 9.520 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

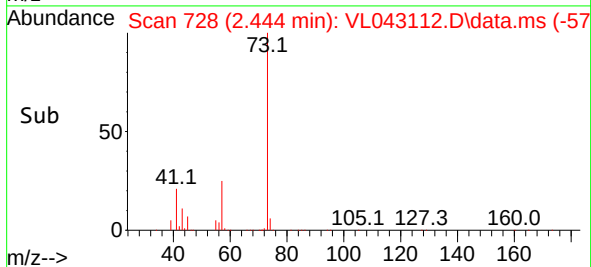
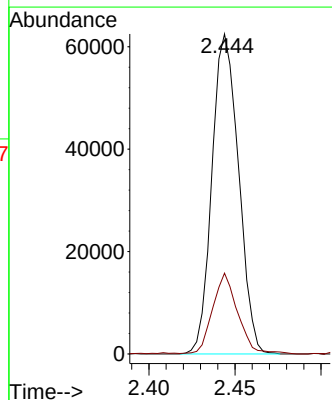
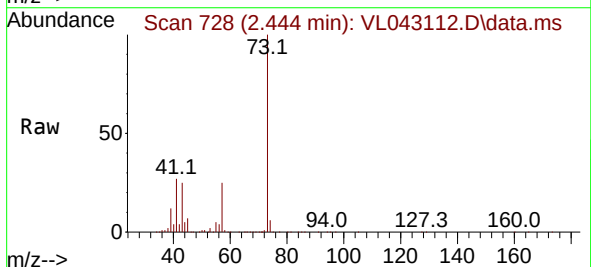
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

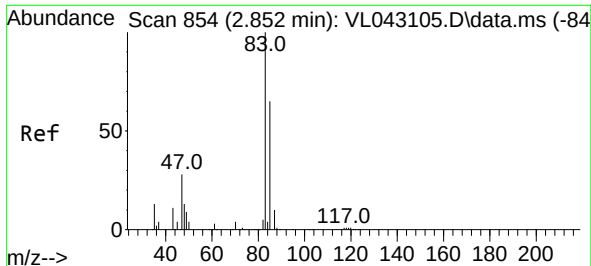
Tgt Ion: 76 Resp: 131064
Ion Ratio Lower Upper
76 100
44 20.7 16.7 25.1
78 11.7 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.839 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 73 Resp: 67260
Ion Ratio Lower Upper
73 100
57 24.1 20.5 30.7





#29

Chloroform

Concen: 9.412 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

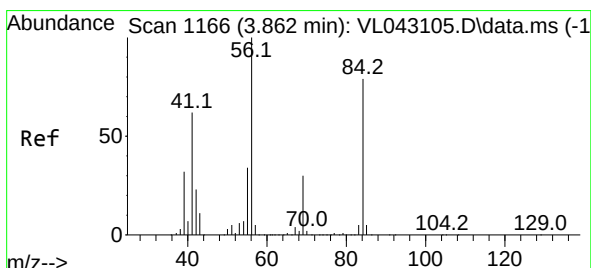
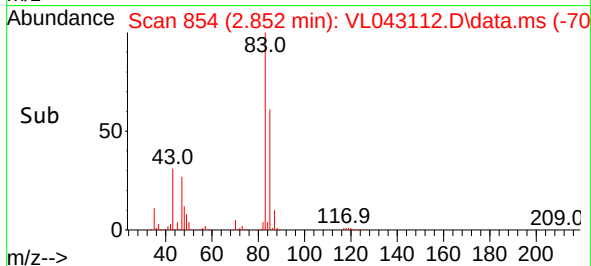
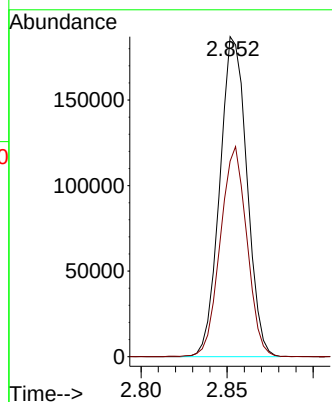
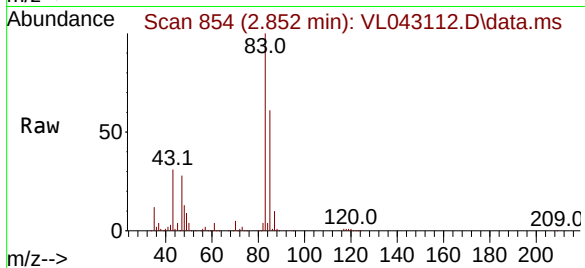
ICVVL101425

Tgt Ion: 83 Resp: 204925

Ion Ratio Lower Upper

83 100

85 61.0 51.8 77.6



#30

Cyclohexane

Concen: 9.096 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

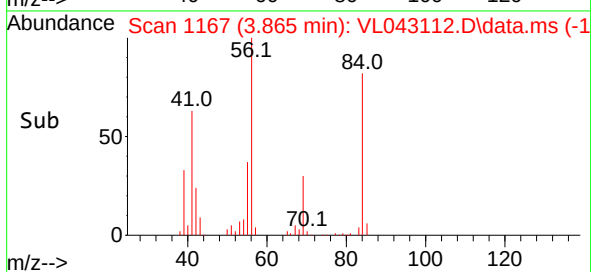
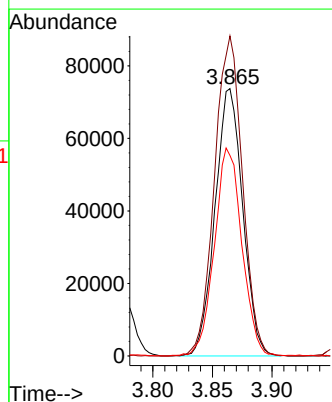
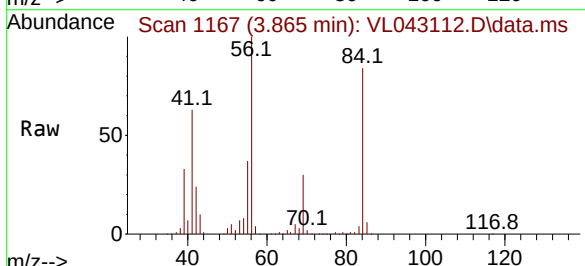
Tgt Ion: 84 Resp: 119287

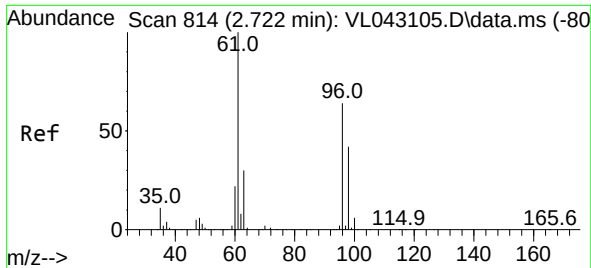
Ion Ratio Lower Upper

84 100

56 120.8 100.9 151.3

41 77.4 63.8 95.6

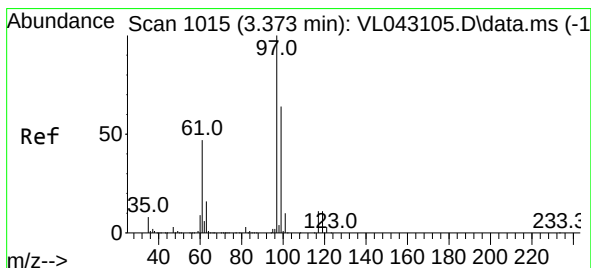
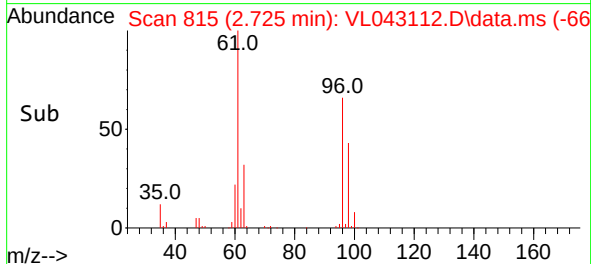
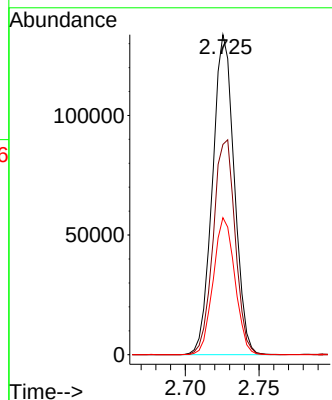
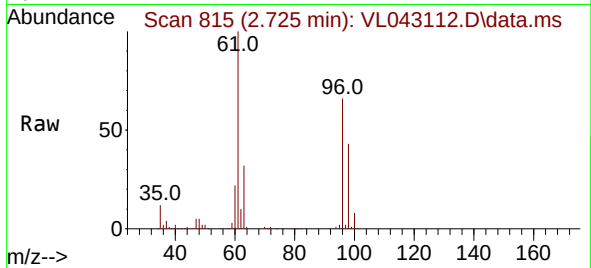




#31
 cis-1,2-Dichloroethene
 Concen: 9.580 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

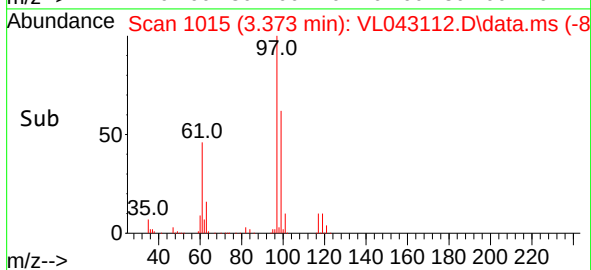
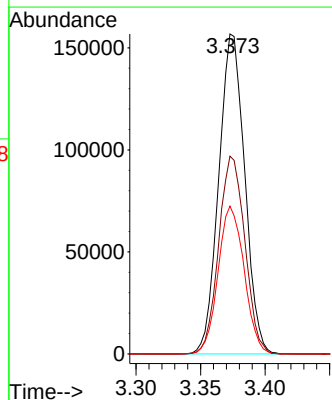
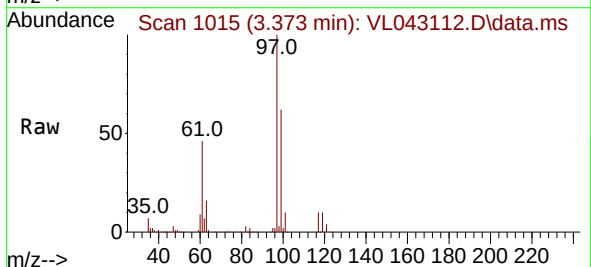
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

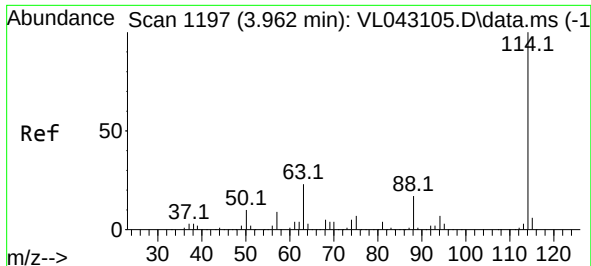
Tgt Ion: 61 Resp: 137462
 Ion Ratio Lower Upper
 61 100
 96 65.7 51.0 76.6
 98 42.8 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 9.666 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 97 Resp: 219167
 Ion Ratio Lower Upper
 97 100
 99 62.3 51.3 76.9
 61 46.4 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_1

ClientSampleId :

ICVVL101425

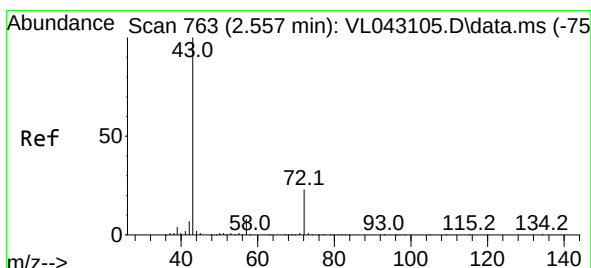
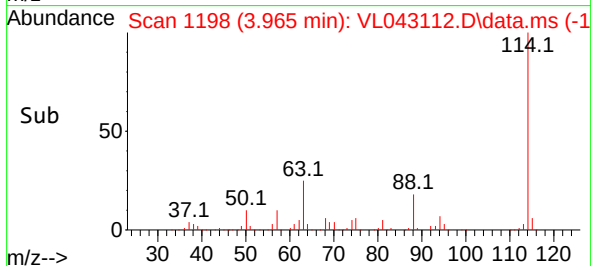
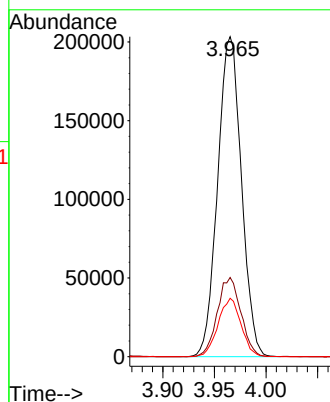
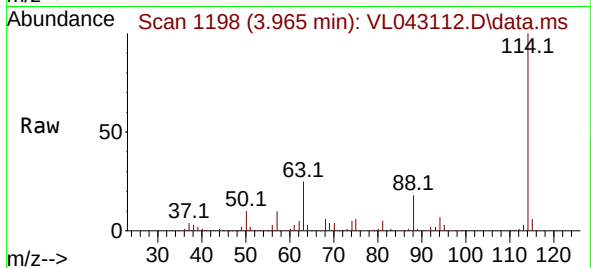
Tgt Ion:114 Resp: 325610

Ion Ratio Lower Upper

114 100

63 24.6 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 8.624 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043112.D

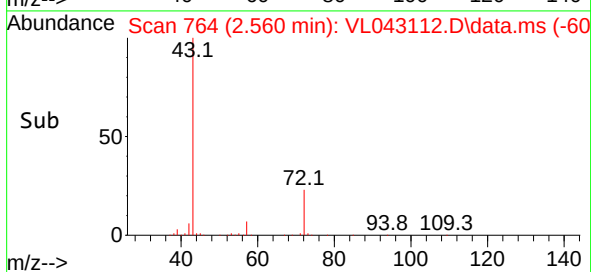
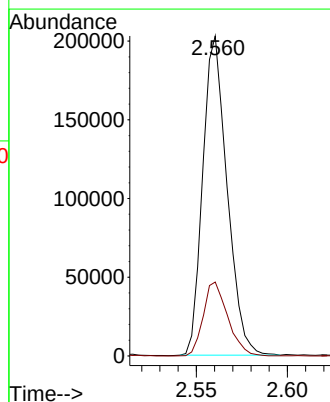
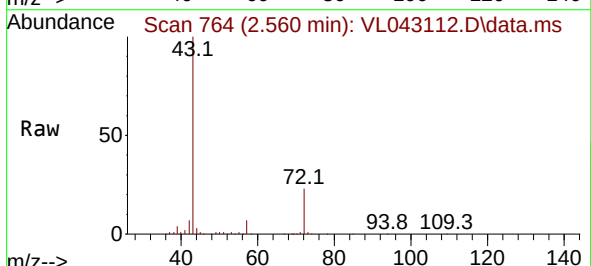
Acq: 14 Oct 2025 14:51

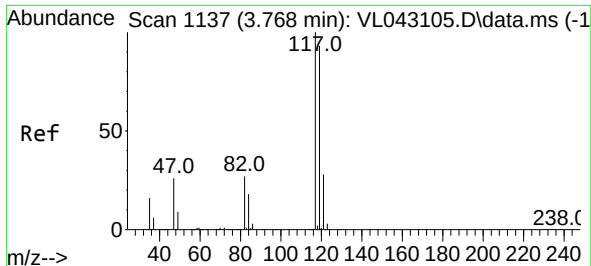
Tgt Ion: 43 Resp: 188755

Ion Ratio Lower Upper

43 100

72 23.4 18.4 27.6

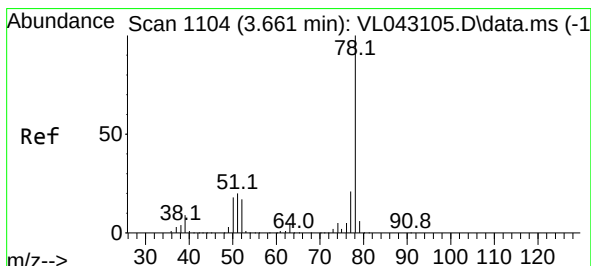
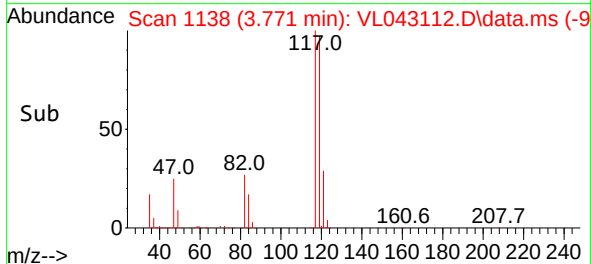
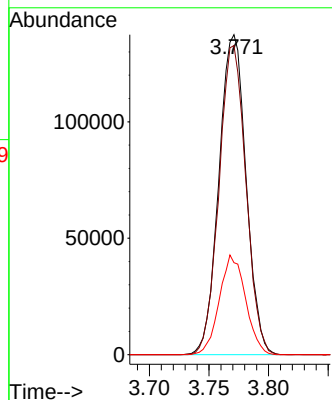
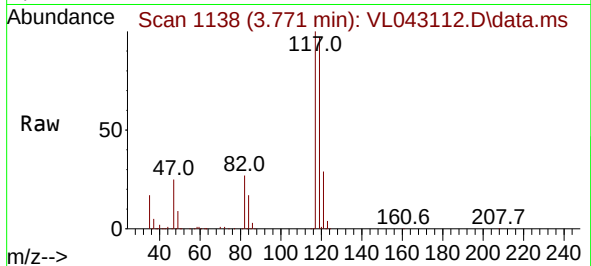




#35
Carbon Tetrachloride
Concen: 9.298 ppbv
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

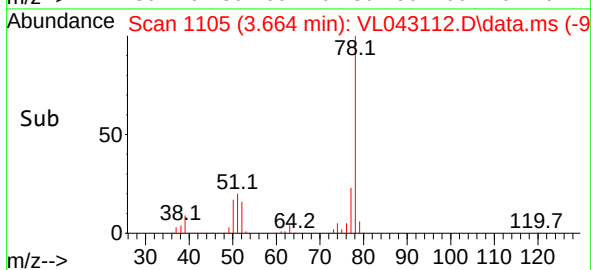
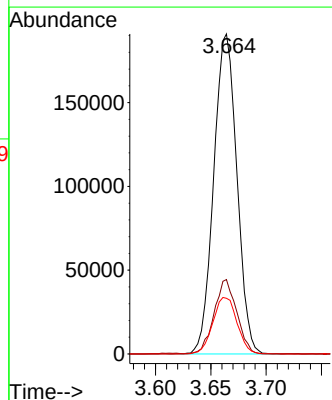
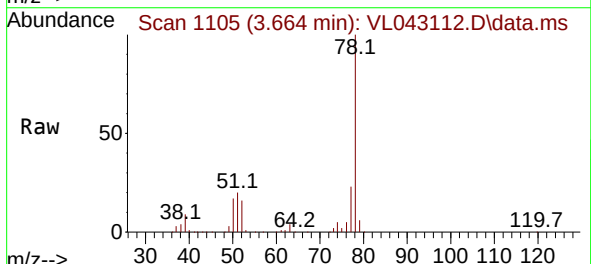
Instrument : MSVOA_L
ClientSampleId : ICVVL101425

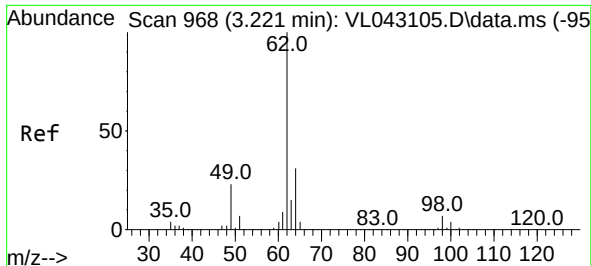
Tgt Ion: 117 Resp: 217678
Ion Ratio Lower Upper
117 100
119 96.6 74.1 111.1
121 28.7 22.2 33.2



#36
Benzene
Concen: 9.077 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365
Ion Ratio Lower Upper
78 100
77 23.2 17.0 25.6
50 17.4 14.6 22.0

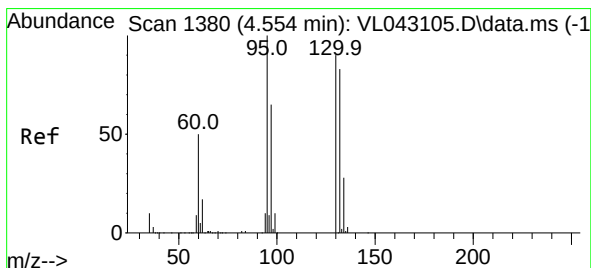
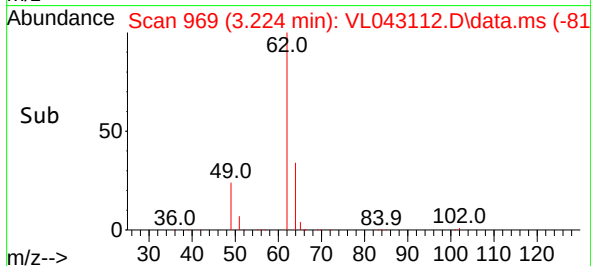
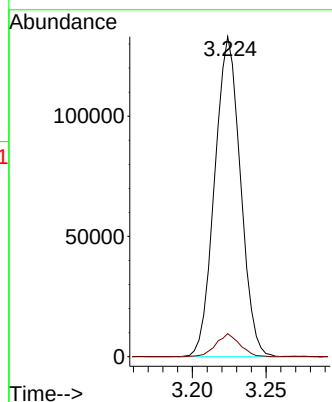
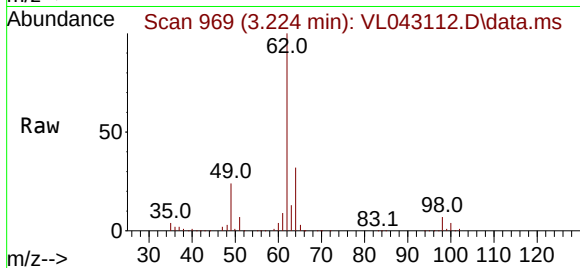




#37
1,2-Dichloroethane
Concen: 9.156 ppbv
RT: 3.224 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

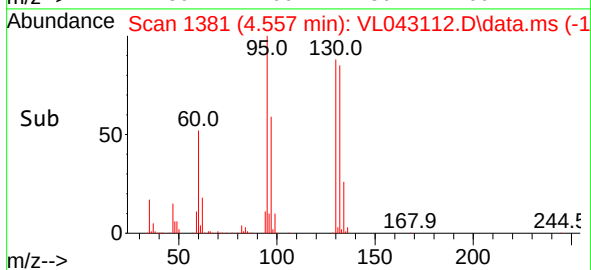
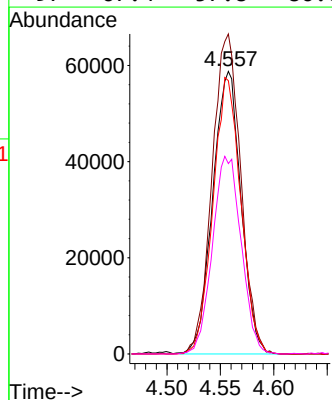
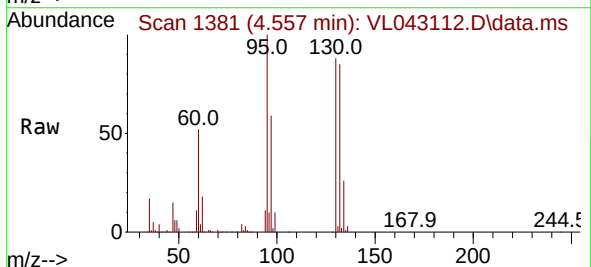
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

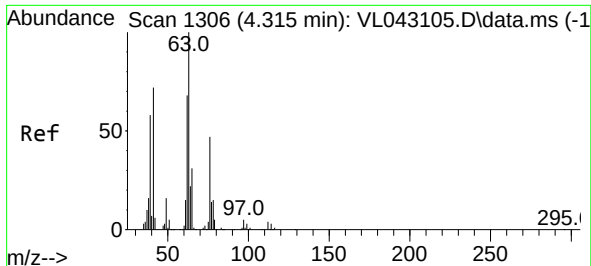
Tgt Ion: 62 Resp: 161750
Ion Ratio Lower Upper
62 100
98 6.7 5.8 8.6



#38
Trichloroethene
Concen: 8.453 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261
Ion Ratio Lower Upper
130 100
95 113.2 88.6 133.0
132 96.7 73.4 110.0
97 67.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.971 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

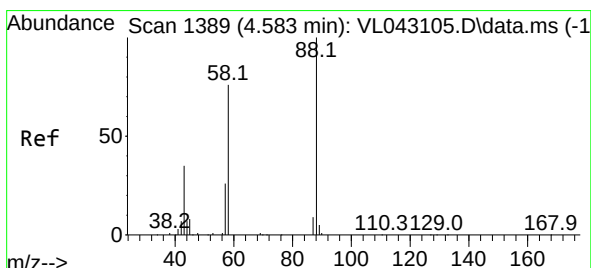
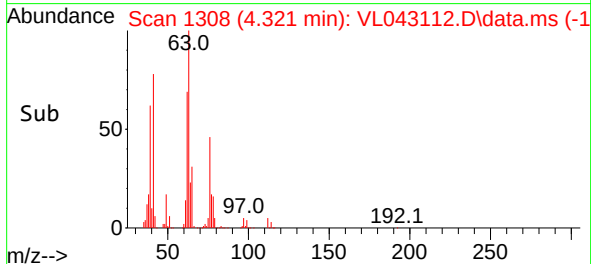
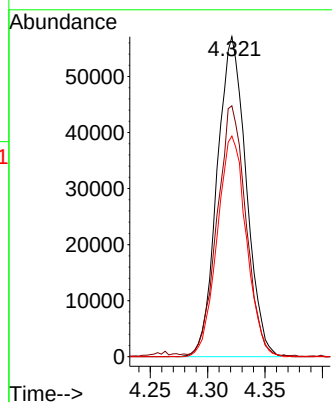
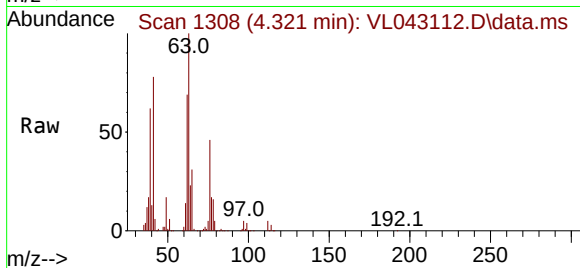
Tgt Ion: 63 Resp: 100580

Ion Ratio Lower Upper

63 100

41 78.0 58.0 87.0

62 69.0 54.7 82.1



#40

1,4-Dioxane

Concen: 8.265 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

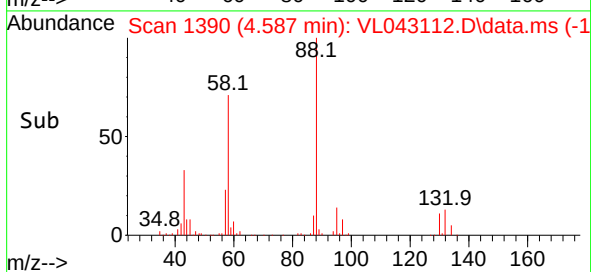
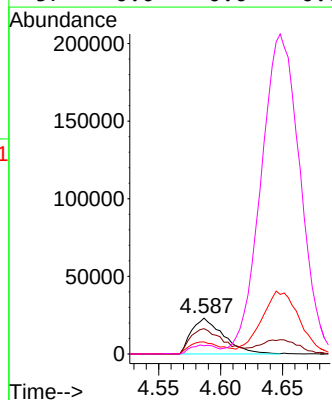
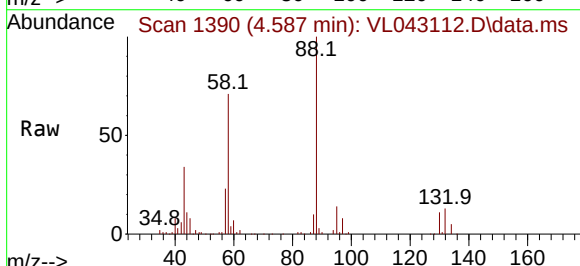
Ion Ratio Lower Upper

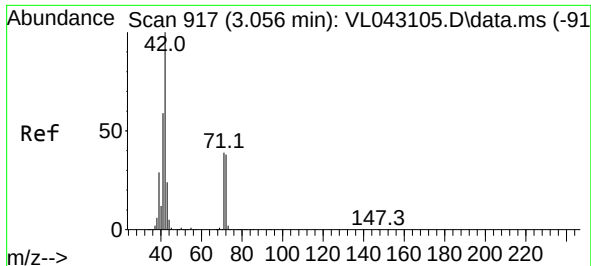
88 100

58 74.2 61.1 91.7

43 35.4 24.0 36.0

57 0.0 0.0 0.0

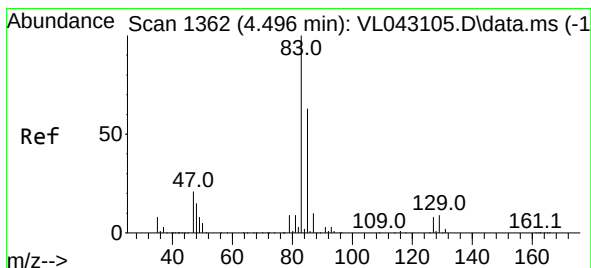
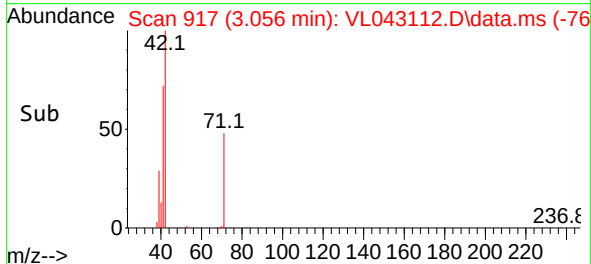
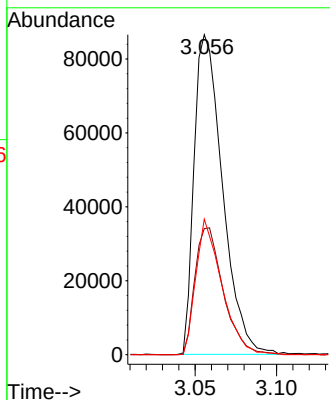
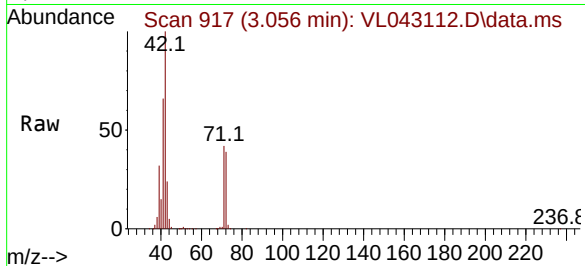




#41
Tetrahydrofuran
Concen: 8.553 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

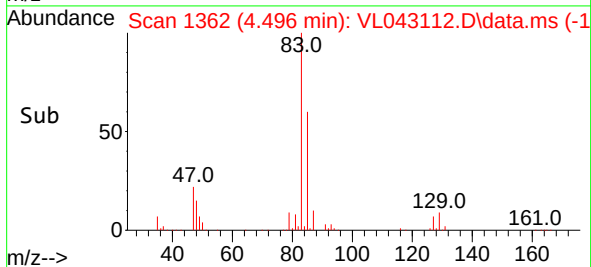
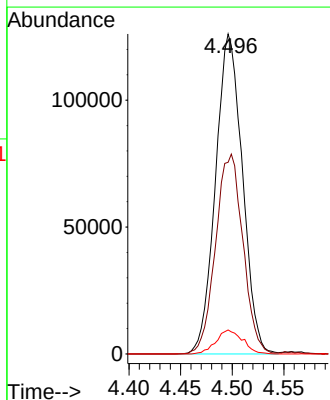
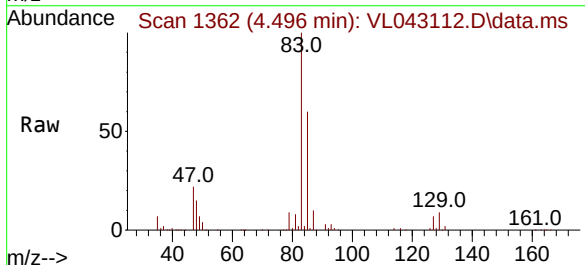
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

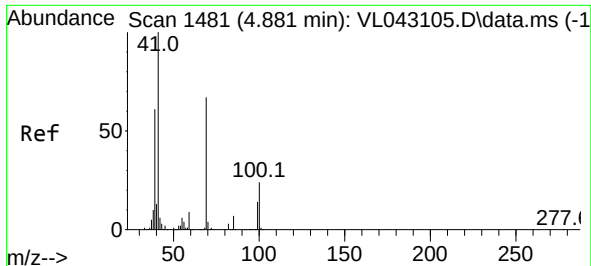
Tgt Ion:	42	Resp:	104701
Ion	Ratio	Lower	Upper
42	100		
72	39.8	31.3	46.9
71	38.8	30.4	45.6



#42
Bromodichloromethane
Concen: 9.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:	83	Resp:	228288
Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.6	75.8
127	7.5	6.3	9.5

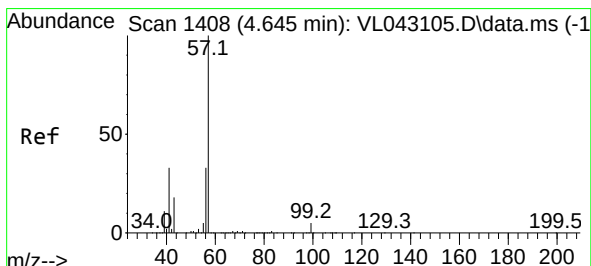
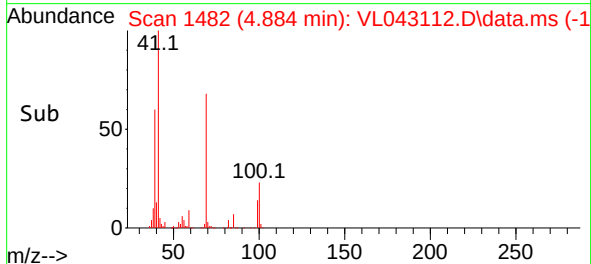
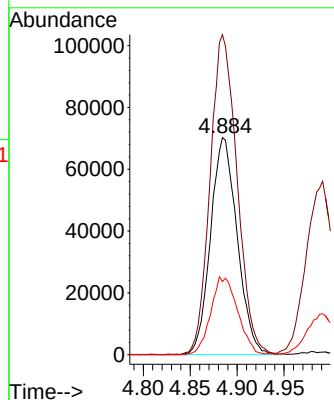
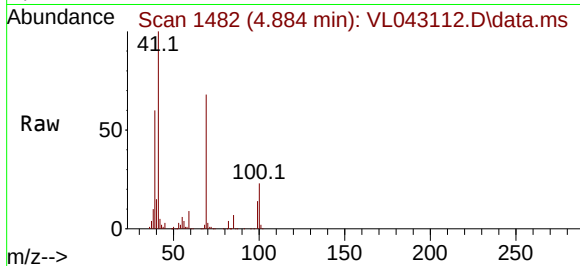




#43
Methyl Methacrylate
Concen: 8.898 ppbv
RT: 4.884 min Scan# 1481
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

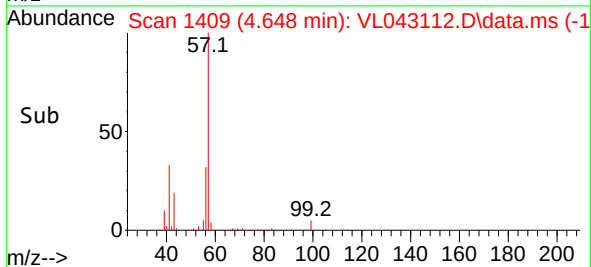
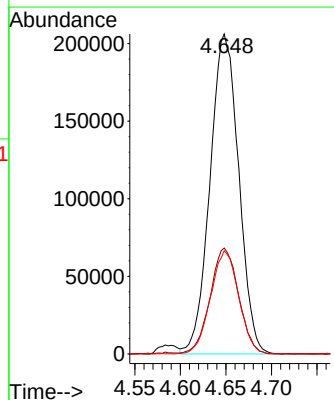
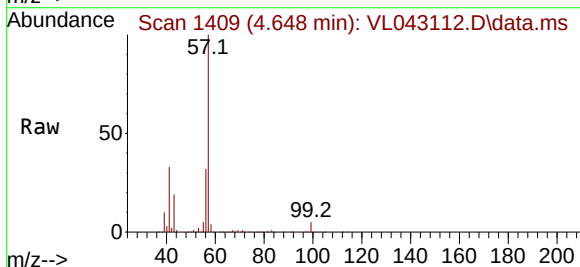
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425

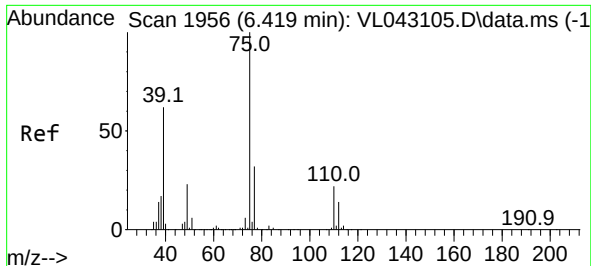
Tgt Ion: 69 Resp: 138593
Ion Ratio Lower Upper
69 100
41 149.1 120.5 180.7
100 36.3 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 8.738 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 452117
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.6 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.146 ppbv

RT: 6.422 min Scan# 1956

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_1

ClientSampleId :

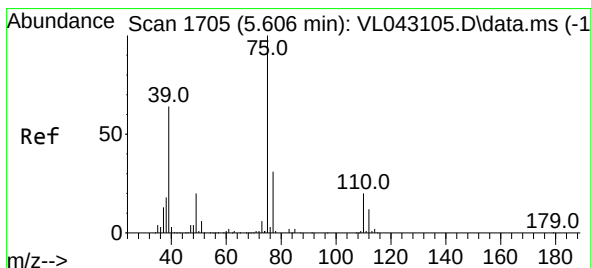
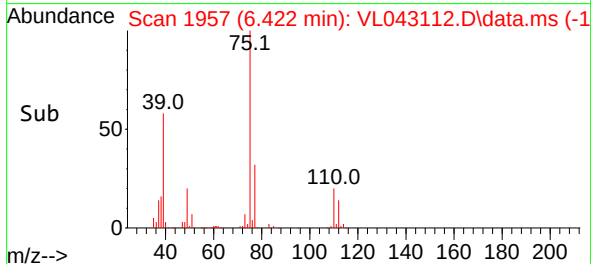
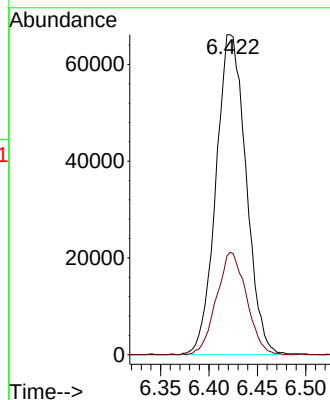
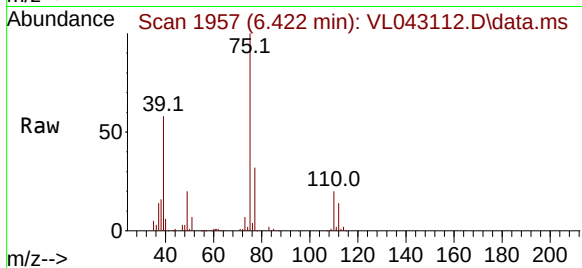
ICVVL101425

Tgt Ion: 75 Resp: 142964

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 9.106 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

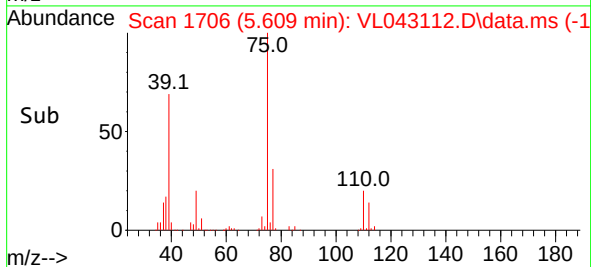
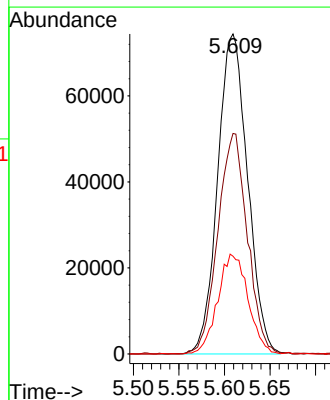
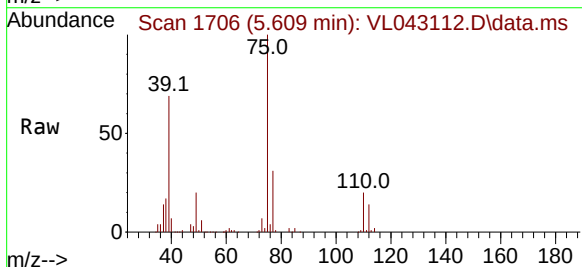
Tgt Ion: 75 Resp: 170038

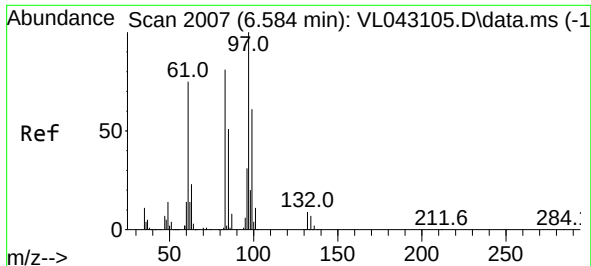
Ion Ratio Lower Upper

75 100

39 68.8 51.0 76.6

77 30.5 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.000 ppbv

RT: 6.590 min Scan# 2007

Delta R.T. 0.006 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion: 97 Resp: 108965

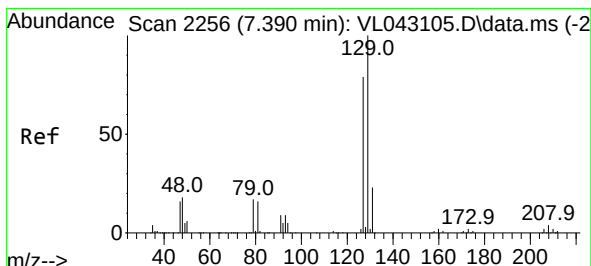
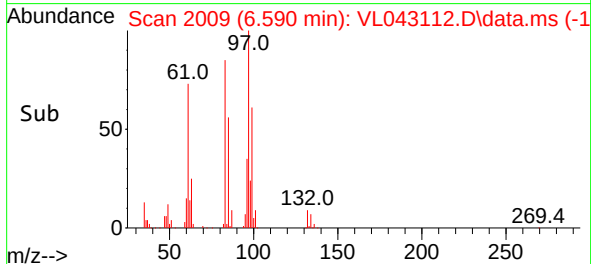
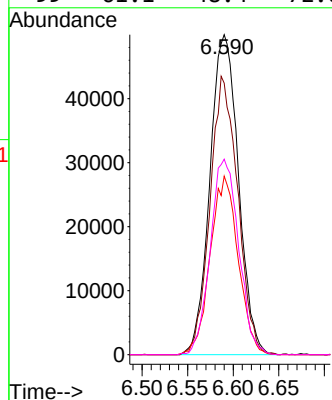
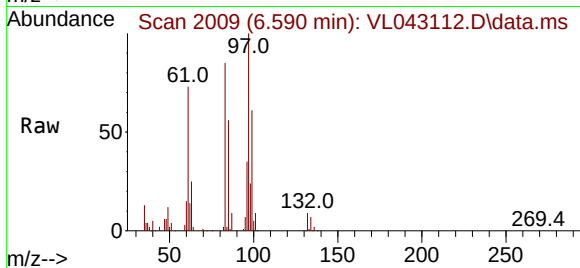
Ion Ratio Lower Upper

97 100

83 84.8 64.6 96.8

85 55.8 40.6 60.8

99 61.1 48.4 72.6



#48

Dibromochloromethane

Concen: 9.127 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.006 min

Lab File: VL043112.D

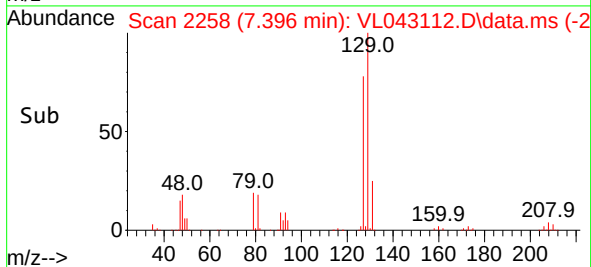
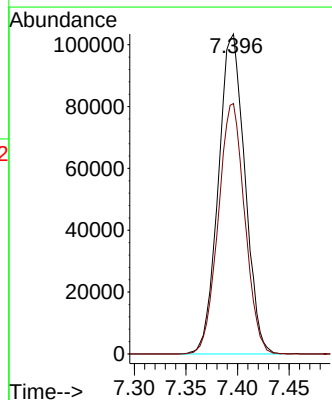
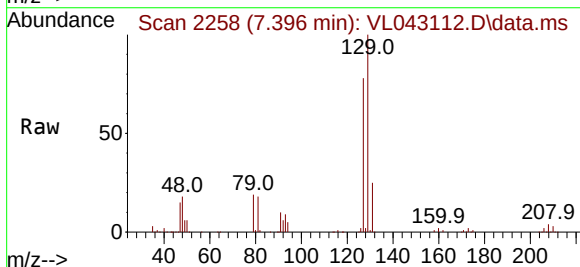
Acq: 14 Oct 2025 14:51

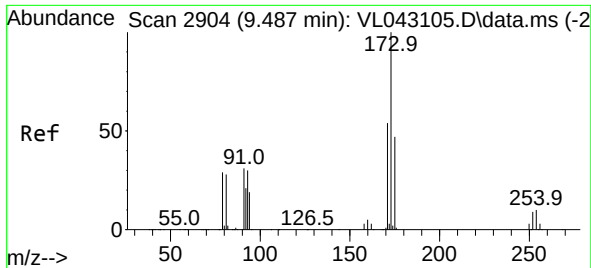
Tgt Ion: 129 Resp: 184757

Ion Ratio Lower Upper

129 100

127 78.3 39.3 117.9

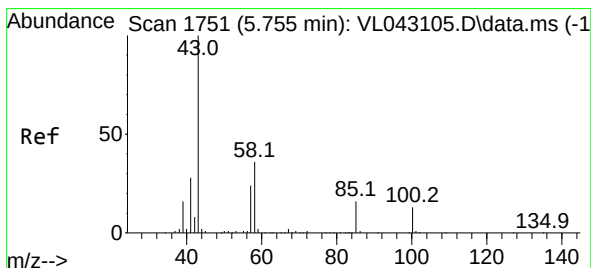
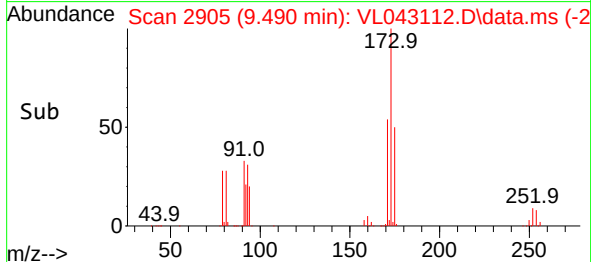
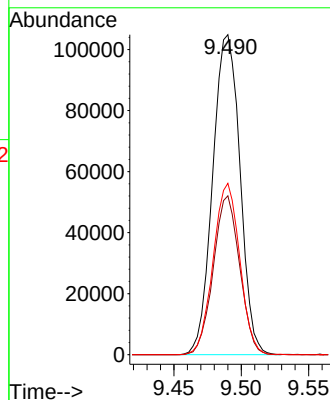
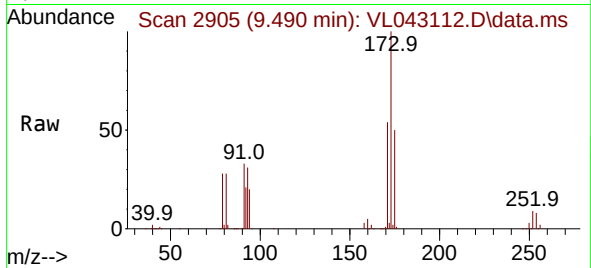




#49
Bromoform
Concen: 8.980 ppbv
RT: 9.490 min Scan# 2904
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

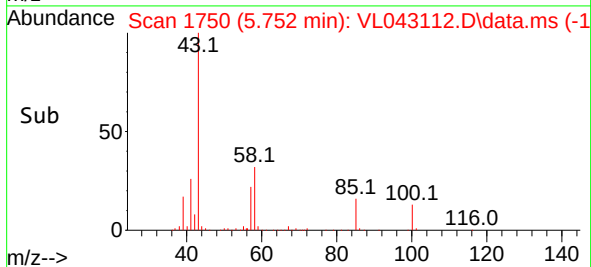
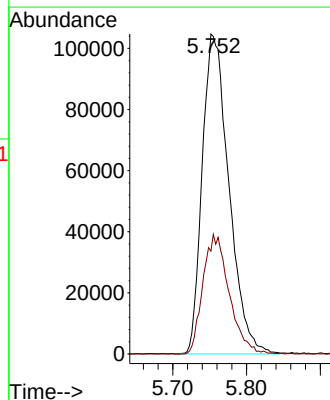
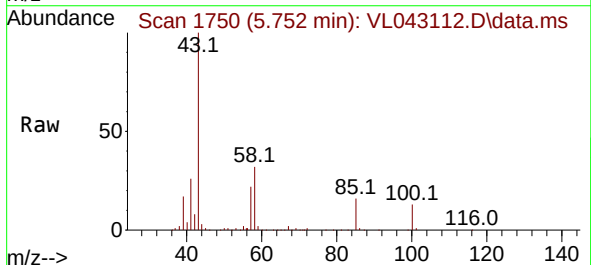
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

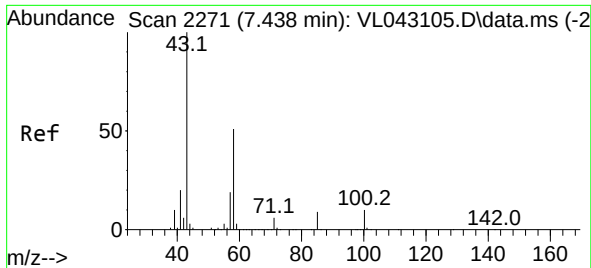
Tgt Ion:173 Resp: 147759
Ion Ratio Lower Upper
173 100
175 48.0 38.8 58.2
171 52.1 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 8.709 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 263070
Ion Ratio Lower Upper
43 100
58 36.6 29.1 43.7

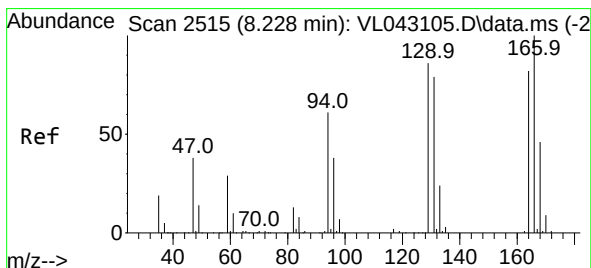
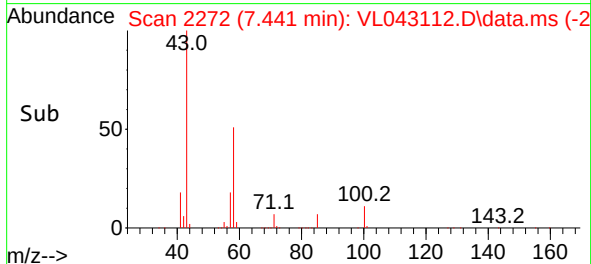
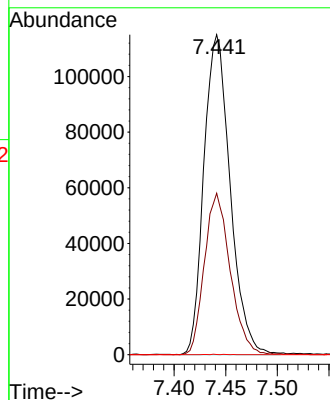
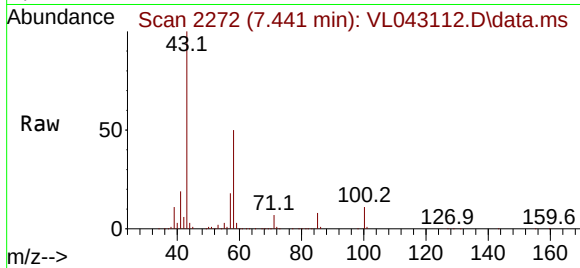




#51
2-Hexanone
Concen: 8.999 ppbv
RT: 7.441 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

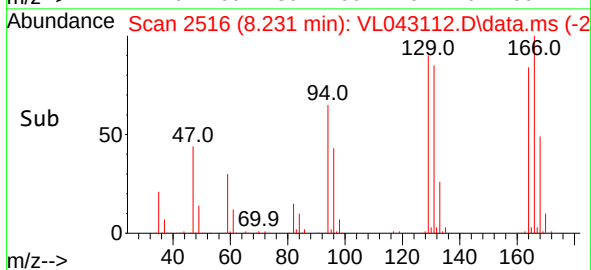
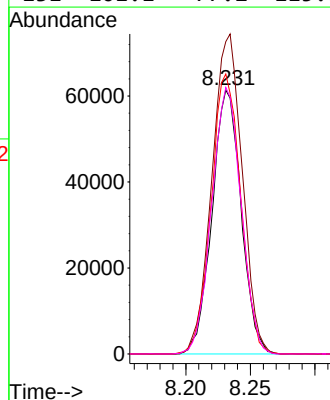
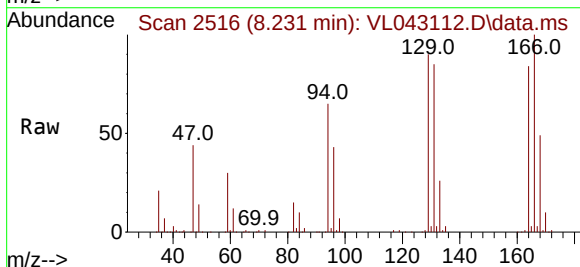
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

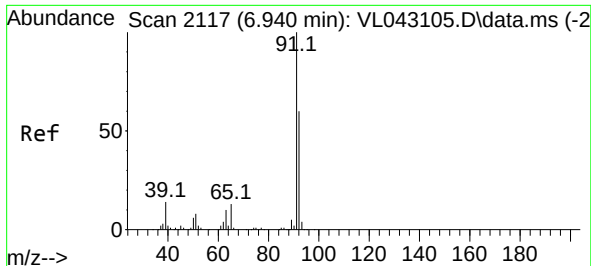
Tgt Ion: 43 Resp: 203876
Ion Ratio Lower Upper
43 100
58 49.6 40.4 60.6
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.681 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:164 Resp: 96000
Ion Ratio Lower Upper
164 100
166 118.4 97.6 146.4
129 106.2 84.5 126.7
131 101.1 77.2 115.8





#53

Toluene

Concen: 8.928 ppbv

RT: 6.943 min Scan# 2117

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

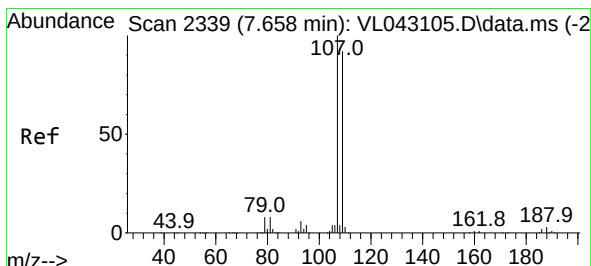
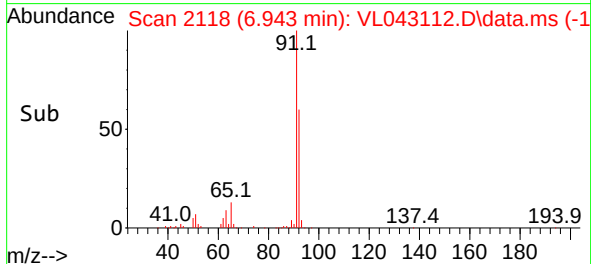
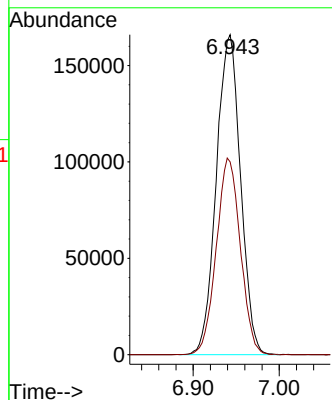
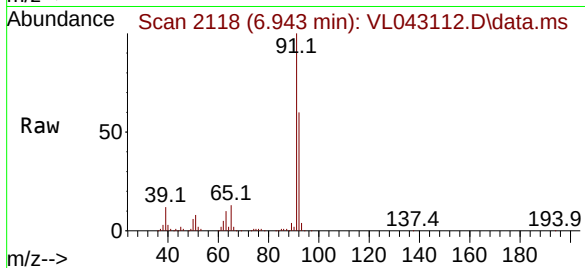
ICVVL101425

Tgt Ion: 91 Resp: 324944

Ion Ratio Lower Upper

91 100

92 61.0 48.8 73.2



#54

1,2-Dibromoethane

Concen: 8.856 ppbv

RT: 7.661 min Scan# 2340

Delta R.T. 0.003 min

Lab File: VL043112.D

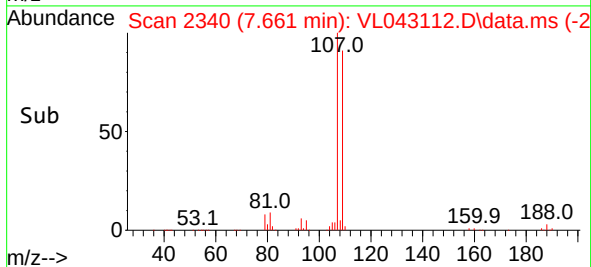
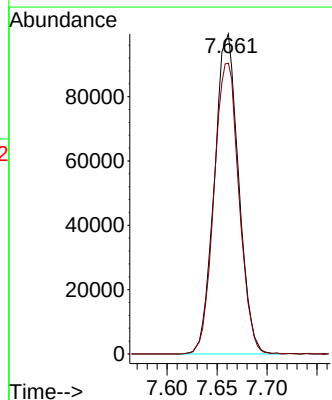
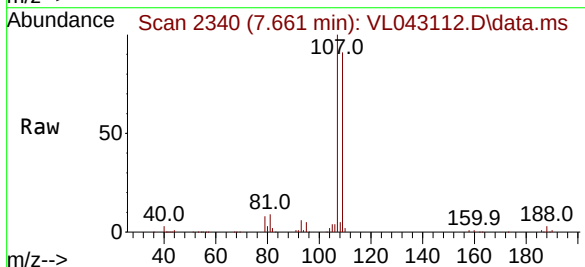
Acq: 14 Oct 2025 14:51

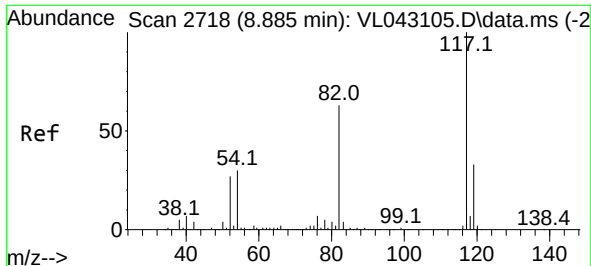
Tgt Ion: 107 Resp: 167936

Ion Ratio Lower Upper

107 100

109 90.9 73.4 110.2

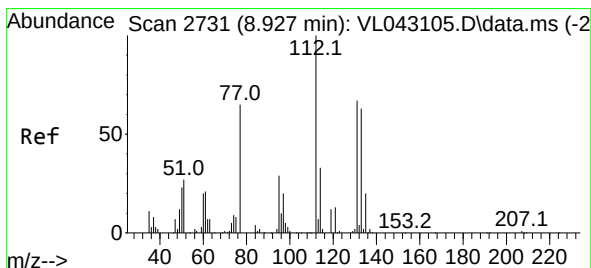
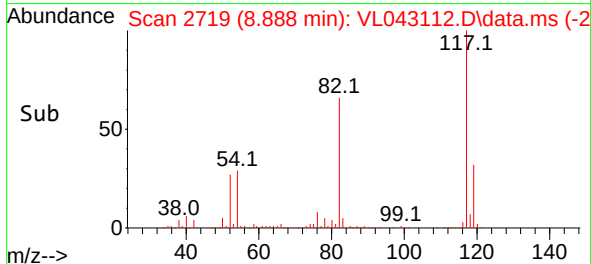
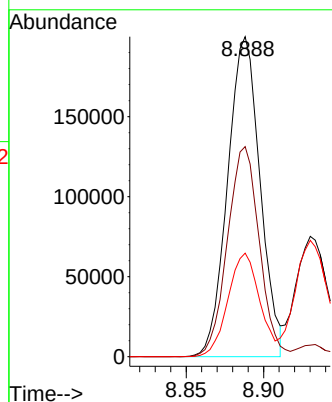
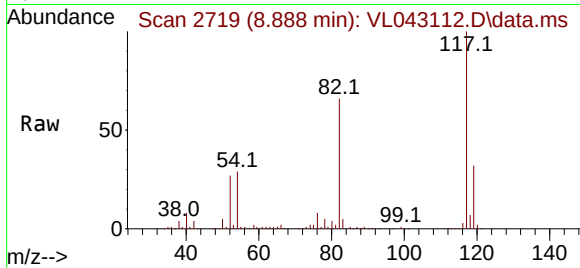




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

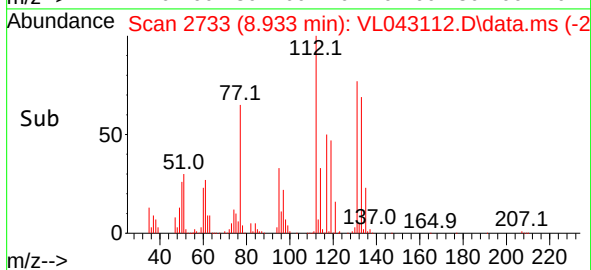
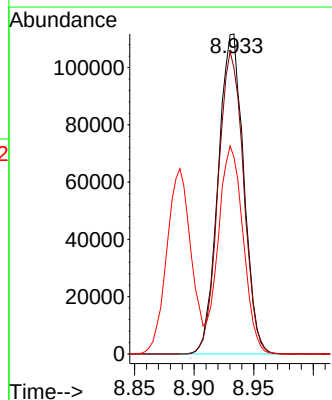
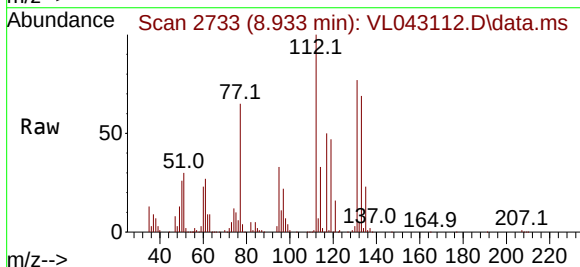
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

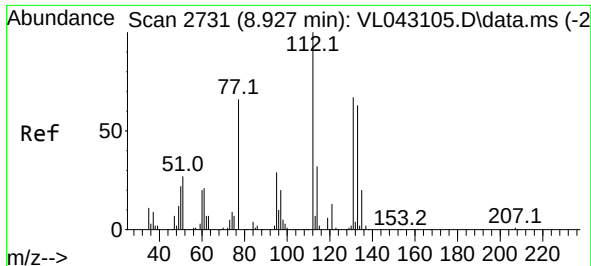
Tgt Ion:117 Resp: 291676
Ion Ratio Lower Upper
117 100
82 67.8 53.8 80.8
119 31.5 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 9.031 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:131 Resp: 166059
Ion Ratio Lower Upper
131 100
133 94.2 75.7 113.5
119 60.4 50.6 76.0

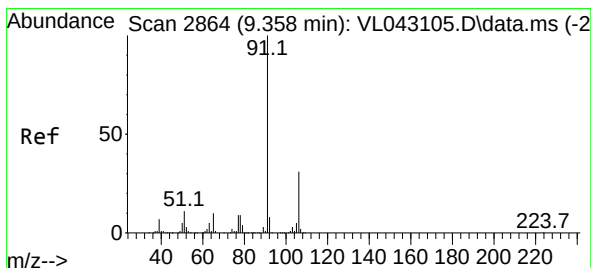
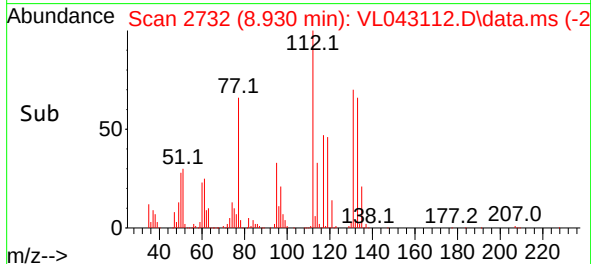
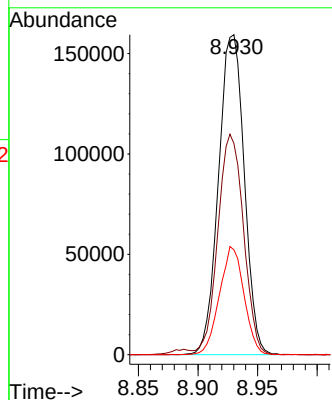
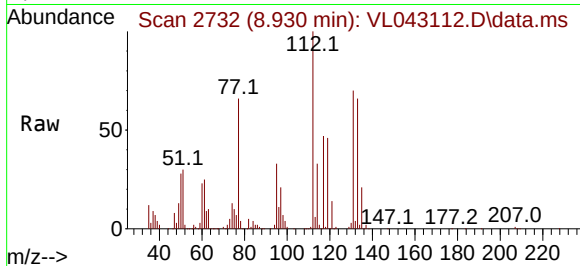




#57
Chlorobenzene
Concen: 8.770 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

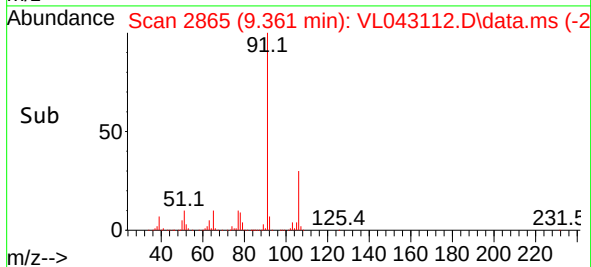
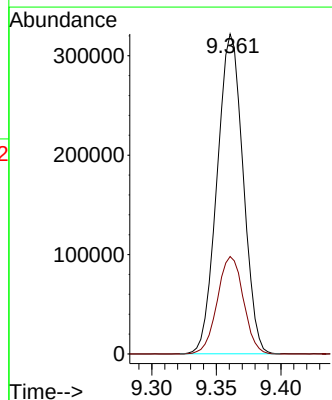
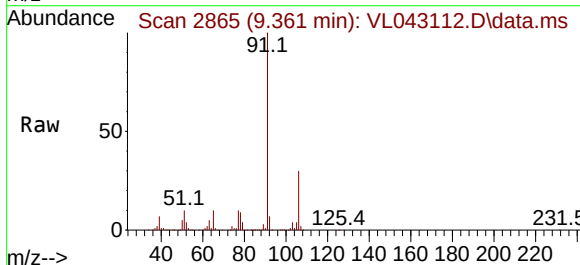
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

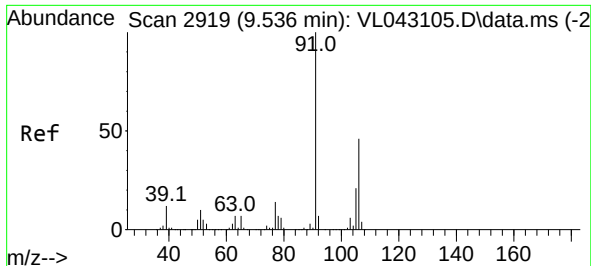
Tgt Ion:112 Resp: 239309
Ion Ratio Lower Upper
112 100
77 65.9 53.3 79.9
114 32.7 29.3 35.8



#58
Ethyl Benzene
Concen: 8.990 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029
Ion Ratio Lower Upper
91 100
106 30.5 24.8 37.2

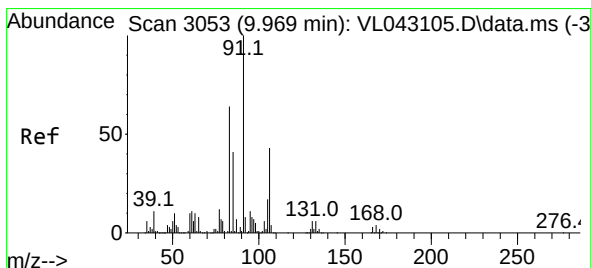
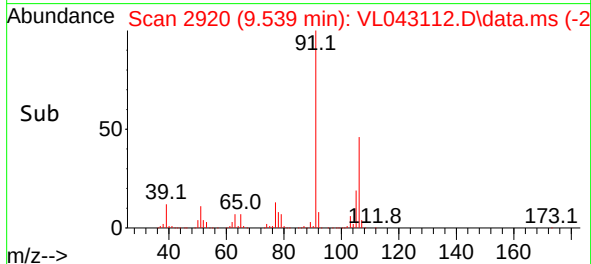
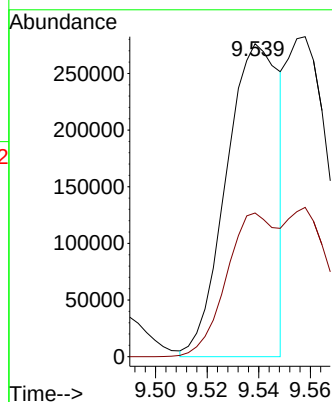
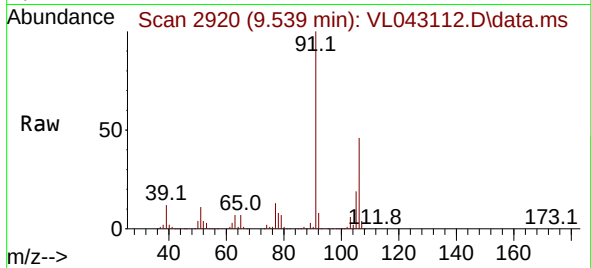




#59
m/p-Xylene
Concen: 9.822 ppbv
RT: 9.539 min Scan# 2919
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

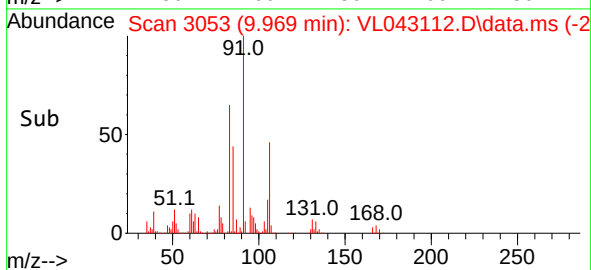
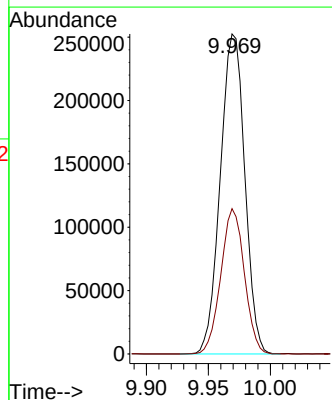
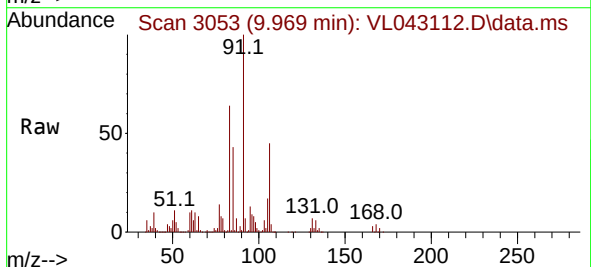
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

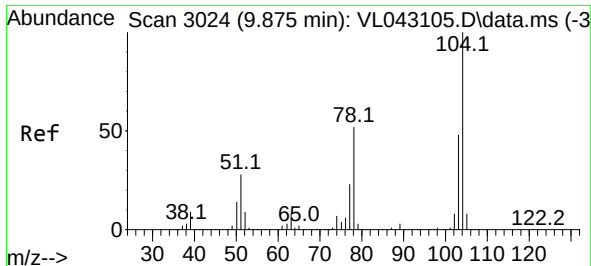
Tgt Ion: 91 Resp: 392158
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 8.834 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 348346
Ion Ratio Lower Upper
91 100
106 43.7 21.9 65.8

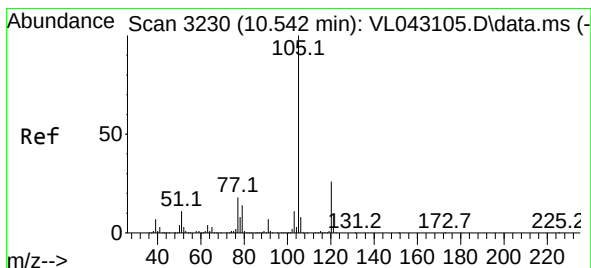
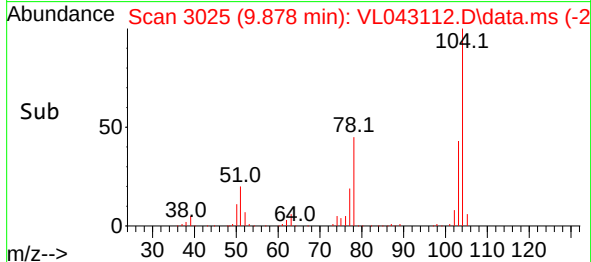
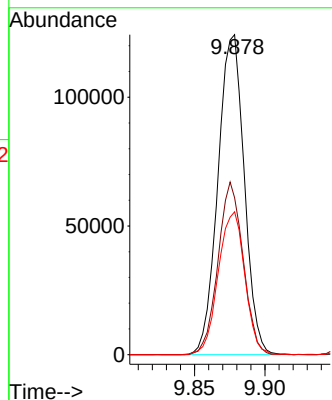
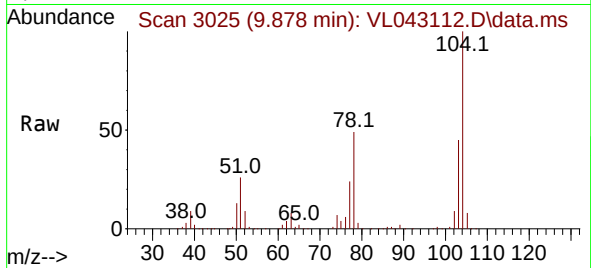




#61
Styrene
Concen: 9.099 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

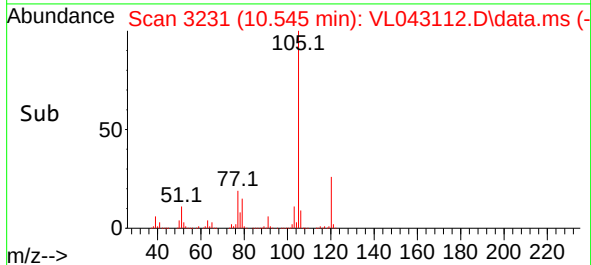
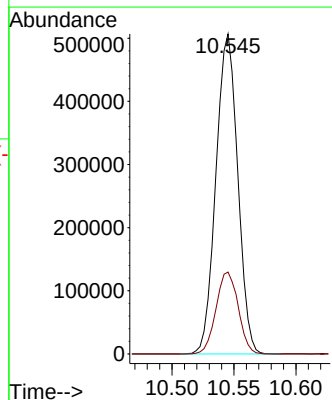
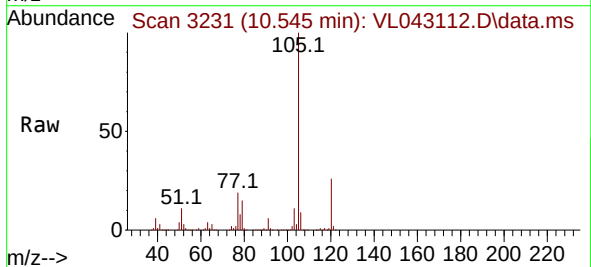
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425

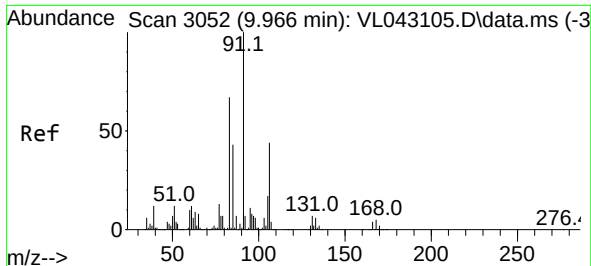
Tgt Ion:104 Resp: 161979
Ion Ratio Lower Upper
104 100
78 51.4 40.2 60.2
103 45.0 36.9 55.3



#62
Isopropylbenzene
Concen: 8.726 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 621758
Ion Ratio Lower Upper
105 100
120 26.0 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 8.177 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

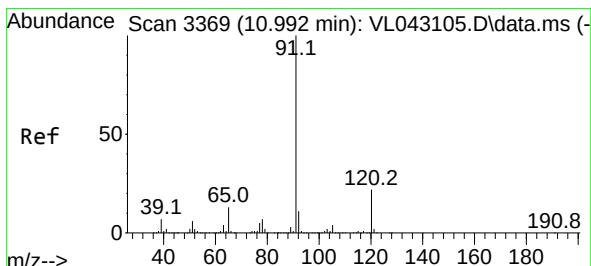
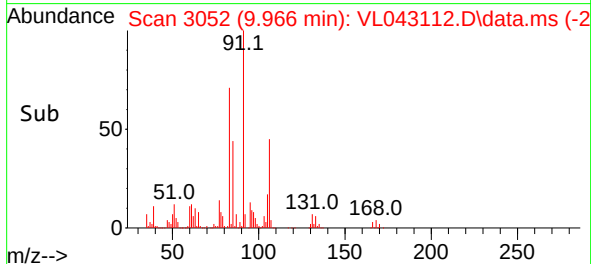
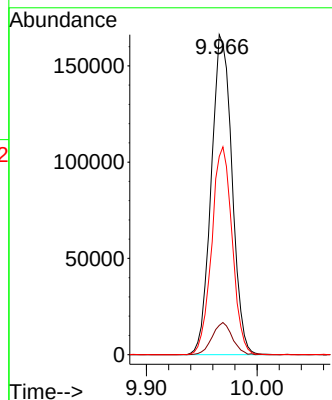
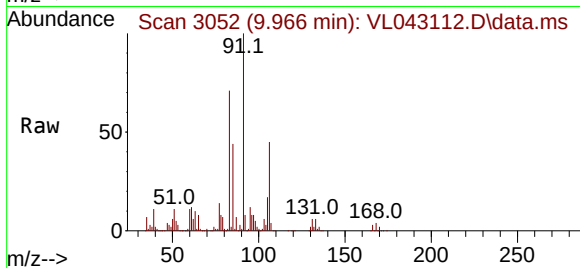
Tgt Ion: 83 Resp: 215911

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.3

85 64.1 32.0 96.0



#64

n-propylbenzene

Concen: 8.503 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.003 min

Lab File: VL043112.D

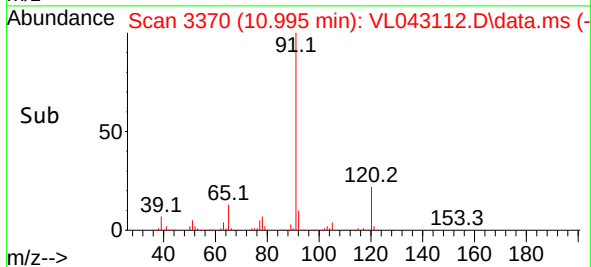
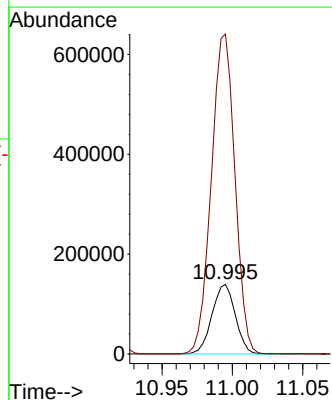
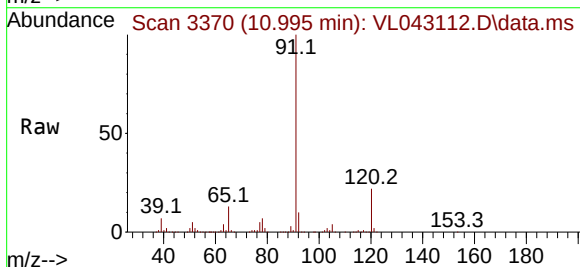
Acq: 14 Oct 2025 14:51

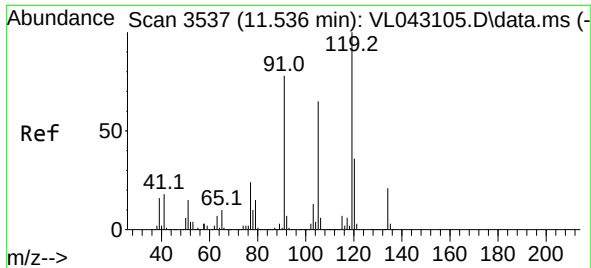
Tgt Ion: 120 Resp: 160411

Ion Ratio Lower Upper

120 100

91 467.8 361.6 542.4

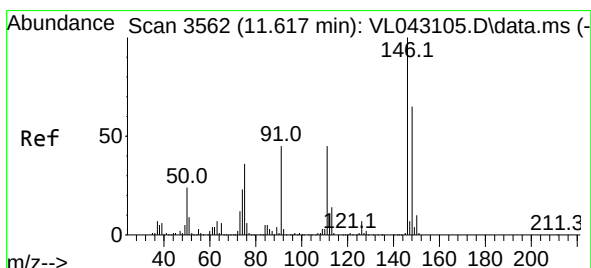
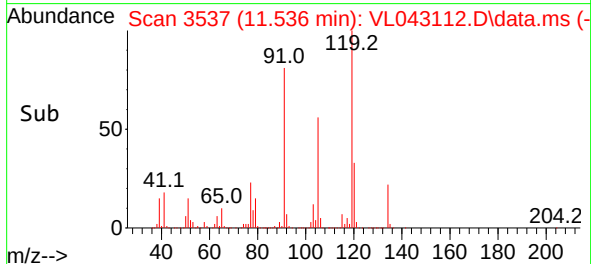
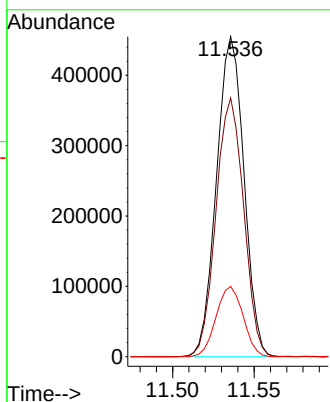
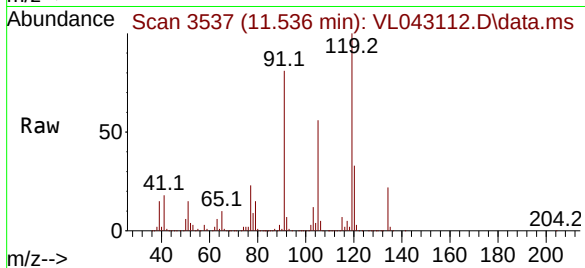




#65
tert-Butylbenzene
Concen: 8.464 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

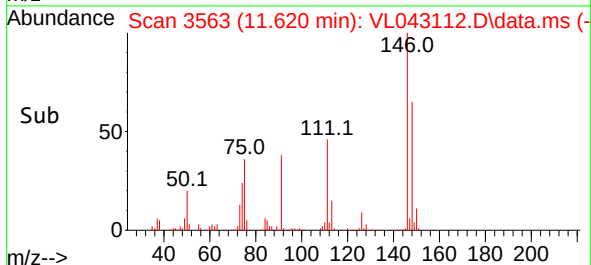
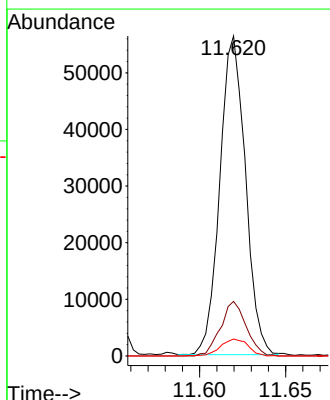
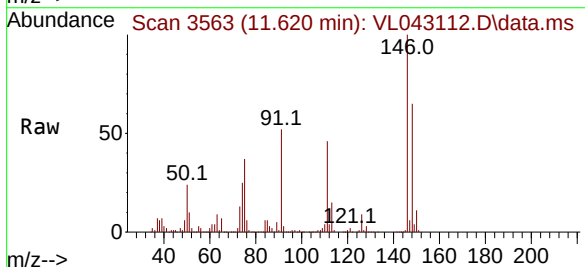
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

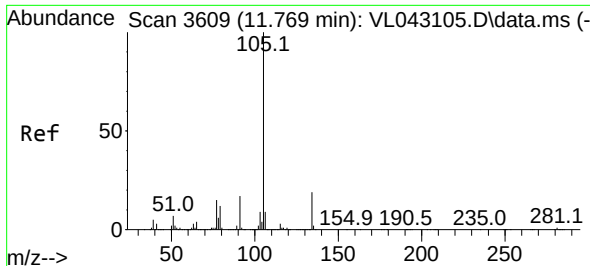
Tgt Ion:119 Resp: 532570
Ion Ratio Lower Upper
119 100
91 81.6 63.4 95.0
134 21.6 17.3 25.9



#66
Benzyl Chloride
Concen: 8.306 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 58169
Ion Ratio Lower Upper
91 100
126 17.2 14.6 22.0
128 5.8 4.6 6.8

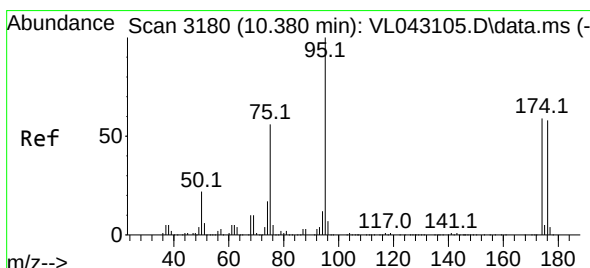
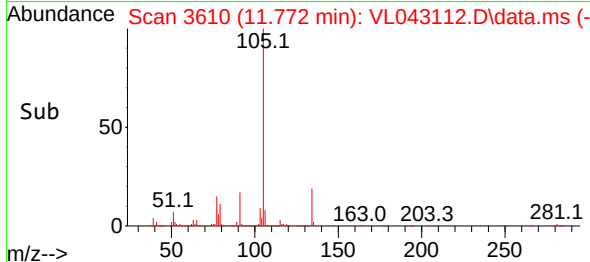
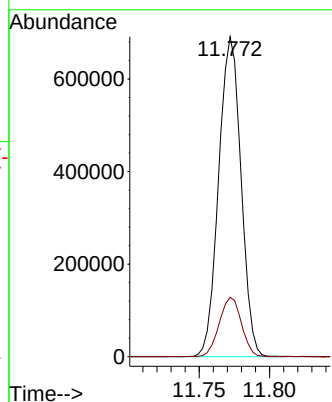
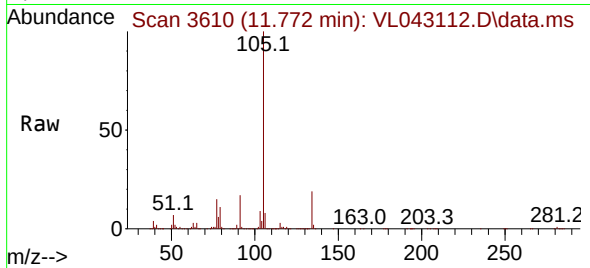




#67
 sec-Butylbenzene
 Concen: 8.541 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

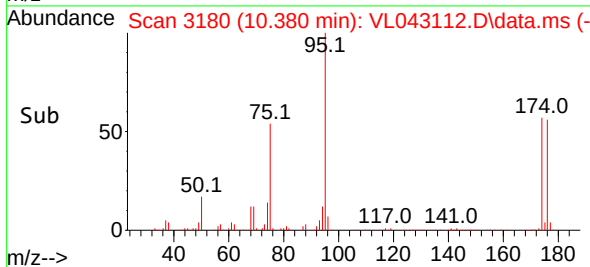
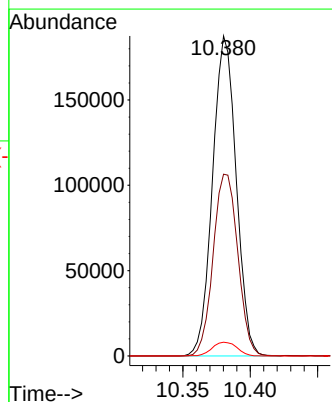
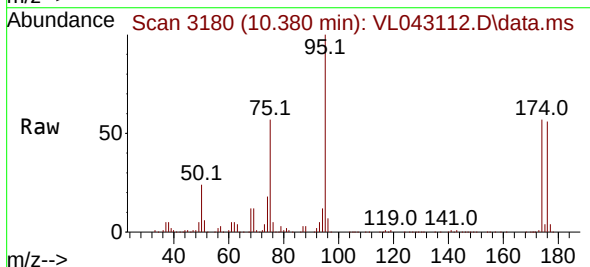
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

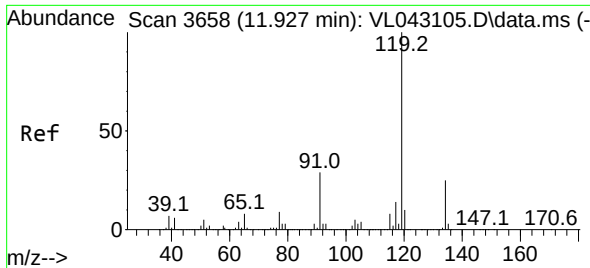
Tgt Ion:105 Resp: 762711
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.101 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 95 Resp: 229010
 Ion Ratio Lower Upper
 95 100
 174 59.2 48.3 72.5
 175 4.6 3.8 5.8

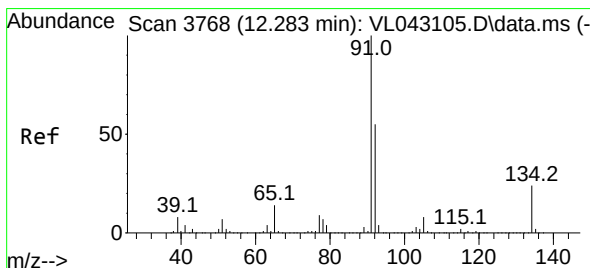
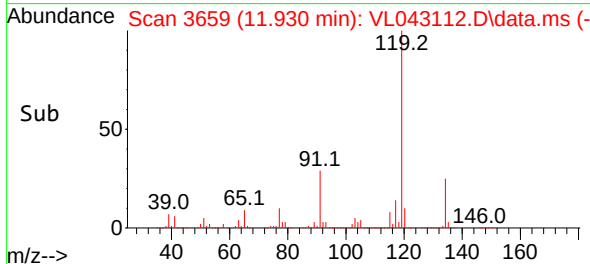
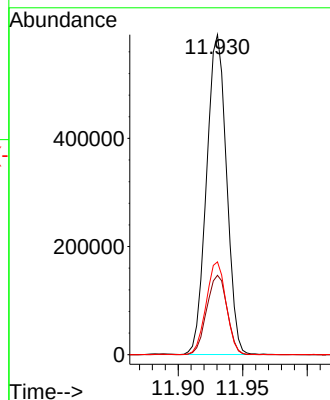
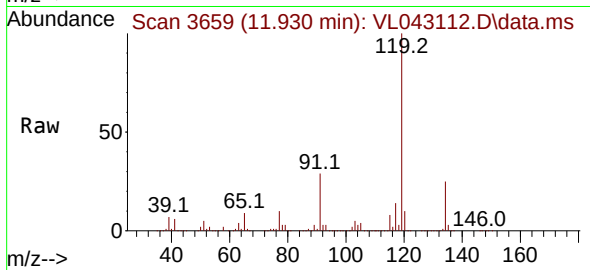




#69
p-Isopropyltoluene
Concen: 8.411 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

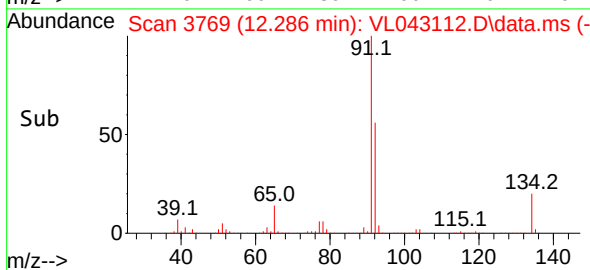
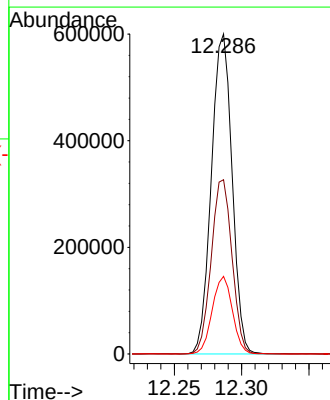
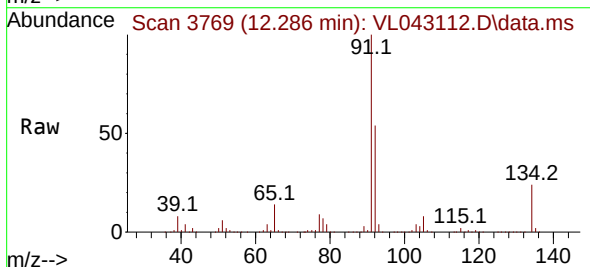
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

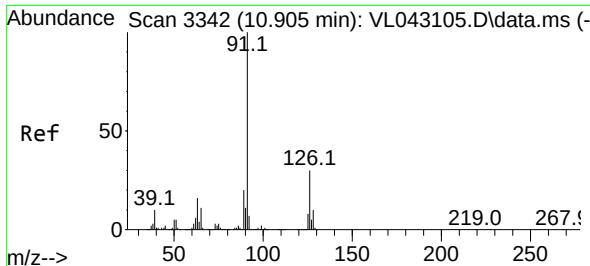
Tgt Ion:119 Resp: 638261
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 29.0 22.6 33.8



#70
n-Butylbenzene
Concen: 8.579 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 641547
Ion Ratio Lower Upper
91 100
92 54.8 44.5 66.7
134 23.7 19.3 28.9

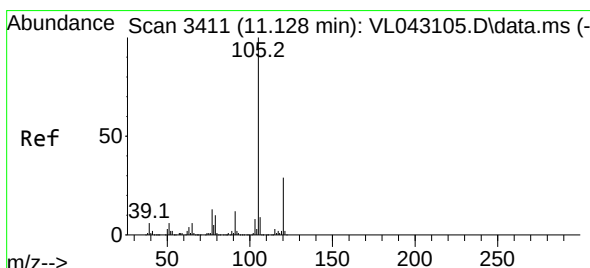
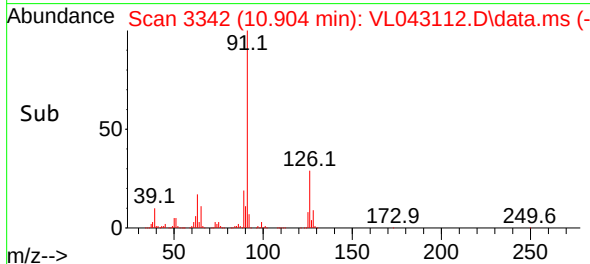
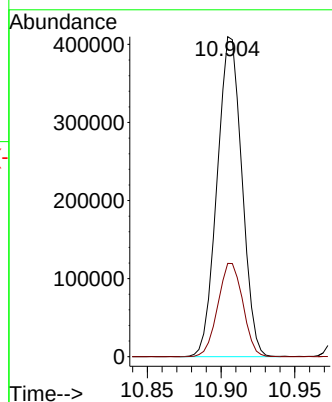
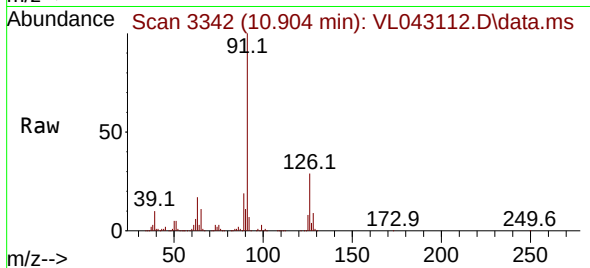




#71
2-Chlorotoluene
Concen: 8.828 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

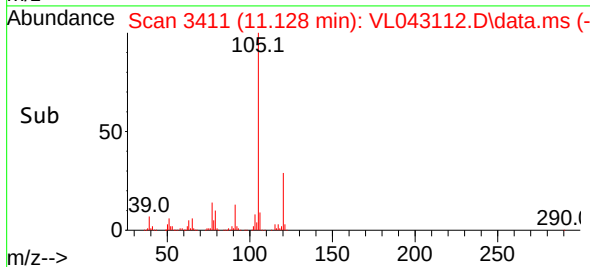
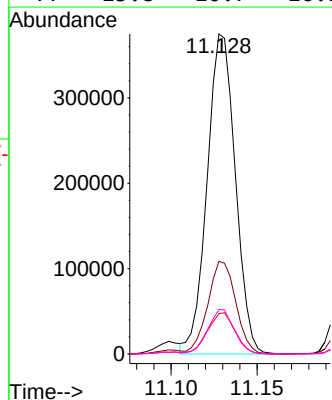
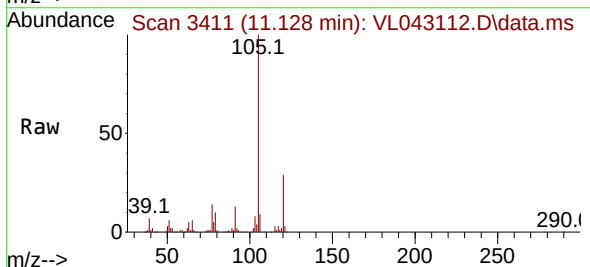
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

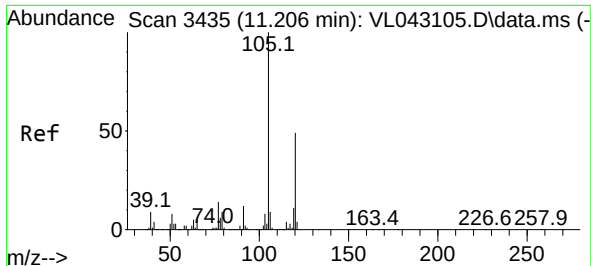
Tgt Ion: 91 Resp: 479799
Ion Ratio Lower Upper
91 100
126 29.3 12.0 48.0



#72
4-Ethyltoluene
Concen: 8.807 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 427034
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 13.1 10.0 15.0
77 13.8 10.7 16.1

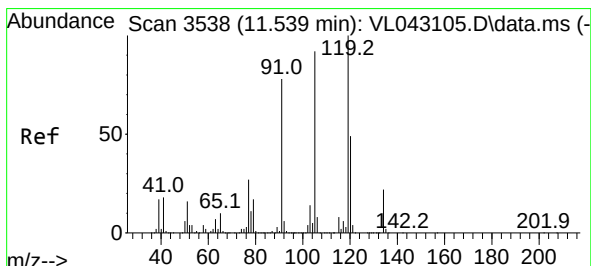
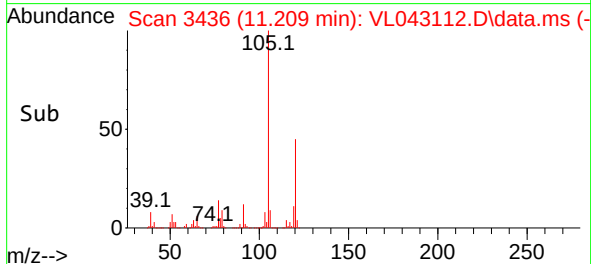
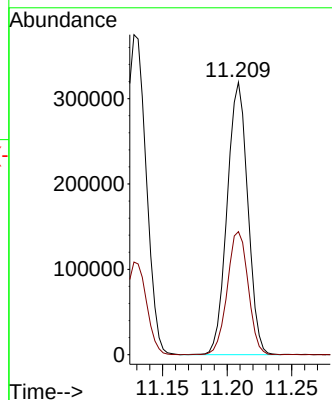
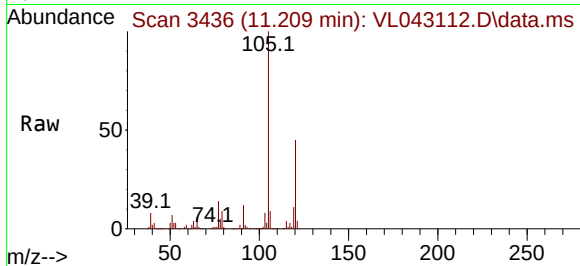




#73
1,3,5-Trimethylbenzene
Concen: 8.874 ppbv
RT: 11.209 min Scan# 3435
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

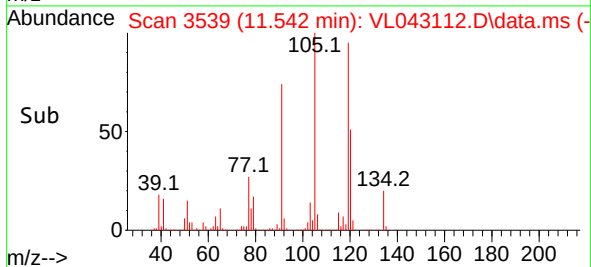
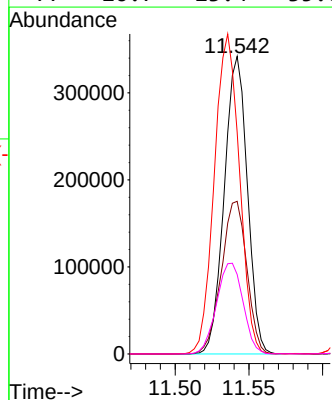
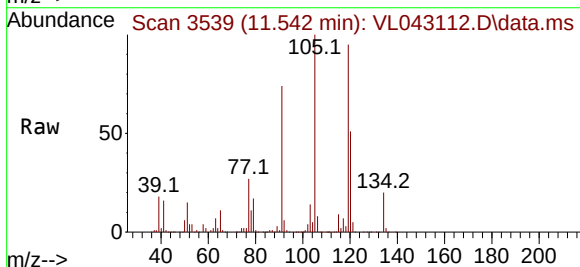
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

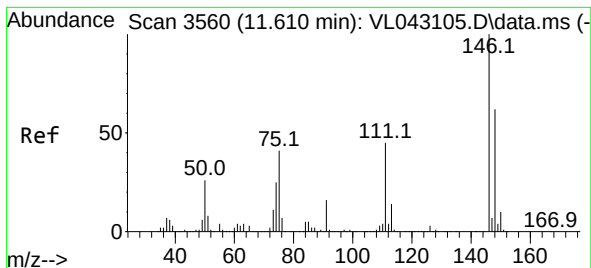
Tgt Ion:105 Resp: 354875
Ion Ratio Lower Upper
105 100
120 45.2 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 8.324 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506
Ion Ratio Lower Upper
105 100
120 51.3 42.8 64.2
91 74.4 68.3 102.5
77 26.7 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 8.454 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_1

ClientSampleId :

ICVVL101425

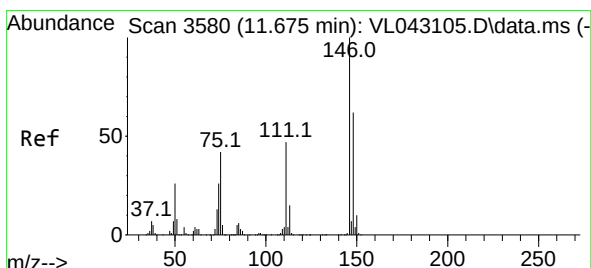
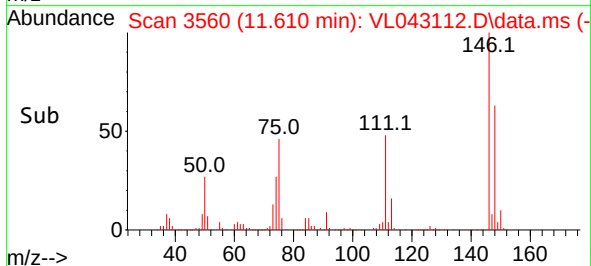
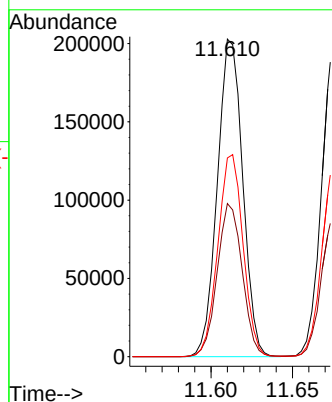
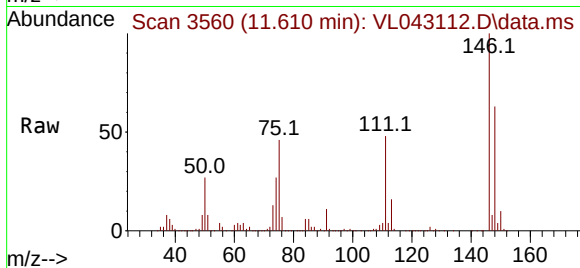
Tgt Ion:146 Resp: 219423

Ion Ratio Lower Upper

146 100

111 47.6 23.3 69.9

148 63.3 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 8.458 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

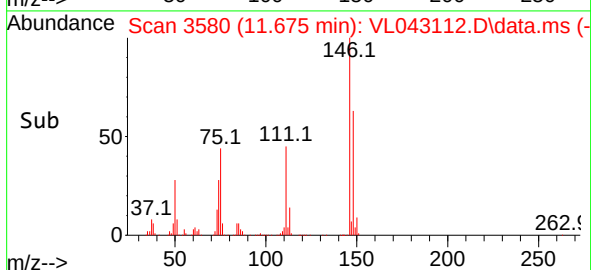
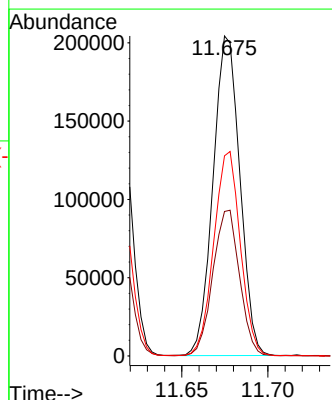
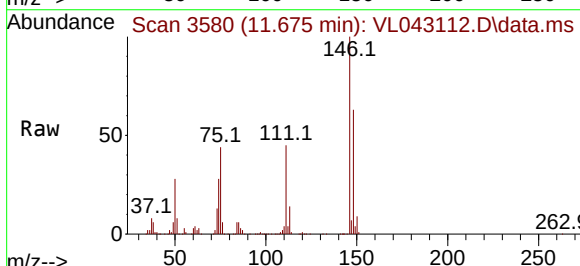
Tgt Ion:146 Resp: 221364

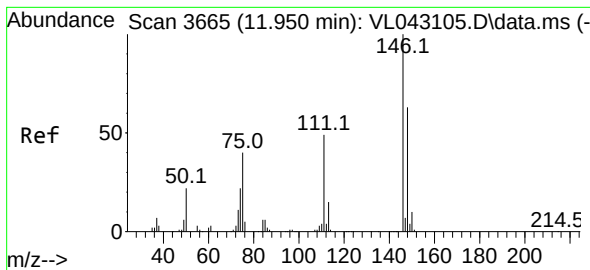
Ion Ratio Lower Upper

146 100

111 45.7 22.4 67.0

148 63.6 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 8.132 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

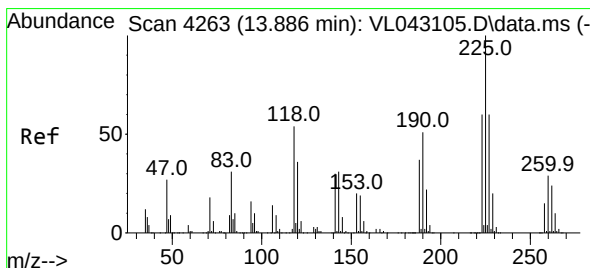
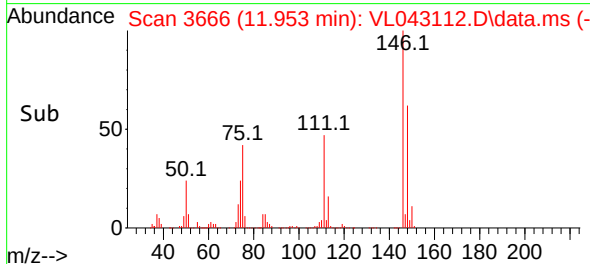
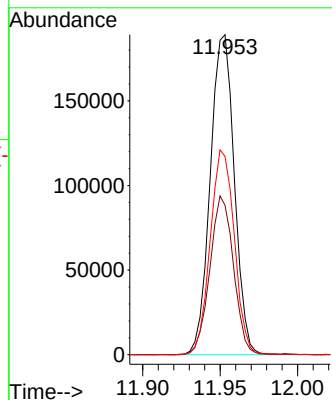
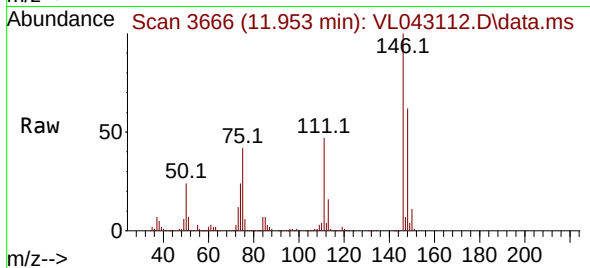
Tgt Ion:146 Resp: 204178

Ion Ratio Lower Upper

146 100

111 48.8 24.0 72.0

148 64.1 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 7.440 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

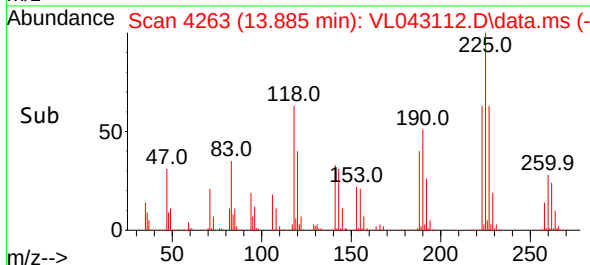
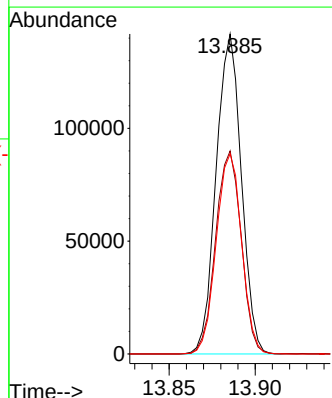
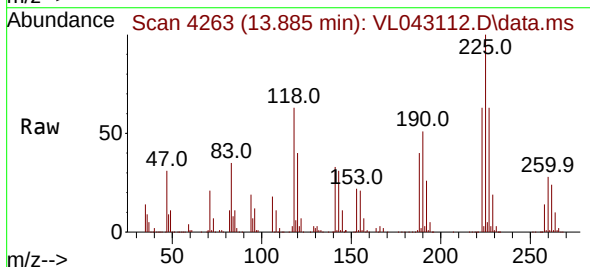
Tgt Ion:225 Resp: 144646

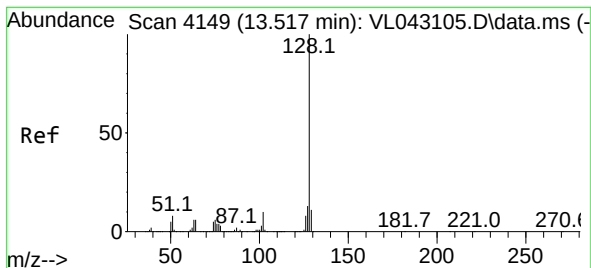
Ion Ratio Lower Upper

225 100

223 64.1 50.2 75.4

227 62.9 49.6 74.4





#79

Naphthalene

Concen: 8.334 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_1

ClientSampleId :

ICVVL101425

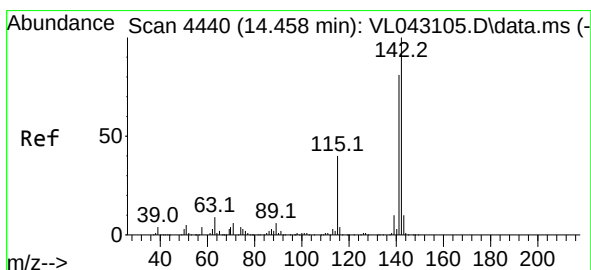
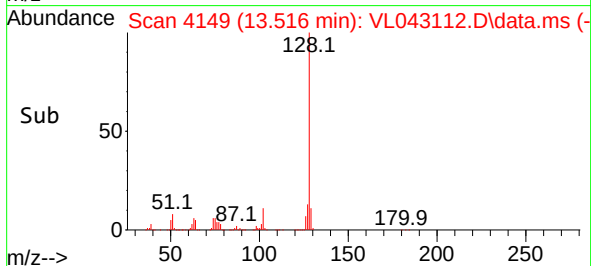
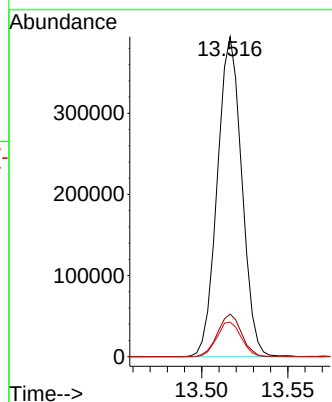
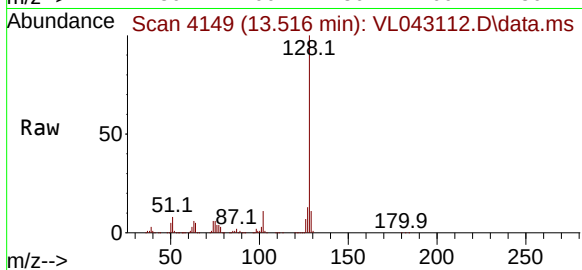
Tgt Ion:128 Resp: 389814

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

129 10.8 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 10.146 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

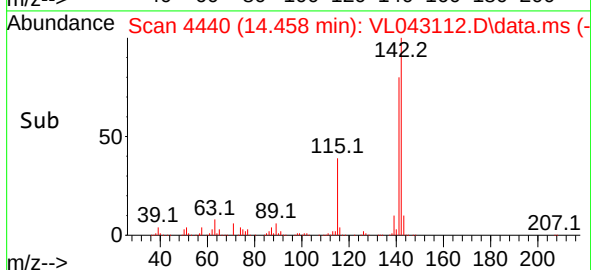
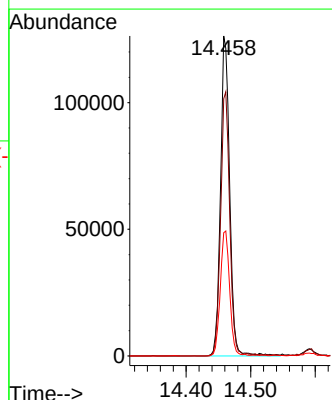
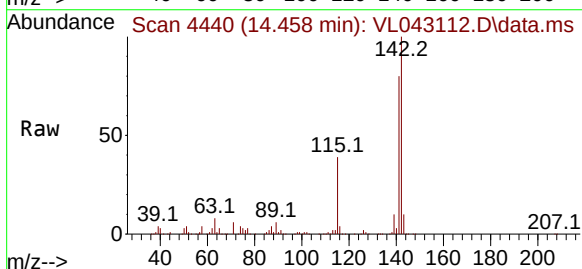
Tgt Ion:142 Resp: 123632

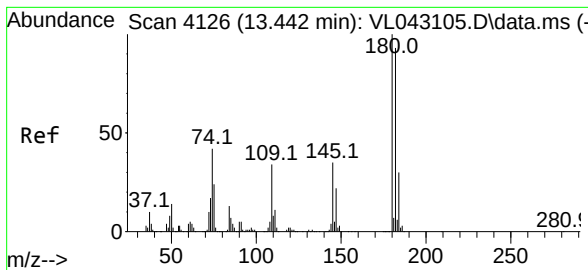
Ion Ratio Lower Upper

142 100

141 83.1 64.6 97.0

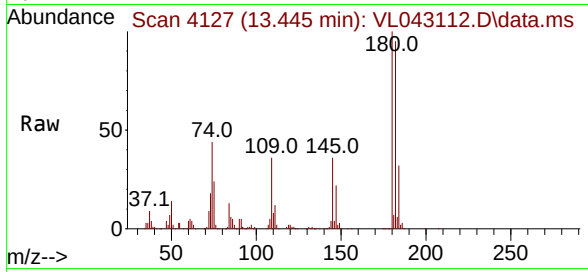
115 40.3 30.2 45.4



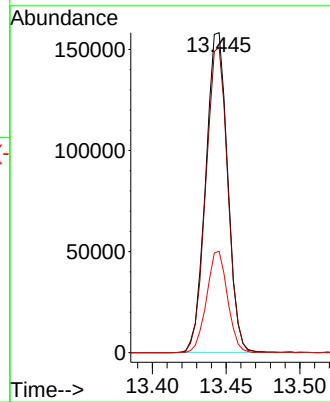
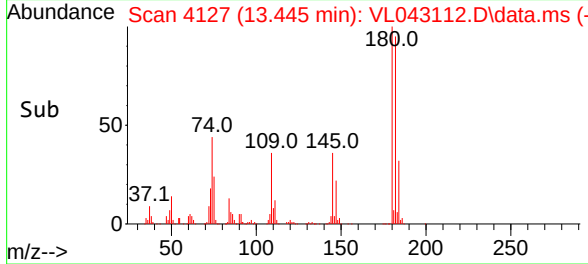


#81
 1,2,4-Trichlorobenzene
 Concen: 8.373 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



Tgt Ion:	180	Resp:	162553
Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.5	113.3
184	30.4	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Nov 07 00:16:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	111679	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	299829	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	246332	10.570	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	171973	10.832	ppbv	97
3) Chlorodifluoromethane	1.479	51	173652	10.109	ppbv	96
4) Chloromethane	1.534	50	57078	9.075	ppbv	97
5) Vinyl Chloride	1.583	62	57398	9.304	ppbv	98
6) Bromomethane	1.670	94	35458	10.482	ppbv	99
7) Chloroethane	1.706	64	23010	9.123	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	137989	10.753	ppbv	91
9) Propene	1.486	41	63768	8.370	ppbv	99
10) Heptane	4.985	43	188172	8.579	ppbv	97
11) Trichlorofluoromethane	1.881	101	185190	11.925	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	144020	11.519	ppbv	99
13) Ethanol	1.722	45	20822	7.389	ppbv	98
14) Bromoethene	1.784	108	49929	10.750	ppbv	99
15) Acetone	1.835	43	136553	9.072	ppbv	100
16) 1,3-Butadiene	1.612	39	63019	8.785	ppbv	99
17) tert-Butyl alcohol	2.043	59	204329	9.889	ppbv	100
18) 1,1-Dichloroethene	2.036	96	60122	11.030	ppbv	93
19) Isopropyl Alcohol	1.887	45	81900	8.736	ppbv	93
20) Methylene Chloride	2.065	84	52206	8.774	ppbv	96
21) Allyl Chloride	2.098	41	103255	9.309	ppbv	92
22) trans-1,2-Dichloroethene	2.344	96	69627	10.686	ppbv	96
23) Vinyl Acetate	2.463	43	236500	10.726	ppbv	98
24) 1,1-Dichloroethane	2.412	63	132624	10.535	ppbv	99
25) Ethyl Acetate	2.836	43	352821	9.452	ppbv	99
26) Hexane	2.829	57	163545	9.508	ppbv	97
27) Carbon Disulfide	2.153	76	168378	10.684	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	79492	10.158	ppbv	94
29) Chloroform	2.852	83	272134	10.919	ppbv	100
30) Cyclohexane	3.862	84	140232	9.341	ppbv	93
31) cis-1,2-Dichloroethene	2.725	61	168571	10.263	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	281440	10.844	ppbv	99
34) 2-Butanone	2.557	43	235359	10.242	ppbv	98
35) Carbon Tetrachloride	3.768	117	291148	11.845	ppbv	99
36) Benzene	3.661	78	326769	10.148	ppbv	96
37) 1,2-Dichloroethane	3.221	62	213185	11.493	ppbv	98
38) Trichloroethene	4.554	130	129566	9.635	ppbv	94
39) 1,2-Dichloropropane	4.318	63	117127	9.950	ppbv	95
40) 1,4-Dioxane	4.580	88	50431	9.574	ppbv #	96
41) Tetrahydrofuran	3.056	42	119118	9.267	ppbv	97
42) Bromodichloromethane	4.496	83	291618	11.359	ppbv	100
43) Methyl Methacrylate	4.884	69	157399	9.624	ppbv	97
44) 2,2,4-Trimethylpentane	4.648	57	535251	9.853	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	168113	10.243	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043155.D
 Acq On : 06 Nov 2025 07:19
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

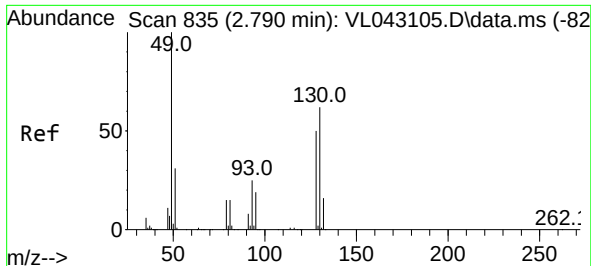
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	197738	10.086	ppbv	95
47) 1,1,2-Trichloroethane	6.584	97	130602	10.274	ppbv	94
48) Dibromochloromethane	7.389	129	238917	11.241	ppbv	98
49) Bromoform	9.487	173	206162	11.933	ppbv	98
50) 4-Methyl-2-Pentanone	5.748	43	295948	9.331	ppbv	100
51) 2-Hexanone	7.435	43	225625	9.485	ppbv #	98
52) Tetrachloroethene	8.231	164	120713	10.396	ppbv	98
53) Toluene	6.936	91	374714	9.805	ppbv	98
54) 1,2-Dibromoethane	7.655	107	205679	10.330	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	216010	11.429	ppbv	97
57) Chlorobenzene	8.924	112	286894	10.228	ppbv	100
58) Ethyl Benzene	9.357	91	527991	10.261	ppbv	100
59) m/p-Xylene	9.535	91	474002	11.549	ppbv #	29
60) o-Xylene	9.966	91	428248	10.565	ppbv	98
61) Styrene	9.872	104	180052	9.839	ppbv	99
62) Isopropylbenzene	10.542	105	773742	10.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	273835	10.089	ppbv	99
64) n-propylbenzene	10.992	120	202414	10.438	ppbv	96
65) tert-Butylbenzene	11.532	119	664024	10.266	ppbv	97
66) Benzyl Chloride	11.620	91	66651	9.258	ppbv	98
67) sec-Butylbenzene	11.769	105	948023	10.327	ppbv	99
69) p-Isopropyltoluene	11.927	119	798570	10.237	ppbv	98
70) n-Butylbenzene	12.283	91	800217	10.410	ppbv	99
71) 2-Chlorotoluene	10.901	91	584421	10.461	ppbv	99
72) 4-Ethyltoluene	11.128	105	532971	10.693	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	438651	10.671	ppbv	93
74) 1,2,4-Trimethylbenzene	11.539	105	479281	10.419	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	291949	10.943	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	292491	10.872	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	275403	10.670	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	208179	10.417	ppbv	99
79) Naphthalene	13.516	128	486229	10.113	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	137059	10.942	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	214527	10.750	ppbv	98

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

Quant Time: Nov 07 00:16:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
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QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

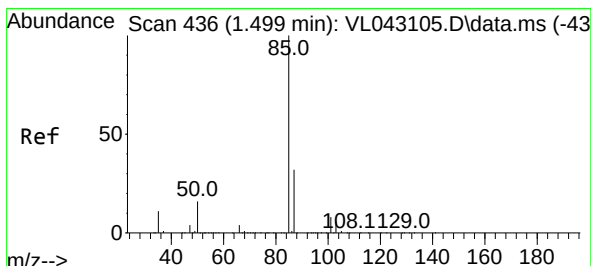
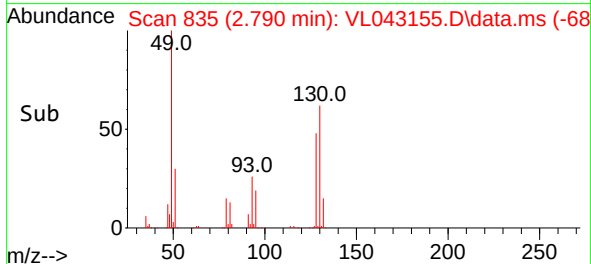
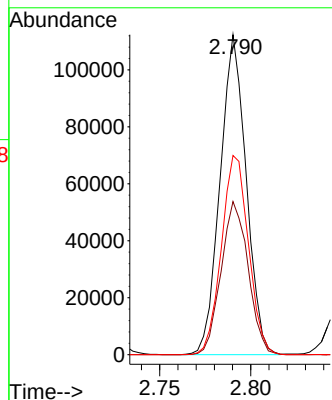
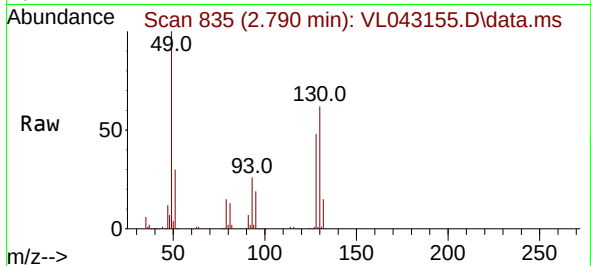




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

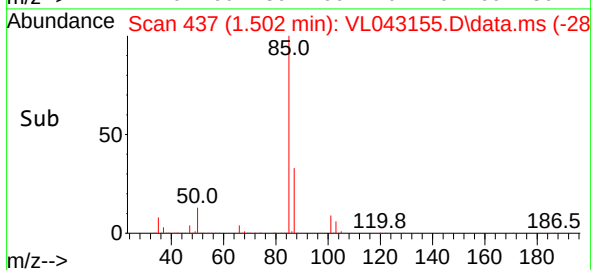
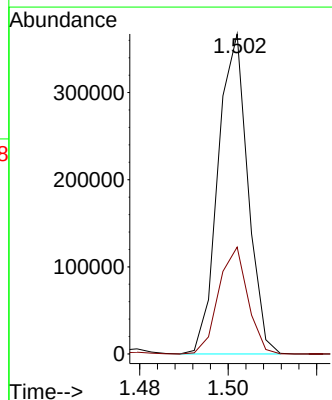
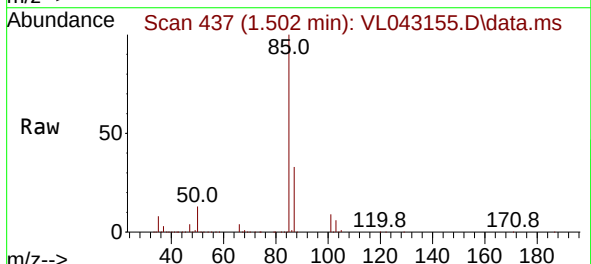
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ClientSampleId :
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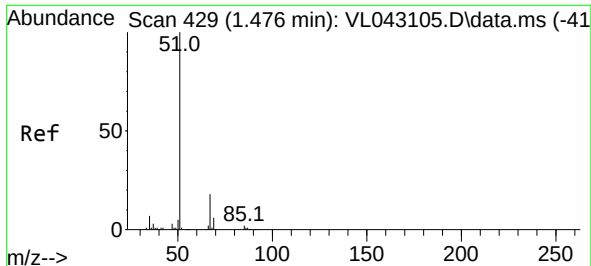
Tgt Ion: 49 Resp: 111679
Ion Ratio Lower Upper
49 100
128 49.7 24.4 73.4
130 64.6 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 10.832 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 85 Resp: 171973
Ion Ratio Lower Upper
85 100
87 33.4 25.3 37.9

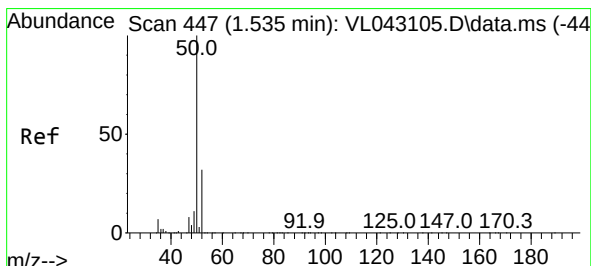
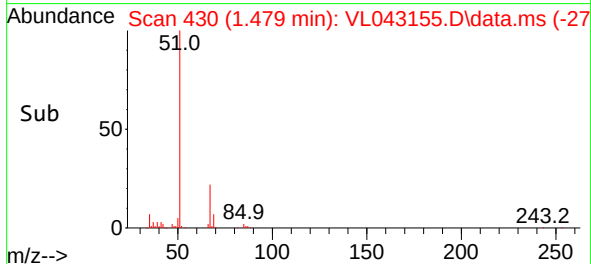
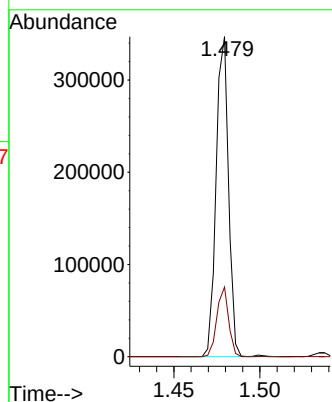
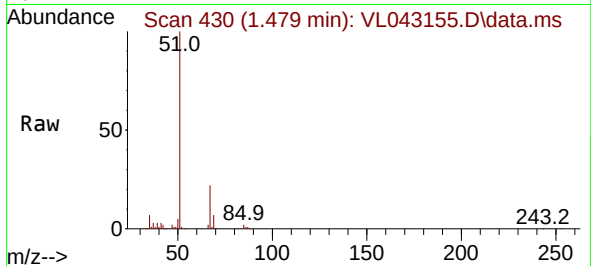




#3
Chlorodifluoromethane
Concen: 10.109 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

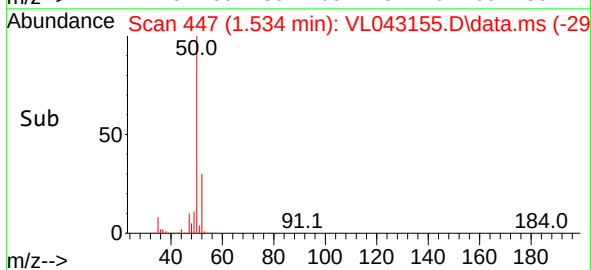
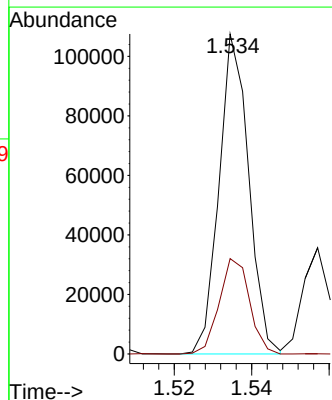
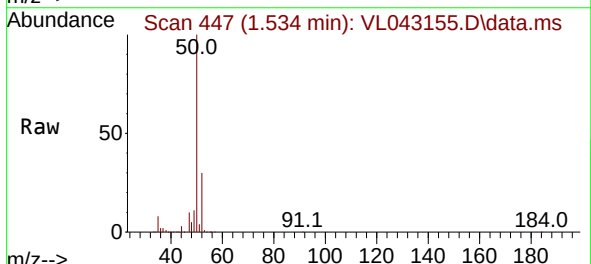
Instrument :
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ClientSampleId :
VSTDCCC010

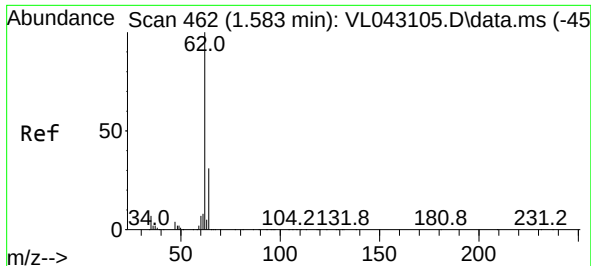
Tgt Ion: 51 Resp: 173652
Ion Ratio Lower Upper
51 100
67 20.7 15.1 22.7



#4
Chloromethane
Concen: 9.075 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 50 Resp: 57078
Ion Ratio Lower Upper
50 100
52 29.8 25.2 37.8

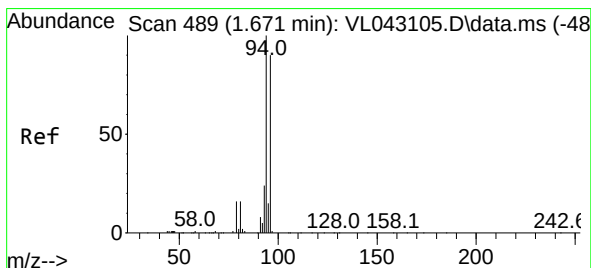
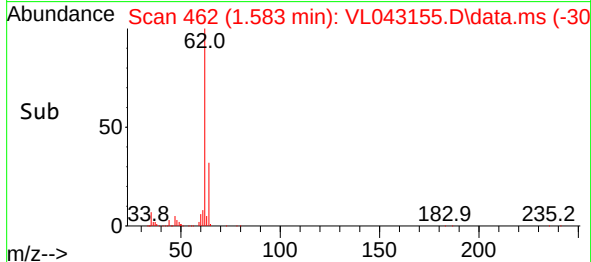
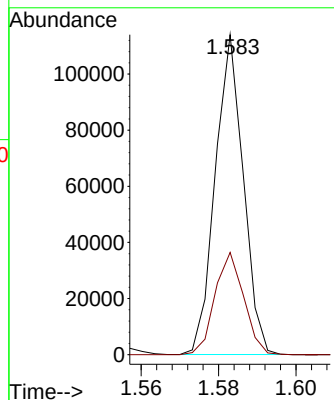
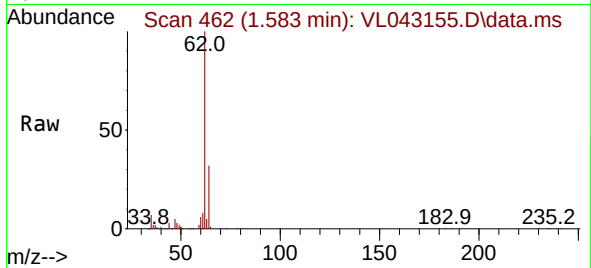




#5
 Vinyl Chloride
 Concen: 9.304 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

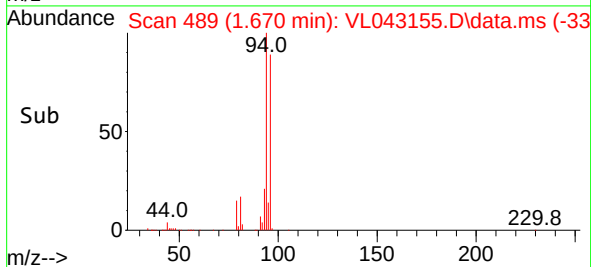
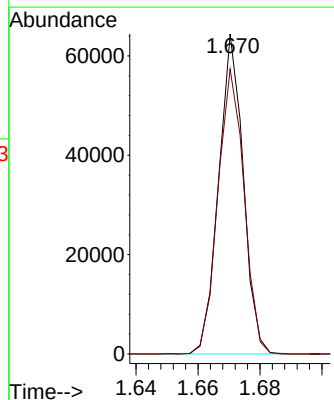
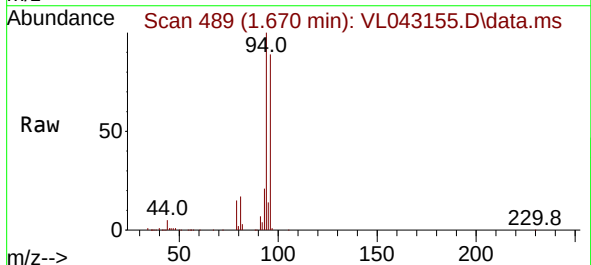
Instrument :
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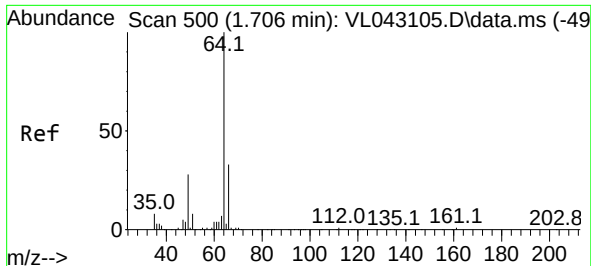
Tgt Ion: 62 Resp: 57398
 Ion Ratio Lower Upper
 62 100
 64 32.0 24.6 36.8



#6
 Bromomethane
 Concen: 10.482 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion: 94 Resp: 35458
 Ion Ratio Lower Upper
 94 100
 96 89.0 72.2 108.4

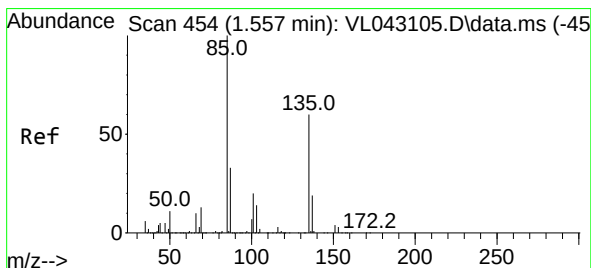
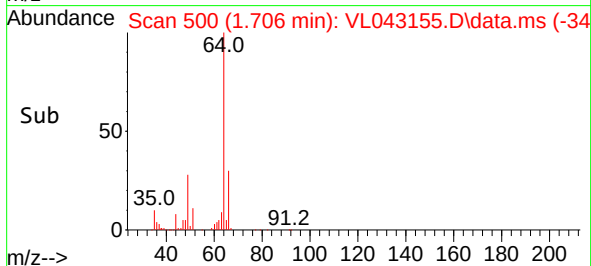
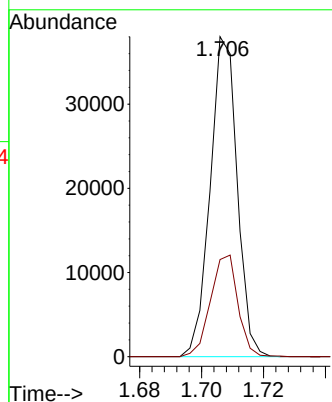
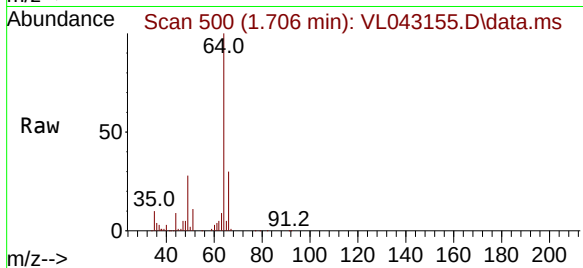




#7
Chloroethane
Concen: 9.123 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

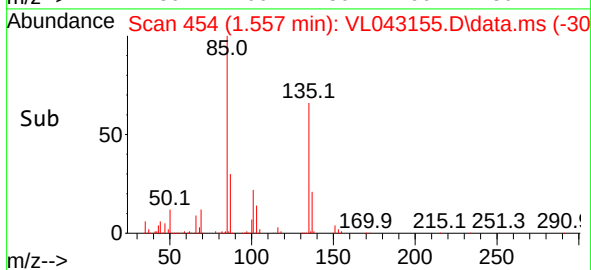
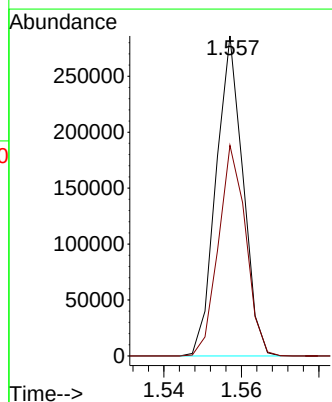
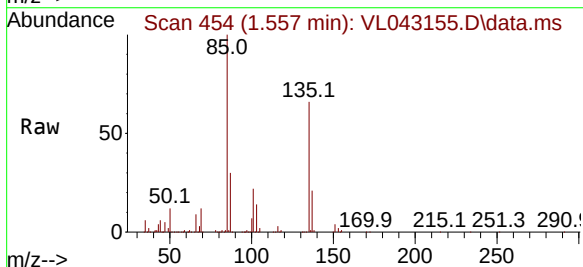
Instrument :
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ClientSampleId :
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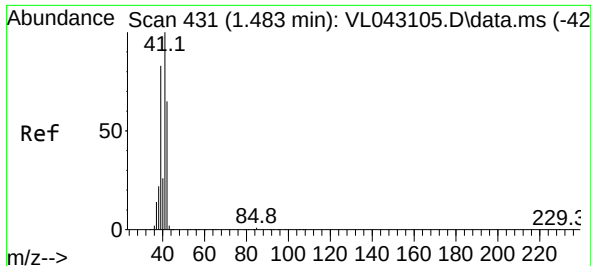
Tgt Ion: 64 Resp: 23010
Ion Ratio Lower Upper
64 100
66 30.4 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 10.753 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 85 Resp: 137989
Ion Ratio Lower Upper
85 100
135 67.0 48.2 72.4

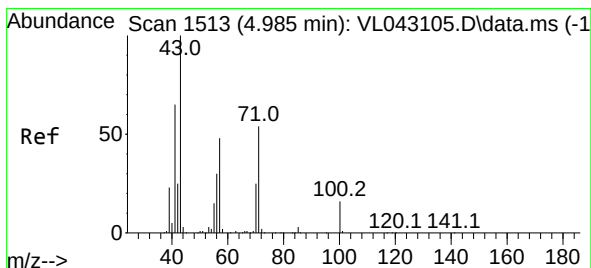
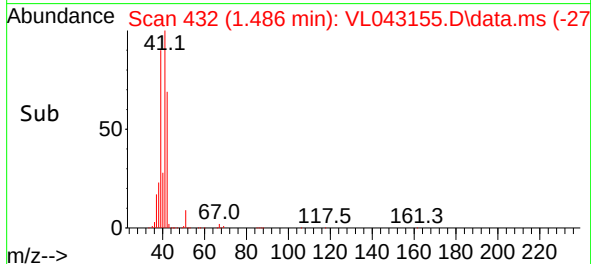
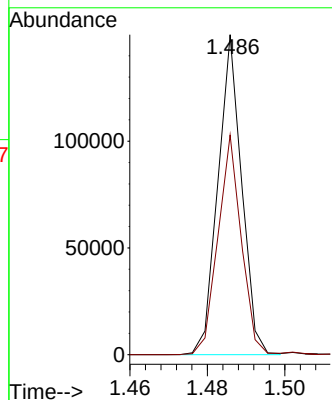
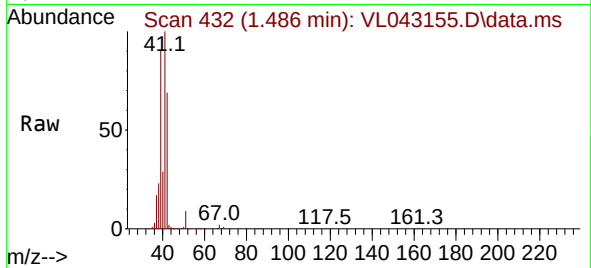




#9
Propene
Concen: 8.370 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

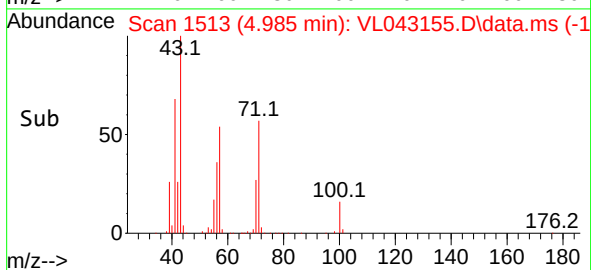
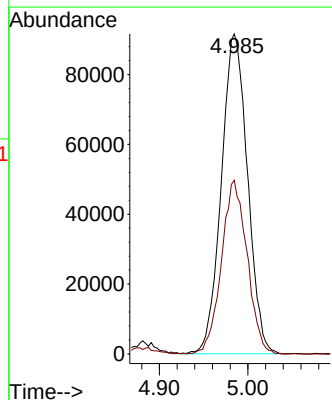
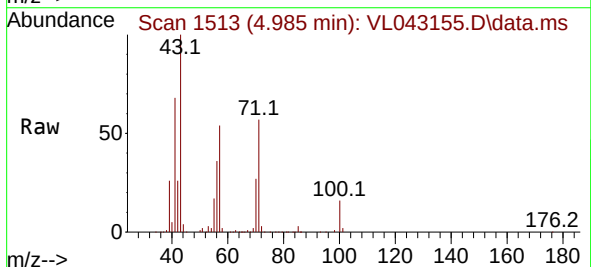
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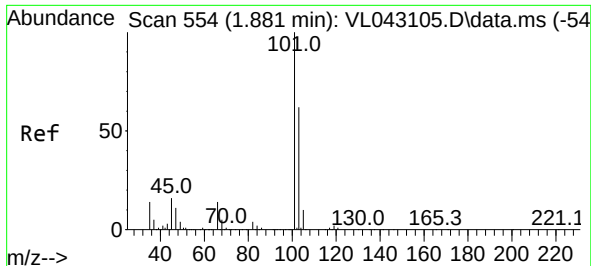
Tgt Ion: 41 Resp: 63768
Ion Ratio Lower Upper
41 100
42 68.3 55.1 82.7



#10
Heptane
Concen: 8.579 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 43 Resp: 188172
Ion Ratio Lower Upper
43 100
57 53.2 40.8 61.2

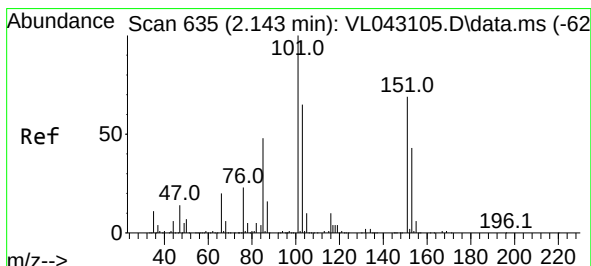
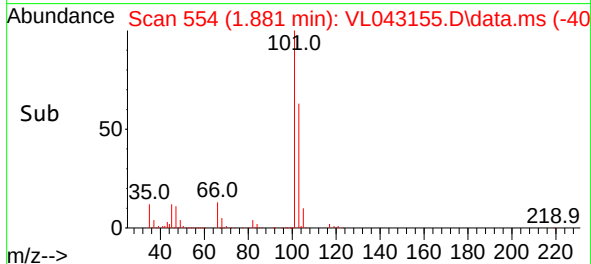
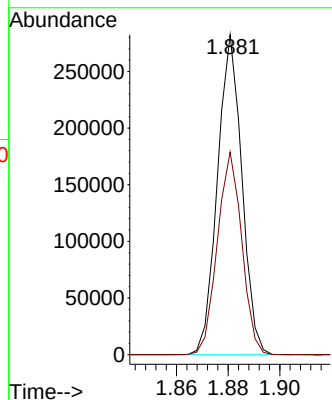
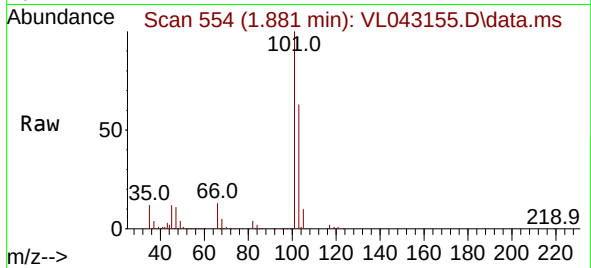




#11
 Trichlorofluoromethane
 Concen: 11.925 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

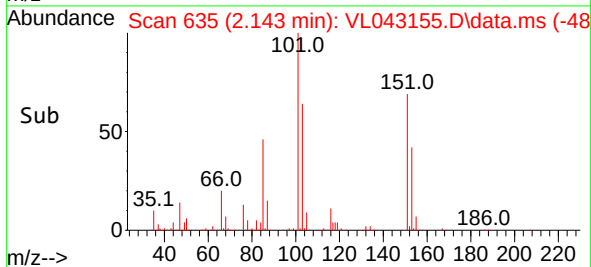
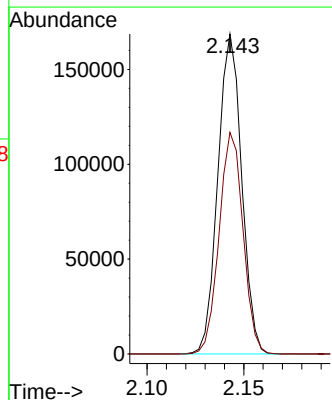
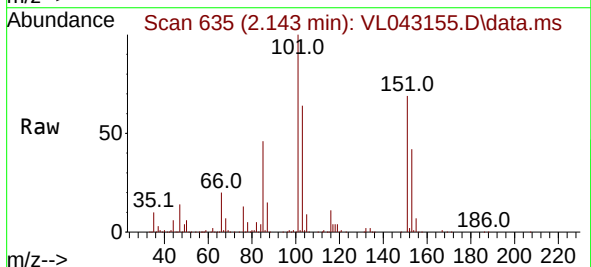
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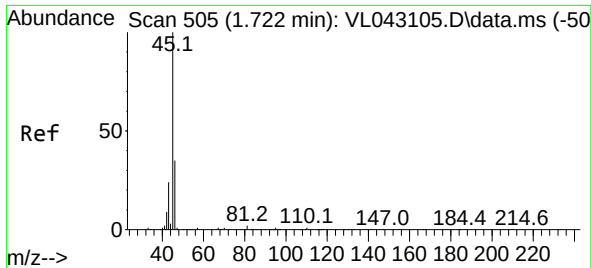
Tgt Ion:101 Resp: 185190
 Ion Ratio Lower Upper
 101 100
 103 63.3 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.519 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion:101 Resp: 144020
 Ion Ratio Lower Upper
 101 100
 151 69.5 54.7 82.1

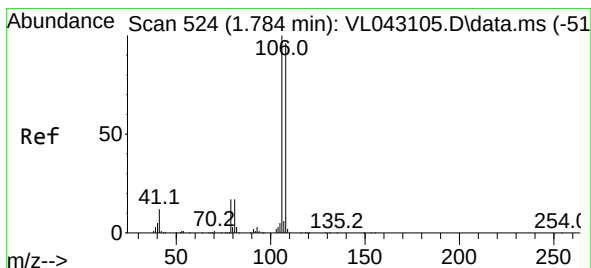
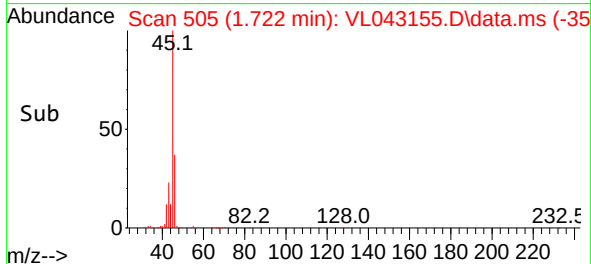
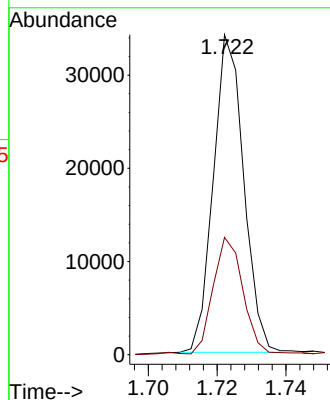
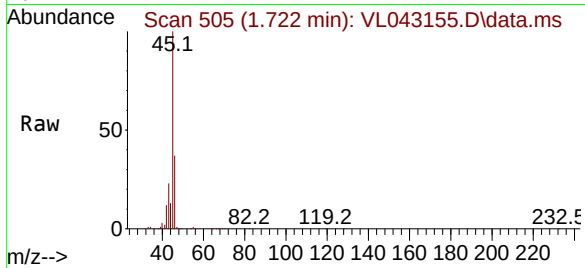




#13
Ethanol
Concen: 7.389 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

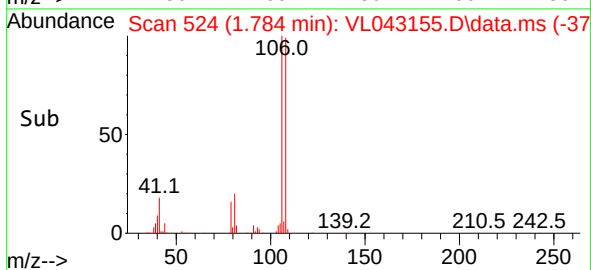
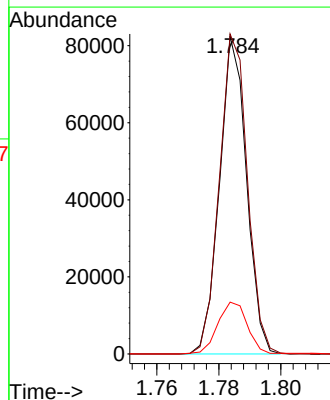
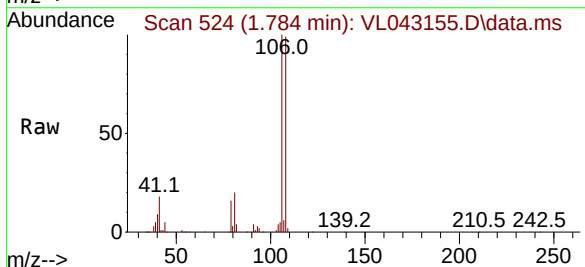
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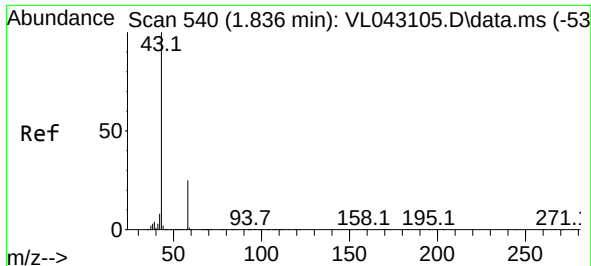
Tgt Ion: 45 Resp: 20822
Ion Ratio Lower Upper
45 100
46 38.0 14.7 58.9



#14
Bromoethene
Concen: 10.750 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 108 Resp: 49929
Ion Ratio Lower Upper
108 100
106 104.4 84.4 126.6
79 18.3 15.3 22.9

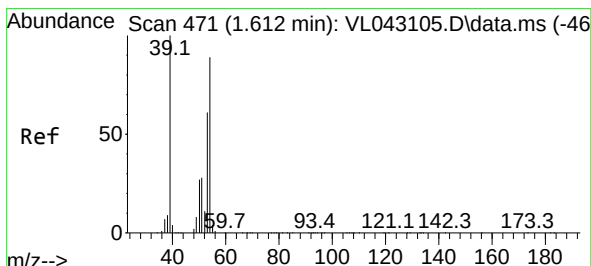
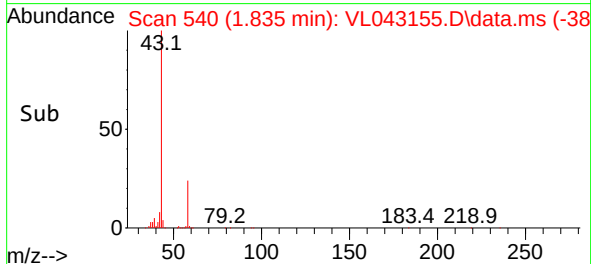
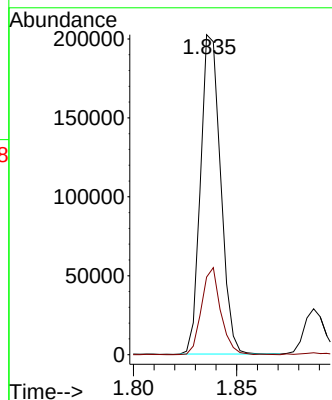
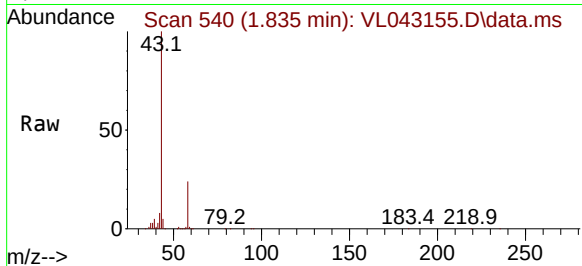




#15
Acetone
Concen: 9.072 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

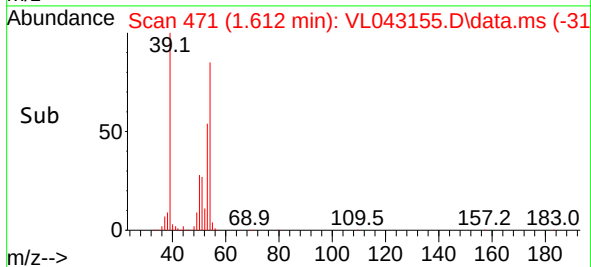
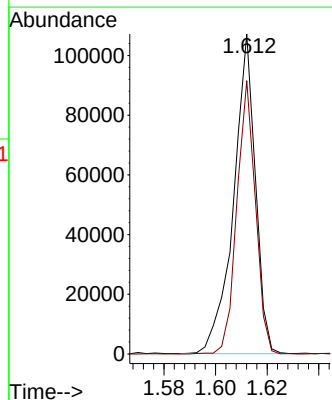
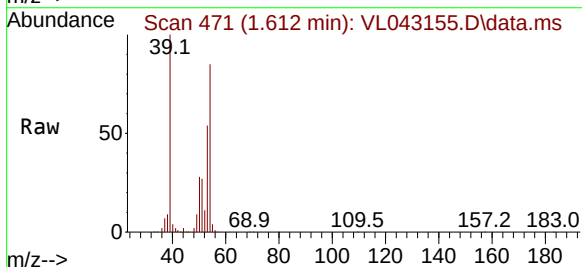
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

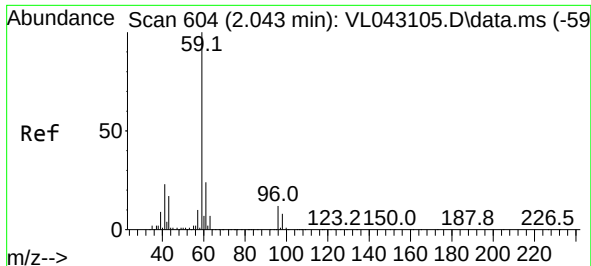
Tgt Ion: 43 Resp: 136553
Ion Ratio Lower Upper
43 100
58 26.2 20.8 31.2



#16
1,3-Butadiene
Concen: 8.785 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 39 Resp: 63019
Ion Ratio Lower Upper
39 100
54 72.9 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.889 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

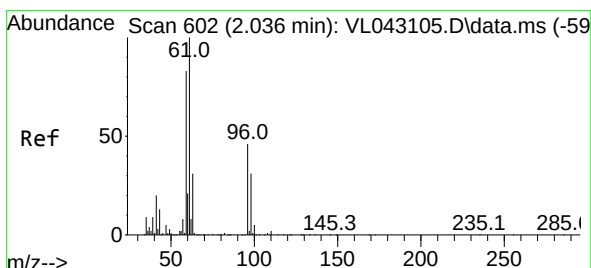
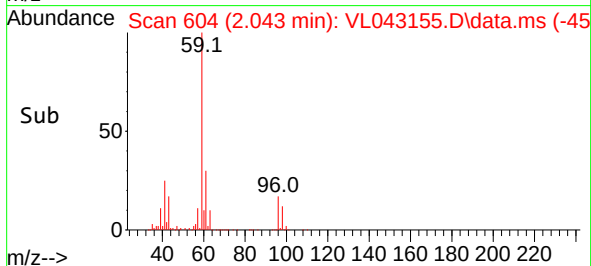
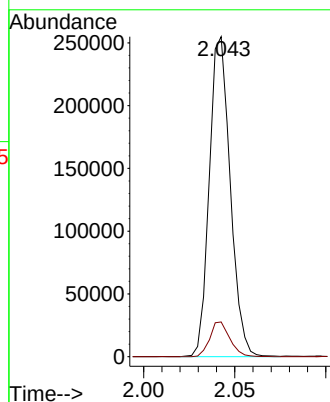
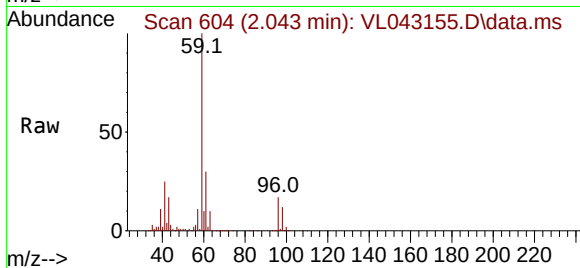
VSTDCCC010

Tgt Ion: 59 Resp: 204329

Ion Ratio Lower Upper

59 100

57 10.4 8.2 12.4



#18

1,1-Dichloroethene

Concen: 11.030 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

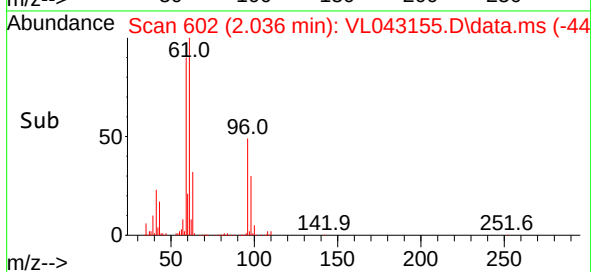
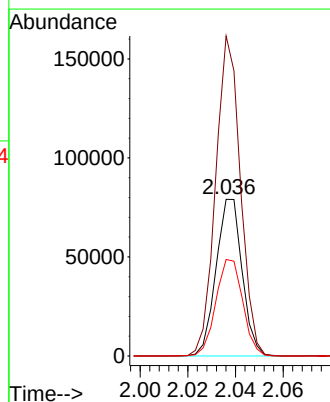
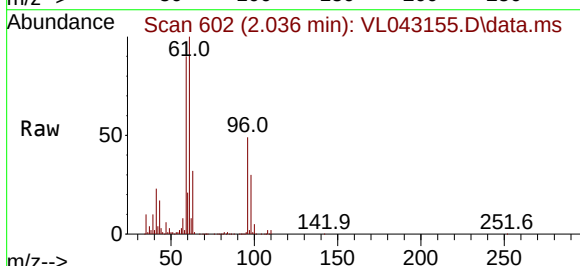
Tgt Ion: 96 Resp: 60122

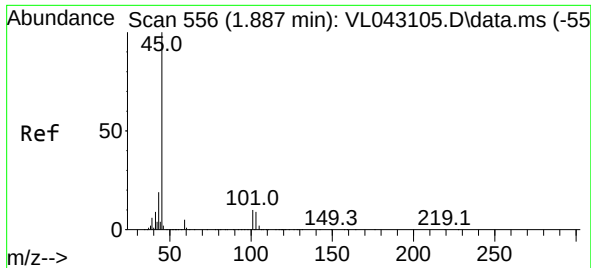
Ion Ratio Lower Upper

96 100

61 204.3 173.4 260.0

98 61.6 53.2 79.8

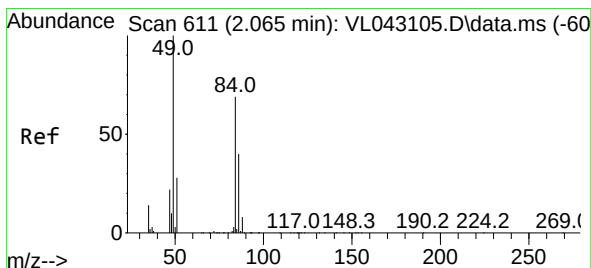
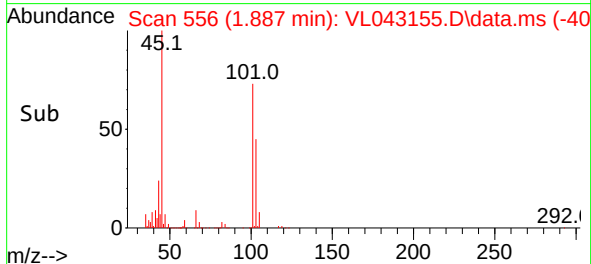
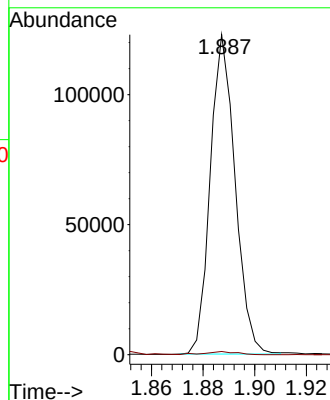
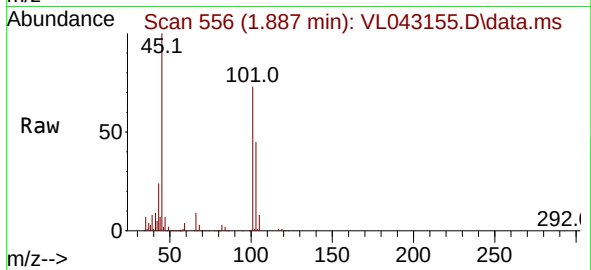




#19
Isopropyl Alcohol
Concen: 8.736 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

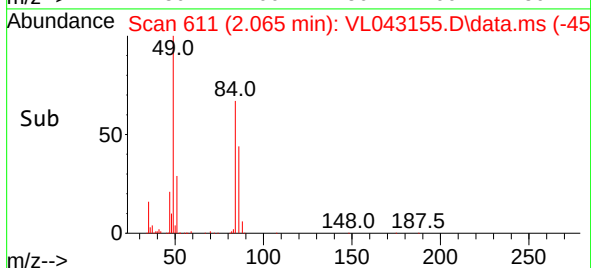
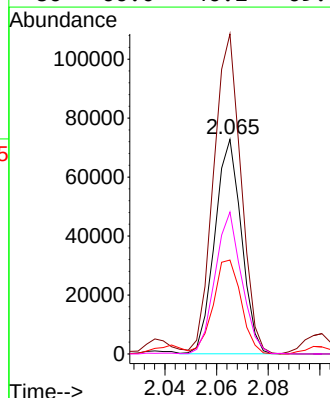
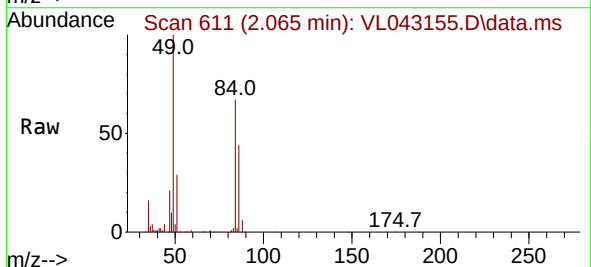
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

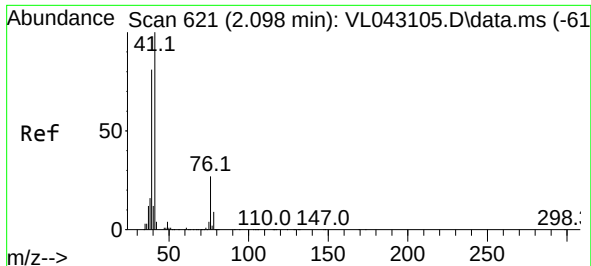
Tgt Ion: 45 Resp: 81900
Ion Ratio Lower Upper
45 100
58 43.6 31.3 46.9



#20
Methylene Chloride
Concen: 8.774 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 84 Resp: 52206
Ion Ratio Lower Upper
84 100
49 149.2 116.6 175.0
51 43.7 34.8 52.2
86 66.0 46.2 69.4

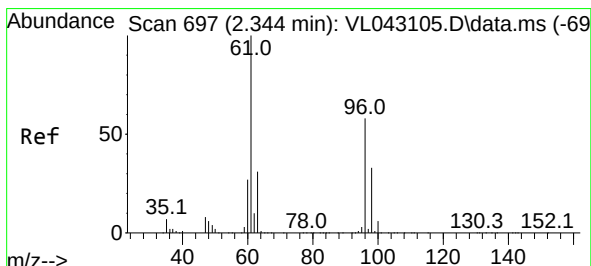
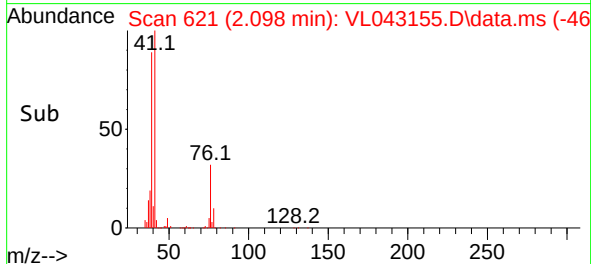
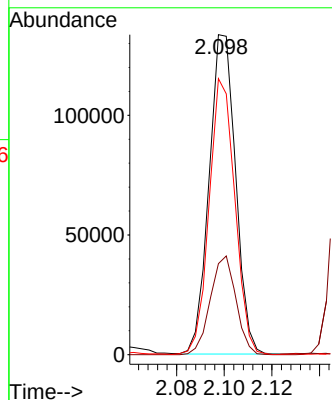
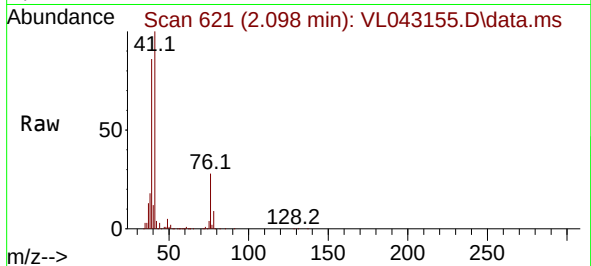




#21
Allyl Chloride
Concen: 9.309 ppbv
RT: 2.098 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

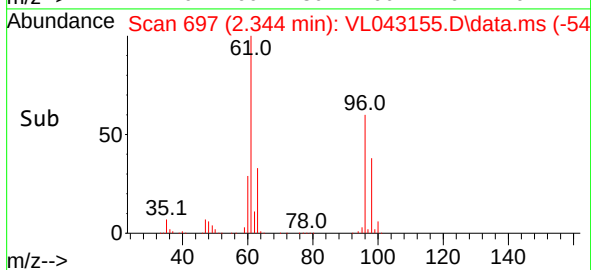
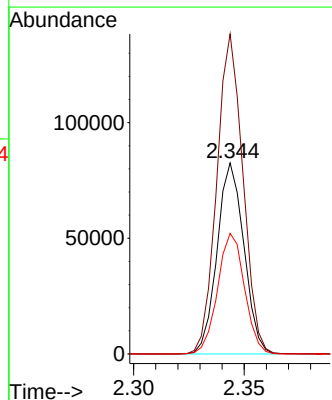
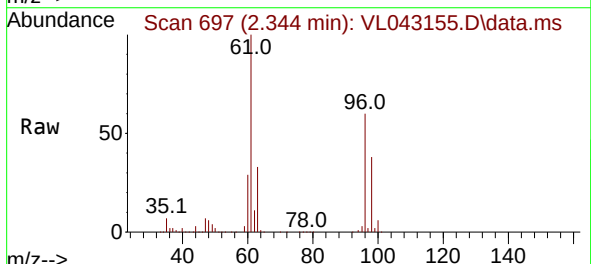
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

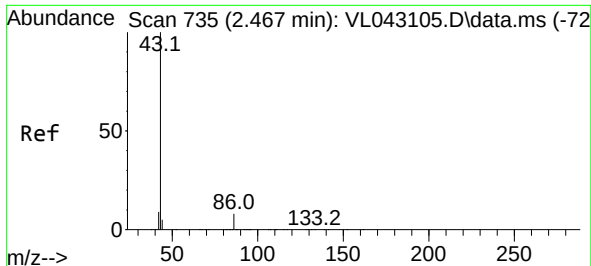
Tgt Ion: 41 Resp: 103255
Ion Ratio Lower Upper
41 100
76 29.9 21.5 32.3
39 83.3 60.8 91.2



#22
trans-1,2-Dichloroethene
Concen: 10.686 ppbv
RT: 2.344 min Scan# 697
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 96 Resp: 69627
Ion Ratio Lower Upper
96 100
61 167.5 137.0 205.6
98 63.2 45.5 68.3



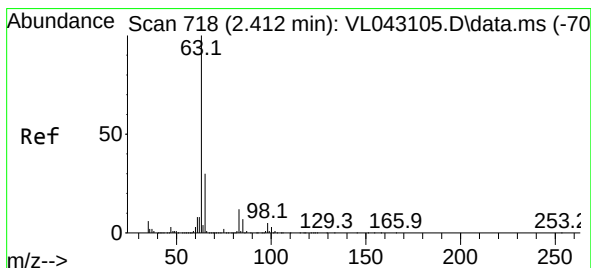
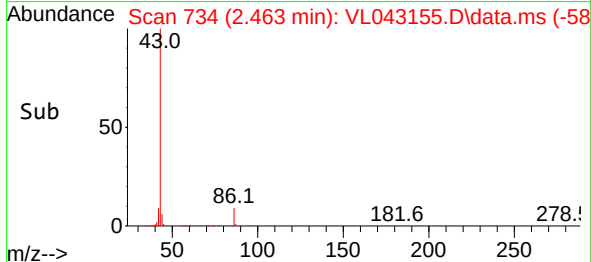
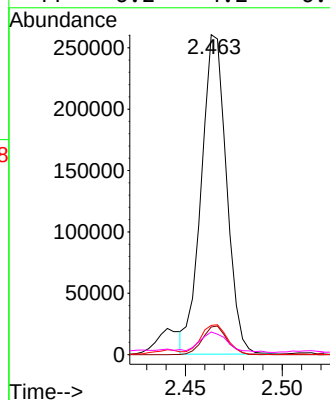
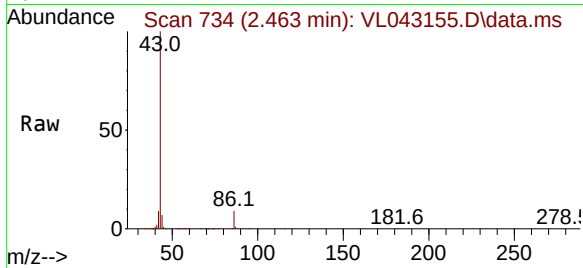


#23
 Vinyl Acetate
 Concen: 10.726 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 236500

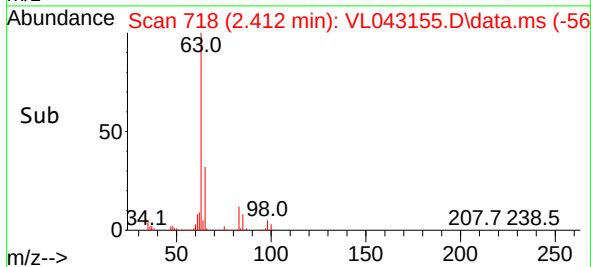
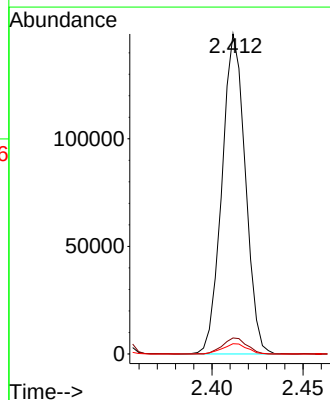
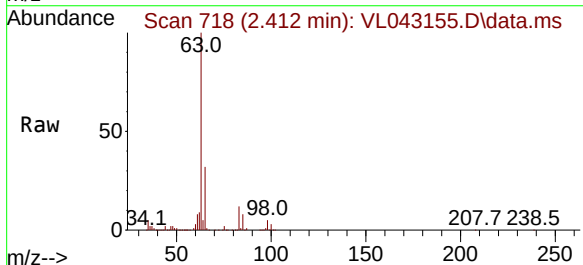
Ion	Ratio	Lower	Upper
43	100		
86	8.7	6.2	9.2
42	9.1	7.6	11.4
44	6.2	4.2	6.4

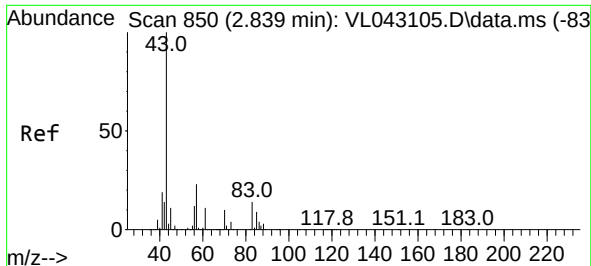


#24
 1,1-Dichloroethane
 Concen: 10.535 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion: 63 Resp: 132624

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.6	7.8
100	3.2	1.5	4.4

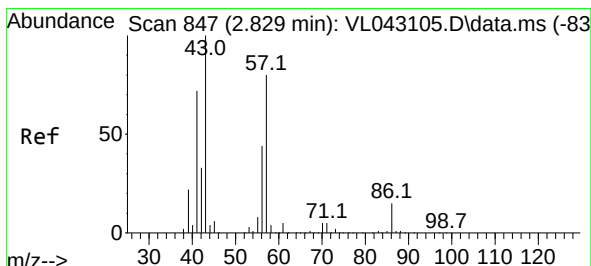
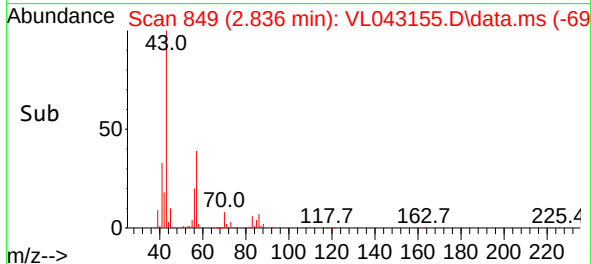
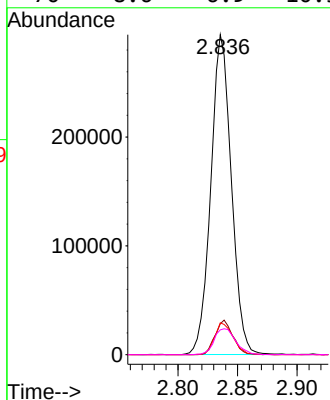
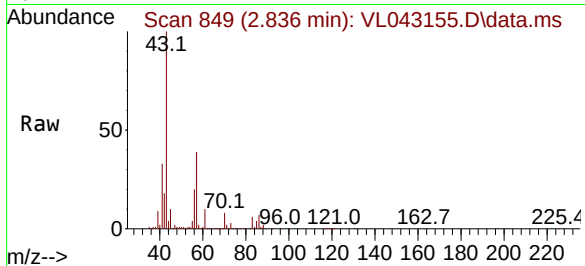




#25
Ethyl Acetate
Concen: 9.452 ppbv
RT: 2.836 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

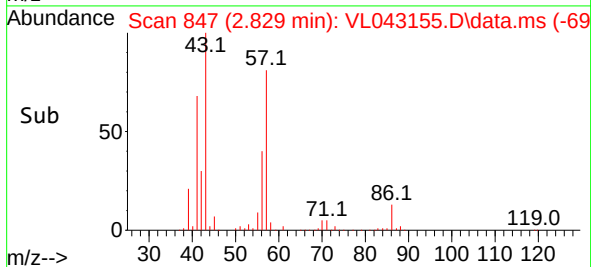
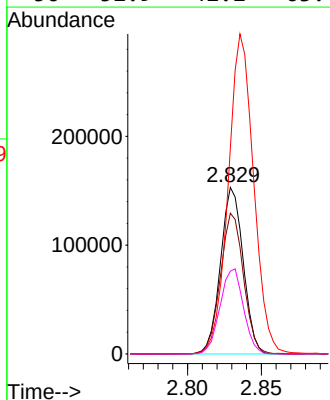
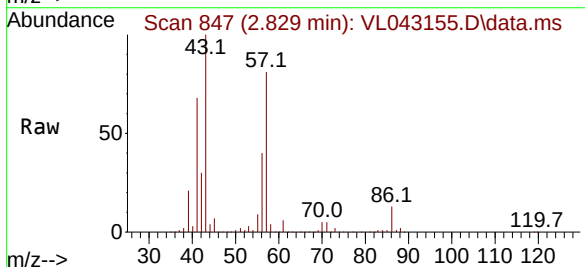
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

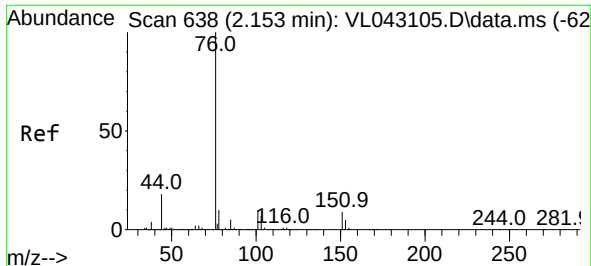
Tgt Ion: 43 Resp: 352821
Ion Ratio Lower Upper
43 100
45 9.4 7.8 11.8
61 9.0 7.0 10.6
70 8.6 6.9 10.3



#26
Hexane
Concen: 9.508 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 57 Resp: 163545
Ion Ratio Lower Upper
57 100
41 87.0 71.4 107.0
43 216.3 178.5 267.7
56 52.9 42.2 63.4

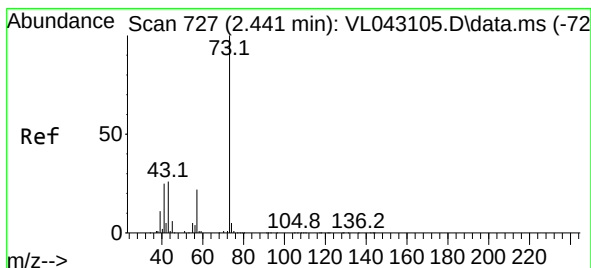
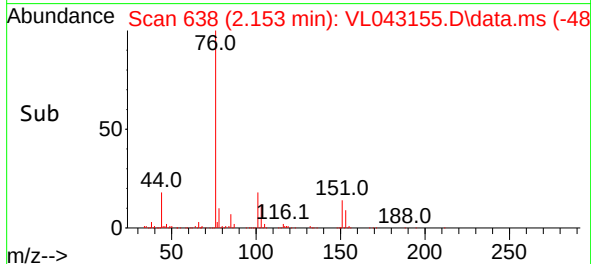
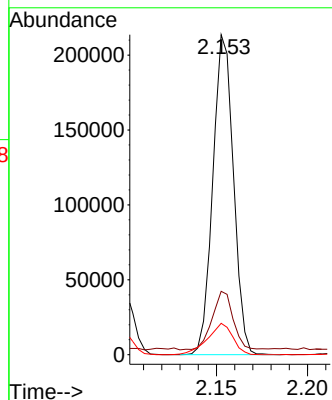
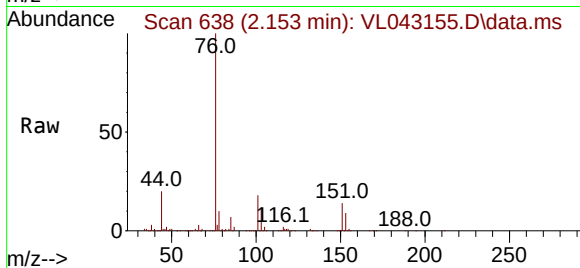




#27
Carbon Disulfide
Concen: 10.684 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

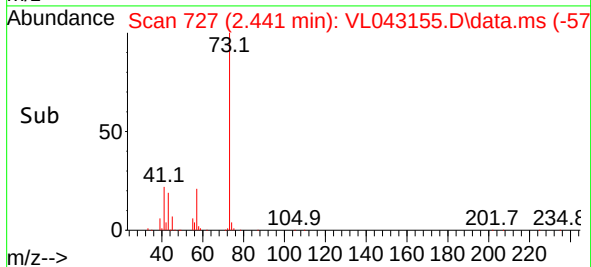
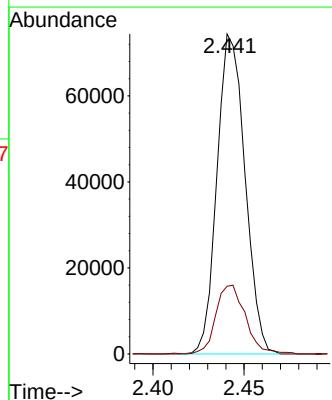
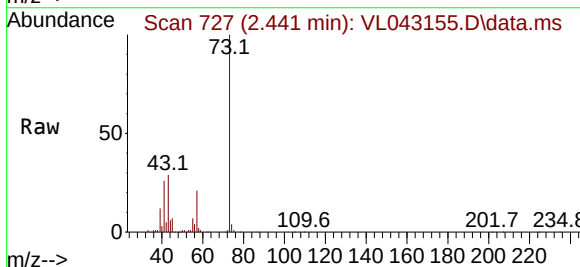
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

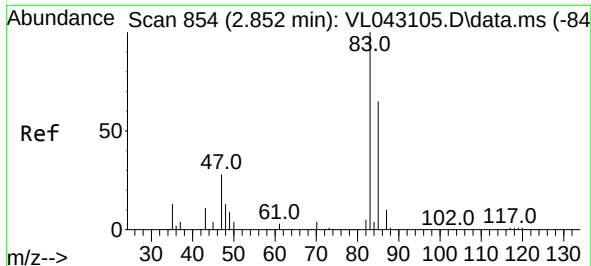
Tgt Ion: 76 Resp: 168378
Ion Ratio Lower Upper
76 100
44 19.4 16.7 25.1
78 12.0 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 10.158 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 73 Resp: 79492
Ion Ratio Lower Upper
73 100
57 22.8 20.5 30.7





#29

Chloroform

Concen: 10.919 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

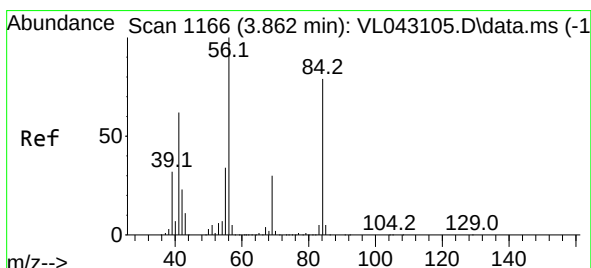
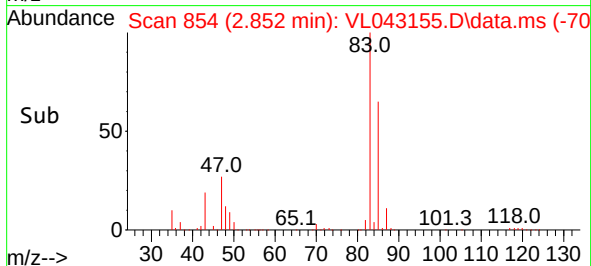
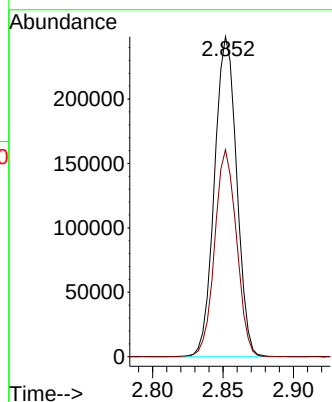
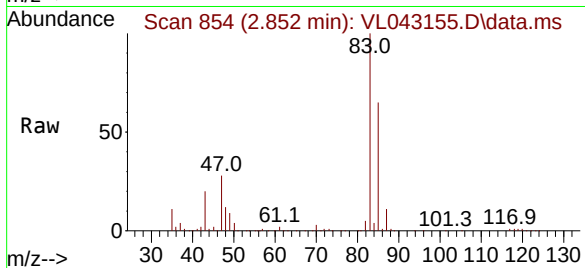
VSTDCCC010

Tgt Ion: 83 Resp: 272134

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6



#30

Cyclohexane

Concen: 9.341 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

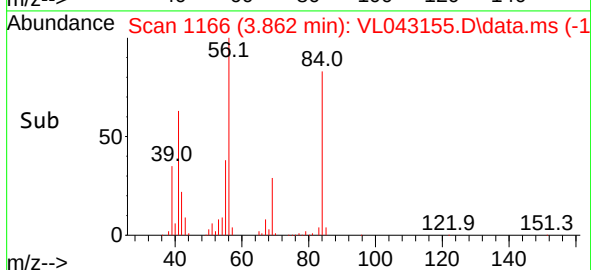
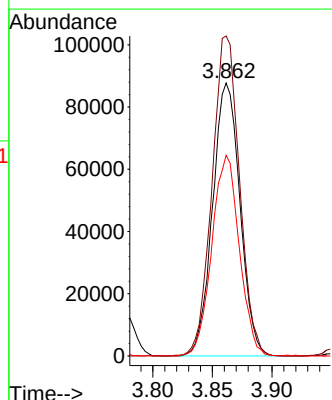
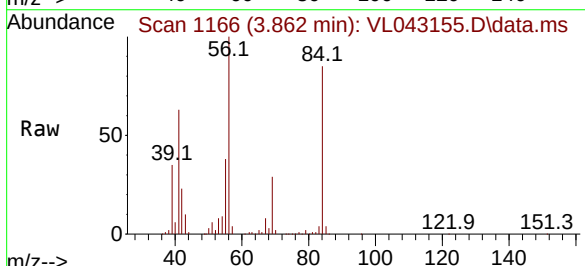
Tgt Ion: 84 Resp: 140232

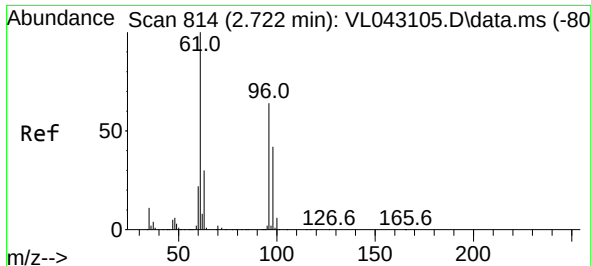
Ion Ratio Lower Upper

84 100

56 117.5 100.9 151.3

41 73.7 63.8 95.6

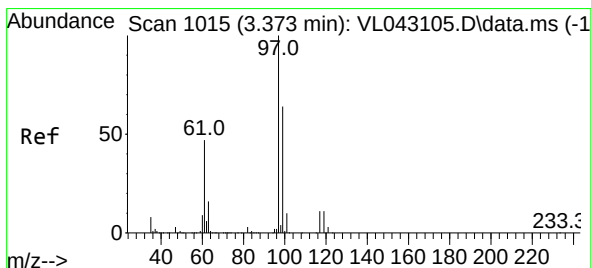
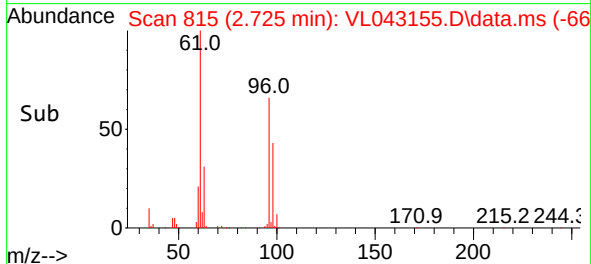
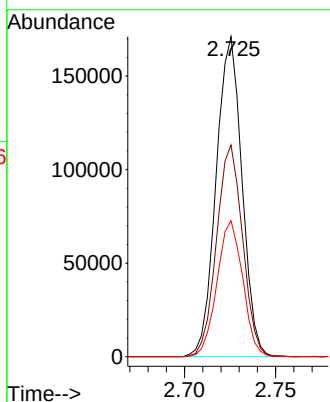
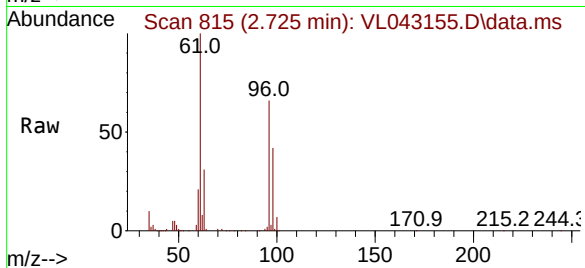




#31
 cis-1,2-Dichloroethene
 Concen: 10.263 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

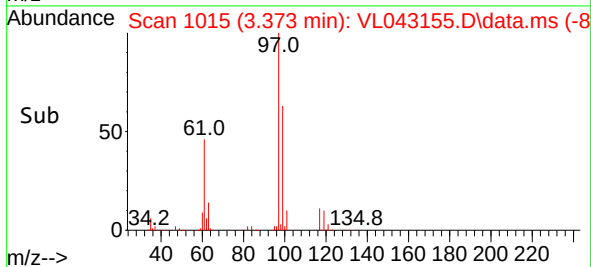
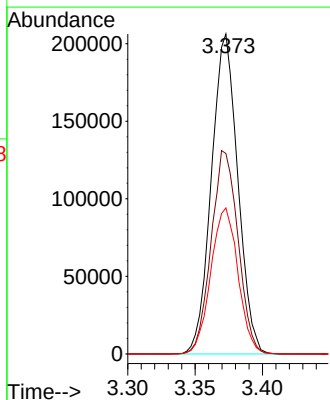
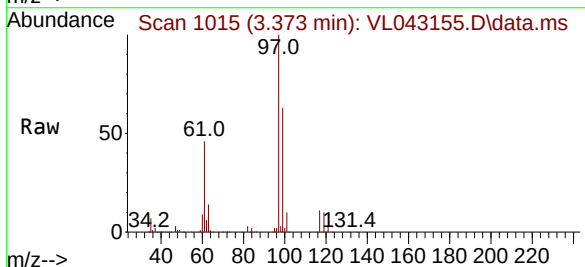
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

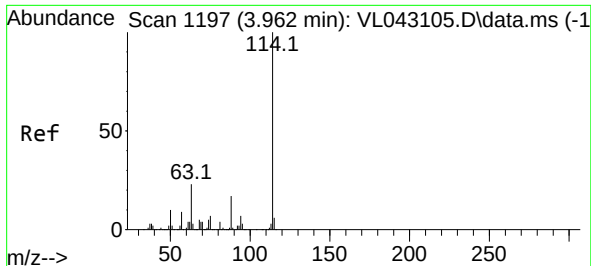
Tgt Ion: 61 Resp: 168571
 Ion Ratio Lower Upper
 61 100
 96 66.1 51.0 76.6
 98 42.5 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 10.844 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion: 97 Resp: 281440
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.3 76.9
 61 47.1 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

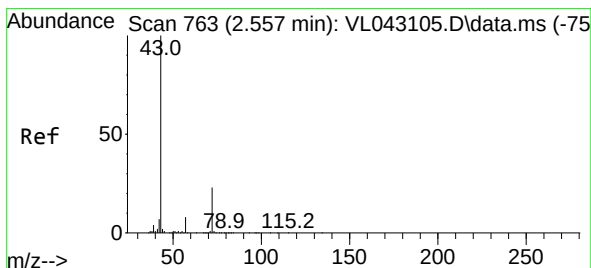
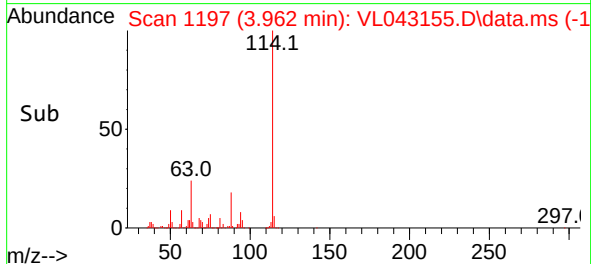
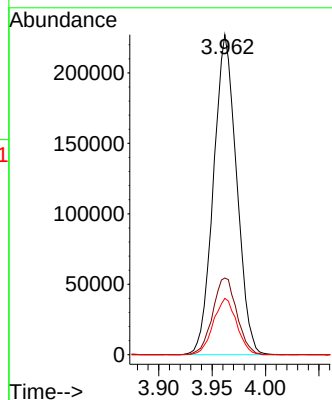
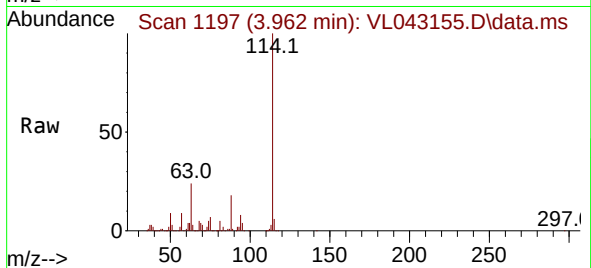
Tgt Ion:114 Resp: 341877

Ion Ratio Lower Upper

114 100

63 25.1 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 10.242 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043155.D

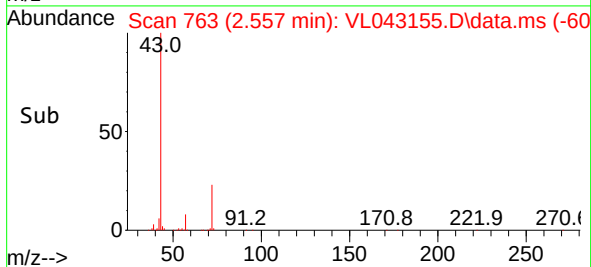
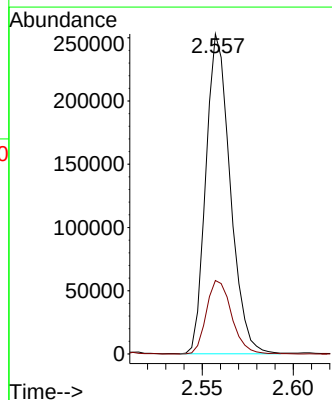
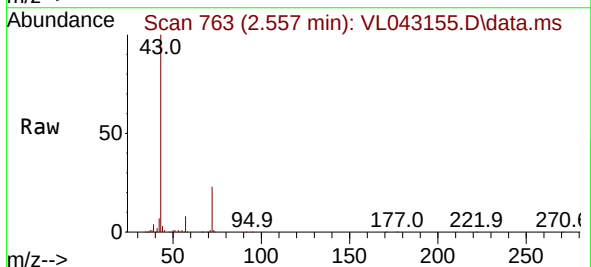
Acq: 06 Nov 2025 07:19

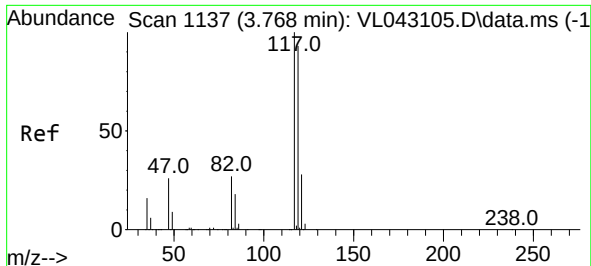
Tgt Ion: 43 Resp: 235359

Ion Ratio Lower Upper

43 100

72 23.8 18.4 27.6

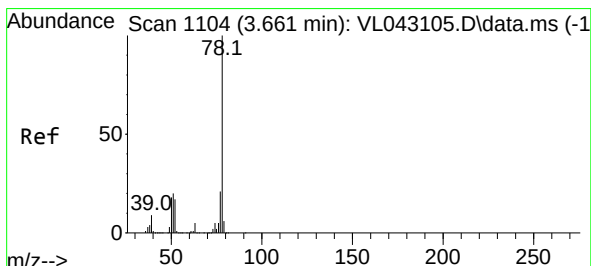
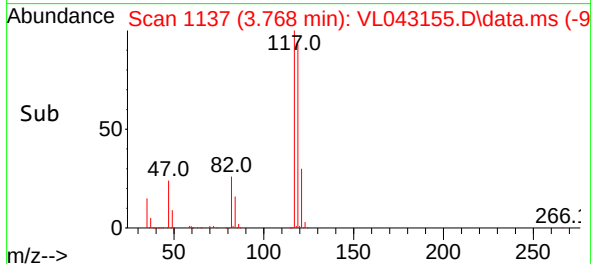
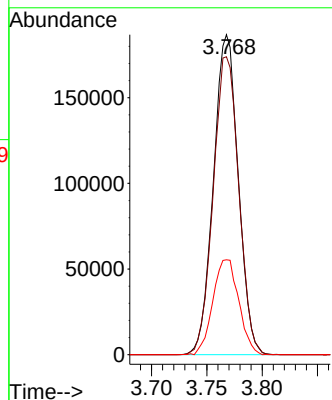
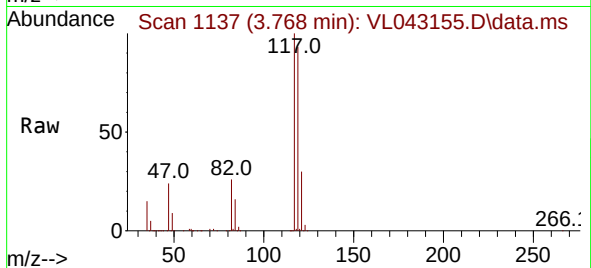




#35
Carbon Tetrachloride
Concen: 11.845 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

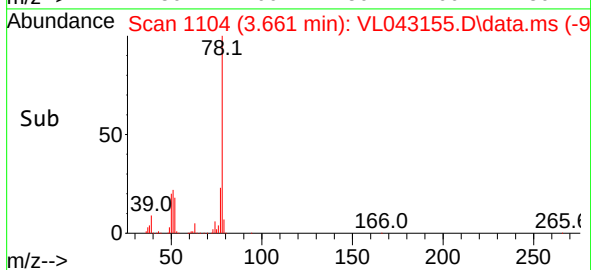
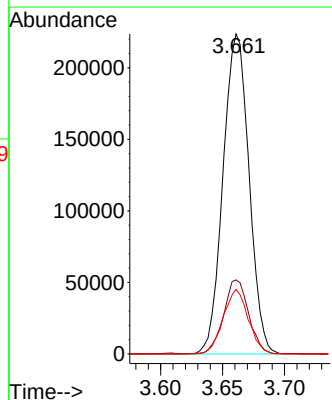
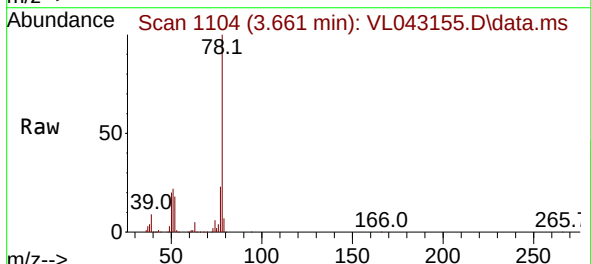
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

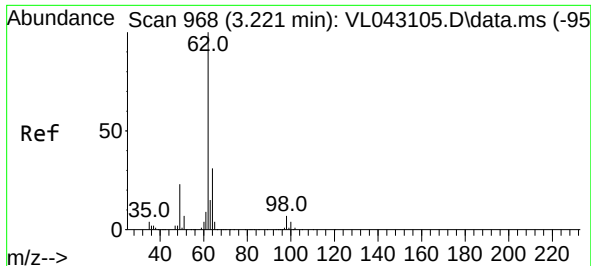
Tgt Ion:117 Resp: 291148
Ion Ratio Lower Upper
117 100
119 93.1 74.1 111.1
121 29.6 22.2 33.2



#36
Benzene
Concen: 10.148 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 78 Resp: 326769
Ion Ratio Lower Upper
78 100
77 23.0 17.0 25.6
50 20.2 14.6 22.0

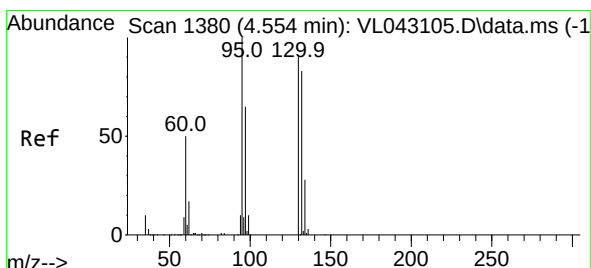
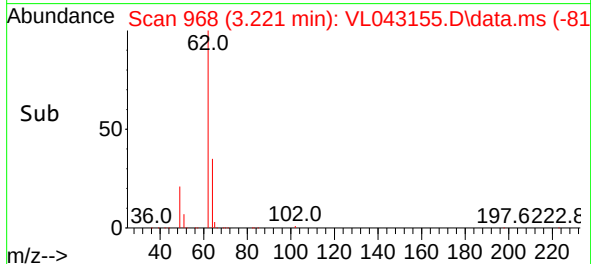
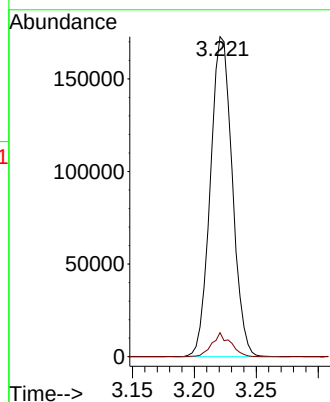
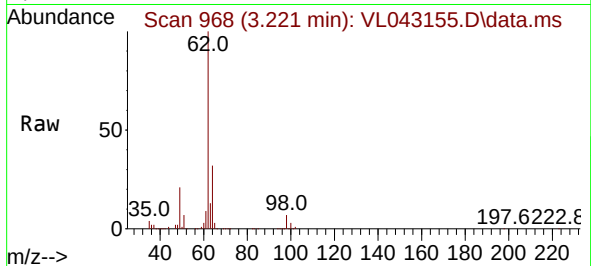




#37
1,2-Dichloroethane
Concen: 11.493 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

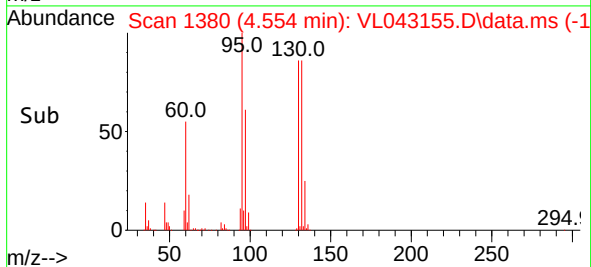
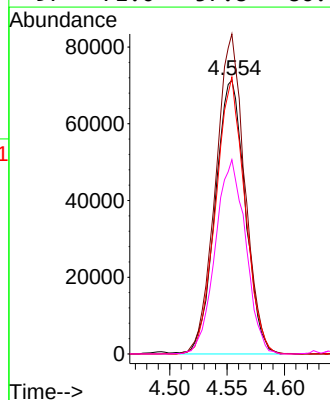
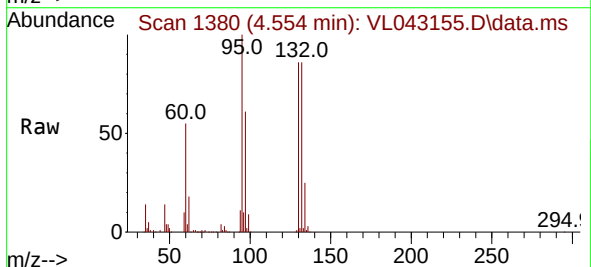
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

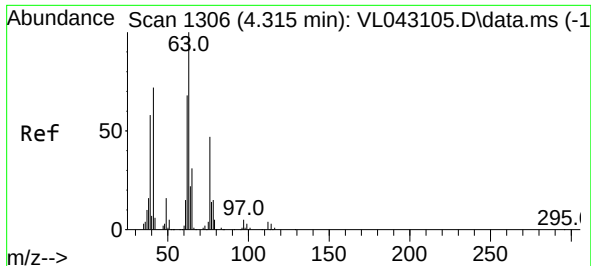
Tgt Ion: 62 Resp: 213185
Ion Ratio Lower Upper
62 100
98 6.4 5.8 8.6



#38
Trichloroethene
Concen: 9.635 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:130 Resp: 129566
Ion Ratio Lower Upper
130 100
95 116.7 88.6 133.0
132 101.0 73.4 110.0
97 71.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.950 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

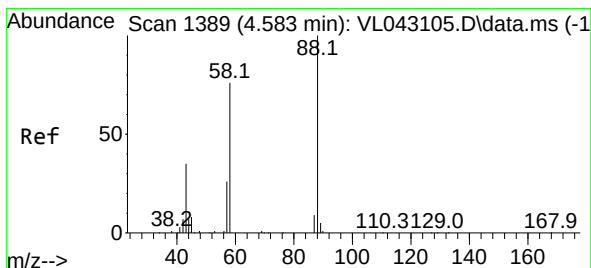
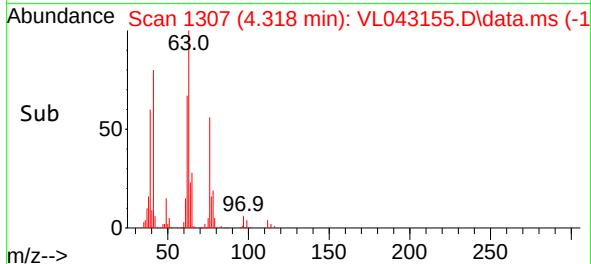
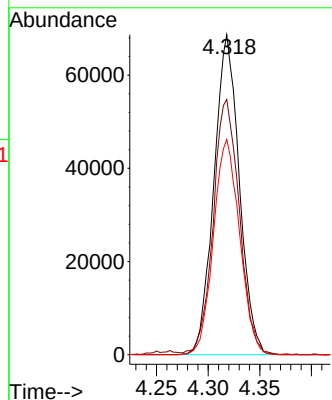
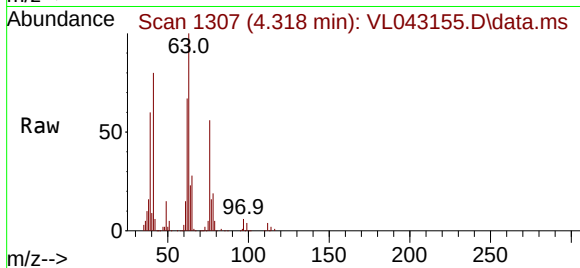
Tgt Ion: 63 Resp: 117127

Ion Ratio Lower Upper

63 100

41 79.6 58.0 87.0

62 67.3 54.7 82.1



#40

1,4-Dioxane

Concen: 9.574 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 88 Resp: 50431

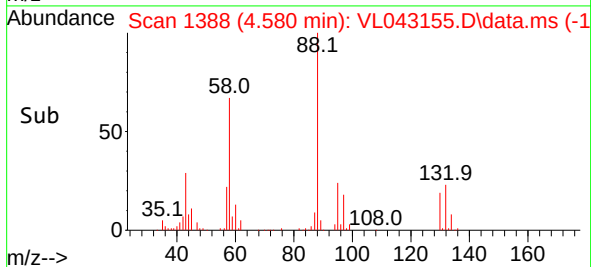
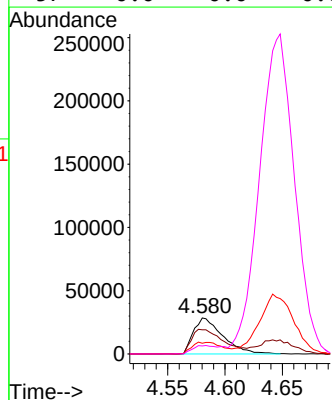
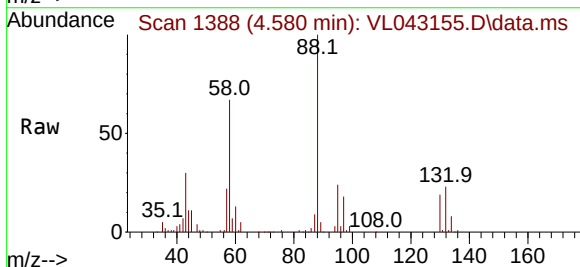
Ion Ratio Lower Upper

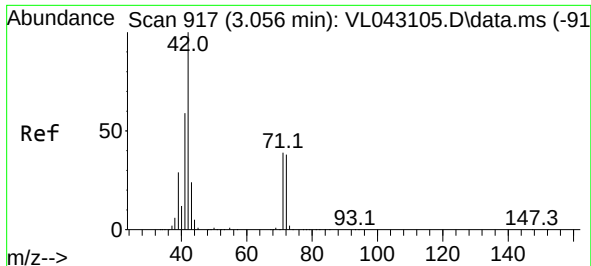
88 100

58 75.0 61.1 91.7

43 35.7 24.0 36.0

57 0.0 0.0 0.0

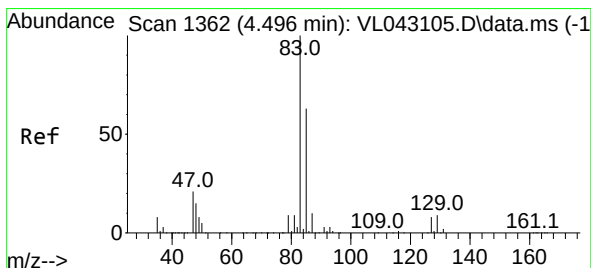
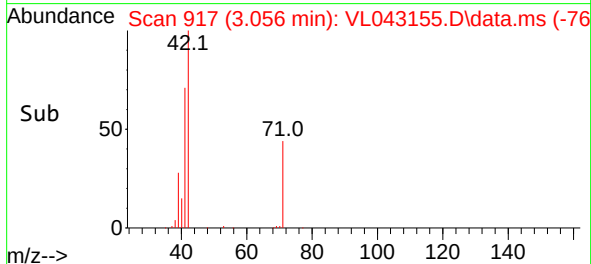
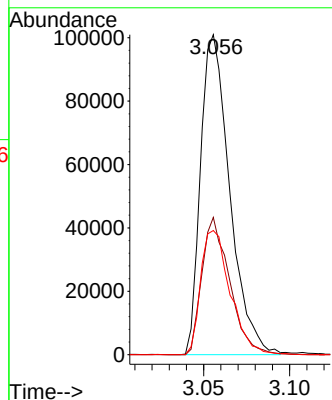
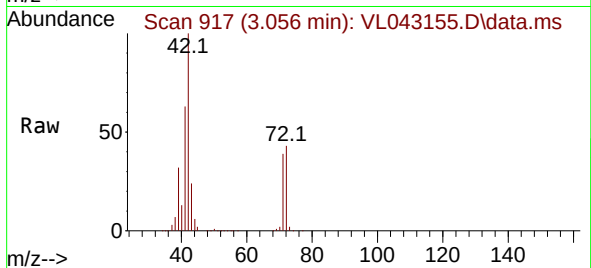




#41
Tetrahydrofuran
Concen: 9.267 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

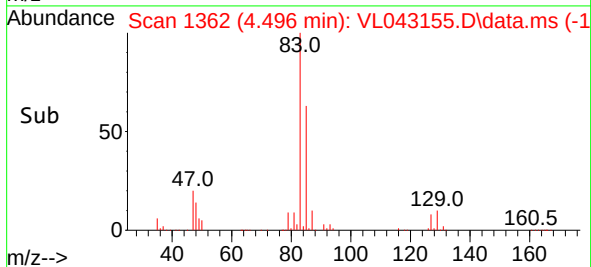
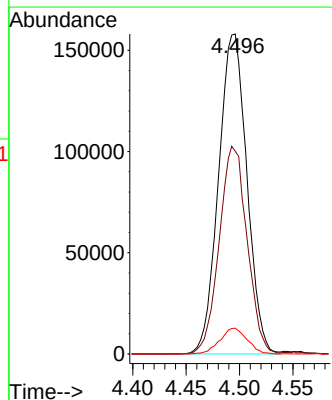
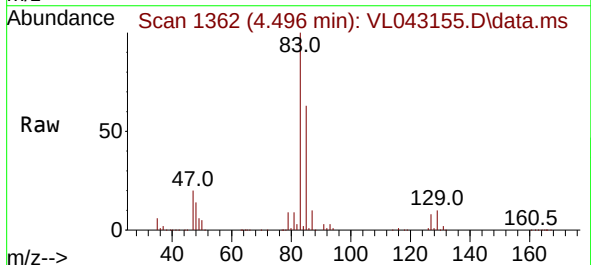
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

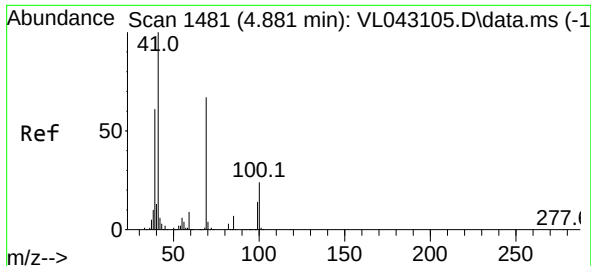
Tgt Ion: 42 Resp: 119118
Ion Ratio Lower Upper
42 100
72 40.9 31.3 46.9
71 39.4 30.4 45.6



#42
Bromodichloromethane
Concen: 11.359 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 83 Resp: 291618
Ion Ratio Lower Upper
83 100
85 63.4 50.6 75.8
127 8.1 6.3 9.5

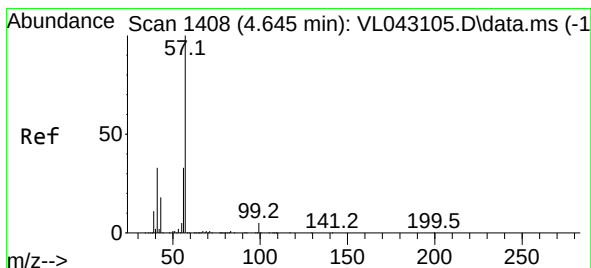
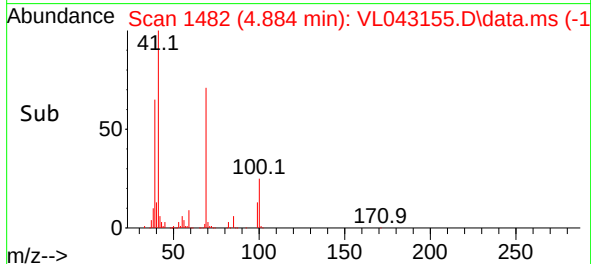
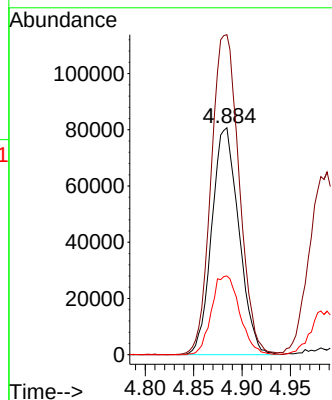
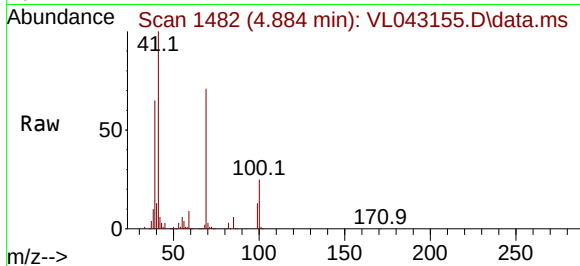




#43
Methyl Methacrylate
Concen: 9.624 ppbv
RT: 4.884 min Scan# 1481
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

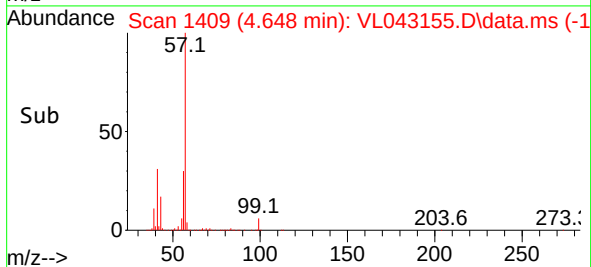
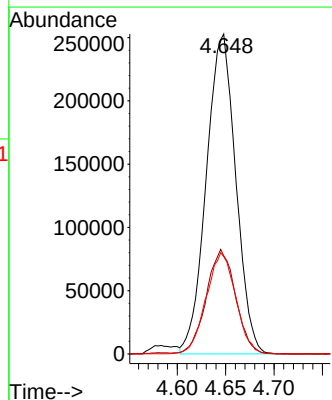
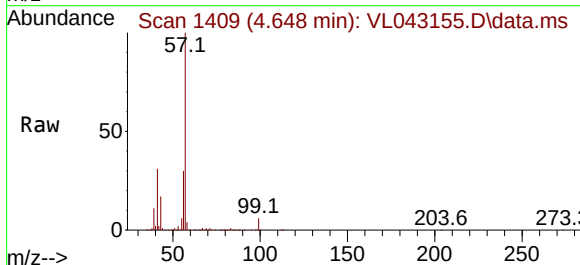
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

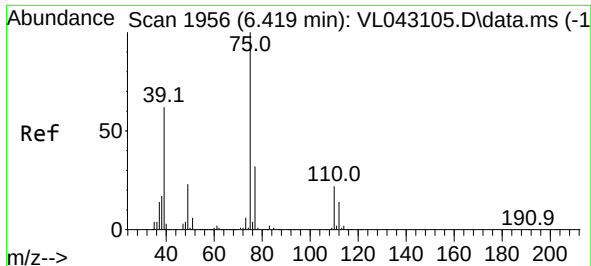
Tgt Ion: 69 Resp: 157399
Ion Ratio Lower Upper
69 100
41 145.6 120.5 180.7
100 36.0 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 9.853 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 57 Resp: 535251
Ion Ratio Lower Upper
57 100
41 32.9 26.3 39.5
56 31.7 25.9 38.9

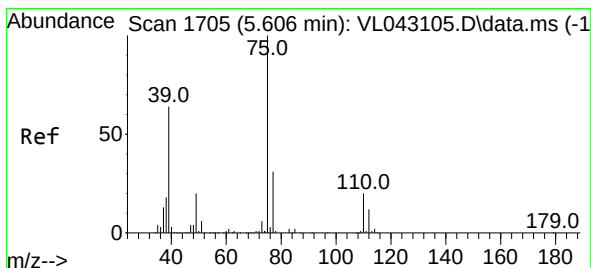
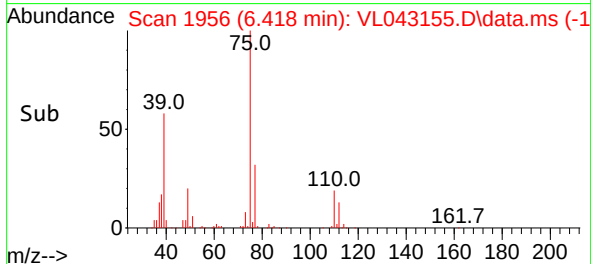
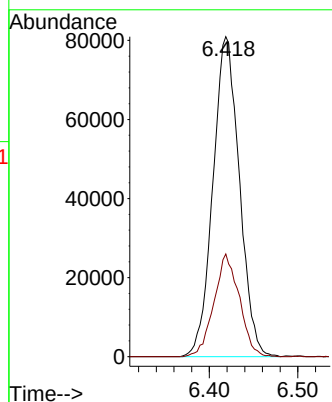
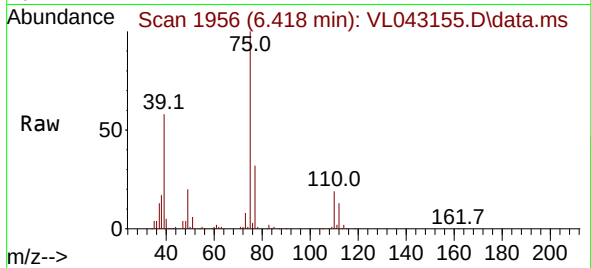




#45
 t-1,3-Dichloropropene
 Concen: 10.243 ppbv
 RT: 6.418 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

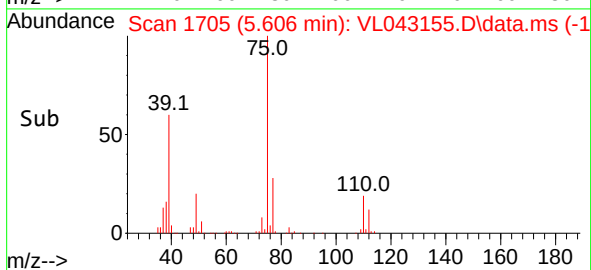
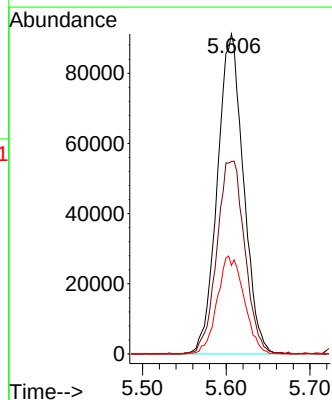
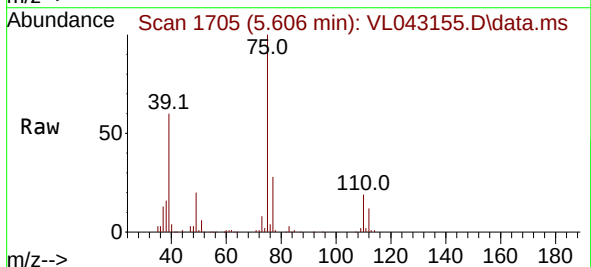
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

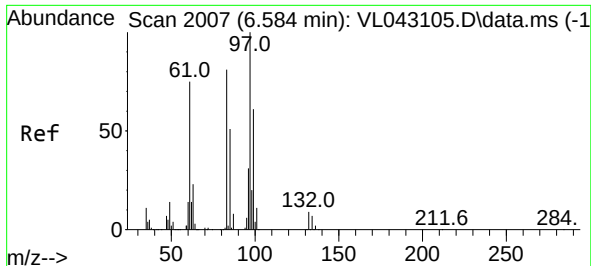
Tgt Ion: 75 Resp: 168113
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.4 38.2



#46
 cis-1,3-Dichloropropene
 Concen: 10.086 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion: 75 Resp: 197738
 Ion Ratio Lower Upper
 75 100
 39 60.1 51.0 76.6
 77 27.7 25.0 37.4



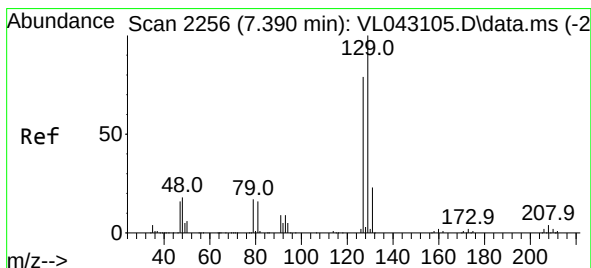
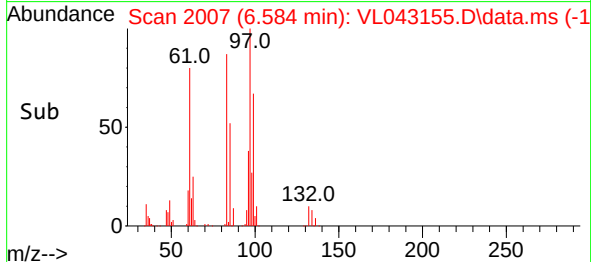
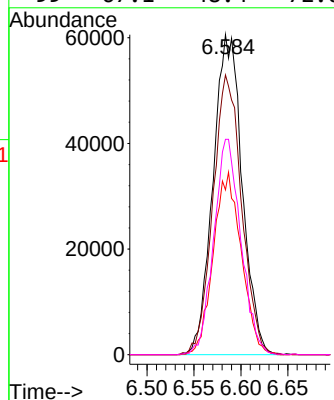
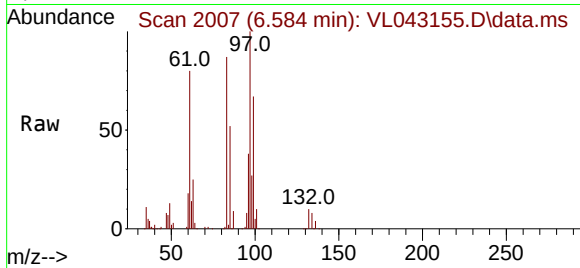


#47
1,1,2-Trichloroethane
Concen: 10.274 ppbv
RT: 6.584 min Scan# 2007
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 130602

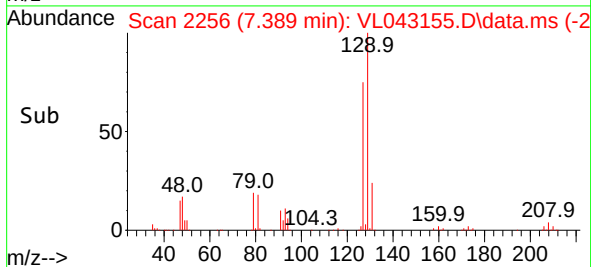
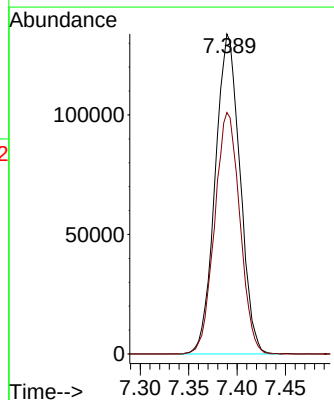
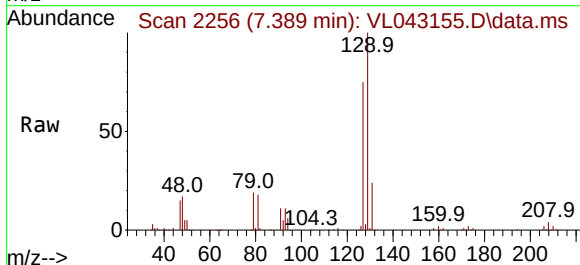
Ion	Ratio	Lower	Upper
97	100		
83	87.2	64.6	96.8
85	51.5	40.6	60.8
99	67.1	48.4	72.6

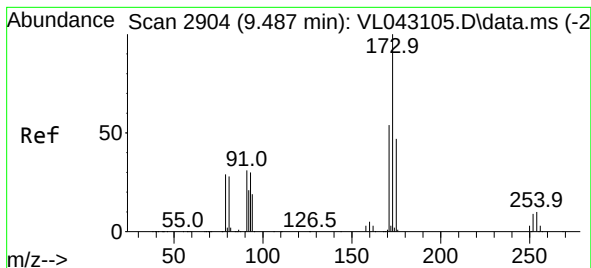


#48
Dibromochloromethane
Concen: 11.241 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 129 Resp: 238917

Ion	Ratio	Lower	Upper
129	100		
127	76.6	39.3	117.9





#49

Bromoform

Concen: 11.933 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

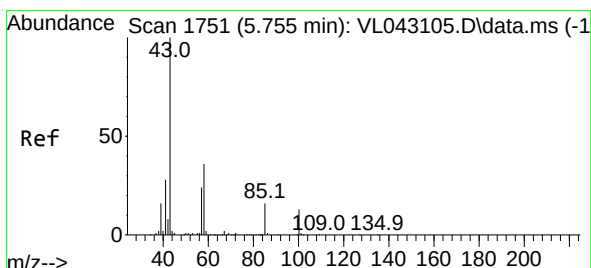
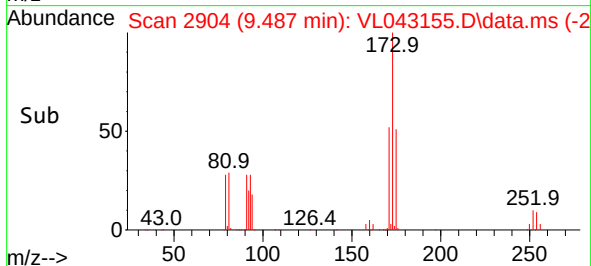
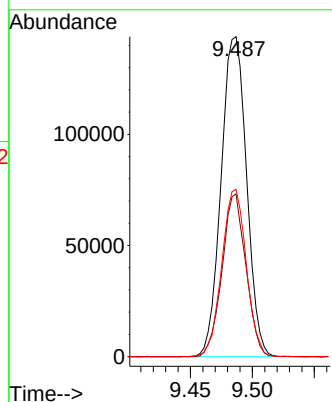
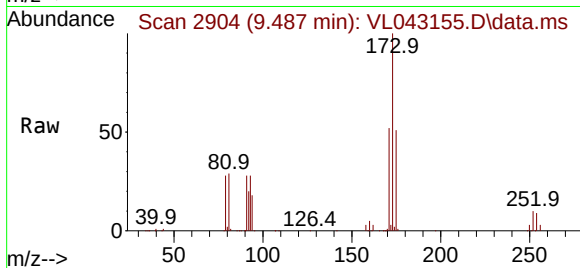
Tgt Ion:173 Resp: 206162

Ion Ratio Lower Upper

173 100

175 47.7 38.8 58.2

171 50.3 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 9.331 ppbv

RT: 5.748 min Scan# 1749

Delta R.T. -0.007 min

Lab File: VL043155.D

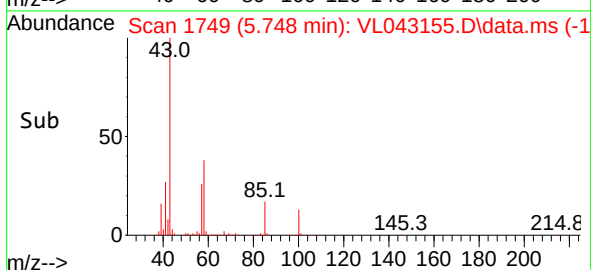
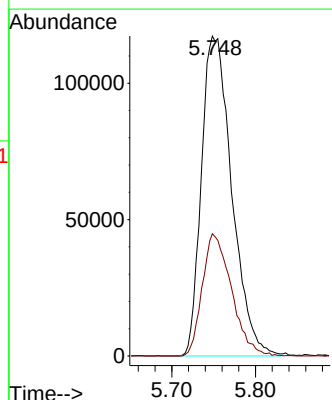
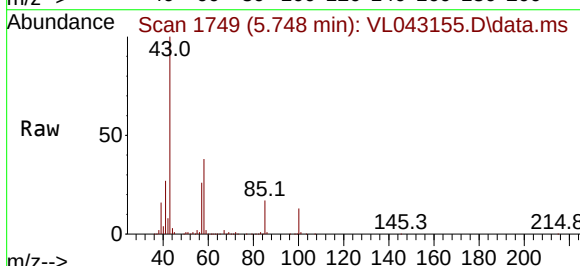
Acq: 06 Nov 2025 07:19

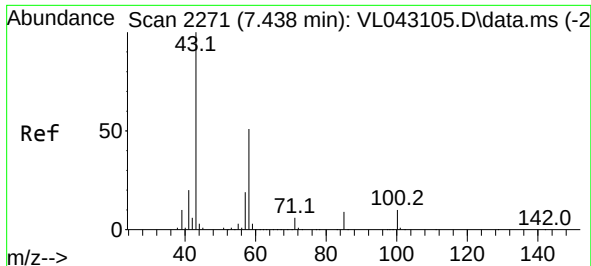
Tgt Ion: 43 Resp: 295948

Ion Ratio Lower Upper

43 100

58 36.7 29.1 43.7

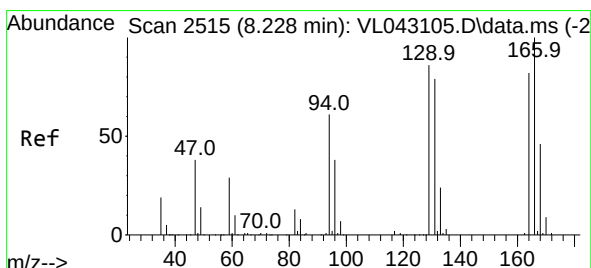
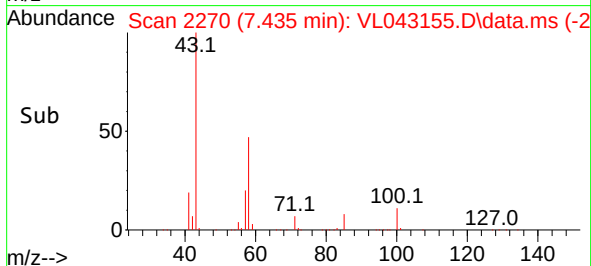
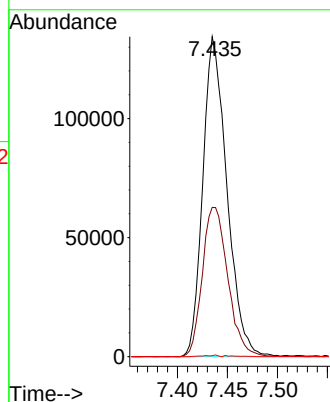
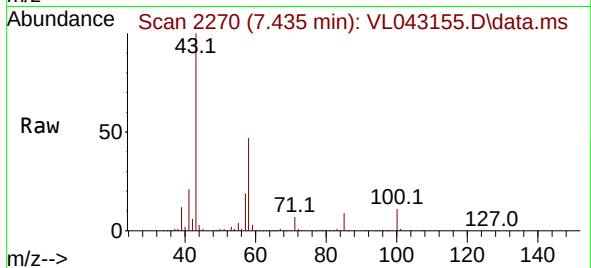




#51
2-Hexanone
Concen: 9.485 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

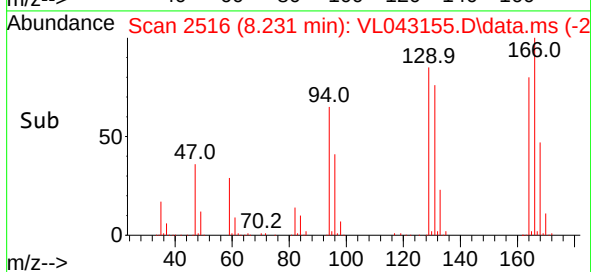
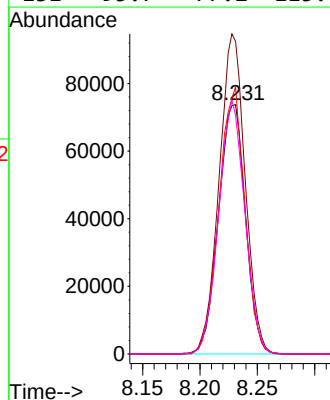
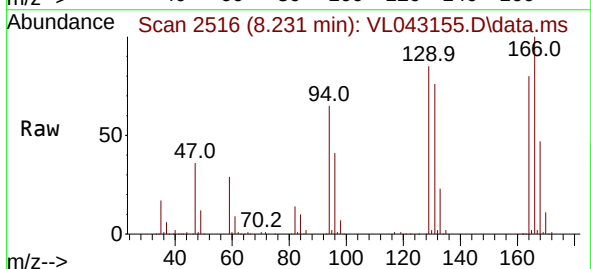
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

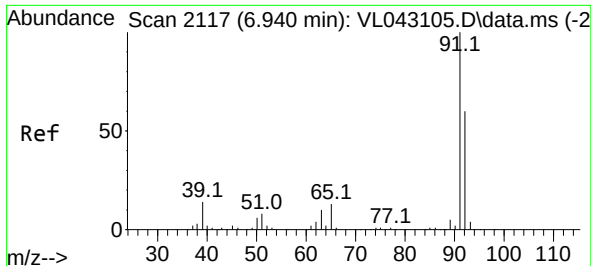
Tgt Ion: 43 Resp: 225625
Ion Ratio Lower Upper
43 100
58 49.4 40.4 60.6
98 0.5 0.1 0.1#



#52
Tetrachloroethene
Concen: 10.396 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:164 Resp: 120713
Ion Ratio Lower Upper
164 100
166 125.4 97.6 146.4
129 107.1 84.5 126.7
131 95.7 77.2 115.8

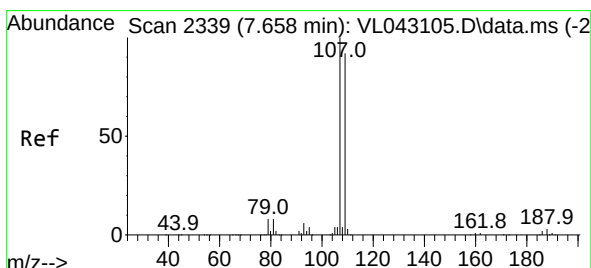
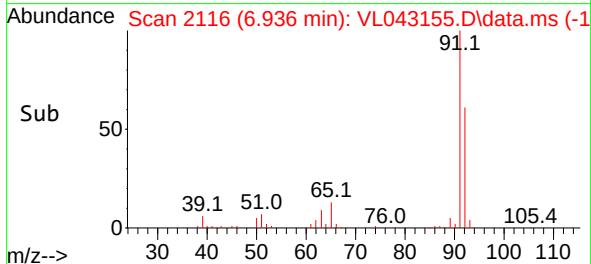
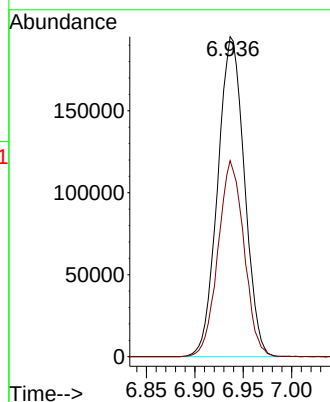
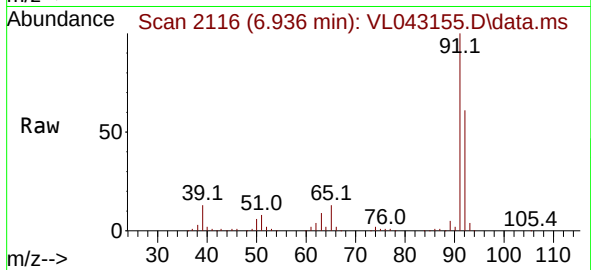




#53
Toluene
Concen: 9.805 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

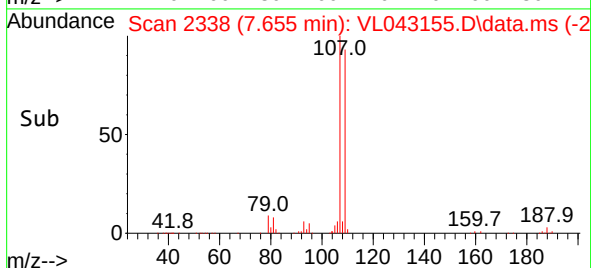
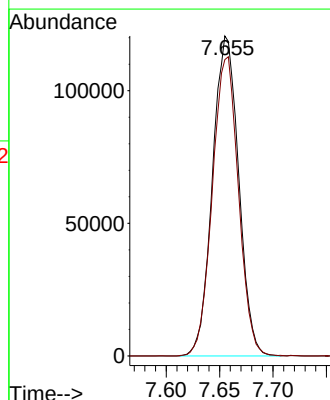
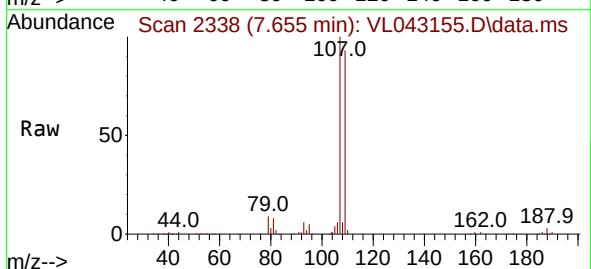
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

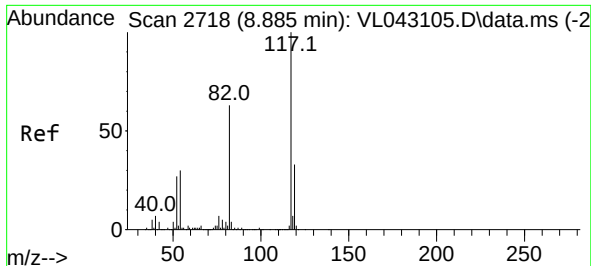
Tgt Ion: 91 Resp: 374714
Ion Ratio Lower Upper
91 100
92 59.7 48.8 73.2



#54
1,2-Dibromoethane
Concen: 10.330 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 107 Resp: 205679
Ion Ratio Lower Upper
107 100
109 92.4 73.4 110.2

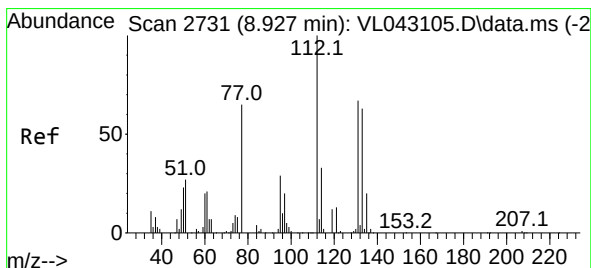
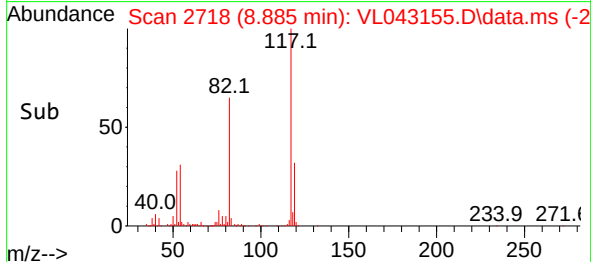
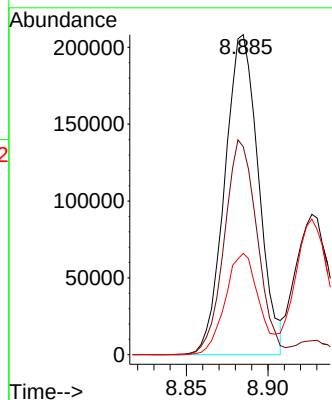
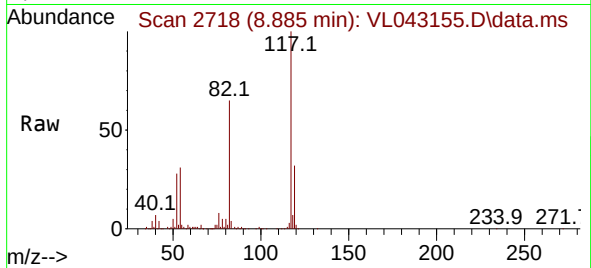




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

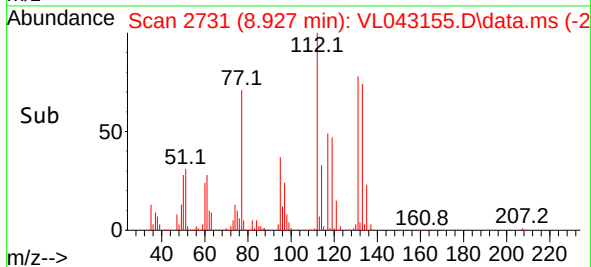
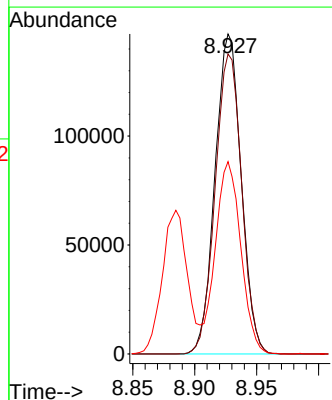
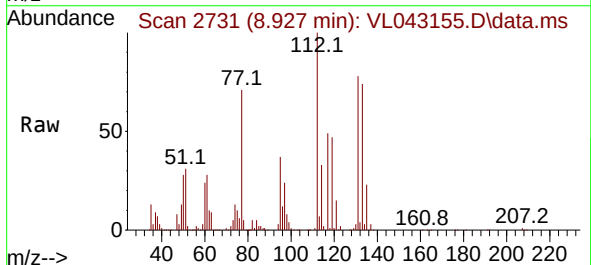
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

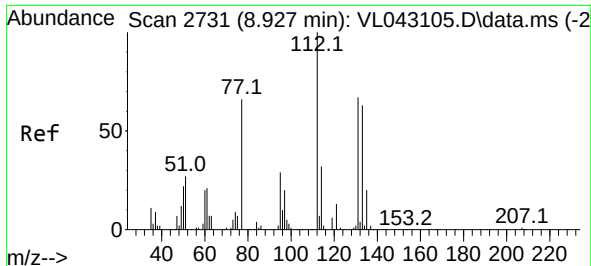
Tgt Ion:117 Resp: 299829
Ion Ratio Lower Upper
117 100
82 66.1 53.8 80.8
119 32.3 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 11.429 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:131 Resp: 216010
Ion Ratio Lower Upper
131 100
133 95.1 75.7 113.5
119 58.8 50.6 76.0

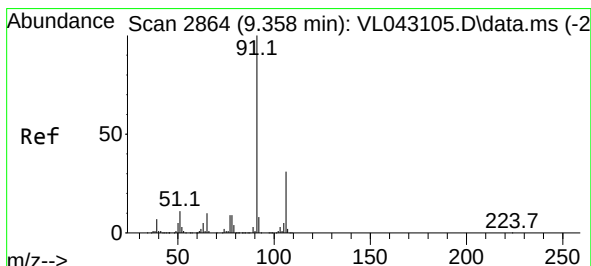
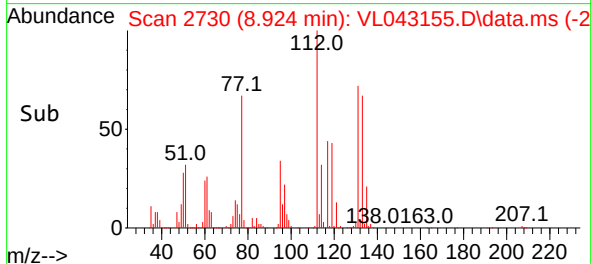
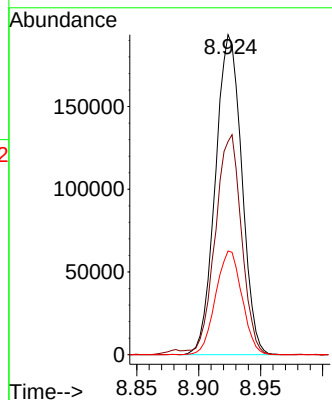
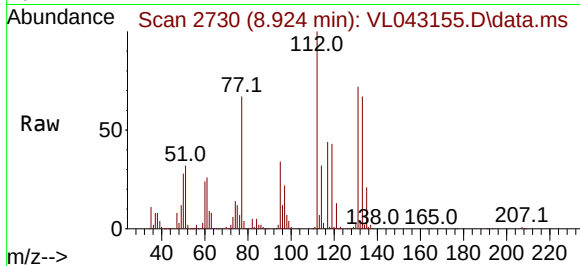




#57
Chlorobenzene
Concen: 10.228 ppbv
RT: 8.924 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

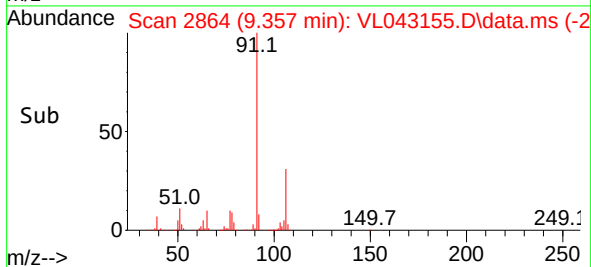
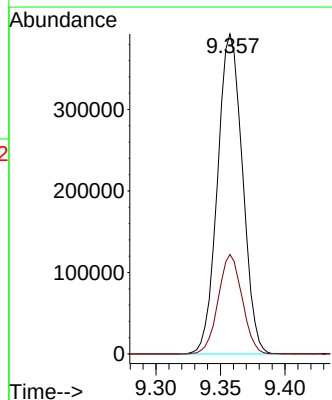
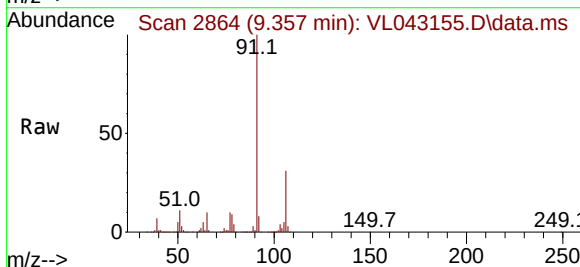
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

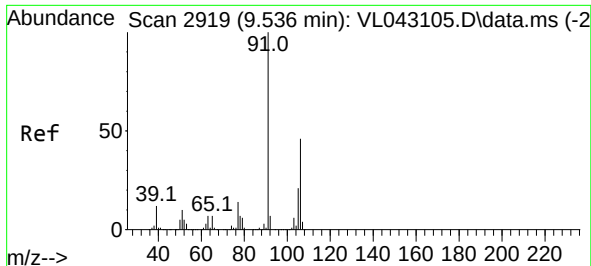
Tgt Ion:112 Resp: 286894
Ion Ratio Lower Upper
112 100
77 66.6 53.3 79.9
114 32.4 29.3 35.8



#58
Ethyl Benzene
Concen: 10.261 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 527991
Ion Ratio Lower Upper
91 100
106 31.1 24.8 37.2





#59

m/p-Xylene

Concen: 11.549 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_1

ClientSampleId :

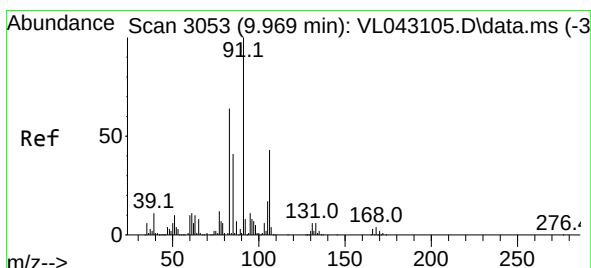
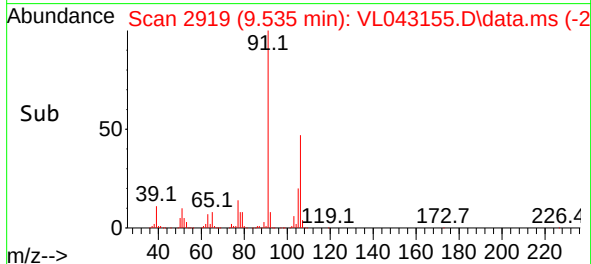
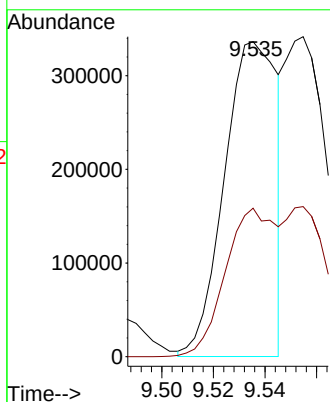
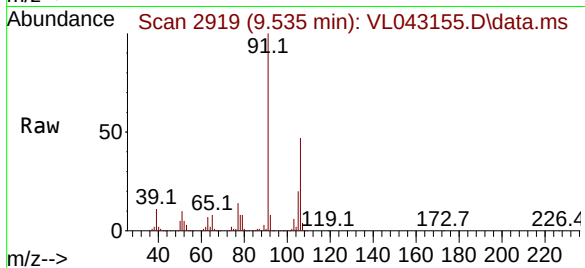
VSTDCCC010

Tgt Ion: 91 Resp: 474002

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 10.565 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL043155.D

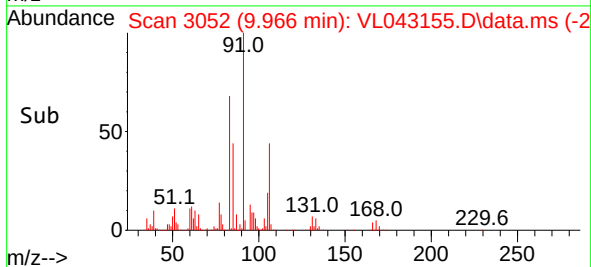
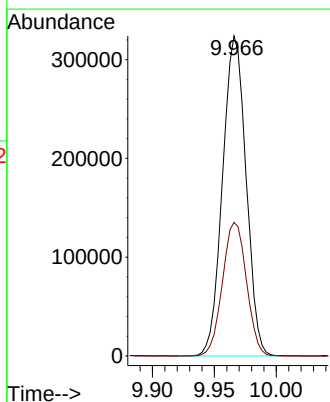
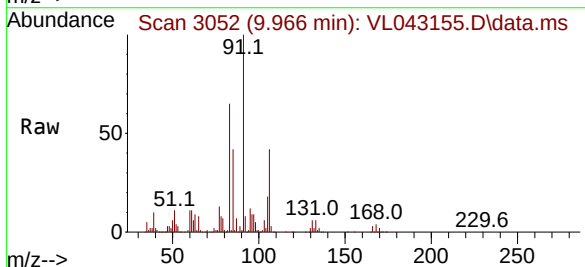
Acq: 06 Nov 2025 07:19

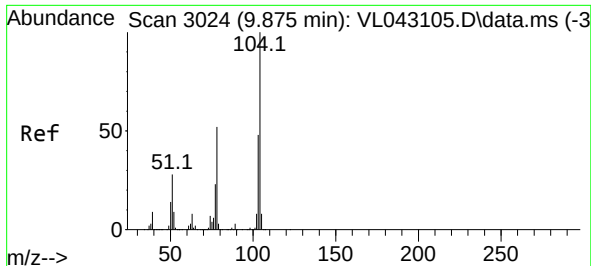
Tgt Ion: 91 Resp: 428248

Ion Ratio Lower Upper

91 100

106 42.7 21.9 65.8





#61

Styrene

Concen: 9.839 ppbv

RT: 9.872 min Scan# 3024

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

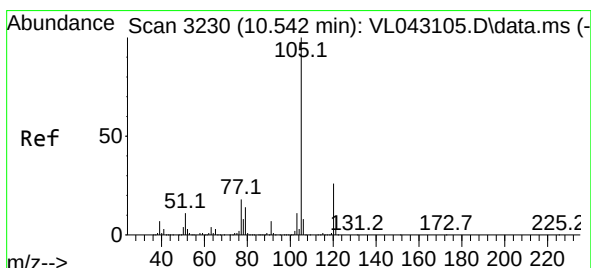
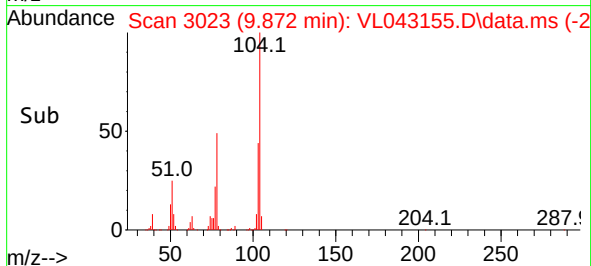
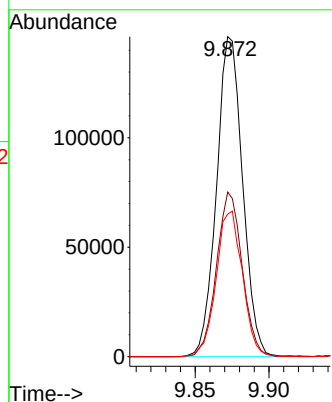
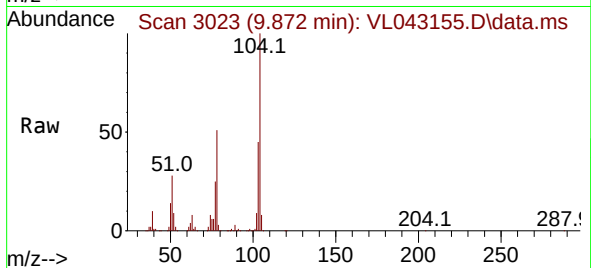
Tgt Ion:104 Resp: 180052

Ion Ratio Lower Upper

104 100

78 50.9 40.2 60.2

103 45.9 36.9 55.3



#62

Isopropylbenzene

Concen: 10.564 ppbv

RT: 10.542 min Scan# 3230

Delta R.T. -0.000 min

Lab File: VL043155.D

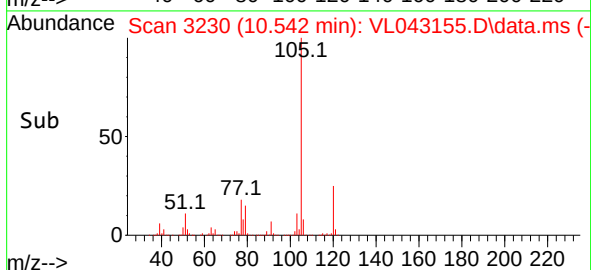
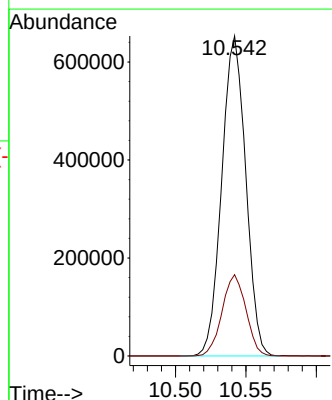
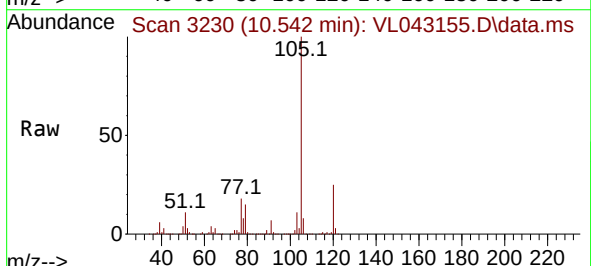
Acq: 06 Nov 2025 07:19

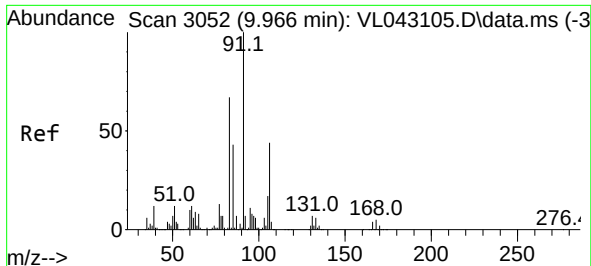
Tgt Ion:105 Resp: 773742

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 10.089 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

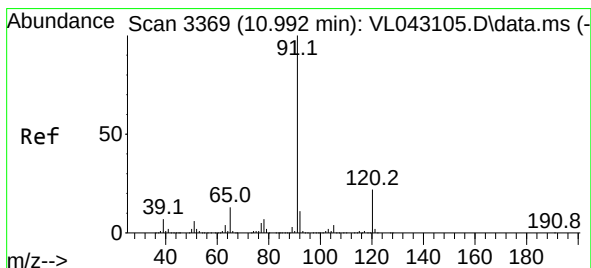
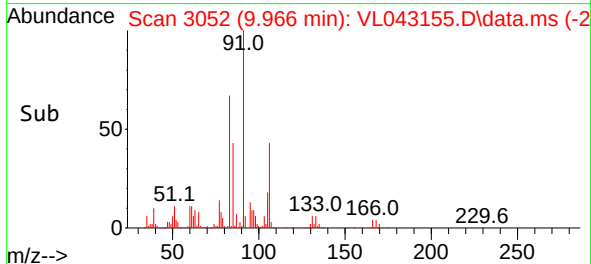
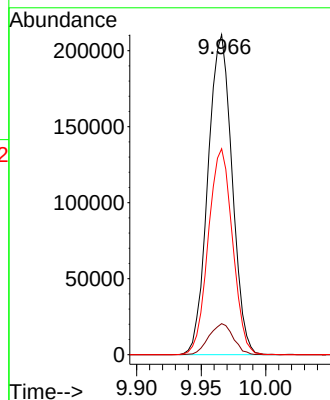
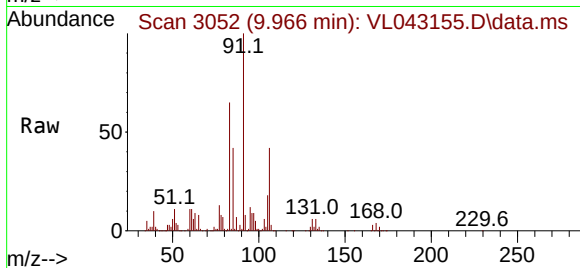
Tgt Ion: 83 Resp: 273835

Ion Ratio Lower Upper

83 100

131 9.8 4.8 14.3

85 64.6 32.0 96.0



#64

n-propylbenzene

Concen: 10.438 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. -0.000 min

Lab File: VL043155.D

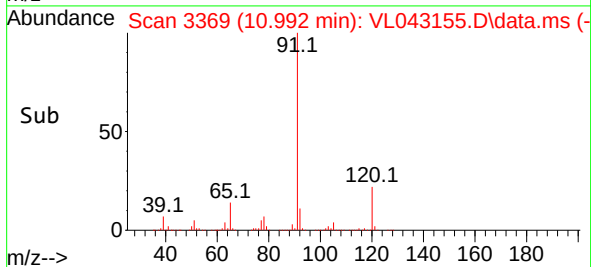
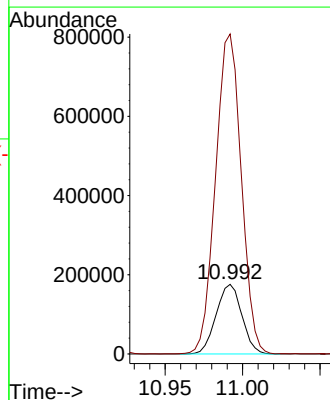
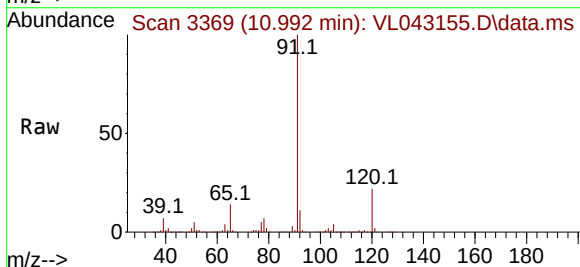
Acq: 06 Nov 2025 07:19

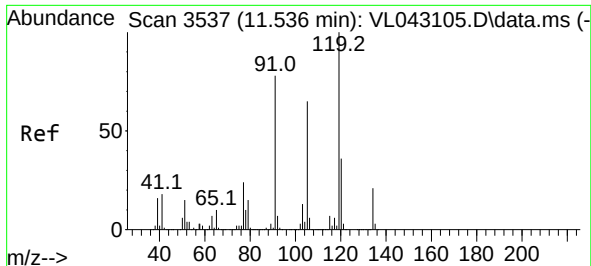
Tgt Ion: 120 Resp: 202414

Ion Ratio Lower Upper

120 100

91 462.2 361.6 542.4

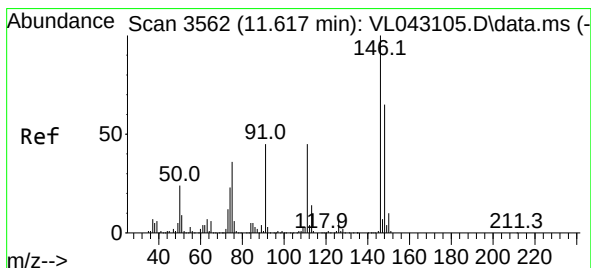
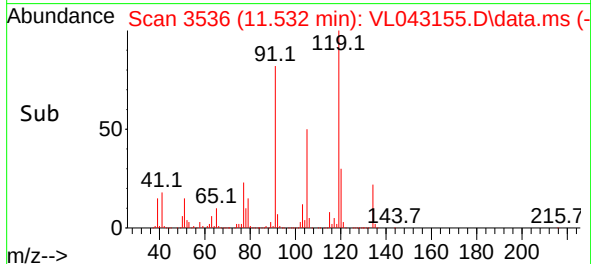
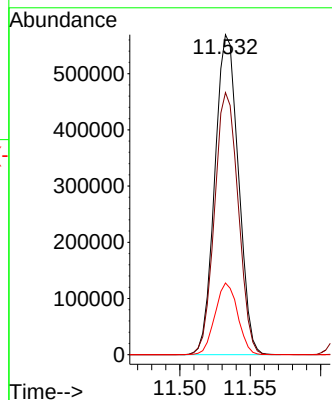
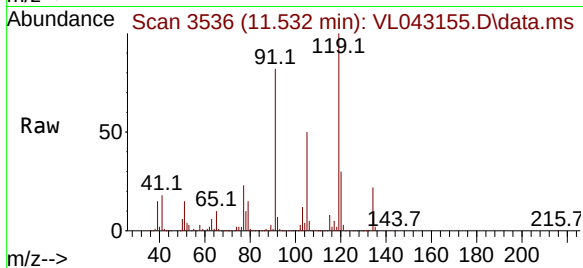




#65
tert-Butylbenzene
Concen: 10.266 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

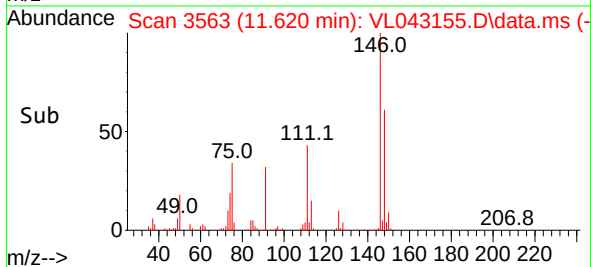
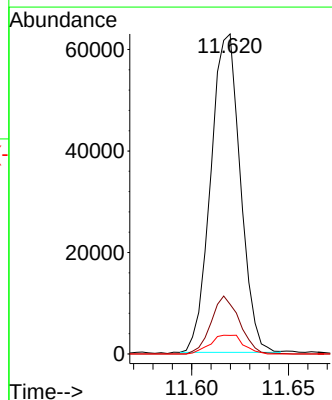
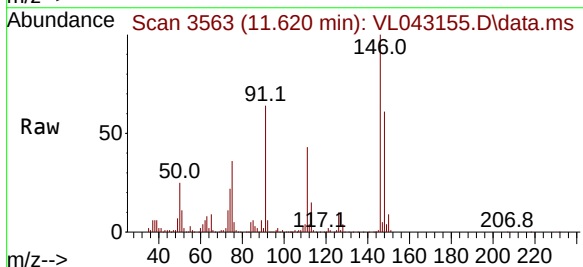
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

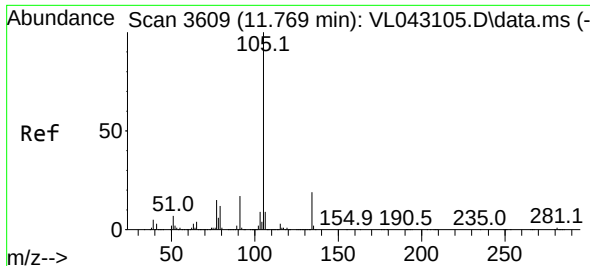
Tgt Ion:119 Resp: 664024
Ion Ratio Lower Upper
119 100
91 82.1 63.4 95.0
134 21.5 17.3 25.9



#66
Benzyl Chloride
Concen: 9.258 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 66651
Ion Ratio Lower Upper
91 100
126 17.5 14.6 22.0
128 6.6 4.6 6.8

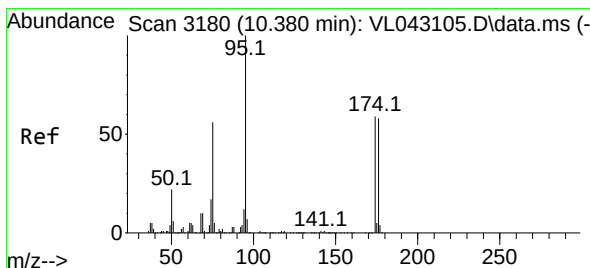
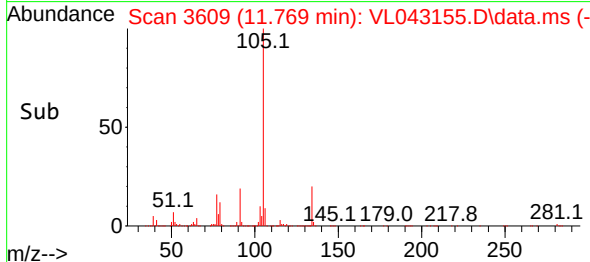
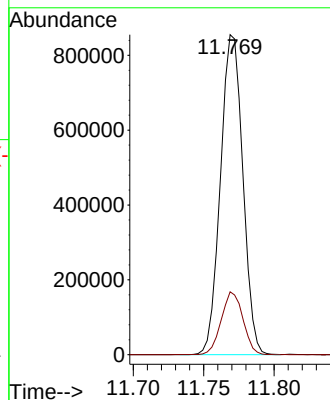
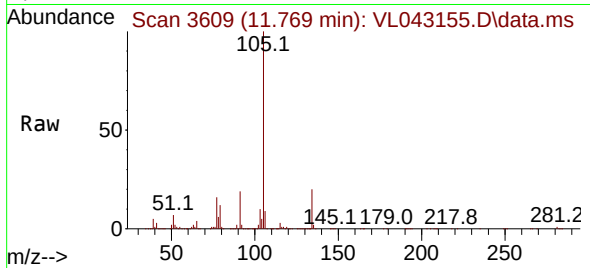




#67
 sec-Butylbenzene
 Concen: 10.327 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

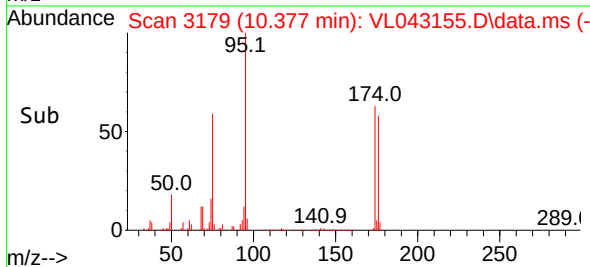
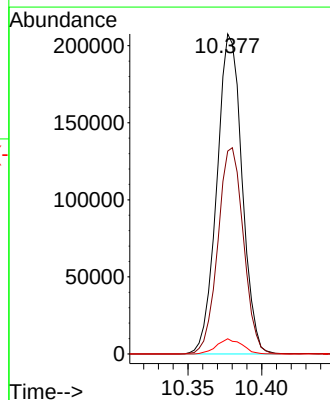
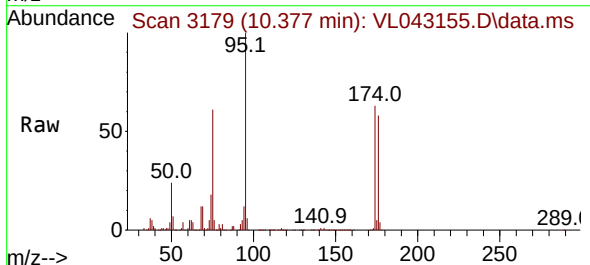
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

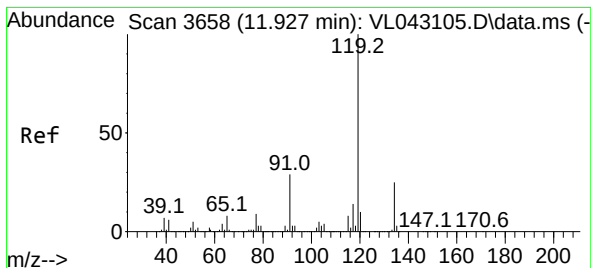
Tgt Ion:105 Resp: 948023
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.570 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion: 95 Resp: 246332
 Ion Ratio Lower Upper
 95 100
 174 65.5 48.3 72.5
 175 4.8 3.8 5.8

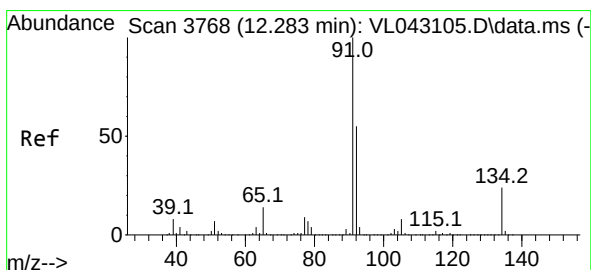
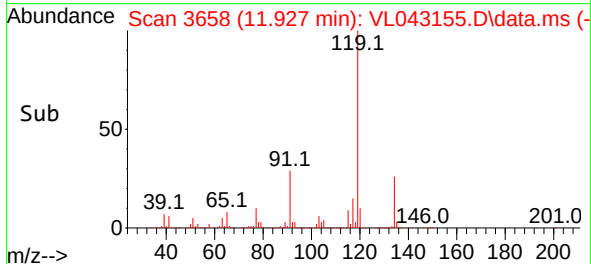
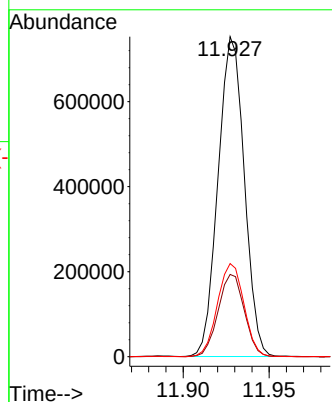
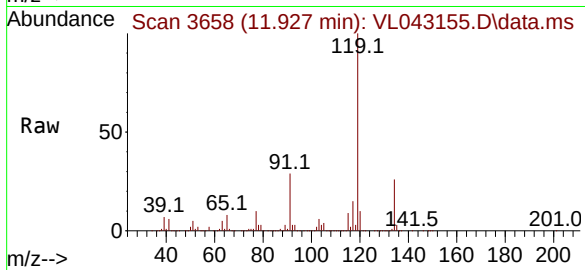




#69
 p-Isopropyltoluene
 Concen: 10.237 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

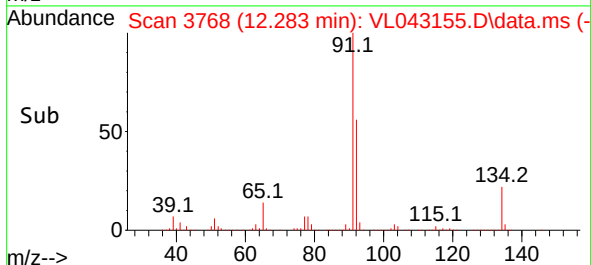
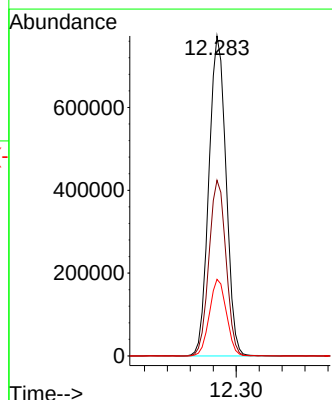
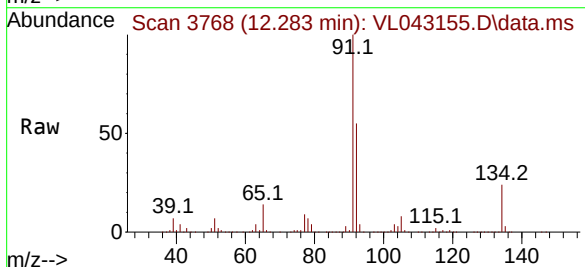
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

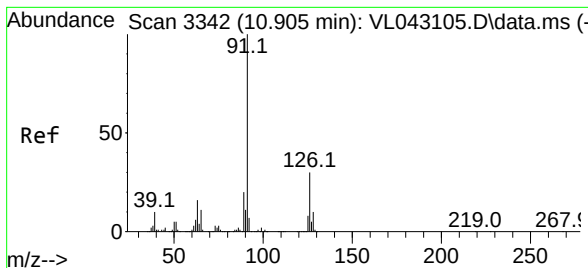
Tgt Ion:119 Resp: 798570
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.3 30.5
 91 29.5 22.6 33.8



#70
 n-Butylbenzene
 Concen: 10.410 ppbv
 RT: 12.283 min Scan# 3768
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 800217
 Ion Ratio Lower Upper
 91 100
 92 54.6 44.5 66.7
 134 23.8 19.3 28.9

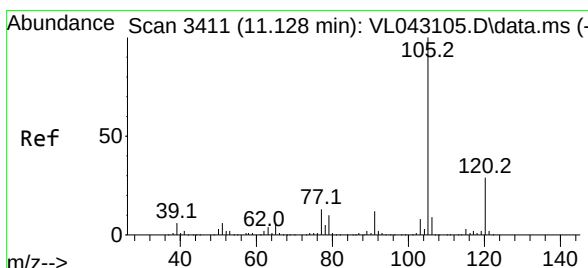
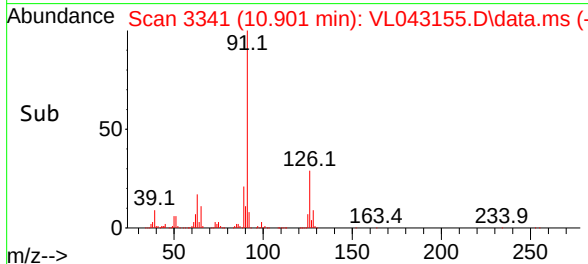
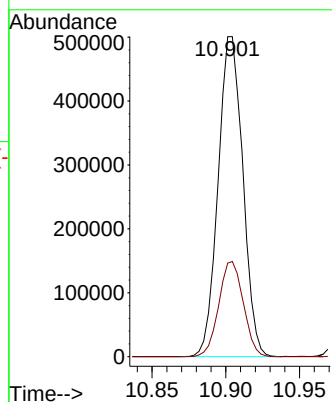
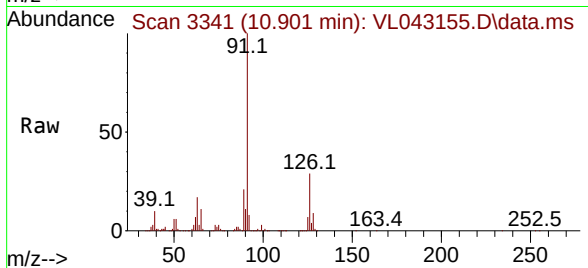




#71
2-Chlorotoluene
Concen: 10.461 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

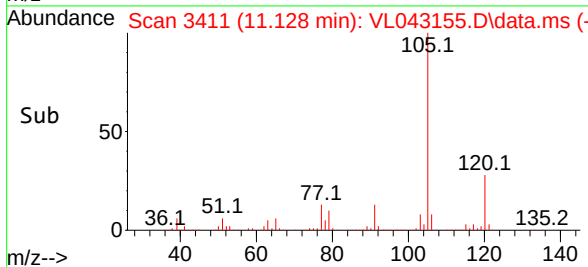
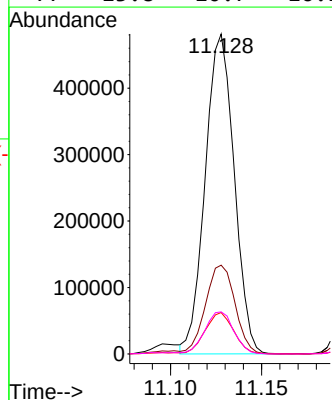
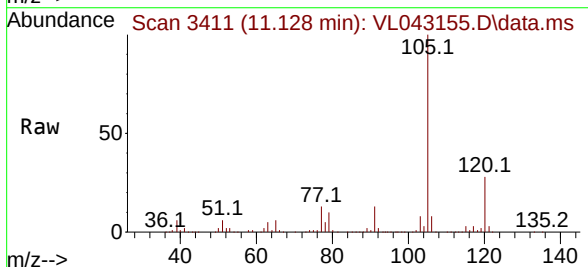
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

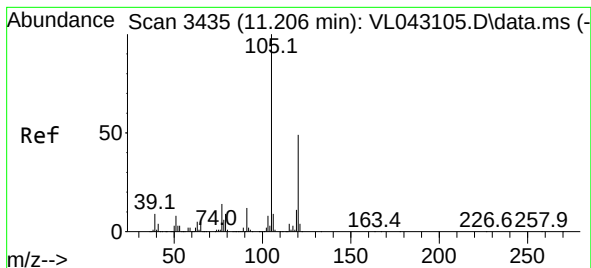
Tgt Ion: 91 Resp: 584421
Ion Ratio Lower Upper
91 100
126 29.5 12.0 48.0



#72
4-Ethyltoluene
Concen: 10.693 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 532971
Ion Ratio Lower Upper
105 100
120 29.3 24.2 36.4
91 13.3 10.0 15.0
77 13.8 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 10.671 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_L

ClientSampleId :

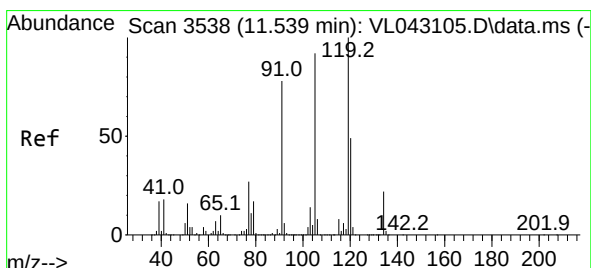
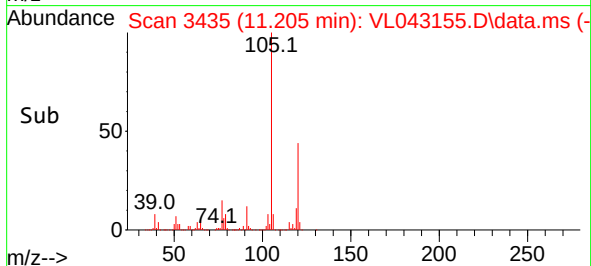
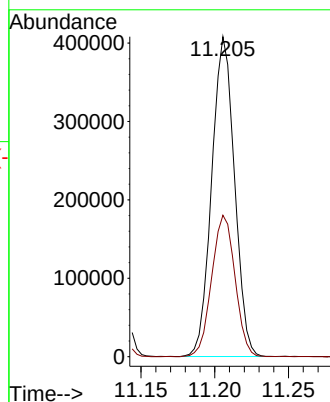
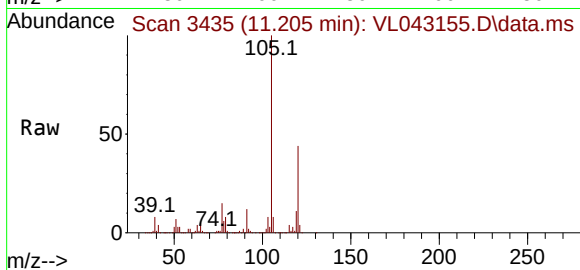
VSTDCCC010

Tgt Ion:105 Resp: 438651

Ion Ratio Lower Upper

105 100

120 44.2 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 10.419 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 479281

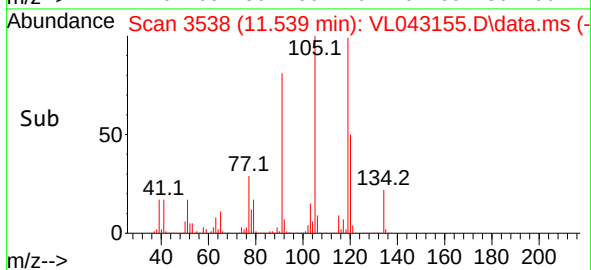
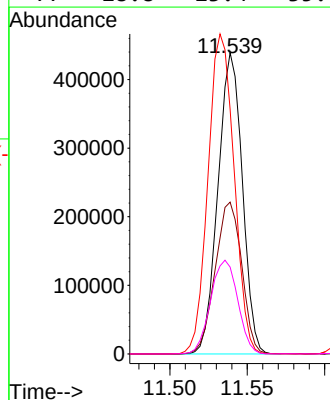
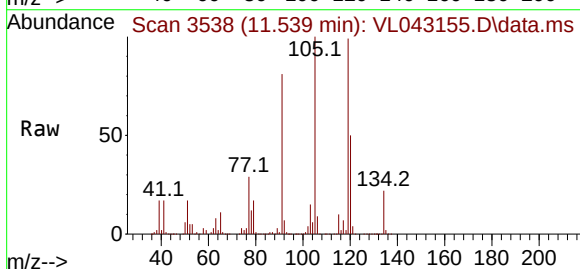
Ion Ratio Lower Upper

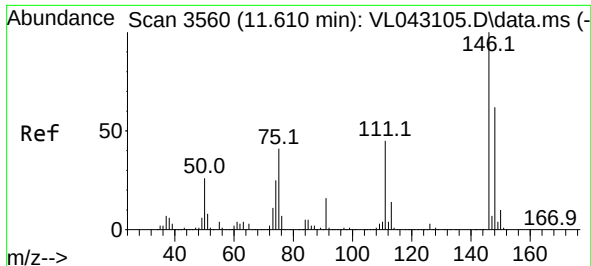
105 100

120 50.4 42.8 64.2

91 81.1 68.3 102.5

77 28.8 23.4 35.0

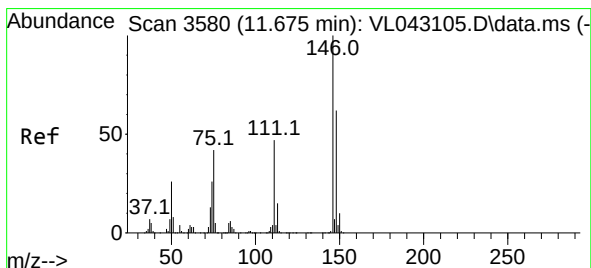
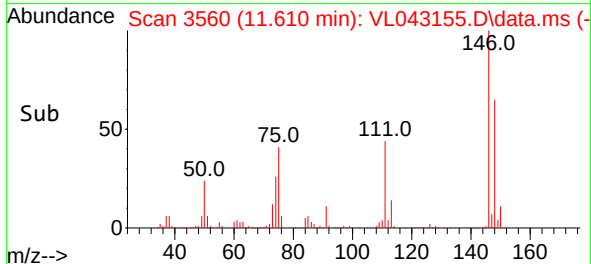
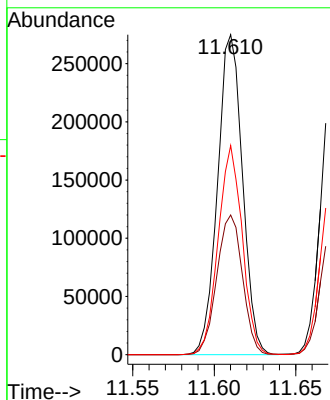
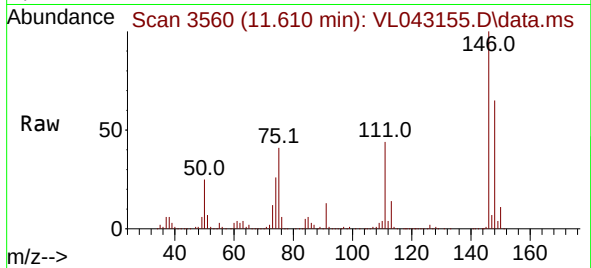




#75
1,3-Dichlorobenzene
Concen: 10.943 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

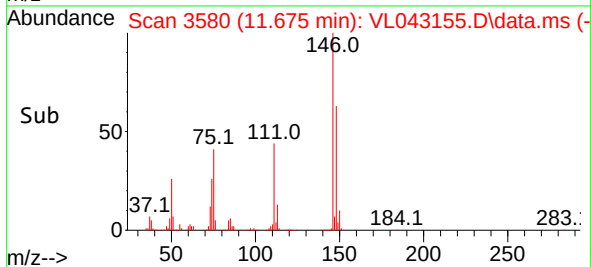
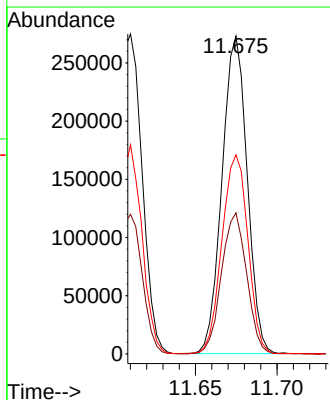
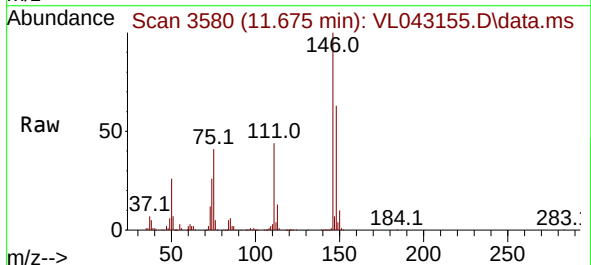
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

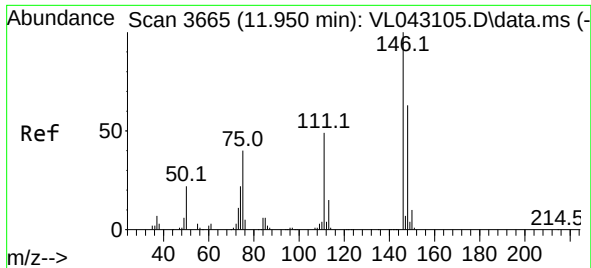
Tgt Ion:146 Resp: 291949
Ion Ratio Lower Upper
146 100
111 45.0 23.3 69.9
148 63.2 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 10.872 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:146 Resp: 292491
Ion Ratio Lower Upper
146 100
111 44.8 22.4 67.0
148 64.9 31.6 94.7

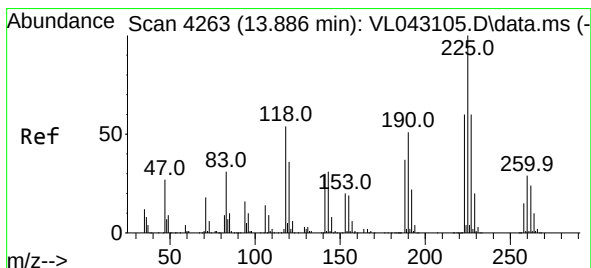
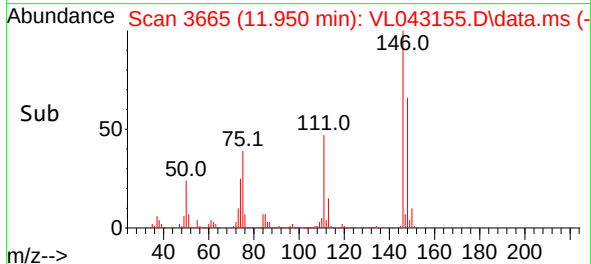
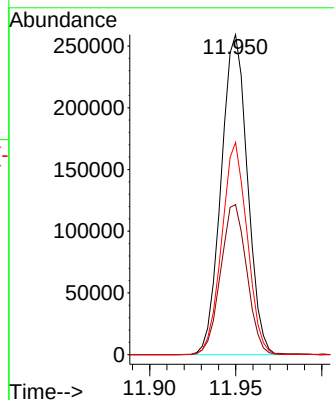
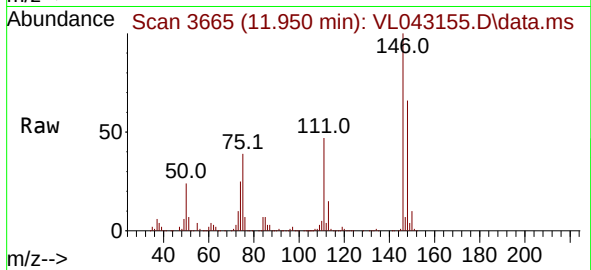




#77
1,2-Dichlorobenzene
Concen: 10.670 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

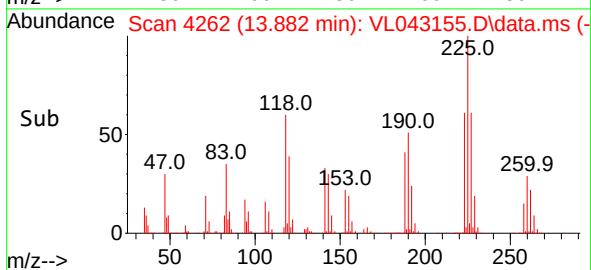
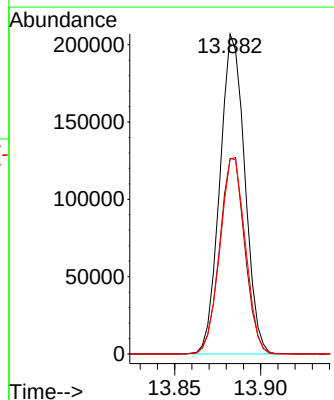
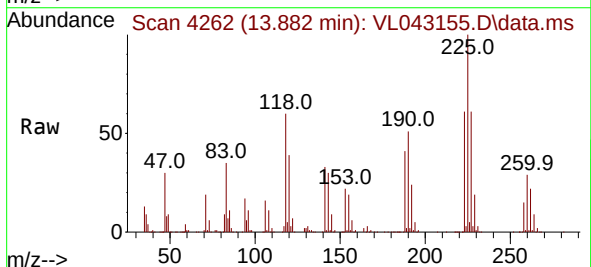
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

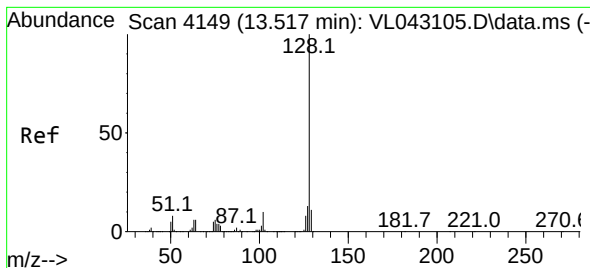
Tgt Ion:146 Resp: 275403
Ion Ratio Lower Upper
146 100
111 46.9 24.0 72.0
148 64.3 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 10.417 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL043155.D
Acq: 06 Nov 2025 07:19

Tgt Ion:225 Resp: 208179
Ion Ratio Lower Upper
225 100
223 62.2 50.2 75.4
227 62.5 49.6 74.4





#79

Naphthalene

Concen: 10.113 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

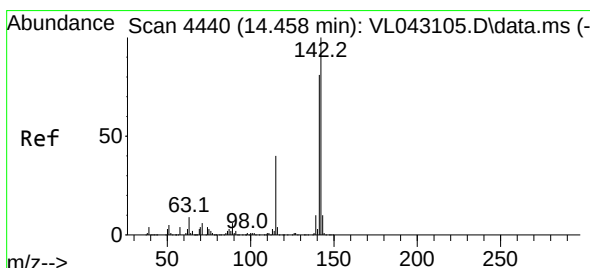
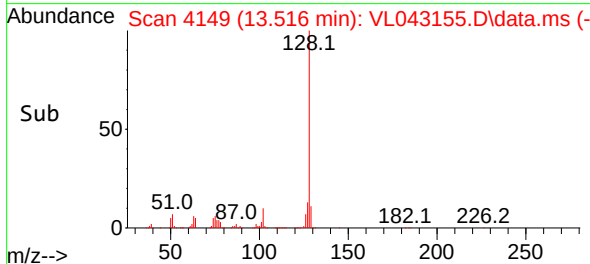
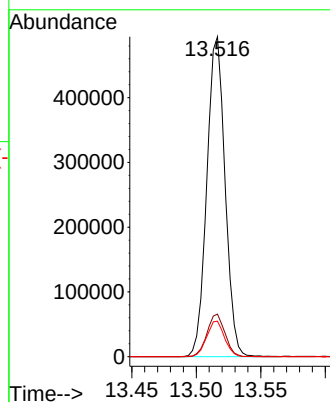
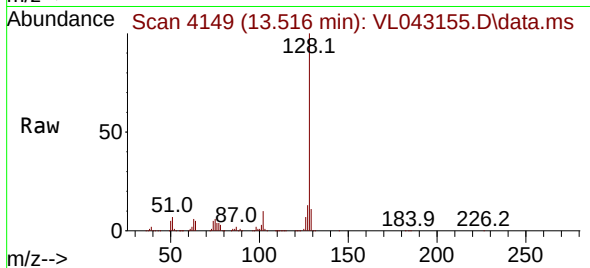
Tgt Ion:128 Resp: 486229

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

129 11.1 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 10.942 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

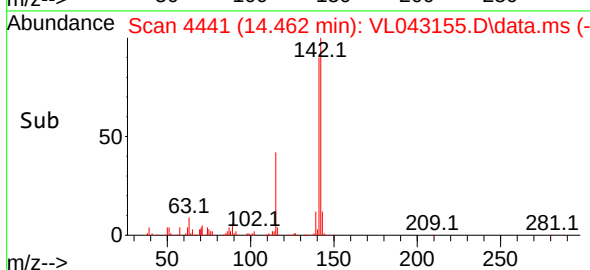
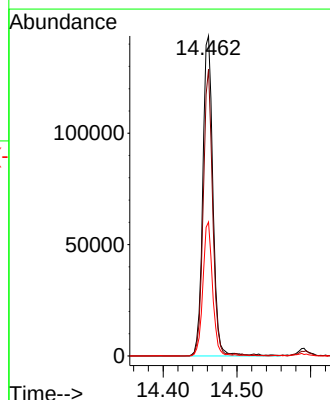
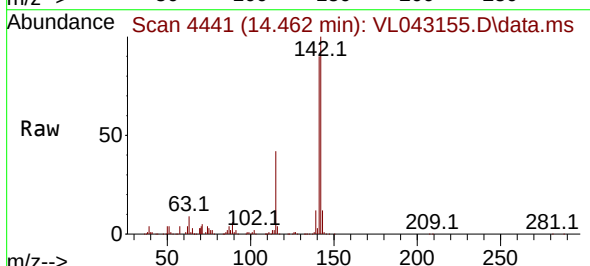
Tgt Ion:142 Resp: 137059

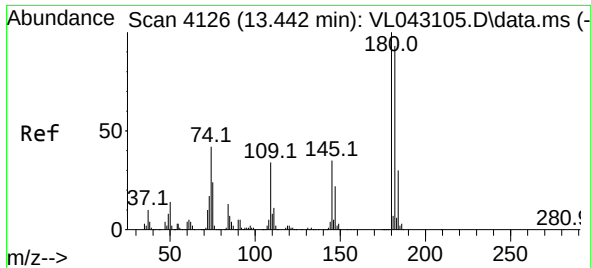
Ion Ratio Lower Upper

142 100

141 83.9 64.6 97.0

115 40.3 30.2 45.4

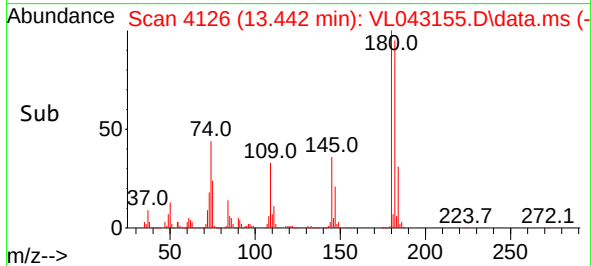
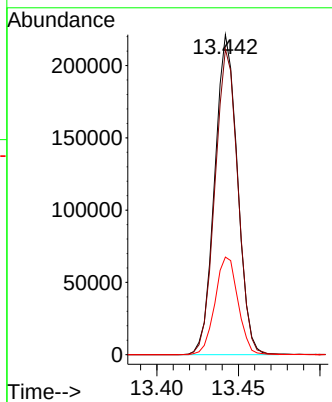
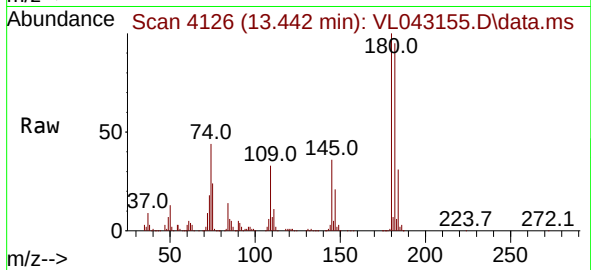




#81
 1,2,4-Trichlorobenzene
 Concen: 10.750 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043155.D
 Acq: 06 Nov 2025 07:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:180 Resp: 214527
 Ion Ratio Lower Upper
 180 100
 182 96.4 75.5 113.3
 184 30.9 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043157.D
 Acq On : 06 Nov 2025 08:45
 Operator : SY/MD
 Sample : VL1106ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

Quant Time: Nov 07 00:17:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	111380	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	340583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	299526	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 237797 10.214 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	170728	10.782	ppbv	99
3) Chlorodifluoromethane	1.476	51	171506	10.011	ppbv	97
4) Chloromethane	1.534	50	57299	9.134	ppbv	100
5) Vinyl Chloride	1.580	62	55895	9.085	ppbv	100
6) Bromomethane	1.667	94	34540	10.238	ppbv	96
7) Chloroethane	1.706	64	23501	9.342	ppbv	89
8) Dichlorotetrafluoroethane	1.554	85	136433	10.661	ppbv	92
9) Propene	1.483	41	64760	8.523	ppbv	99
10) Heptane	4.978	43	189938	8.683	ppbv	98
11) Trichlorofluoromethane	1.877	101	181952	11.748	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	139934	11.222	ppbv	96
13) Ethanol	1.719	45	21163	7.530	ppbv	98
14) Bromoethene	1.780	108	49693	10.727	ppbv	99
15) Acetone	1.835	43	134115	8.934	ppbv	99
16) 1,3-Butadiene	1.609	39	62625	8.753	ppbv	98
17) tert-Butyl alcohol	2.039	59	203295	9.865	ppbv	100
18) 1,1-Dichloroethene	2.036	96	59563	10.957	ppbv	84
19) Isopropyl Alcohol	1.884	45	80943	8.657	ppbv	92
20) Methylene Chloride	2.062	84	53912	9.085	ppbv	94
21) Allyl Chloride	2.094	41	101879	9.210	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	69305	10.665	ppbv	93
23) Vinyl Acetate	2.460	43	232125	10.556	ppbv	99
24) 1,1-Dichloroethane	2.408	63	131599	10.482	ppbv	98
25) Ethyl Acetate	2.832	43	354153	9.513	ppbv	100
26) Hexane	2.826	57	161029	9.387	ppbv	98
27) Carbon Disulfide	2.149	76	167737	10.672	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	76290	9.775	ppbv	94
29) Chloroform	2.848	83	272377	10.958	ppbv	100
30) Cyclohexane	3.855	84	139050	9.287	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	171275	10.456	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	276541	10.684	ppbv	100
34) 2-Butanone	2.554	43	237347	10.367	ppbv	100
35) Carbon Tetrachloride	3.761	117	289096	11.806	ppbv	94
36) Benzene	3.654	78	326982	10.193	ppbv	99
37) 1,2-Dichloroethane	3.217	62	208468	11.281	ppbv	98
38) Trichloroethene	4.544	130	129044	9.632	ppbv	96
39) 1,2-Dichloropropane	4.308	63	117166	9.991	ppbv	93
40) 1,4-Dioxane	4.574	88	49474	9.428	ppbv #	96
41) Tetrahydrofuran	3.049	42	118637	9.265	ppbv	97
42) Bromodichloromethane	4.486	83	291226	11.387	ppbv	99
43) Methyl Methacrylate	4.875	69	160012	9.821	ppbv	95
44) 2,2,4-Trimethylpentane	4.638	57	531922	9.828	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	165316	10.111	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043157.D
 Acq On : 06 Nov 2025 08:45
 Operator : SY/MD
 Sample : VL1106ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

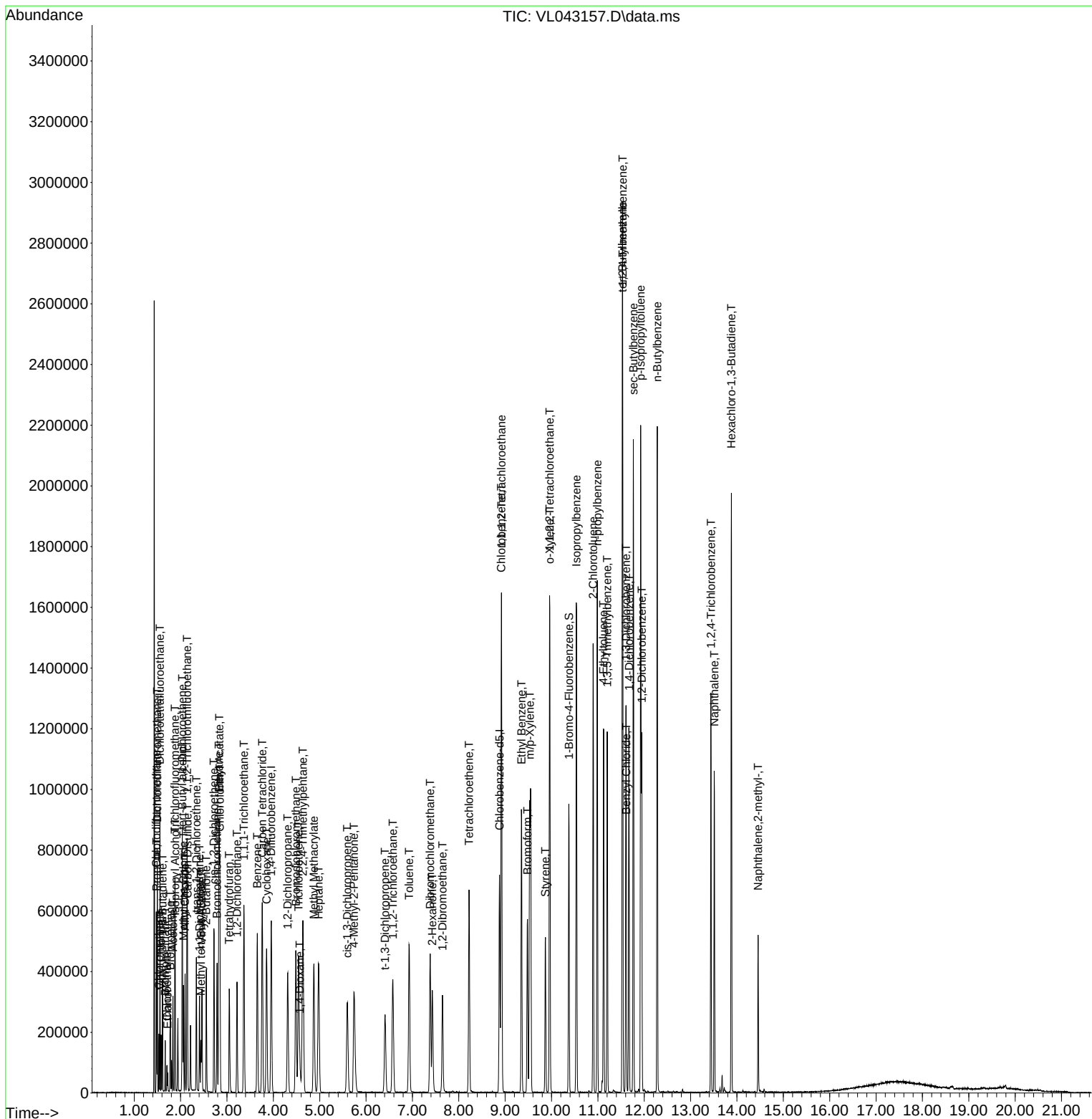
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 MSVOA_L
 ClientSampleId :
 VL1106ABS01

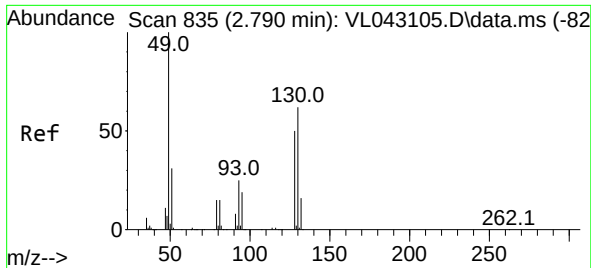
Quant Time: Nov 07 00:17:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	195336	10.001	ppbv	97
47) 1,1,2-Trichloroethane	6.580	97	130064	10.270	ppbv	92
48) Dibromochloromethane	7.383	129	234841	11.091	ppbv	98
49) Bromoform	9.480	173	199190	11.573	ppbv	99
50) 4-Methyl-2-Pentanone	5.739	43	295763	9.361	ppbv	99
51) 2-Hexanone	7.428	43	227473	9.599	ppbv #	99
52) Tetrachloroethene	8.221	164	119279	10.312	ppbv	97
53) Toluene	6.927	91	368487	9.679	ppbv	99
54) 1,2-Dibromoethane	7.648	107	205210	10.345	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	213620	11.314	ppbv	98
57) Chlorobenzene	8.917	112	286347	10.219	ppbv	97
58) Ethyl Benzene	9.351	91	529847	10.307	ppbv	97
59) m/p-Xylene	9.532	91	441757	10.774	ppbv #	29
60) o-Xylene	9.963	91	422838	10.442	ppbv	100
61) Styrene	9.865	104	179195	9.802	ppbv	99
62) Isopropylbenzene	10.539	105	762154	10.416	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	269723	9.947	ppbv	98
64) n-propylbenzene	10.989	120	201938	10.424	ppbv	98
65) tert-Butylbenzene	11.529	119	662570	10.254	ppbv	97
66) Benzyl Chloride	11.613	91	64257	8.935	ppbv	99
67) sec-Butylbenzene	11.765	105	957255	10.438	ppbv	99
69) p-Isopropyltoluene	11.924	119	795241	10.205	ppbv	98
70) n-Butylbenzene	12.280	91	798019	10.392	ppbv	99
71) 2-Chlorotoluene	10.898	91	579642	10.386	ppbv	99
72) 4-Ethyltoluene	11.121	105	530791	10.660	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	440663	10.731	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	477453	10.390	ppbv	91
75) 1,3-Dichlorobenzene	11.607	146	290341	10.894	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	291409	10.843	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	276598	10.728	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	207474	10.393	ppbv	99
79) Naphthalene	13.510	128	486413	10.127	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	142500	11.387	ppbv	97
81) 1,2,4-Trichlorobenzene	13.439	180	216292	10.849	ppbv	99

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

Quant Time: Nov 07 00:17:34 2025
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QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

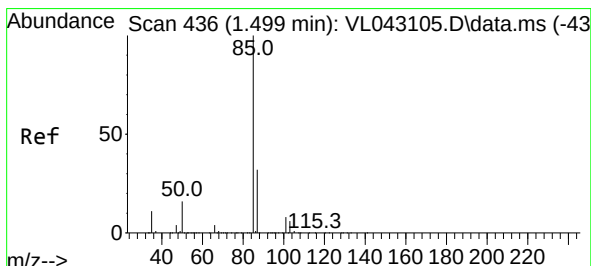
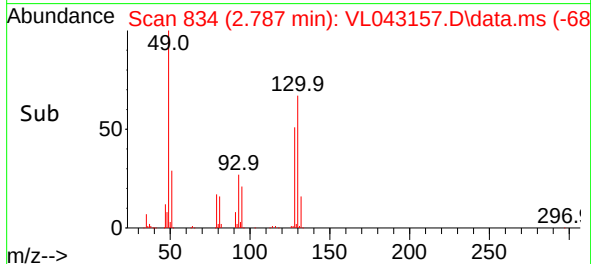
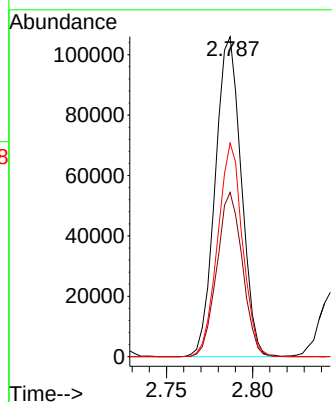
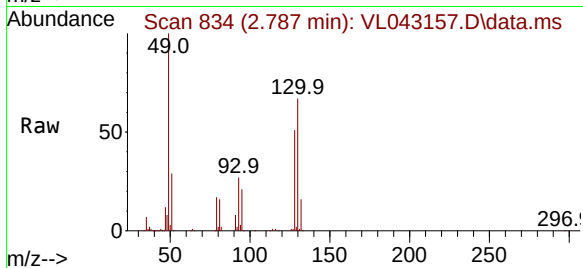




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

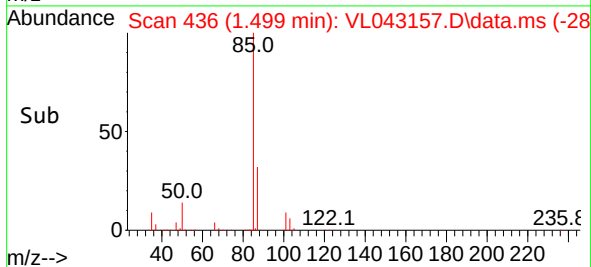
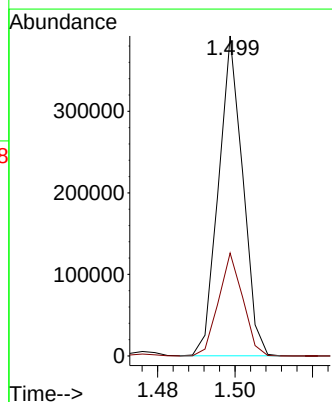
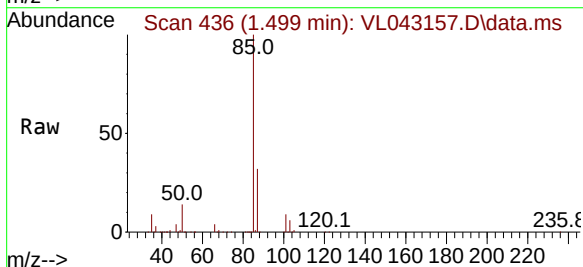
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

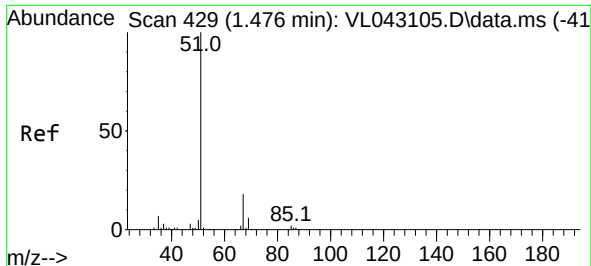
Tgt Ion: 49 Resp: 111380
 Ion Ratio Lower Upper
 49 100
 128 50.4 24.4 73.4
 130 63.9 31.0 93.0



#2
 Dichlorodifluoromethane
 Concen: 10.782 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 170728
 Ion Ratio Lower Upper
 85 100
 87 32.2 25.3 37.9

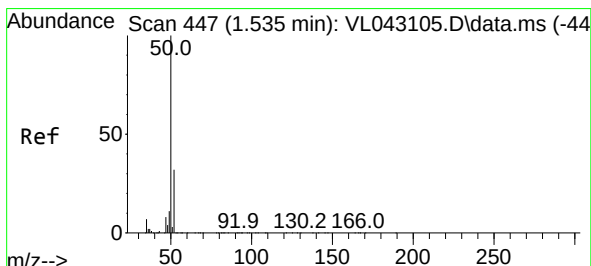
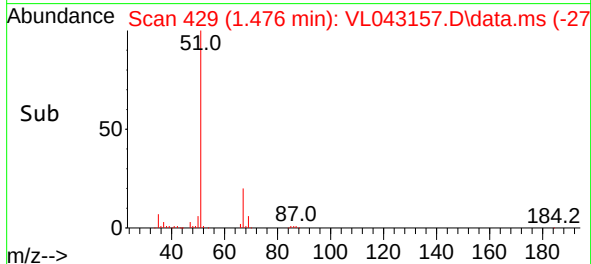
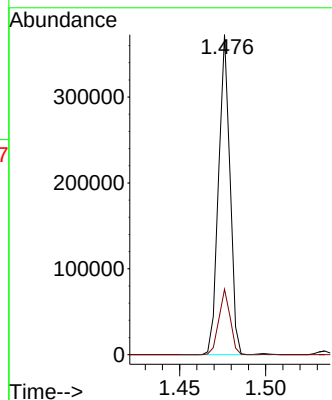
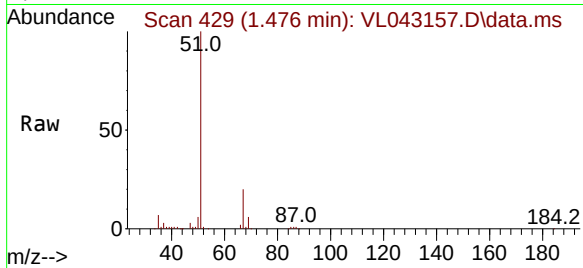




#3
Chlorodifluoromethane
Concen: 10.011 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

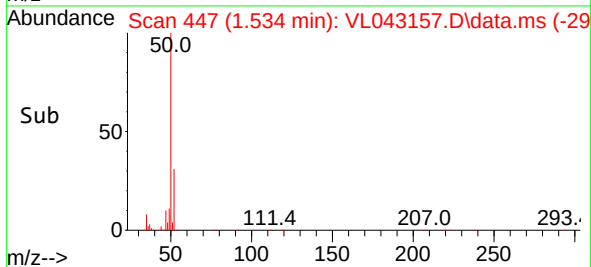
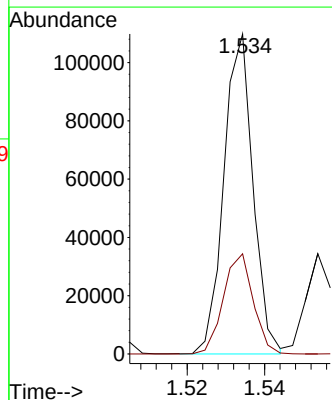
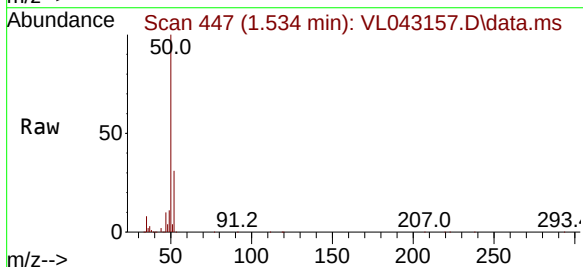
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

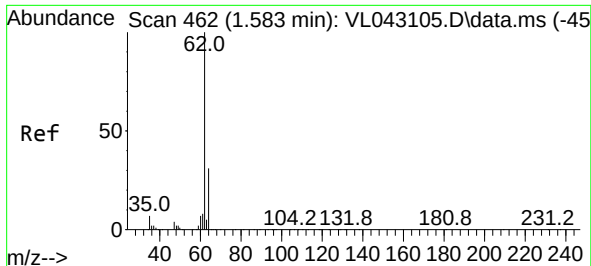
Tgt Ion: 51 Resp: 171506
Ion Ratio Lower Upper
51 100
67 20.4 15.1 22.7



#4
Chloromethane
Concen: 9.134 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 50 Resp: 57299
Ion Ratio Lower Upper
50 100
52 31.3 25.2 37.8

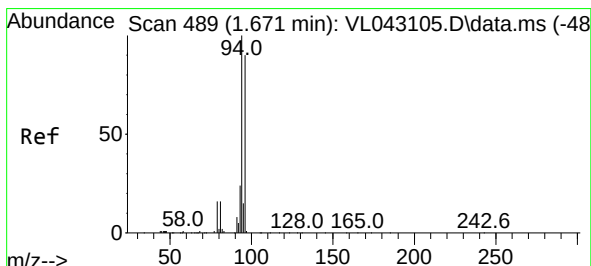
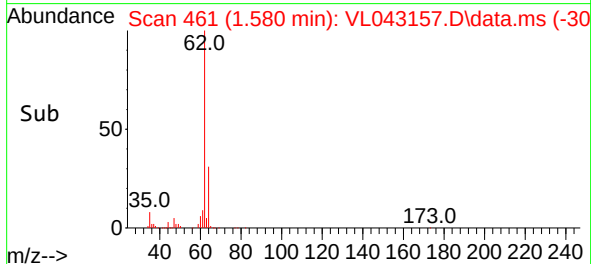
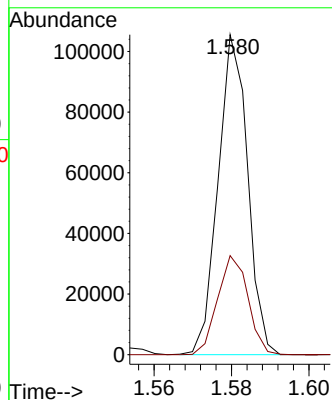
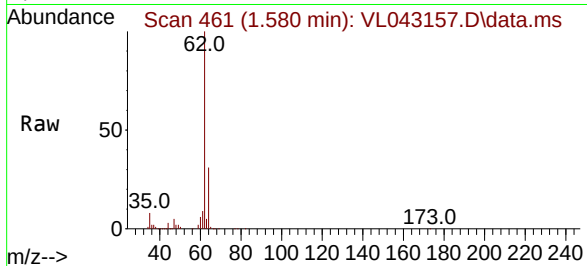




#5
 Vinyl Chloride
 Concen: 9.085 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

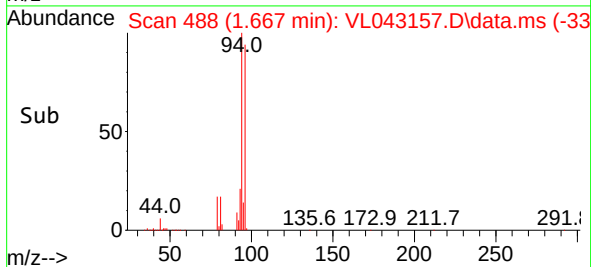
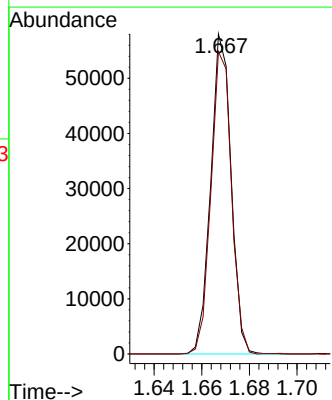
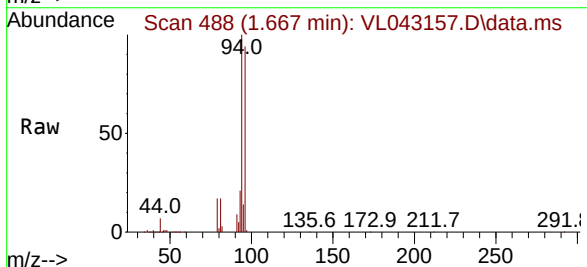
Instrument :
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 ClientSampleId :
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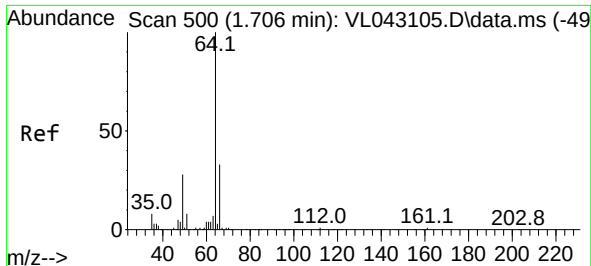
Tgt Ion: 62 Resp: 55895
 Ion Ratio Lower Upper
 62 100
 64 31.0 24.6 36.8



#6
 Bromomethane
 Concen: 10.238 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 94 Resp: 34540
 Ion Ratio Lower Upper
 94 100
 96 94.5 72.2 108.4

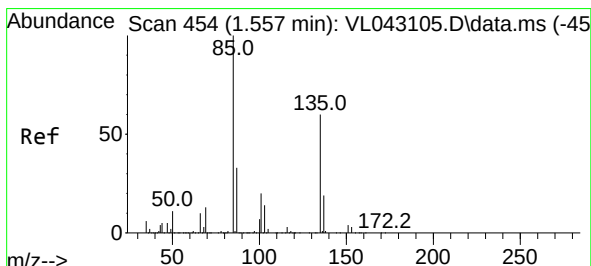
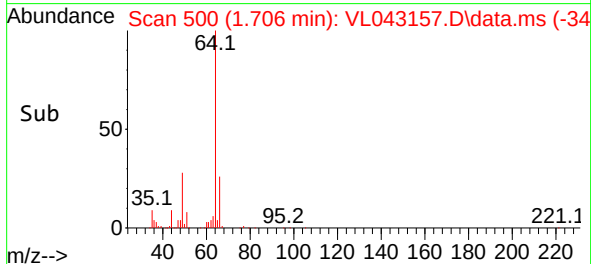
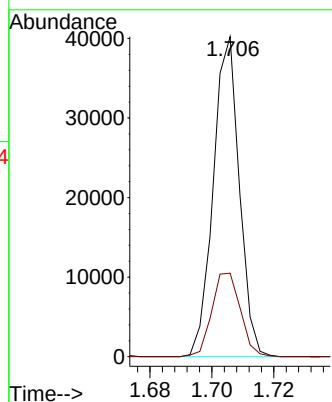
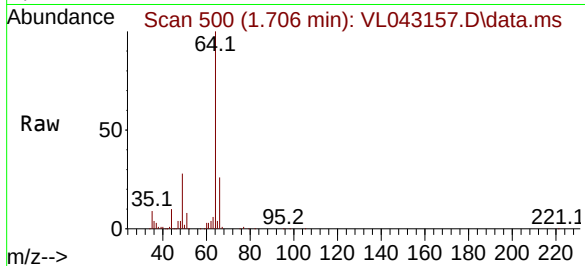




#7
Chloroethane
Concen: 9.342 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

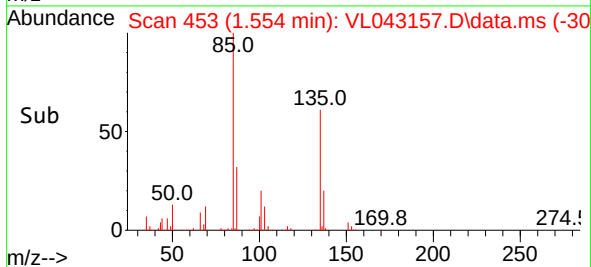
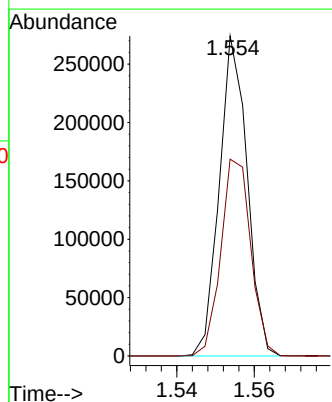
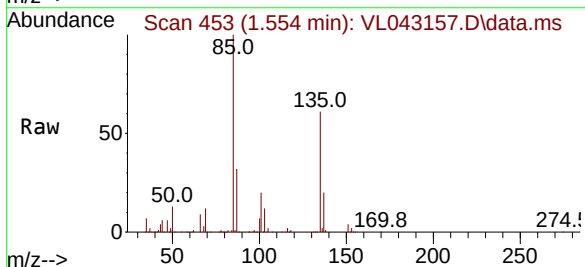
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

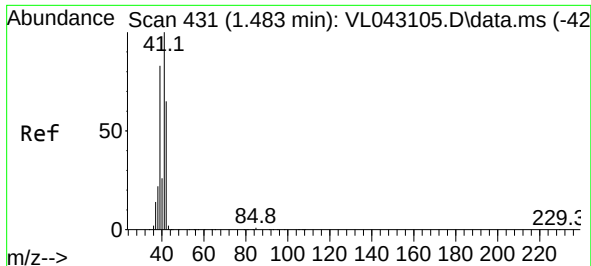
Tgt Ion: 64 Resp: 23501
Ion Ratio Lower Upper
64 100
66 26.1 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 10.661 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 136433
Ion Ratio Lower Upper
85 100
135 66.6 48.2 72.4





#9

Propene

Concen: 8.523 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_1

ClientSampleId :

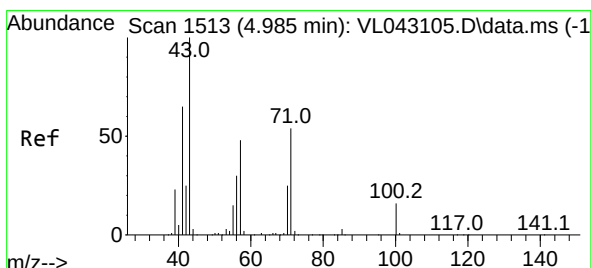
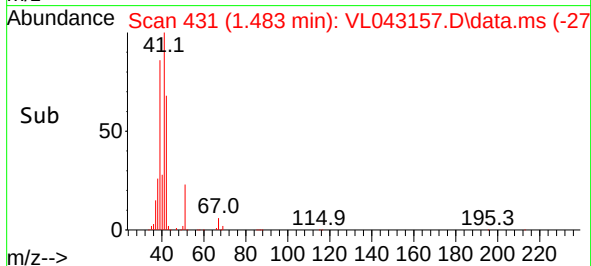
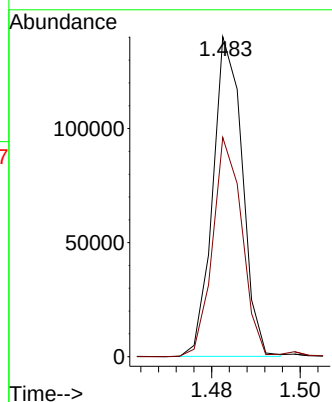
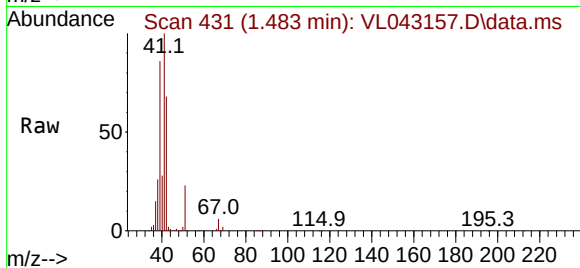
VL1106ABS01

Tgt Ion: 41 Resp: 64760

Ion Ratio Lower Upper

41 100

42 69.6 55.1 82.7



#10

Heptane

Concen: 8.683 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.007 min

Lab File: VL043157.D

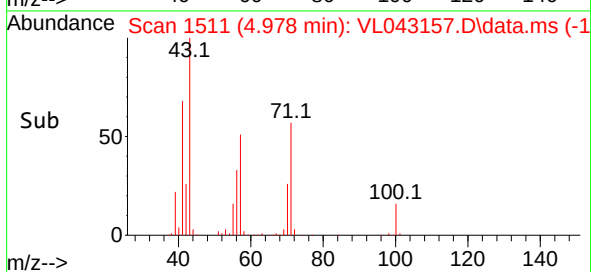
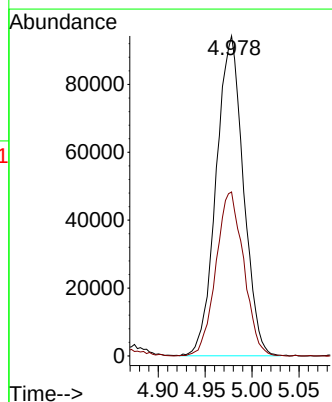
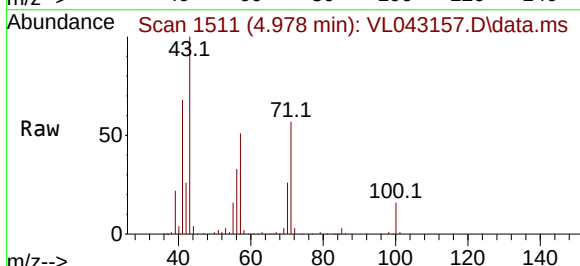
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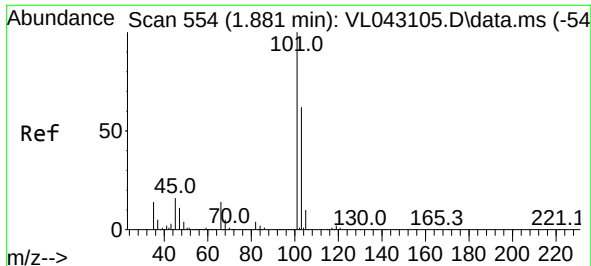
Tgt Ion: 43 Resp: 189938

Ion Ratio Lower Upper

43 100

57 52.3 40.8 61.2

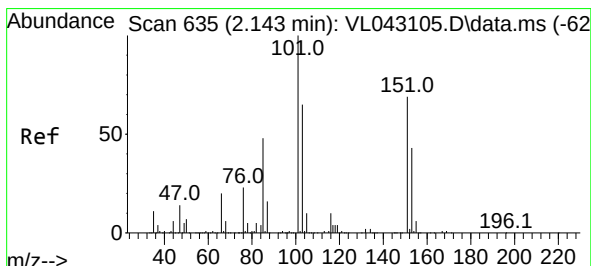
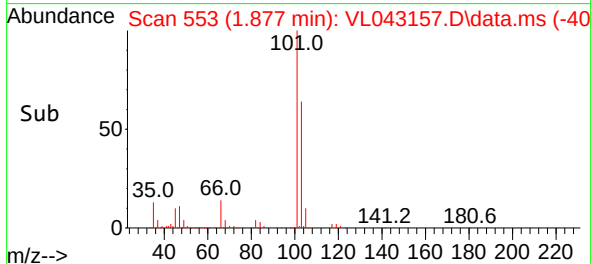
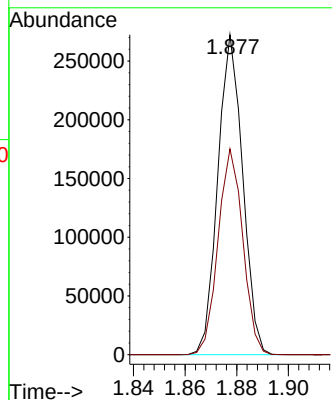
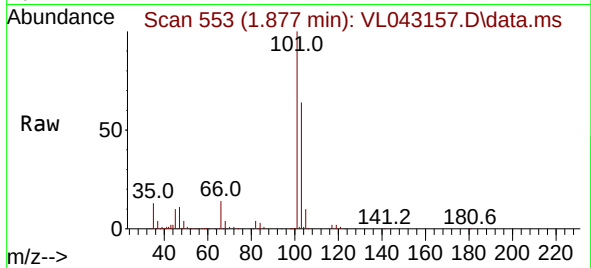




#11
 Trichlorofluoromethane
 Concen: 11.748 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

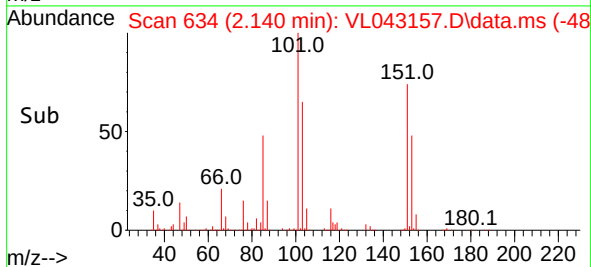
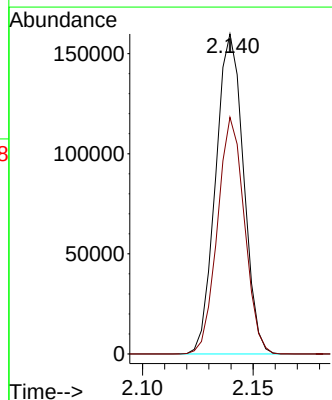
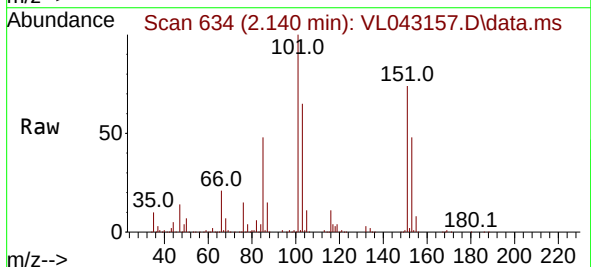
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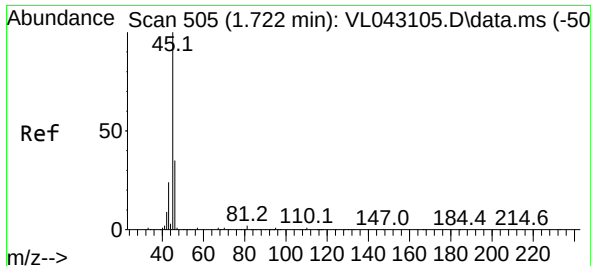
Tgt Ion:101 Resp: 181952
 Ion Ratio Lower Upper
 101 100
 103 64.3 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.222 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion:101 Resp: 139934
 Ion Ratio Lower Upper
 101 100
 151 71.7 54.7 82.1

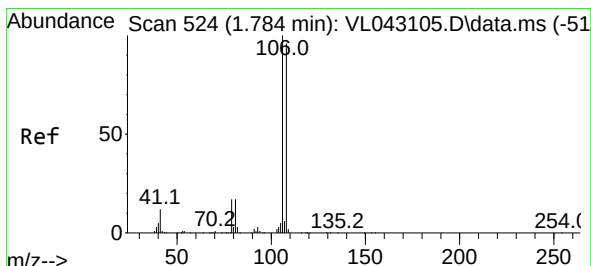
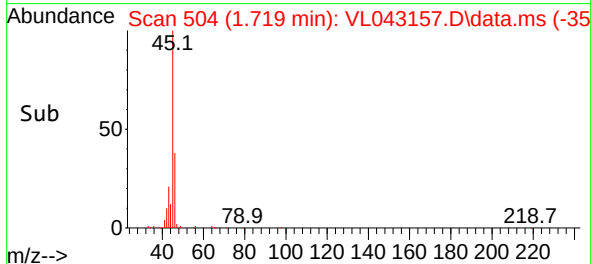
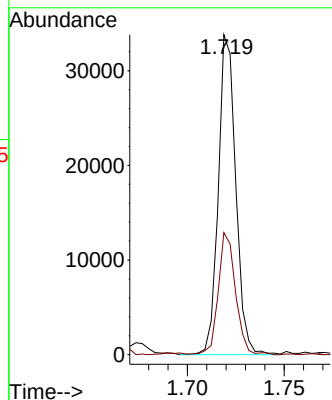
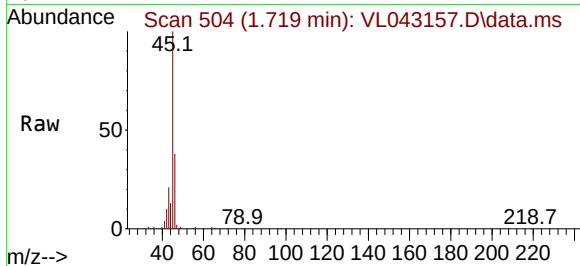




#13
Ethanol
Concen: 7.530 ppbv
RT: 1.719 min Scan# 505
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

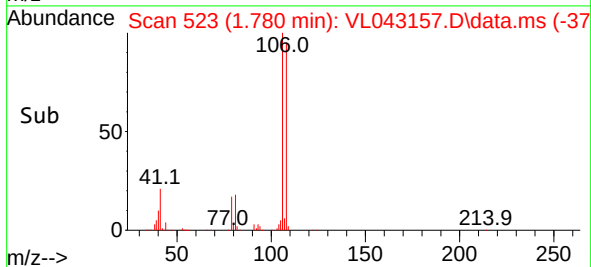
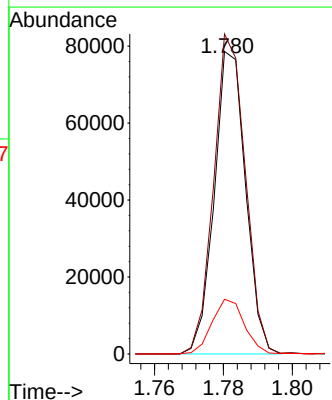
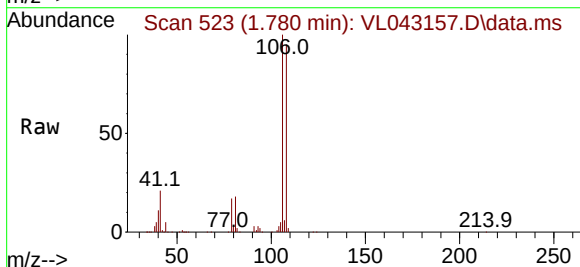
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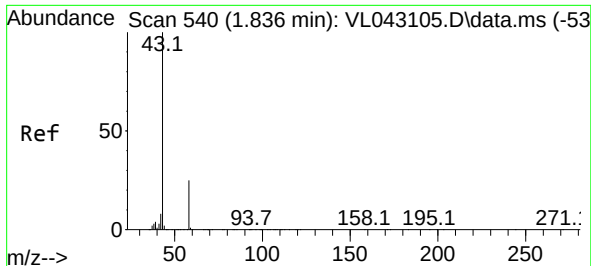
Tgt Ion: 45 Resp: 21163
Ion Ratio Lower Upper
45 100
46 38.3 14.7 58.9



#14
Bromoethene
Concen: 10.727 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 108 Resp: 49693
Ion Ratio Lower Upper
108 100
106 106.7 84.4 126.6
79 18.8 15.3 22.9

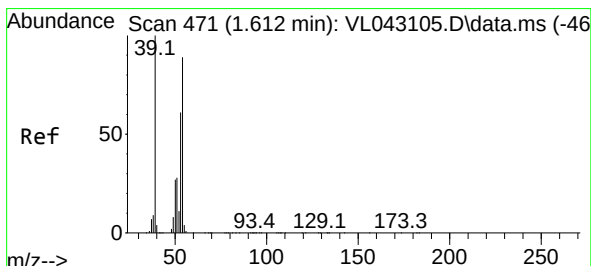
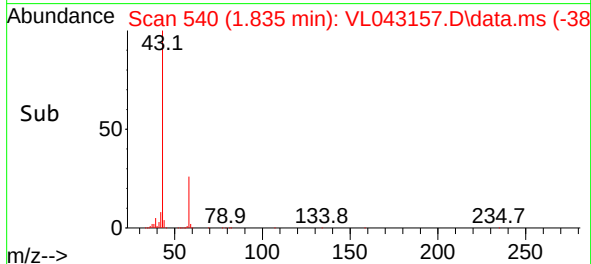
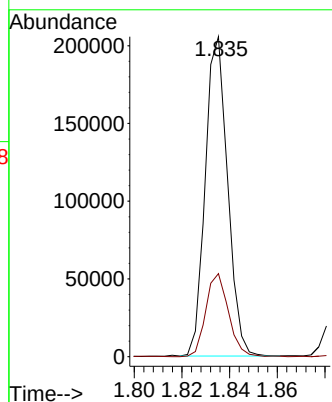
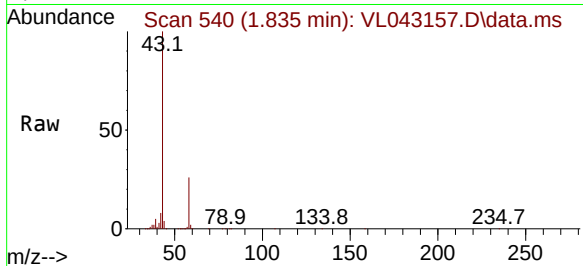




#15
Acetone
Concen: 8.934 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

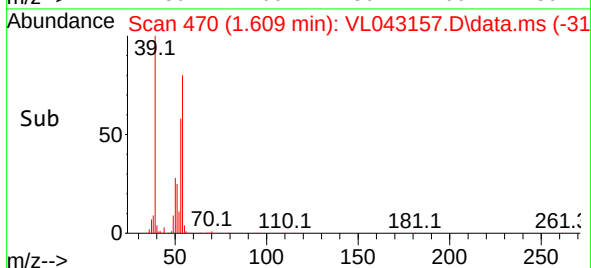
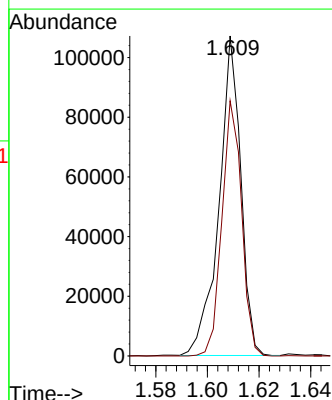
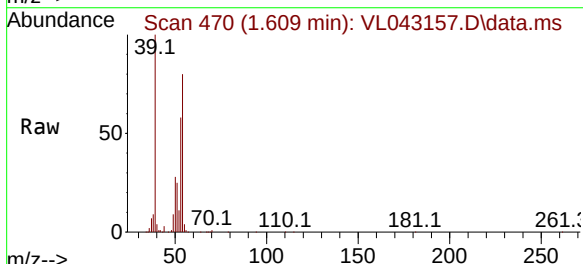
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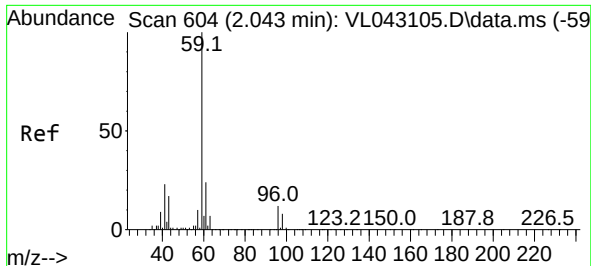
Tgt Ion: 43 Resp: 134115
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2



#16
1,3-Butadiene
Concen: 8.753 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 39 Resp: 62625
Ion Ratio Lower Upper
39 100
54 72.1 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.865 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_1

ClientSampleId :

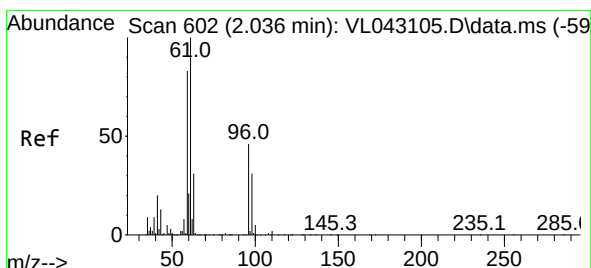
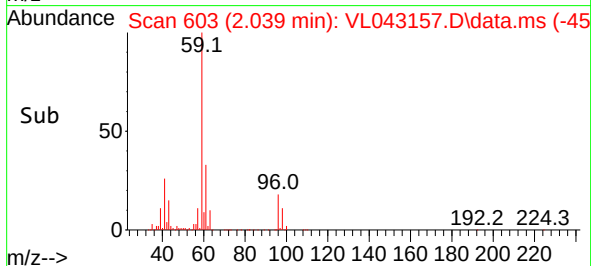
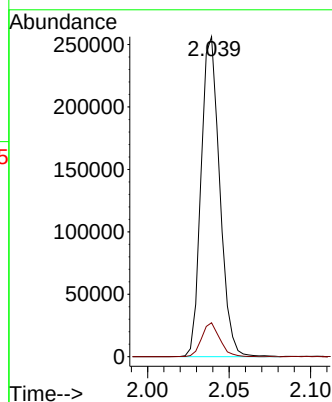
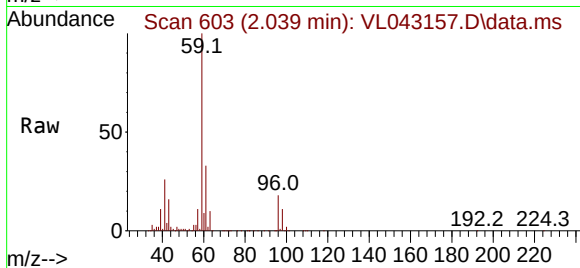
VL1106ABS01

Tgt Ion: 59 Resp: 203295

Ion Ratio Lower Upper

59 100

57 10.4 8.2 12.4



#18

1,1-Dichloroethene

Concen: 10.957 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

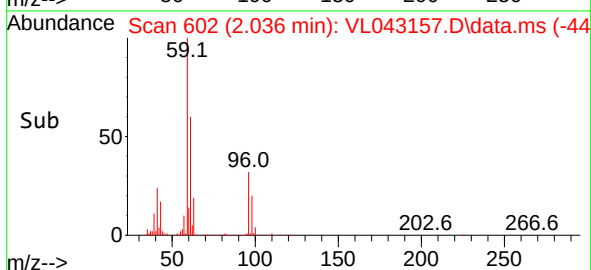
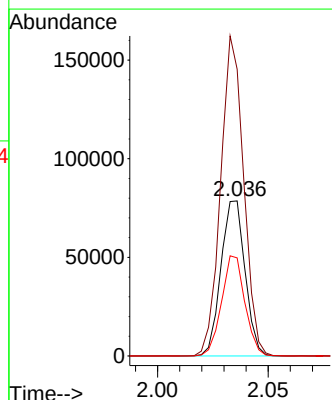
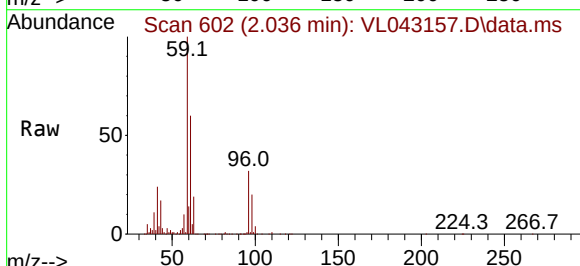
Tgt Ion: 96 Resp: 59563

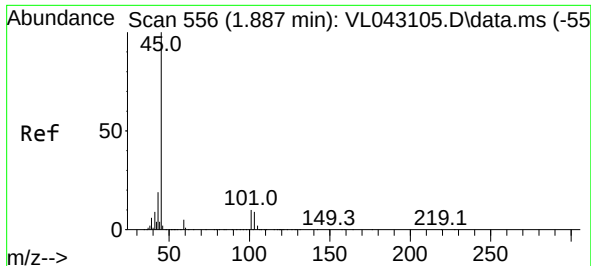
Ion Ratio Lower Upper

96 100

61 185.0 173.4 260.0

98 63.3 53.2 79.8

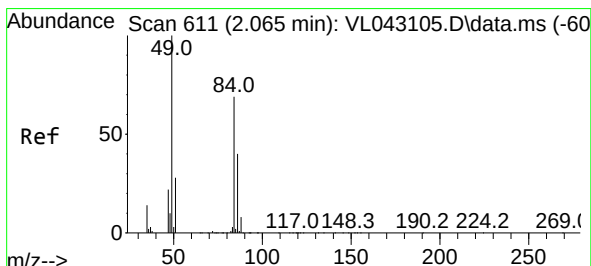
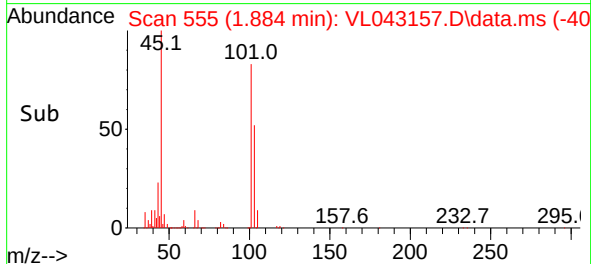
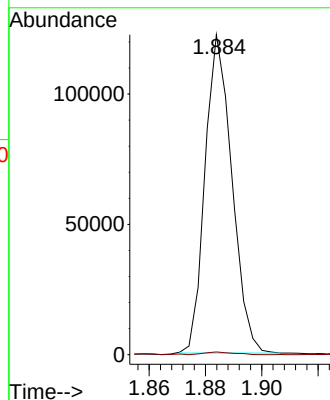
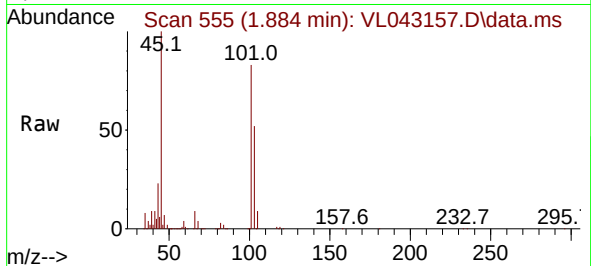




#19
Isopropyl Alcohol
Concen: 8.657 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

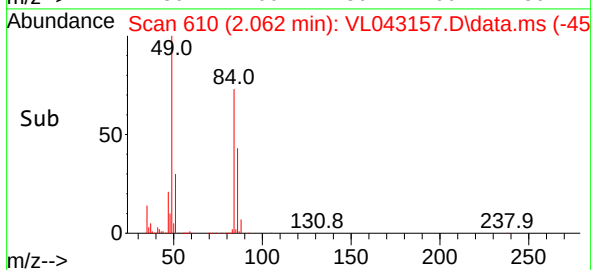
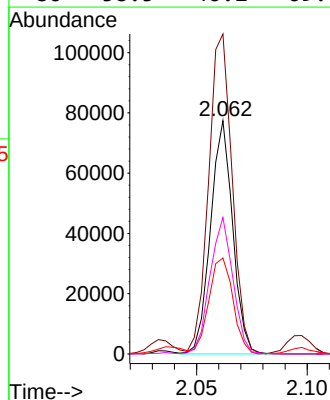
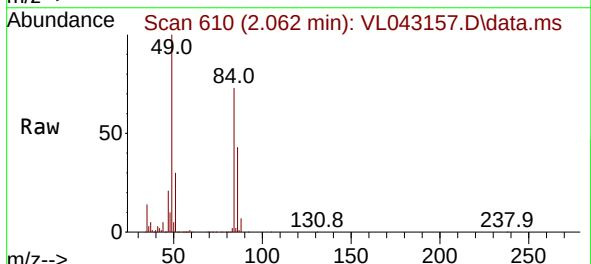
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

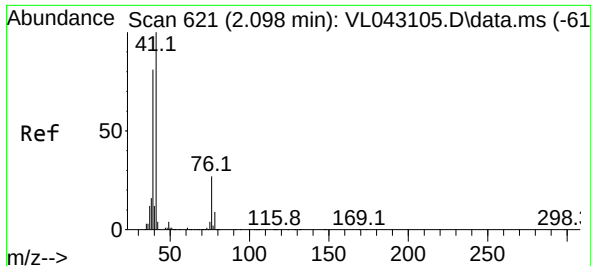
Tgt Ion: 45 Resp: 80943
Ion Ratio Lower Upper
45 100
58 44.1 31.3 46.9



#20
Methylene Chloride
Concen: 9.085 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 84 Resp: 53912
Ion Ratio Lower Upper
84 100
49 135.7 116.6 175.0
51 40.7 34.8 52.2
86 58.5 46.2 69.4

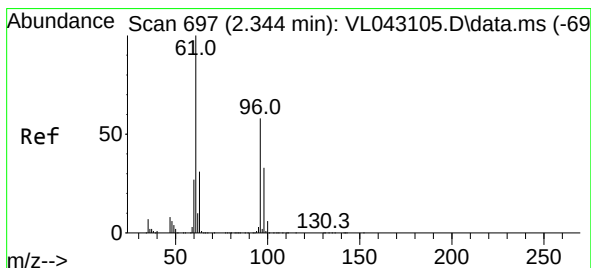
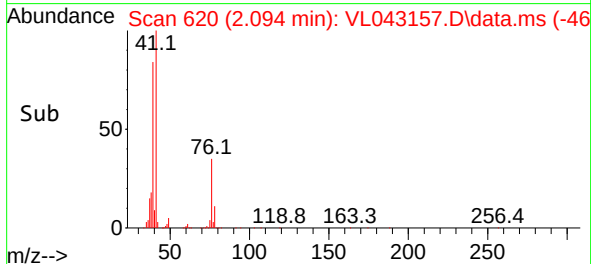
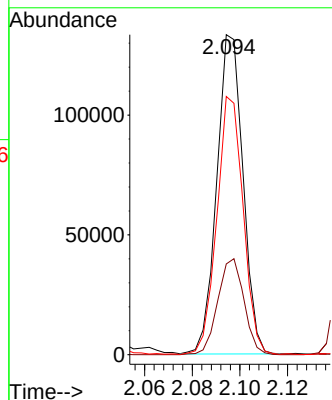
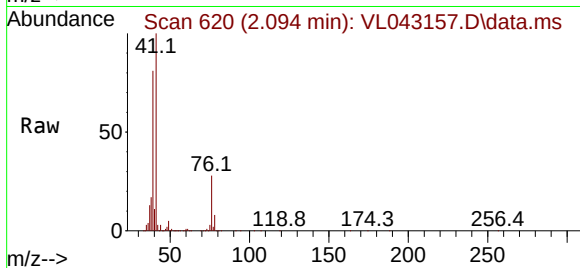




#21
 Allyl Chloride
 Concen: 9.210 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

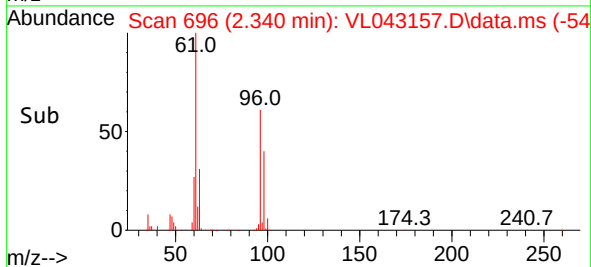
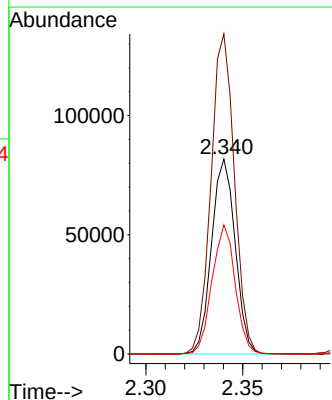
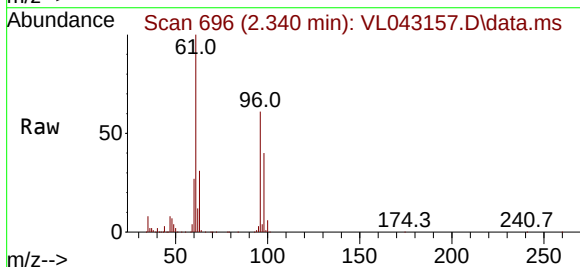
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1106ABS01

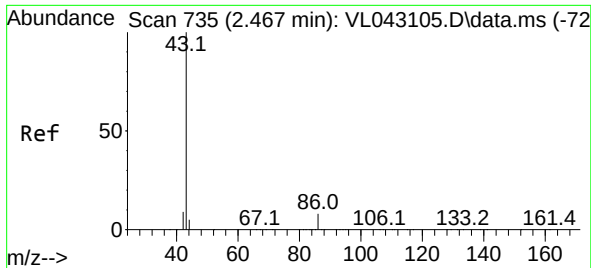
Tgt Ion: 41 Resp: 101879
 Ion Ratio Lower Upper
 41 100
 76 30.0 21.5 32.3
 39 81.2 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 10.665 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 96 Resp: 69305
 Ion Ratio Lower Upper
 96 100
 61 164.1 137.0 205.6
 98 66.3 45.5 68.3

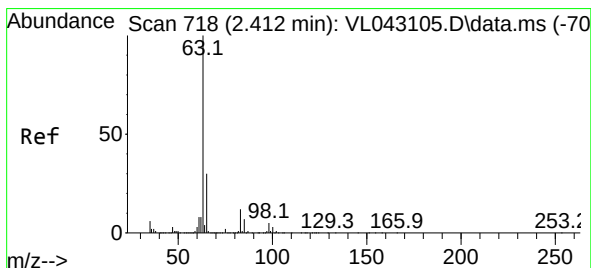
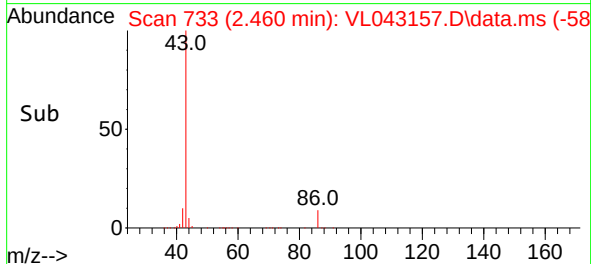
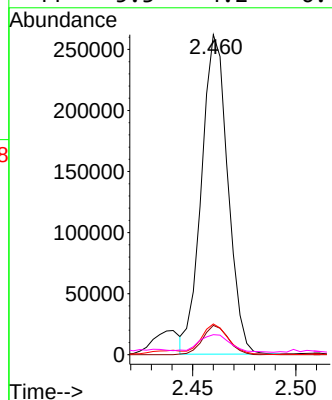
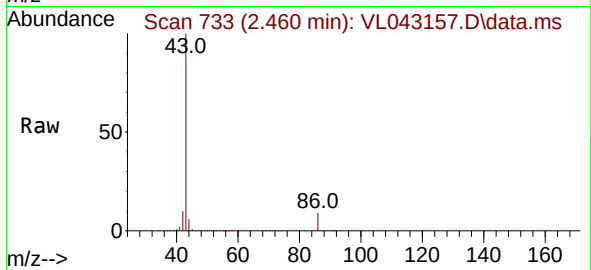




#23
 Vinyl Acetate
 Concen: 10.556 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.007 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

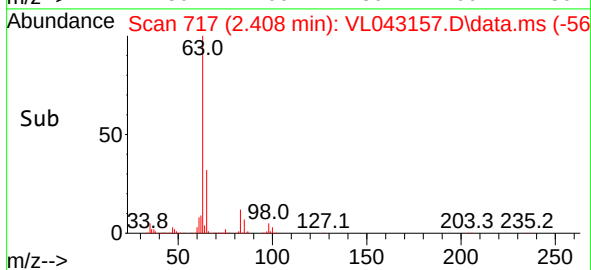
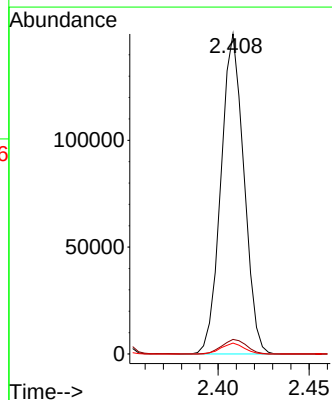
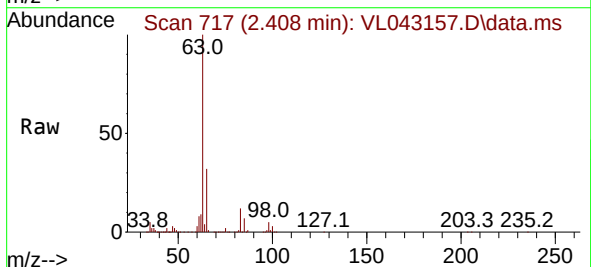
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1106ABS01

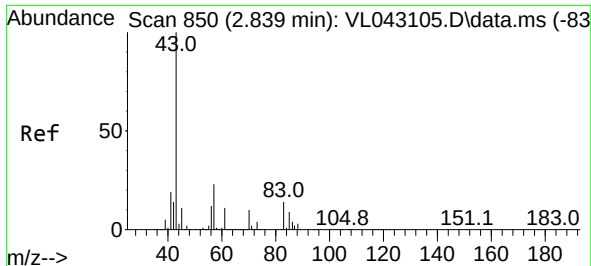
Tgt Ion: 43	Resp: 232125
Ion Ratio	Lower Upper
43 100	
86 9.2	6.2 9.2
42 9.5	7.6 11.4
44 5.3	4.2 6.4



#24
 1,1-Dichloroethane
 Concen: 10.482 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 63	Resp: 131599
Ion Ratio	Lower Upper
63 100	
98 4.5	2.6 7.8
100 3.4	1.5 4.4

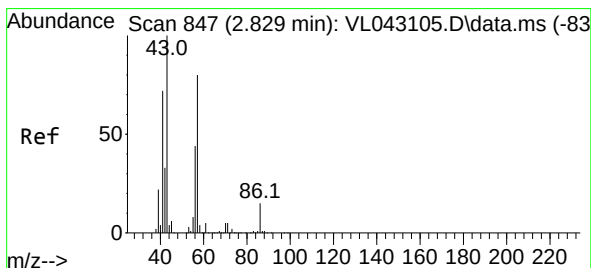
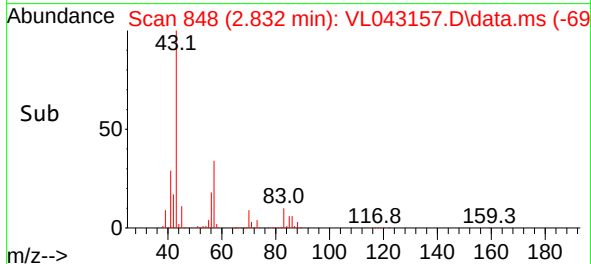
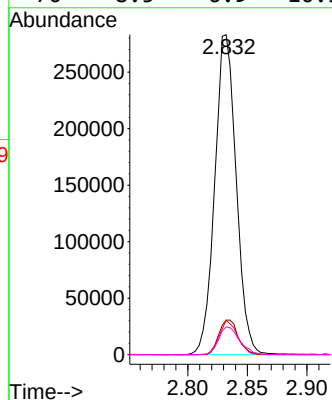
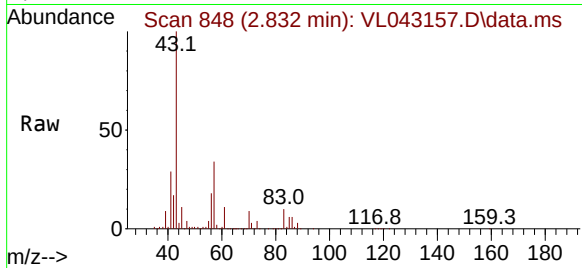




#25
Ethyl Acetate
Concen: 9.513 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

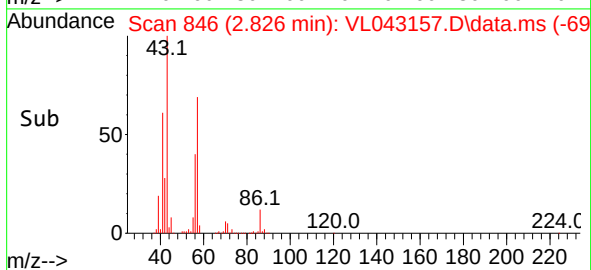
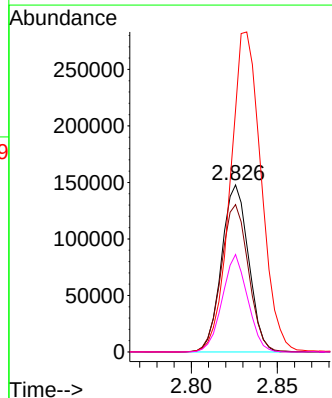
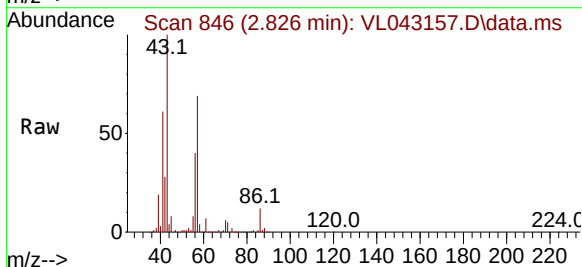
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

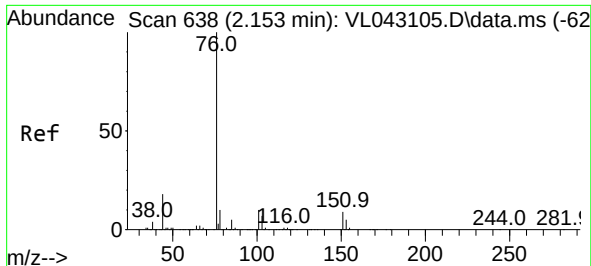
Tgt Ion:	43	Resp:	354153
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	9.0	7.0	10.6
70	8.5	6.9	10.3



#26
Hexane
Concen: 9.387 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:	57	Resp:	161029
Ion	Ratio	Lower	Upper
57	100		
41	90.3	71.4	107.0
43	220.2	178.5	267.7
56	55.0	42.2	63.4

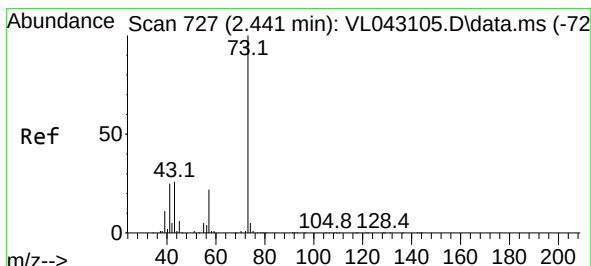
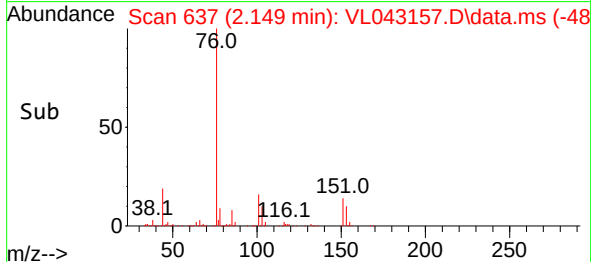
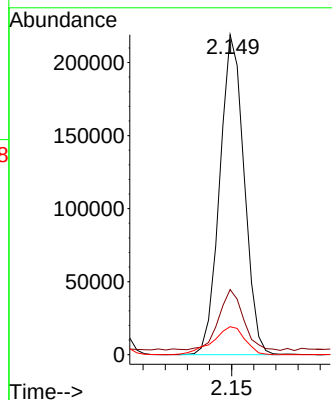
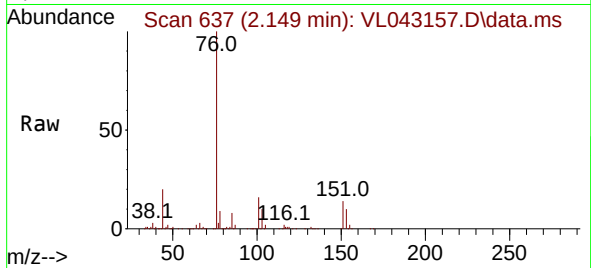




#27
Carbon Disulfide
Concen: 10.672 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

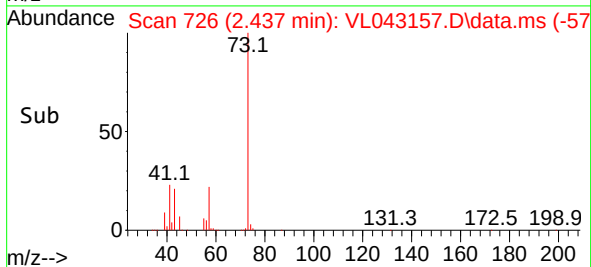
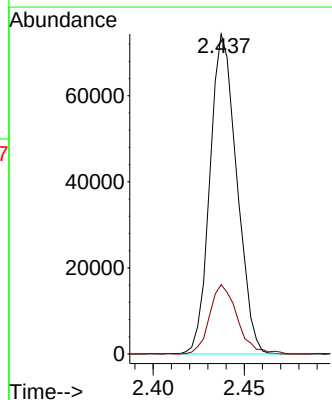
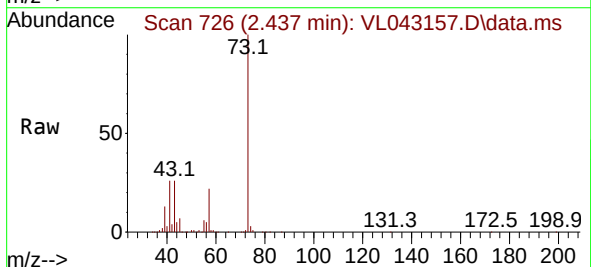
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABS01

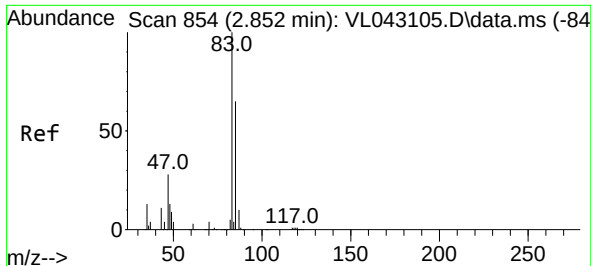
Tgt Ion: 76 Resp: 167737
Ion Ratio Lower Upper
76 100
44 19.4 16.7 25.1
78 11.4 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.775 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 73 Resp: 76290
Ion Ratio Lower Upper
73 100
57 22.4 20.5 30.7





#29

Chloroform

Concen: 10.958 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

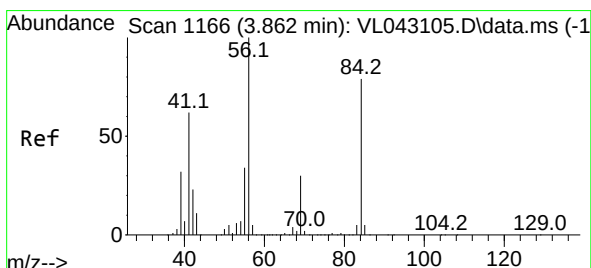
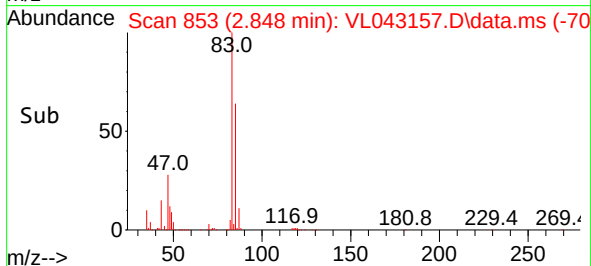
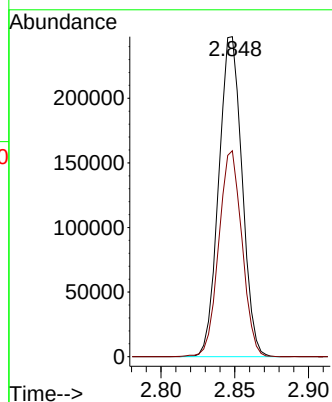
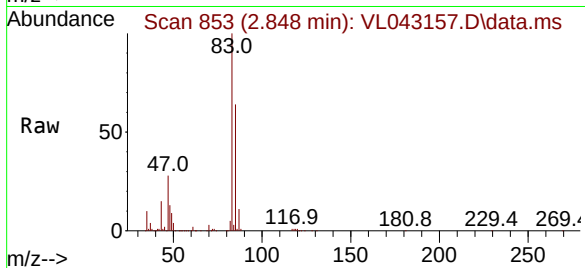
VL1106ABS01

Tgt Ion: 83 Resp: 272377

Ion Ratio Lower Upper

83 100

85 64.3 51.8 77.6



#30

Cyclohexane

Concen: 9.287 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

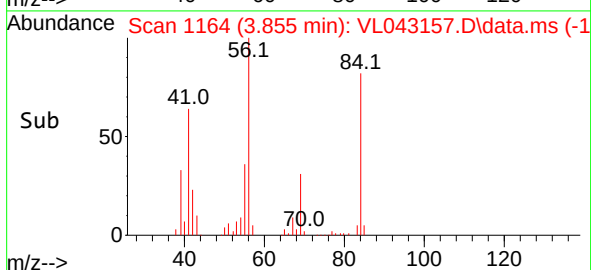
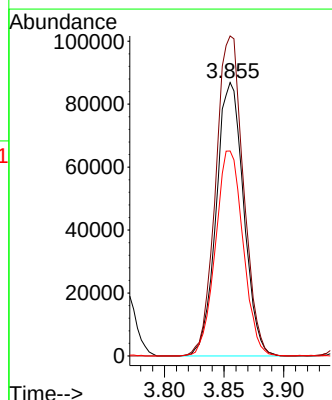
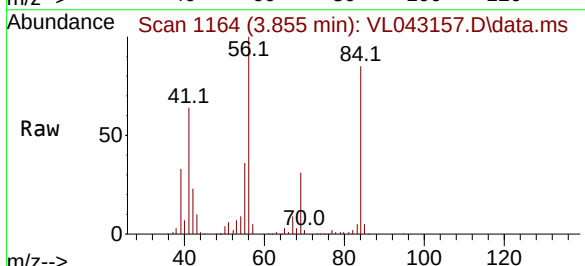
Tgt Ion: 84 Resp: 139050

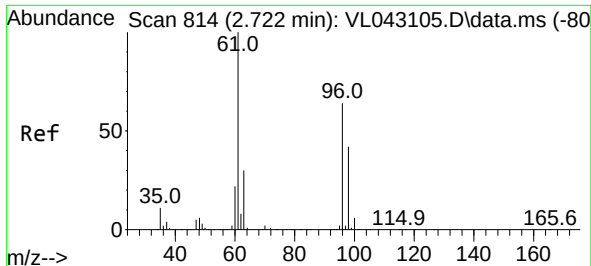
Ion Ratio Lower Upper

84 100

56 118.3 100.9 151.3

41 75.6 63.8 95.6

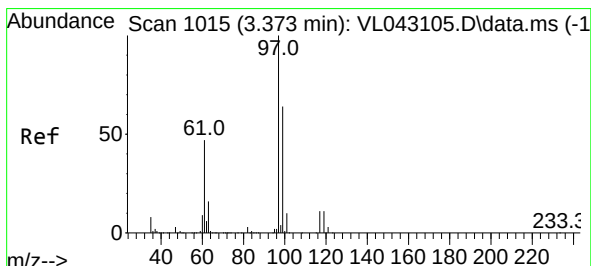
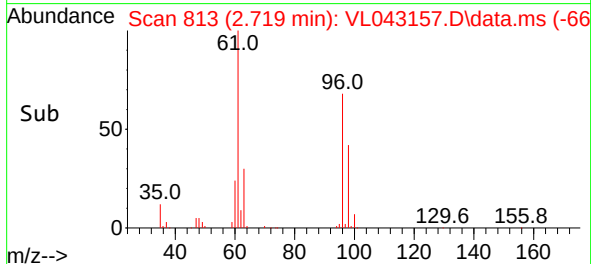
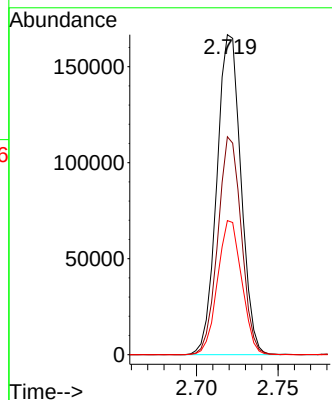
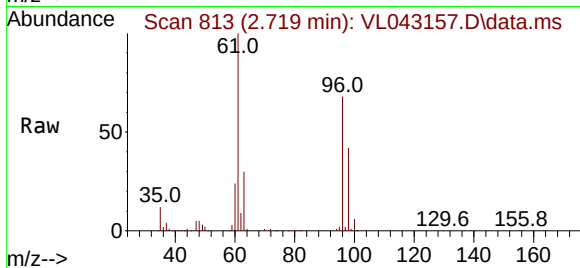




#31
 cis-1,2-Dichloroethene
 Concen: 10.456 ppbv
 RT: 2.719 min Scan# 814
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

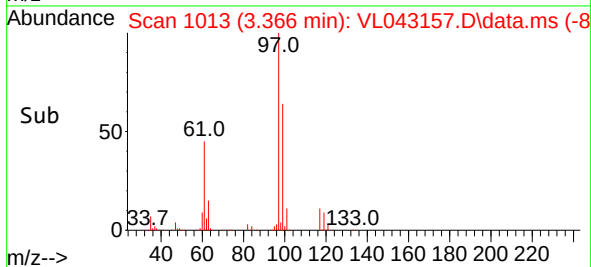
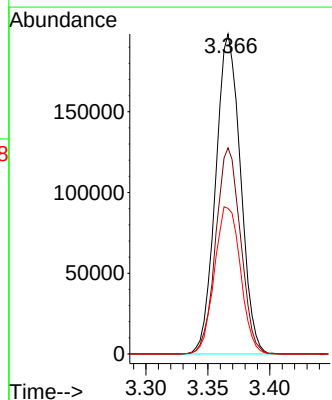
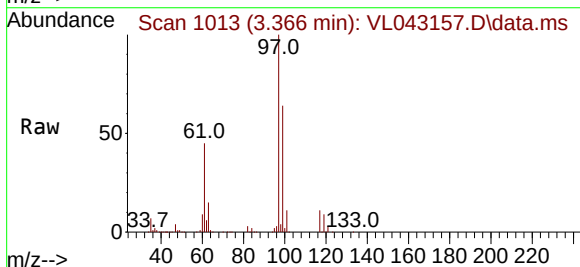
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

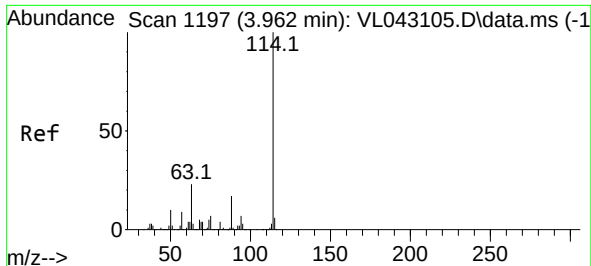
Tgt Ion: 61 Resp: 171275
 Ion Ratio Lower Upper
 61 100
 96 68.1 51.0 76.6
 98 41.9 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 10.684 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.007 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 97 Resp: 276541
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.3 76.9
 61 48.4 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_1

ClientSampleId :

VL1106ABS01

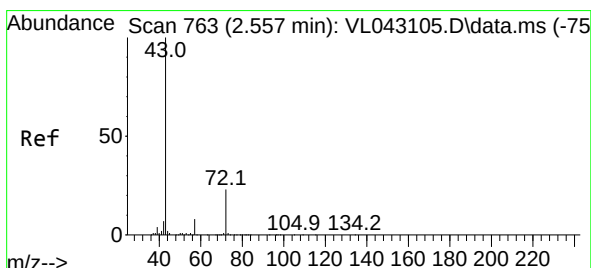
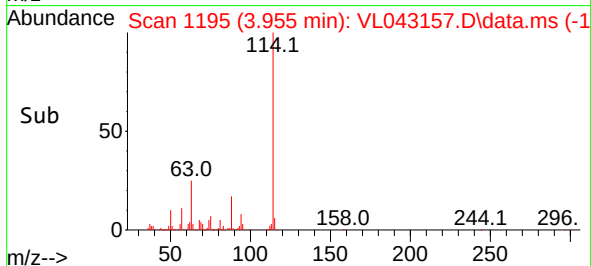
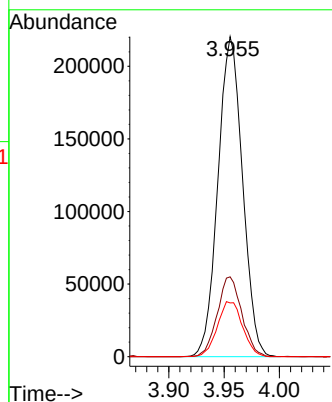
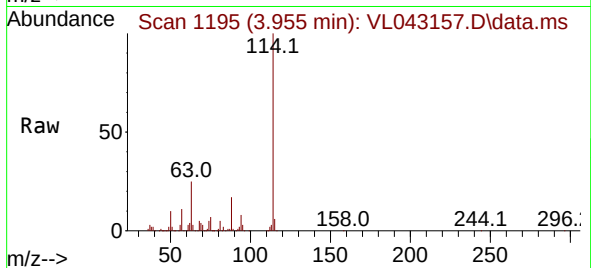
Tgt Ion:114 Resp: 340583

Ion Ratio Lower Upper

114 100

63 24.9 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 10.367 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.004 min

Lab File: VL043157.D

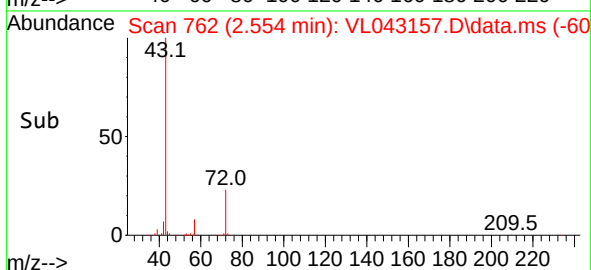
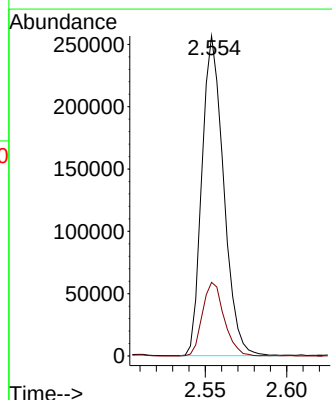
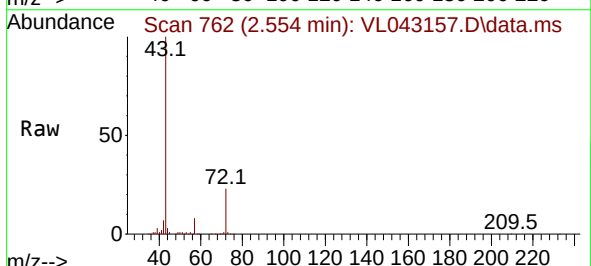
Acq: 06 Nov 2025 08:45

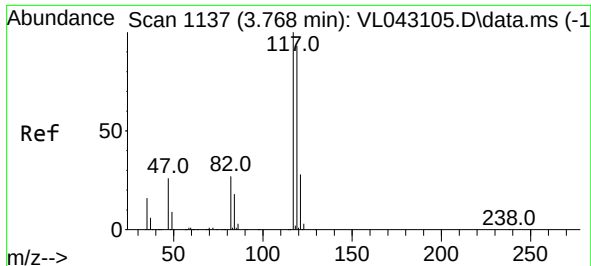
Tgt Ion: 43 Resp: 237347

Ion Ratio Lower Upper

43 100

72 23.2 18.4 27.6

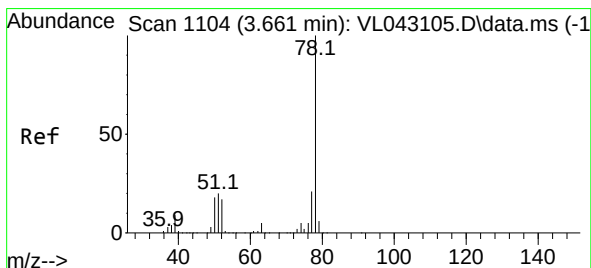
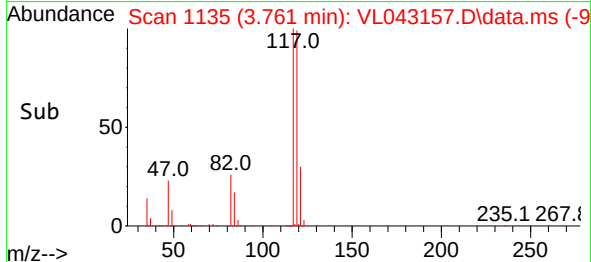
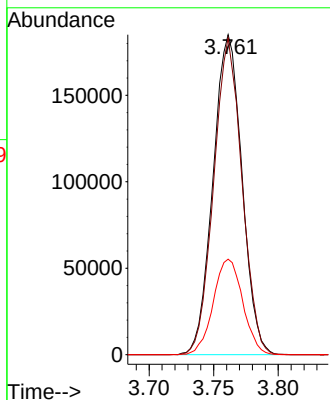
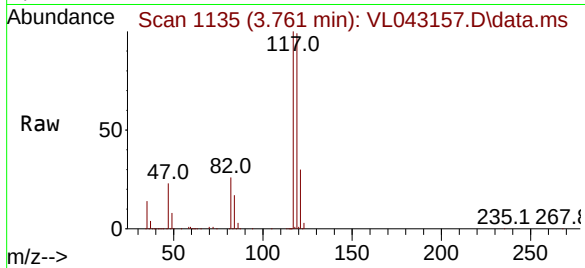




#35
Carbon Tetrachloride
Concen: 11.806 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

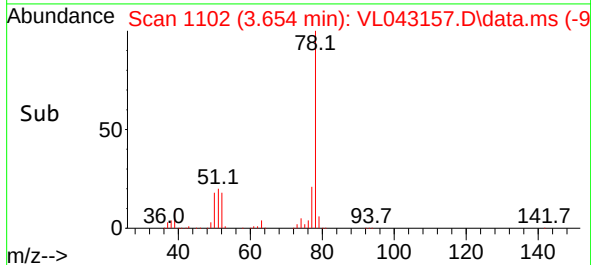
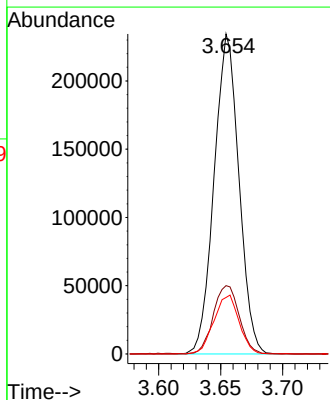
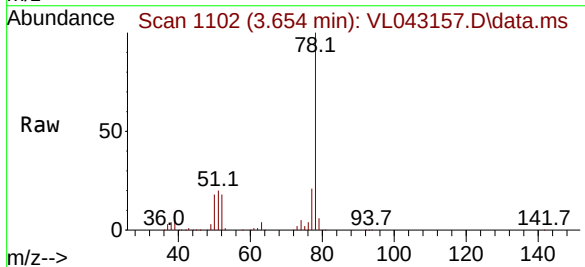
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

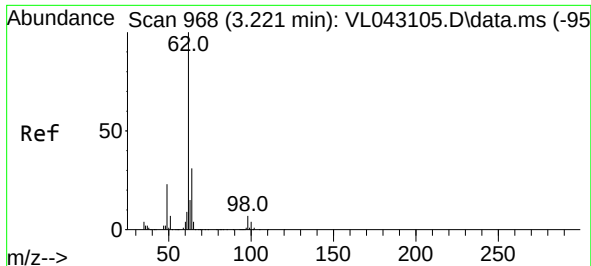
Tgt Ion:117 Resp: 289096
Ion Ratio Lower Upper
117 100
119 98.9 74.1 111.1
121 29.9 22.2 33.2



#36
Benzene
Concen: 10.193 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 78 Resp: 326982
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 17.6 14.6 22.0

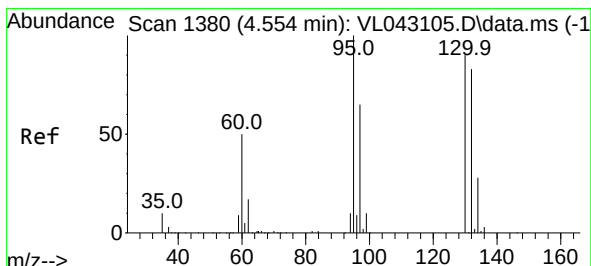
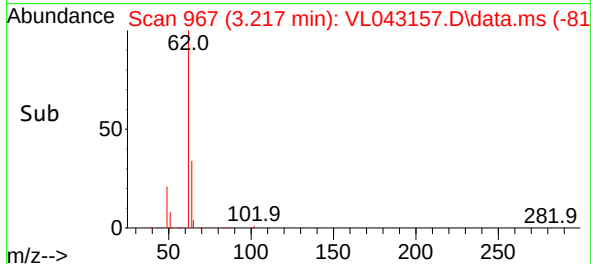
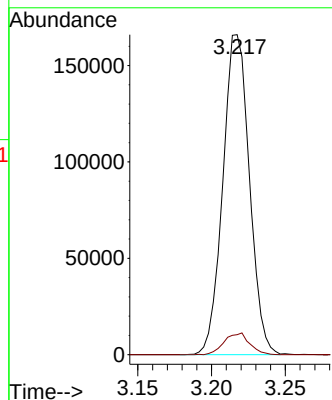
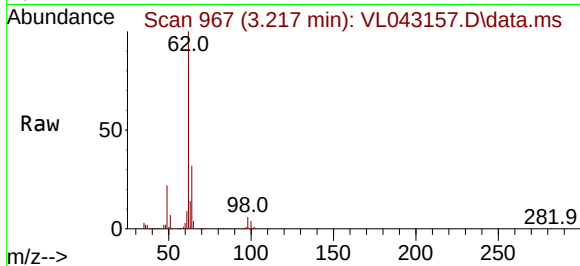




#37
1,2-Dichloroethane
Concen: 11.281 ppbv
RT: 3.217 min Scan# 90
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

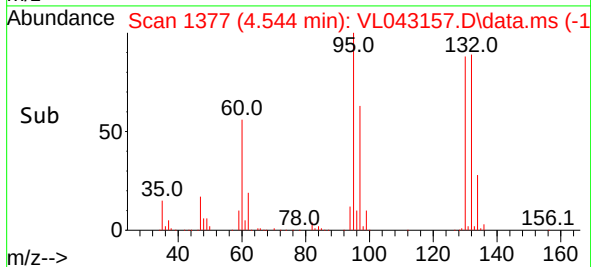
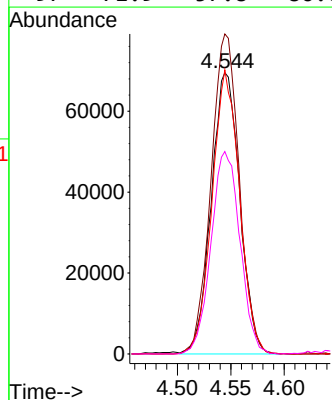
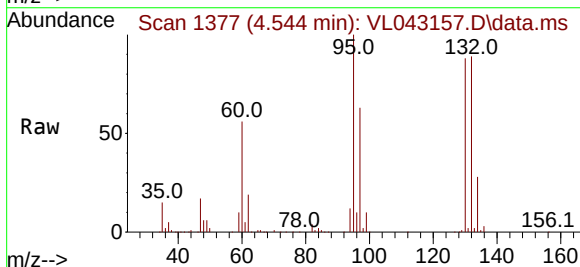
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

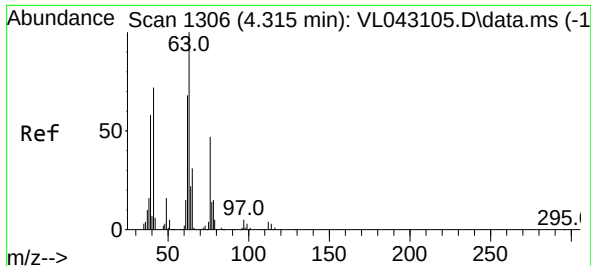
Tgt Ion: 62 Resp: 208468
Ion Ratio Lower Upper
62 100
98 6.5 5.8 8.6



#38
Trichloroethene
Concen: 9.632 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:130 Resp: 129044
Ion Ratio Lower Upper
130 100
95 113.7 88.6 133.0
132 100.9 73.4 110.0
97 71.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.991 ppbv

RT: 4.308 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_1

ClientSampleId :

VL1106ABS01

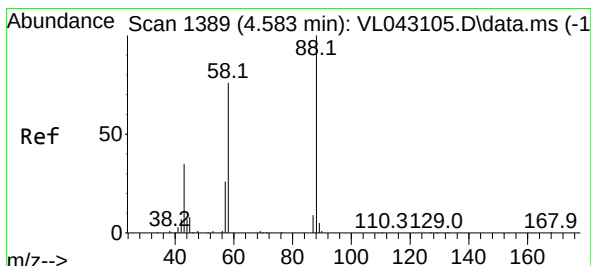
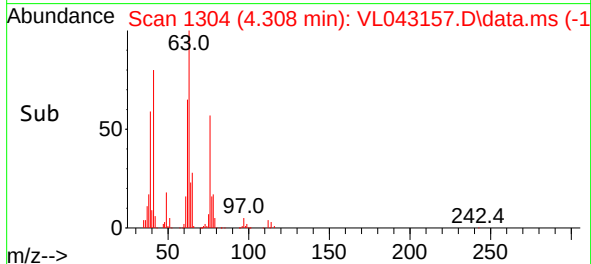
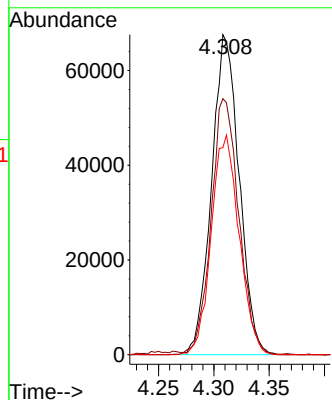
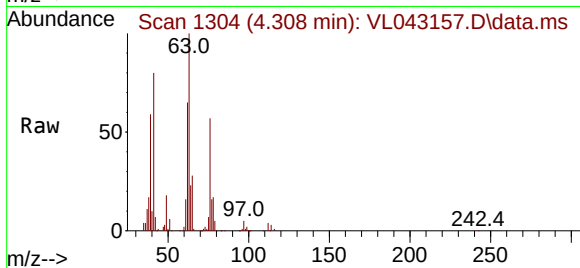
Tgt Ion: 63 Resp: 117166

Ion Ratio Lower Upper

63 100

41 79.8 58.0 87.0

62 64.7 54.7 82.1



#40

1,4-Dioxane

Concen: 9.428 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion: 88 Resp: 49474

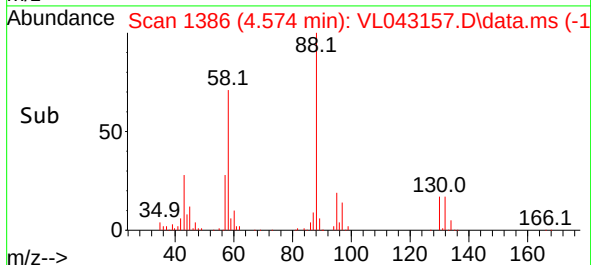
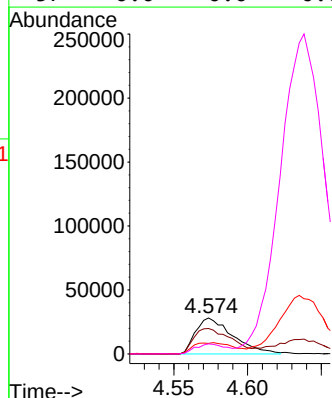
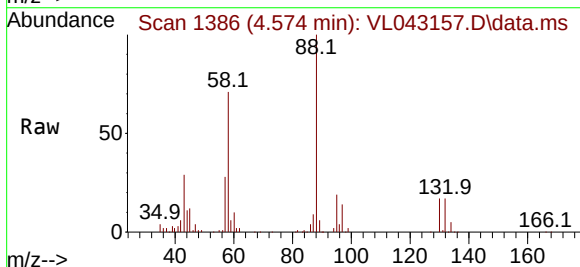
Ion Ratio Lower Upper

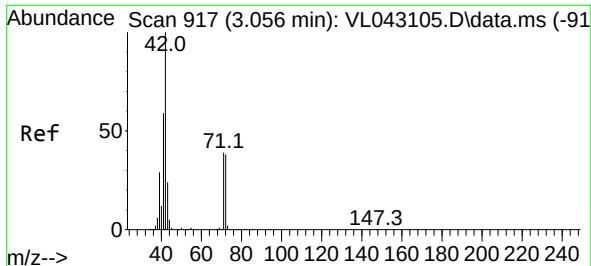
88 100

58 74.4 61.1 91.7

43 35.1 24.0 36.0

57 0.0 0.0 0.0

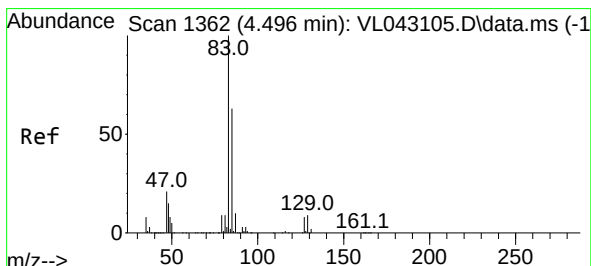
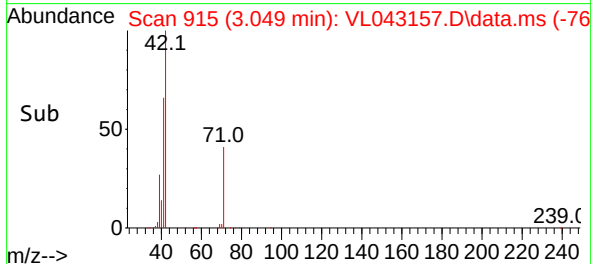
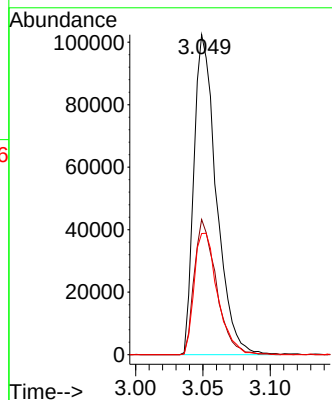
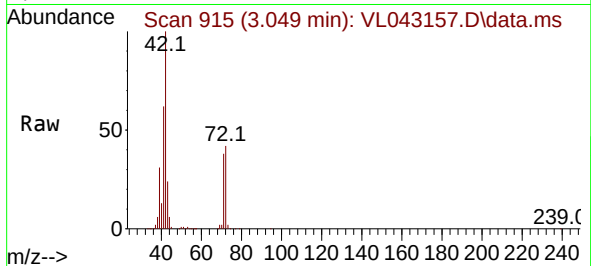




#41
Tetrahydrofuran
Concen: 9.265 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

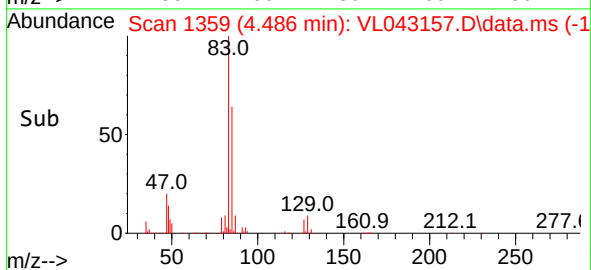
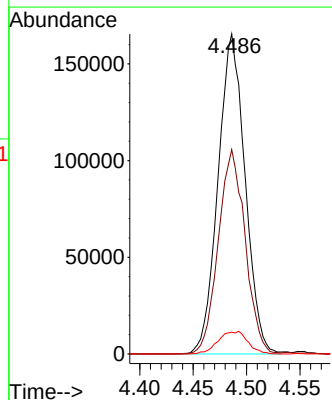
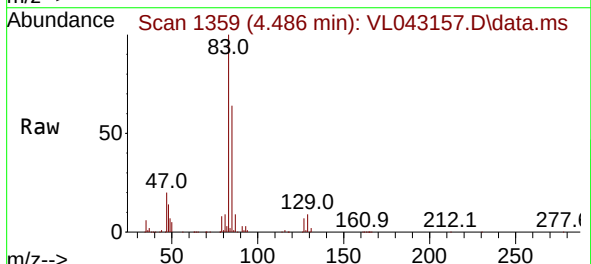
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

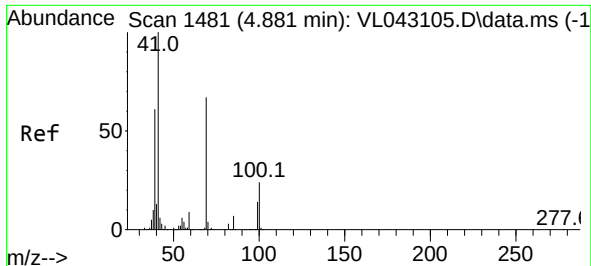
Tgt Ion: 42 Resp: 118637
Ion Ratio Lower Upper
42 100
72 41.6 31.3 46.9
71 39.6 30.4 45.6



#42
Bromodichloromethane
Concen: 11.387 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 83 Resp: 291226
Ion Ratio Lower Upper
83 100
85 63.8 50.6 75.8
127 6.8 6.3 9.5

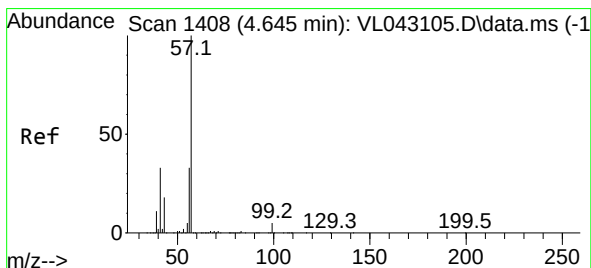
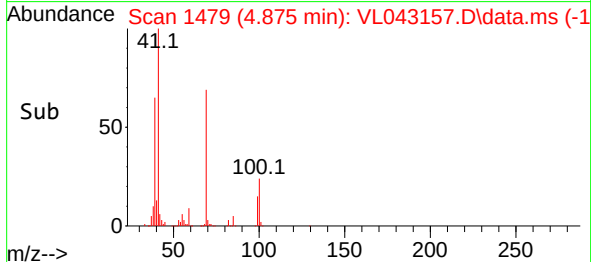
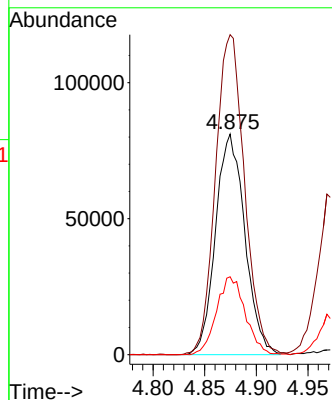
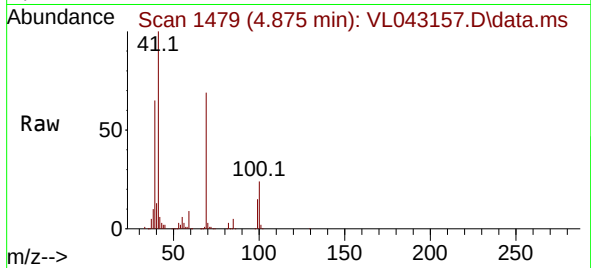




#43
Methyl Methacrylate
Concen: 9.821 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

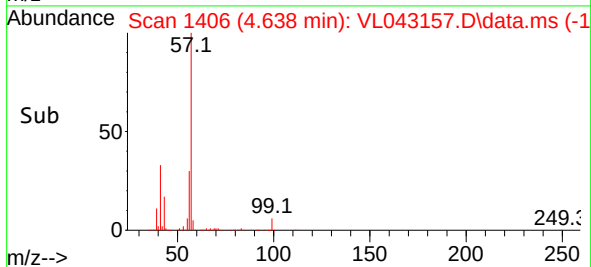
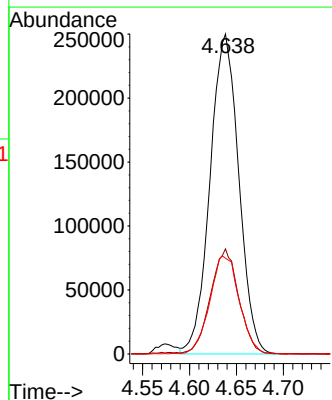
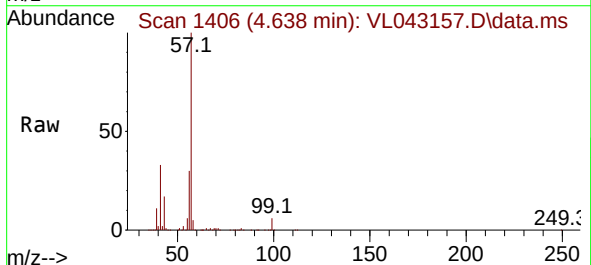
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABS01

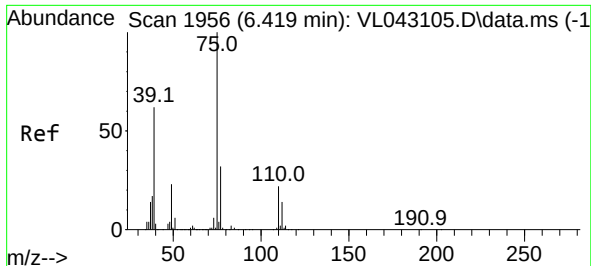
Tgt Ion: 69 Resp: 160012
Ion Ratio Lower Upper
69 100
41 143.7 120.5 180.7
100 34.6 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 9.828 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 57 Resp: 531922
Ion Ratio Lower Upper
57 100
41 32.6 26.3 39.5
56 31.6 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 10.111 ppbv

RT: 6.409 min Scan# 1956

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_L

ClientSampleId :

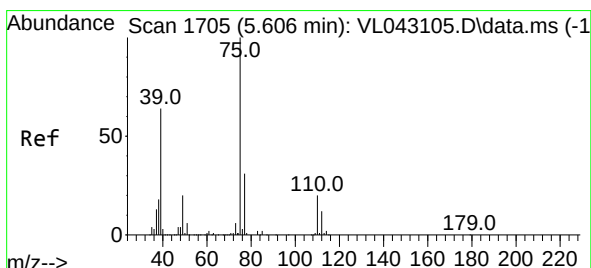
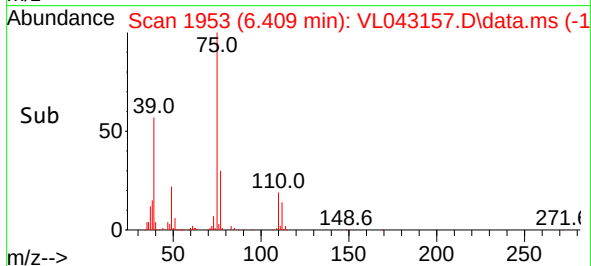
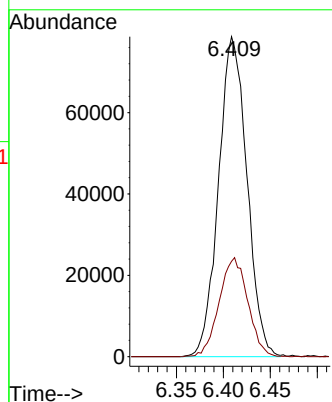
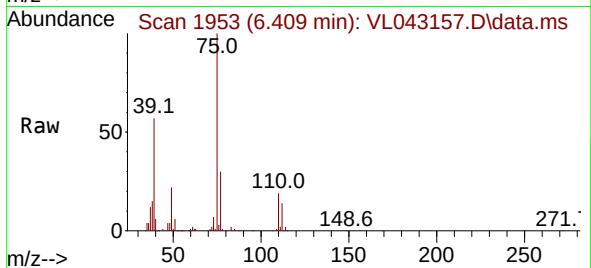
VL1106ABS01

Tgt Ion: 75 Resp: 165316

Ion Ratio Lower Upper

75 100

77 29.8 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 10.001 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

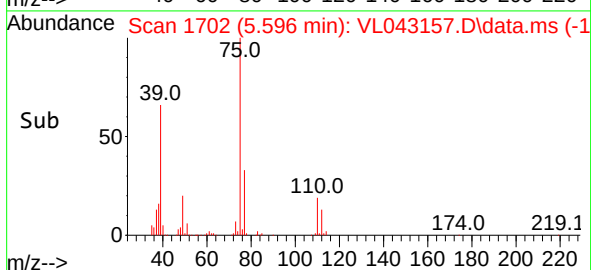
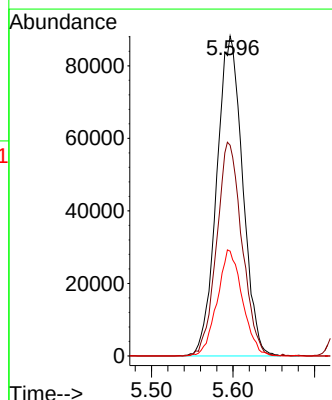
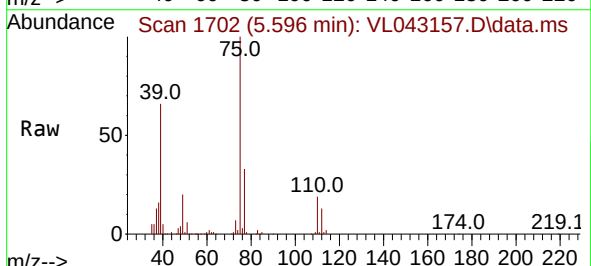
Tgt Ion: 75 Resp: 195336

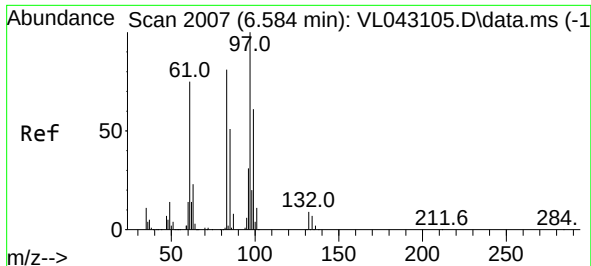
Ion Ratio Lower Upper

75 100

39 65.7 51.0 76.6

77 32.7 25.0 37.4

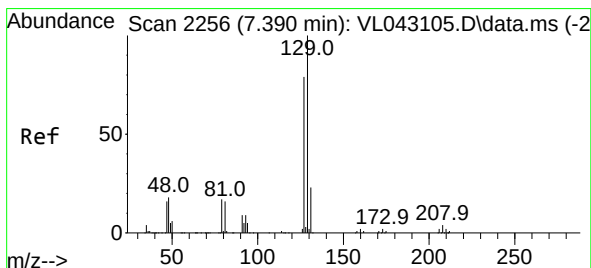
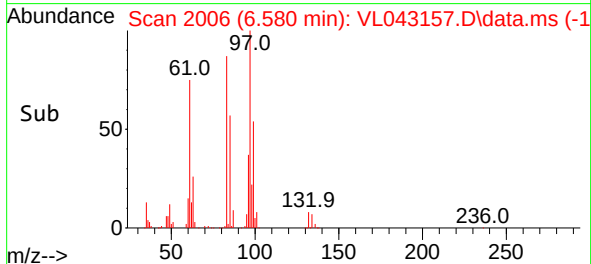
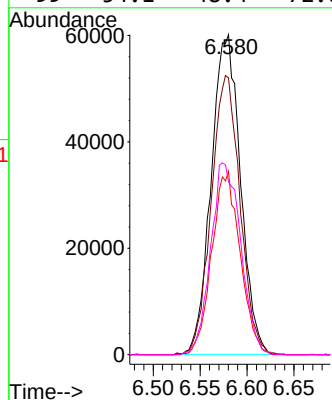
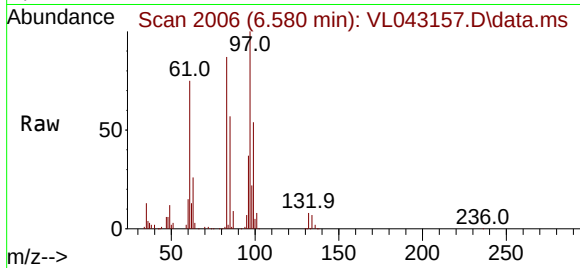




#47
1,1,2-Trichloroethane
Concen: 10.270 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

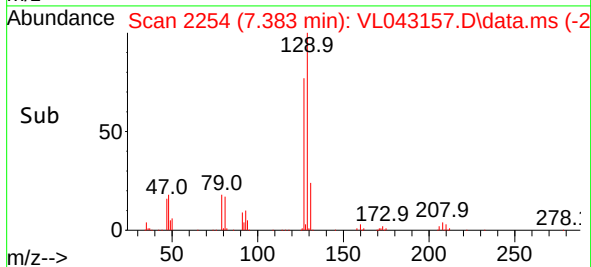
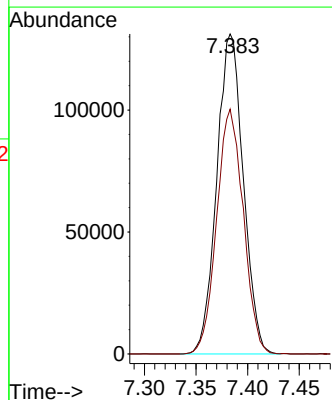
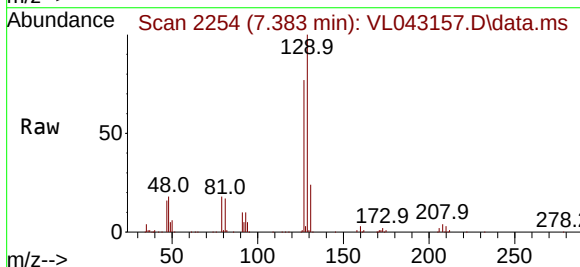
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

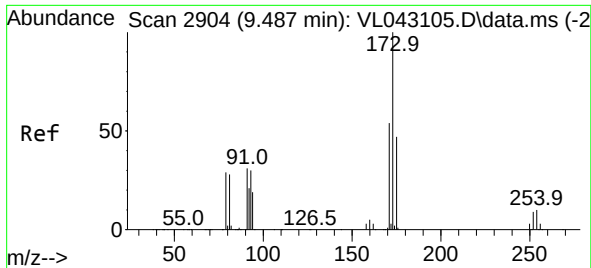
Tgt Ion: 97	Resp: 130064		
Ion	Ratio	Lower	Upper
97	100		
83	86.4	64.6	96.8
85	57.4	40.6	60.8
99	54.1	48.4	72.6



#48
Dibromochloromethane
Concen: 11.091 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:129	Resp: 234841
Ion Ratio	Lower Upper
129 100	
127 76.8	39.3 117.9

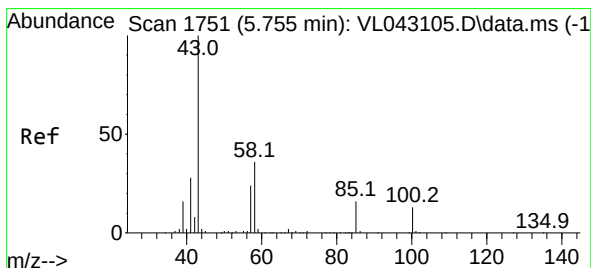
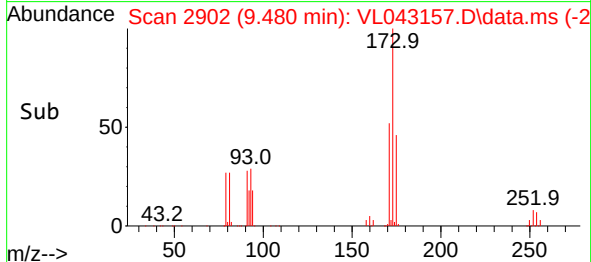
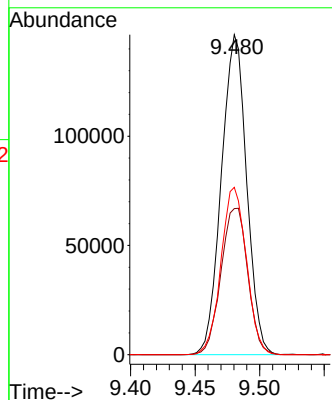
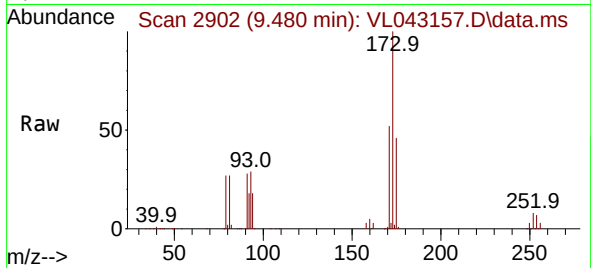




#49
Bromoform
Concen: 11.573 ppbv
RT: 9.480 min Scan# 2904
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

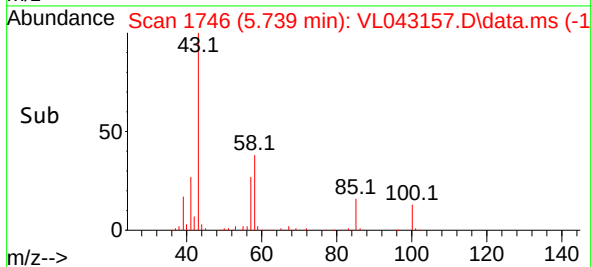
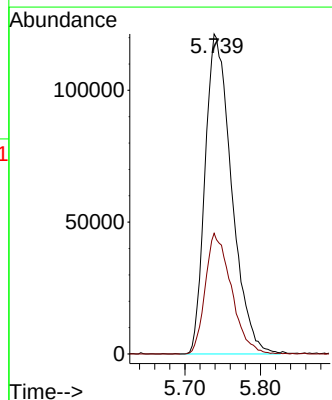
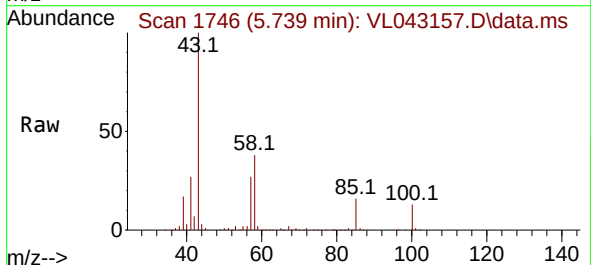
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

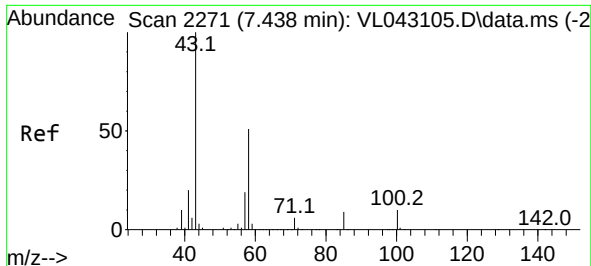
Tgt Ion:173 Resp: 199190
Ion Ratio Lower Upper
173 100
175 48.7 38.8 58.2
171 52.7 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 9.361 ppbv
RT: 5.739 min Scan# 1746
Delta R.T. -0.016 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 43 Resp: 295763
Ion Ratio Lower Upper
43 100
58 36.9 29.1 43.7

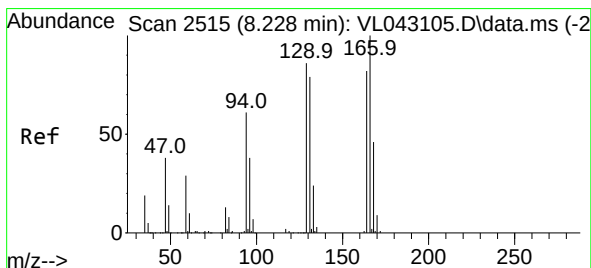
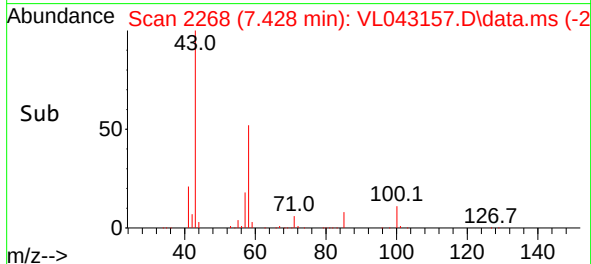
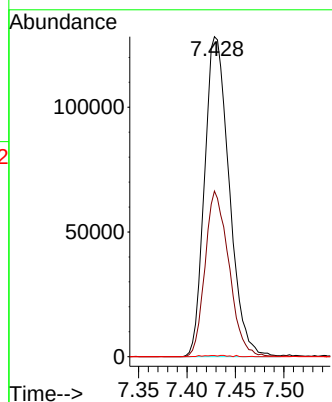
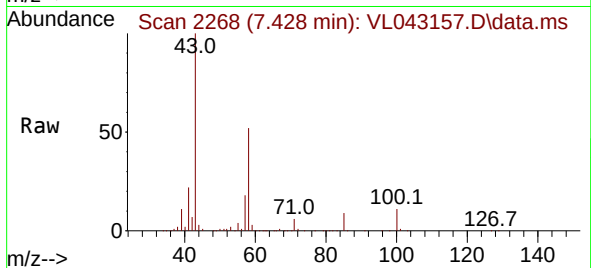




#51
2-Hexanone
Concen: 9.599 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

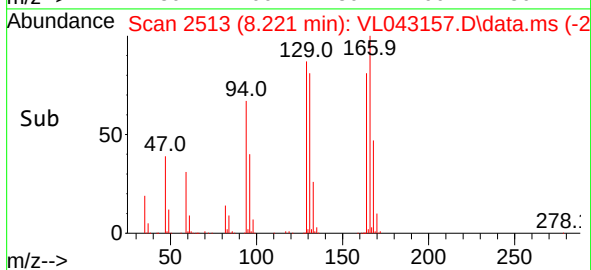
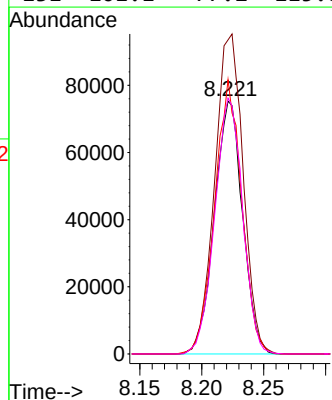
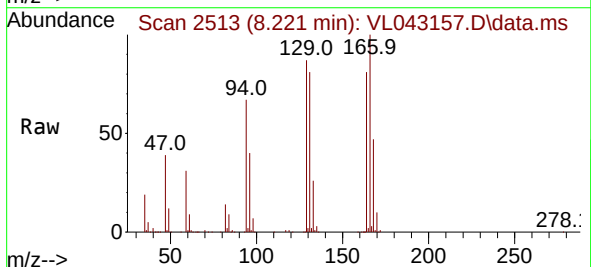
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

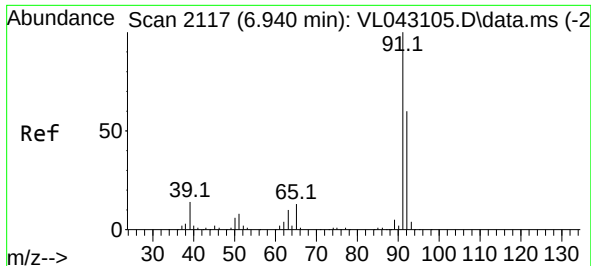
Tgt Ion: 43 Resp: 227473
Ion Ratio Lower Upper
43 100
58 50.1 40.4 60.6
98 0.4 0.1 0.1#



#52
Tetrachloroethene
Concen: 10.312 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:164 Resp: 119279
Ion Ratio Lower Upper
164 100
166 124.1 97.6 146.4
129 108.3 84.5 126.7
131 101.1 77.2 115.8

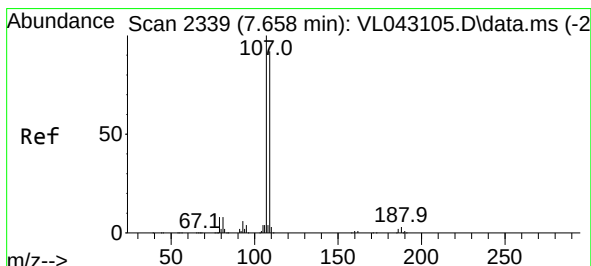
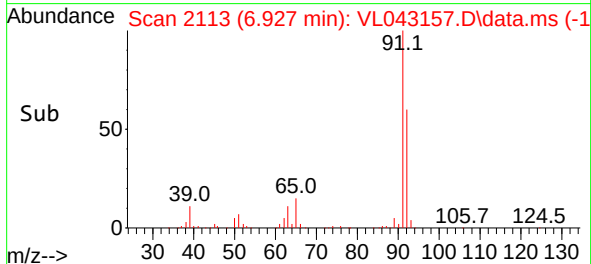
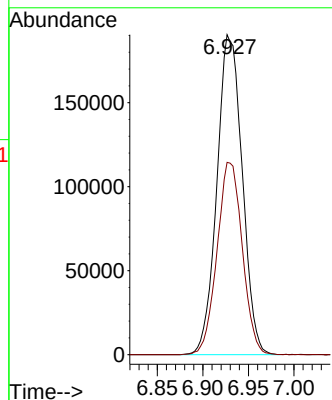
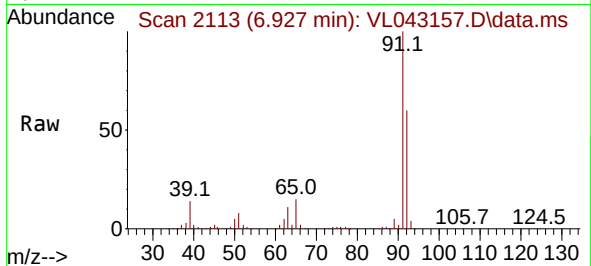




#53
Toluene
Concen: 9.679 ppbv
RT: 6.927 min Scan# 2117
Delta R.T. -0.013 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

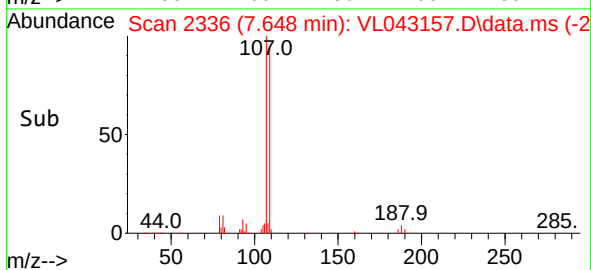
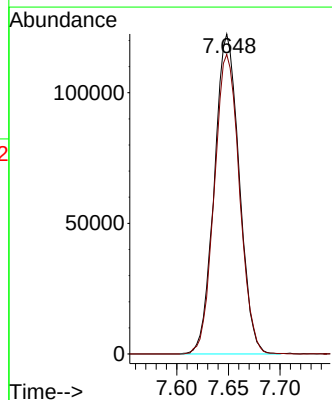
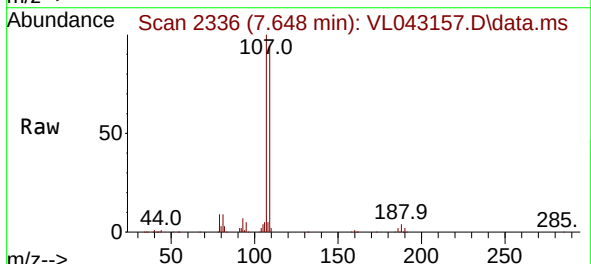
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

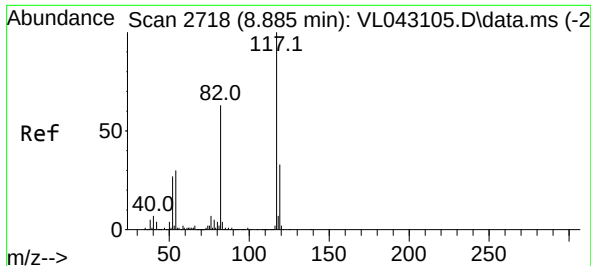
Tgt Ion: 91 Resp: 368487
Ion Ratio Lower Upper
91 100
92 59.9 48.8 73.2



#54
1,2-Dibromoethane
Concen: 10.345 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 107 Resp: 205210
Ion Ratio Lower Upper
107 100
109 93.6 73.4 110.2

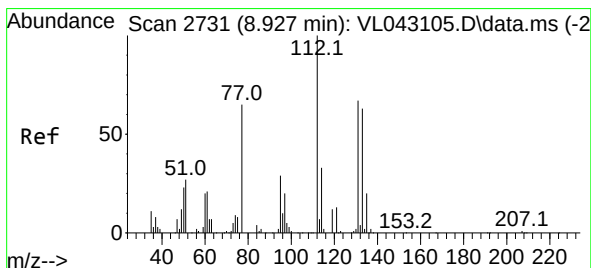
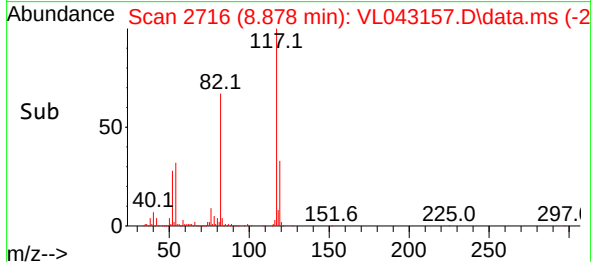
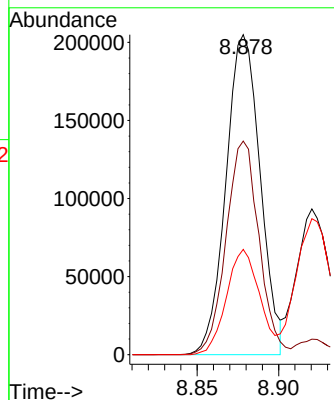
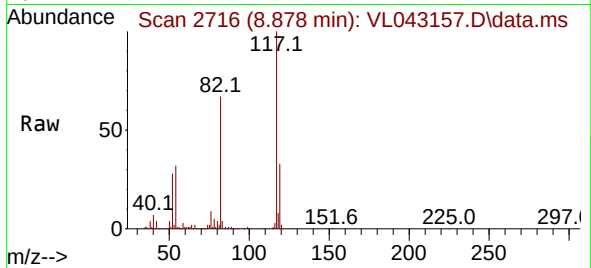




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

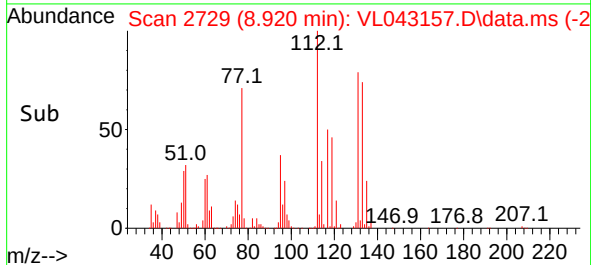
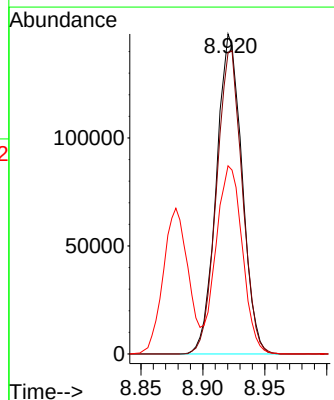
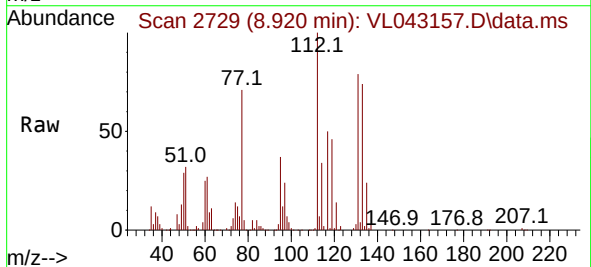
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABS01

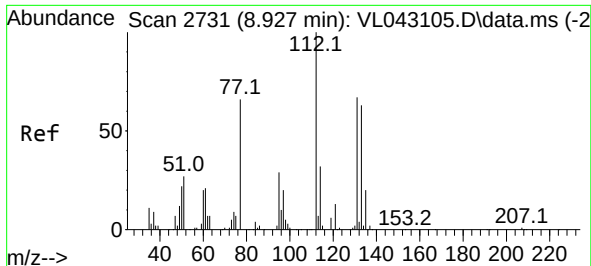
Tgt Ion:117 Resp: 299526
Ion Ratio Lower Upper
117 100
82 68.6 53.8 80.8
119 30.9 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 11.314 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:131 Resp: 213620
Ion Ratio Lower Upper
131 100
133 95.0 75.7 113.5
119 60.9 50.6 76.0

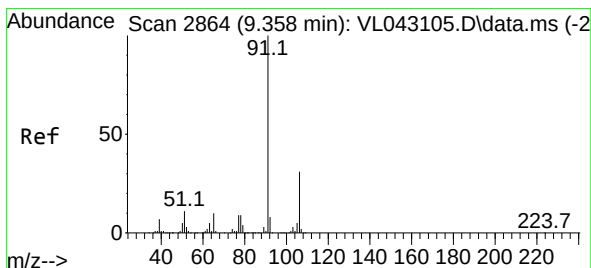
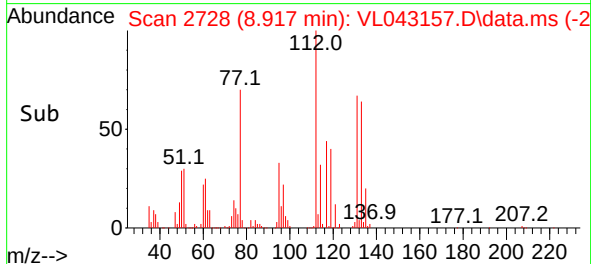
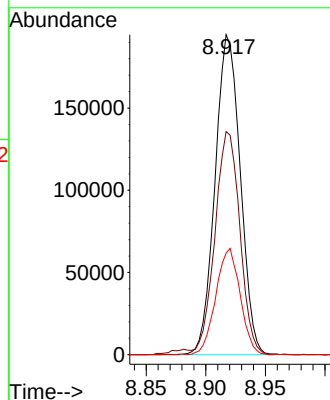
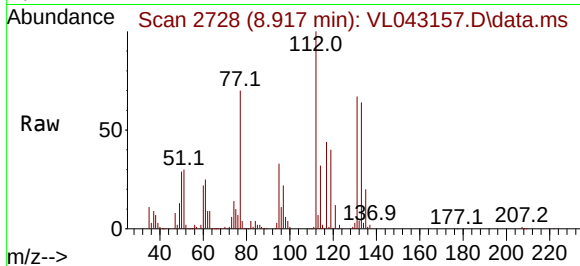




#57
Chlorobenzene
Concen: 10.219 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

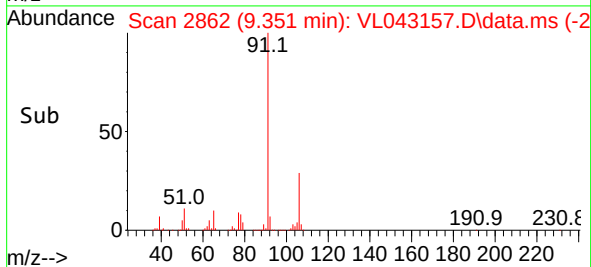
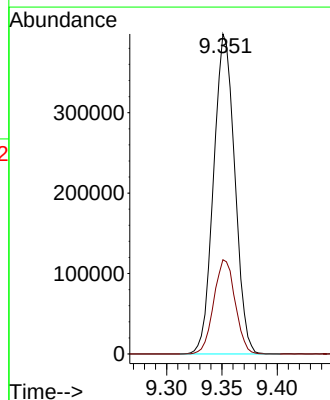
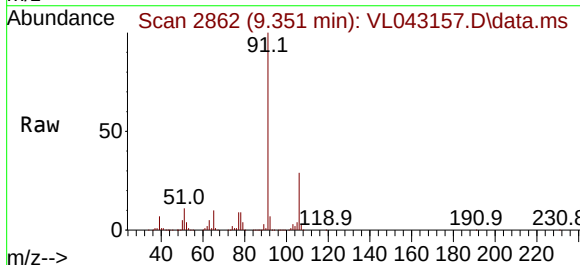
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

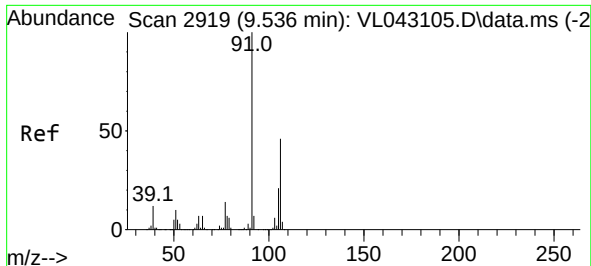
Tgt Ion:112 Resp: 286347
Ion Ratio Lower Upper
112 100
77 69.7 53.3 79.9
114 31.7 29.3 35.8



#58
Ethyl Benzene
Concen: 10.307 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 529847
Ion Ratio Lower Upper
91 100
106 29.4 24.8 37.2





#59

m/p-Xylene

Concen: 10.774 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_1

ClientSampleId :

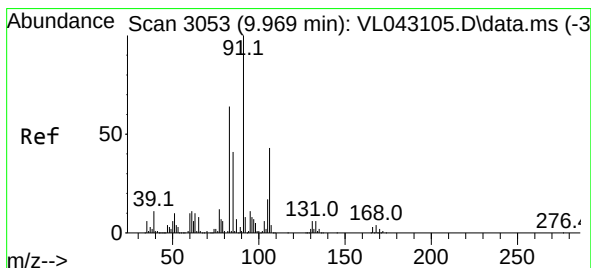
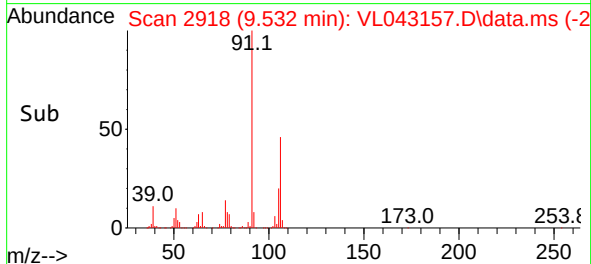
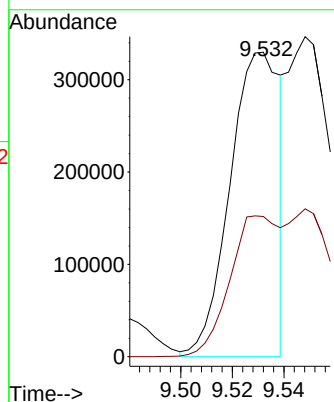
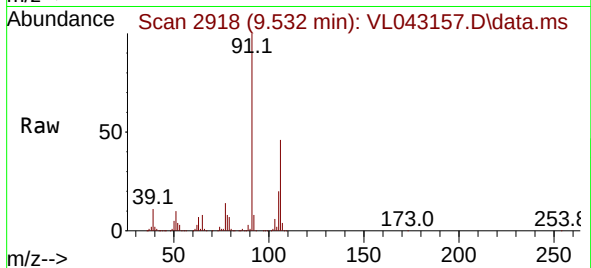
VL1106ABS01

Tgt Ion: 91 Resp: 441757

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 10.442 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.007 min

Lab File: VL043157.D

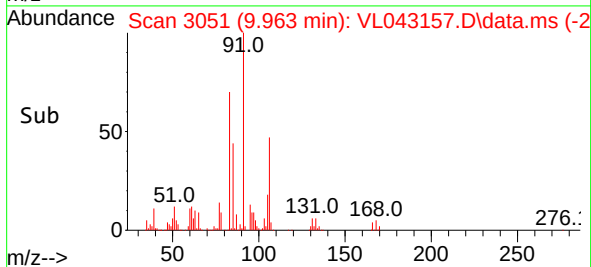
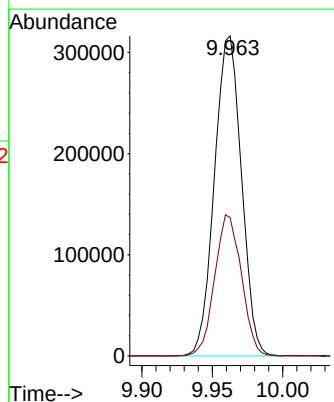
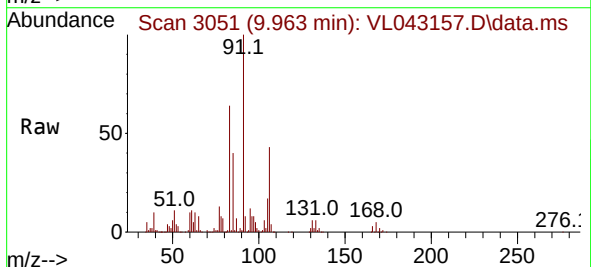
Acq: 06 Nov 2025 08:45

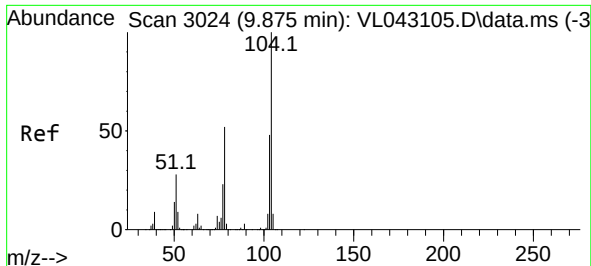
Tgt Ion: 91 Resp: 422838

Ion Ratio Lower Upper

91 100

106 43.6 21.9 65.8

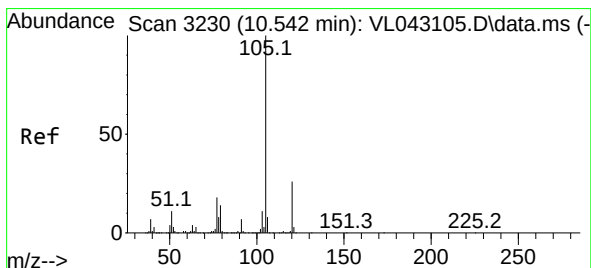
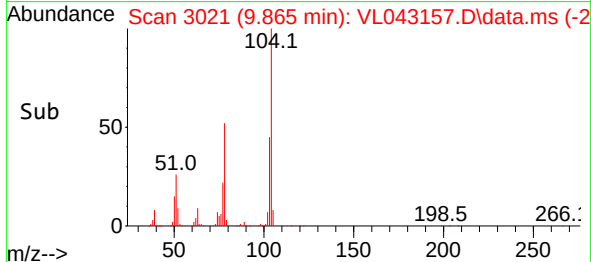
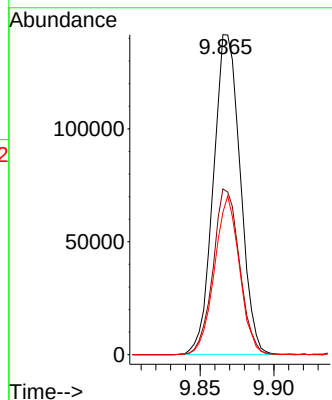
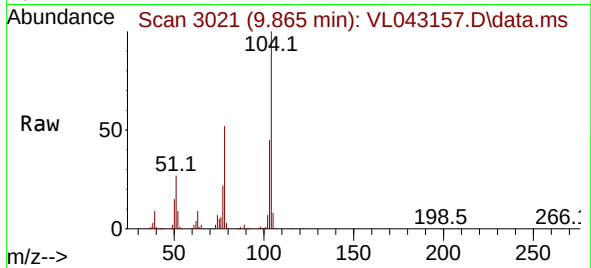




#61
Styrene
Concen: 9.802 ppbv
RT: 9.865 min Scan# 3024
Delta R.T. -0.010 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

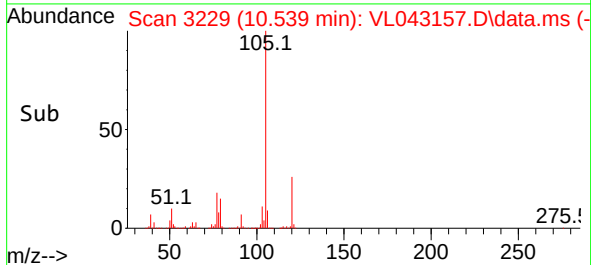
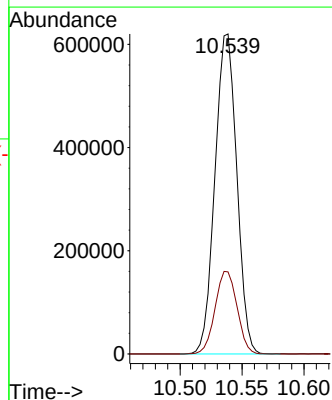
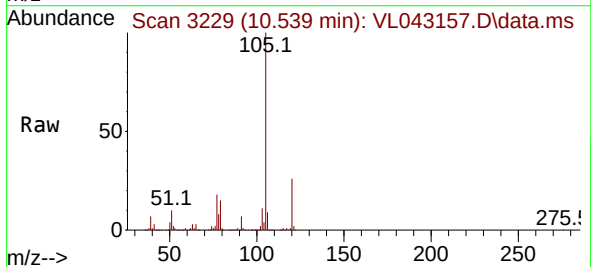
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

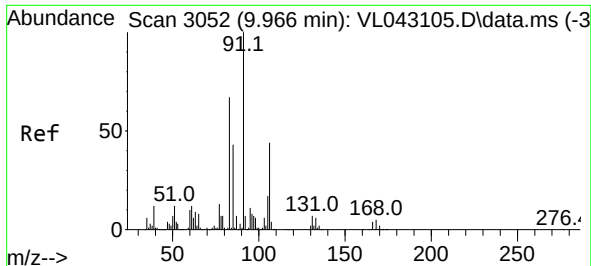
Tgt Ion:104 Resp: 179195
Ion Ratio Lower Upper
104 100
78 51.2 40.2 60.2
103 46.3 36.9 55.3



#62
Isopropylbenzene
Concen: 10.416 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 762154
Ion Ratio Lower Upper
105 100
120 25.9 20.2 30.4

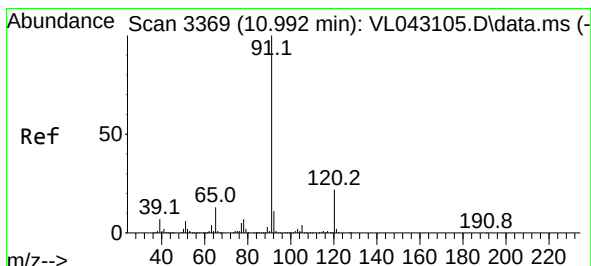
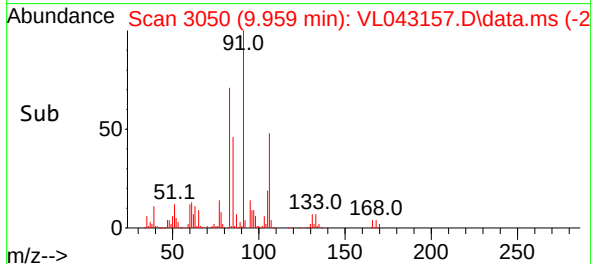
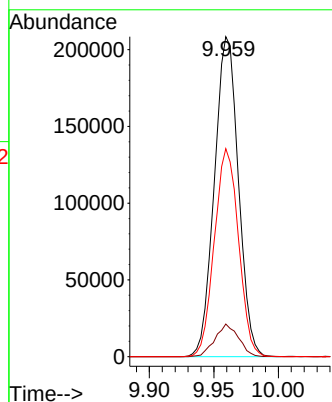
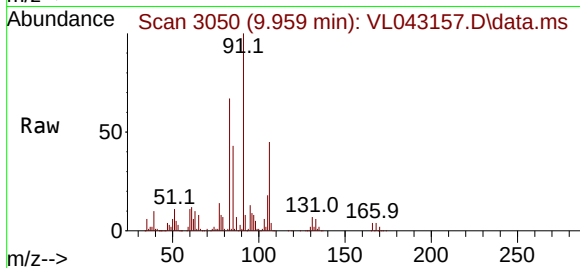




#63
1,1,2,2-Tetrachloroethane
Concen: 9.947 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

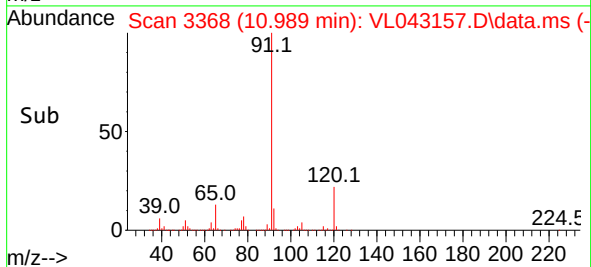
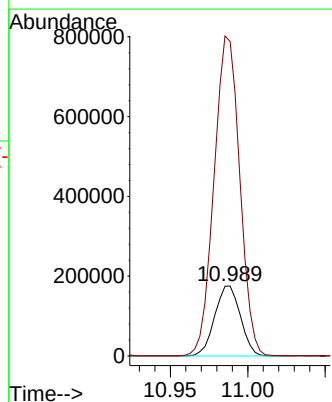
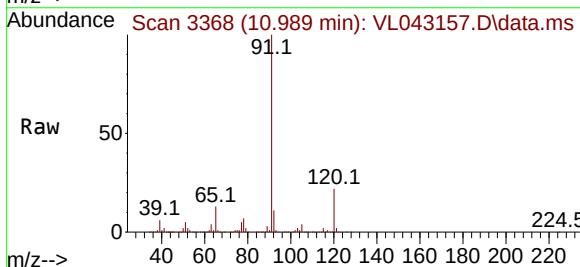
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

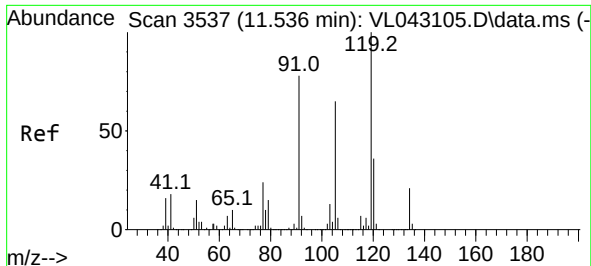
Tgt Ion: 83 Resp: 269723
Ion Ratio Lower Upper
83 100
131 10.0 4.8 14.3
85 65.2 32.0 96.0



#64
n-propylbenzene
Concen: 10.424 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 120 Resp: 201938
Ion Ratio Lower Upper
120 100
91 458.0 361.6 542.4

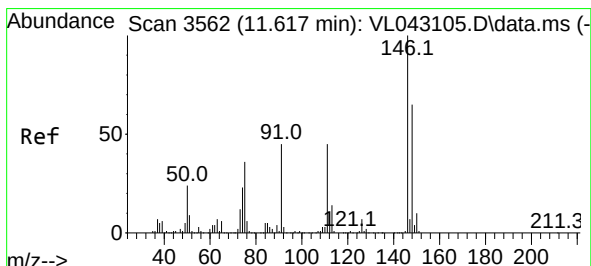
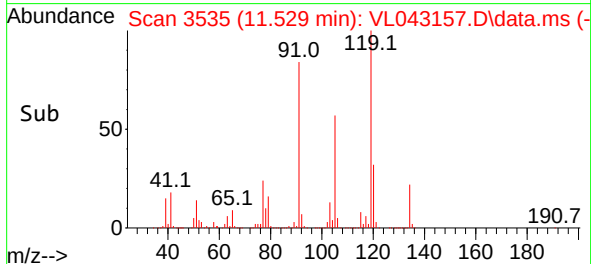
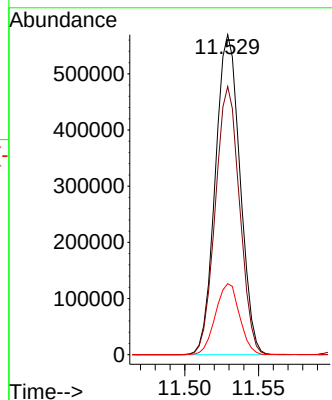
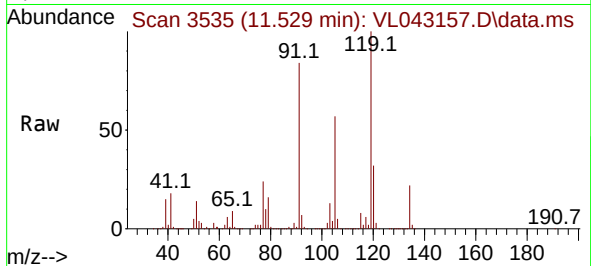




#65
tert-Butylbenzene
Concen: 10.254 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

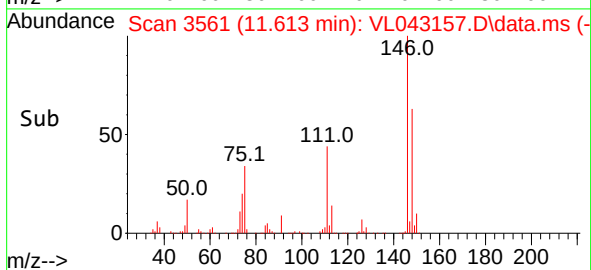
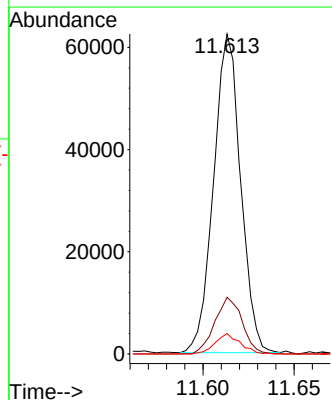
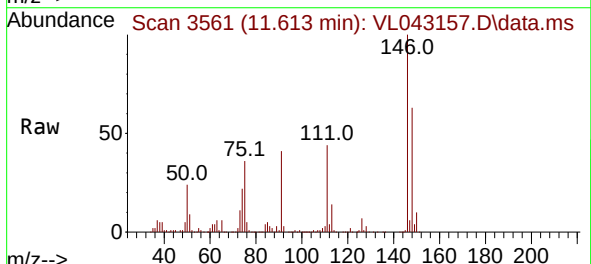
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABS01

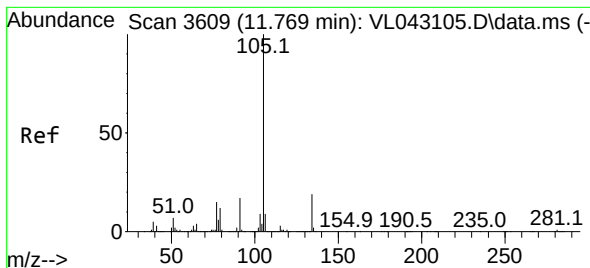
Tgt Ion:119 Resp: 662570
Ion Ratio Lower Upper
119 100
91 82.4 63.4 95.0
134 21.7 17.3 25.9



#66
Benzyl Chloride
Concen: 8.935 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 64257
Ion Ratio Lower Upper
91 100
126 18.0 14.6 22.0
128 5.9 4.6 6.8

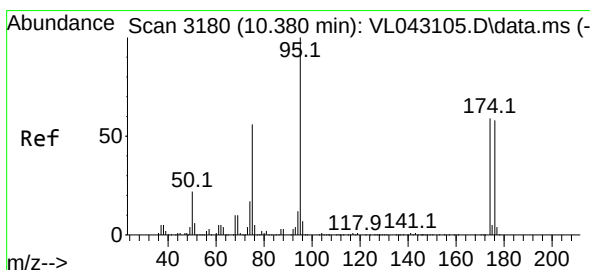
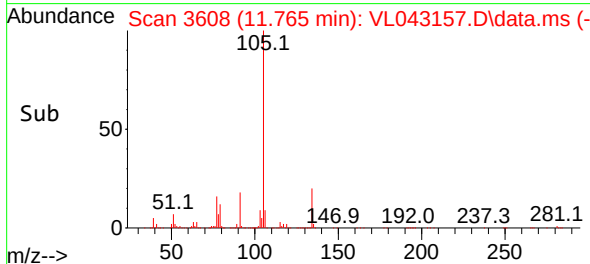
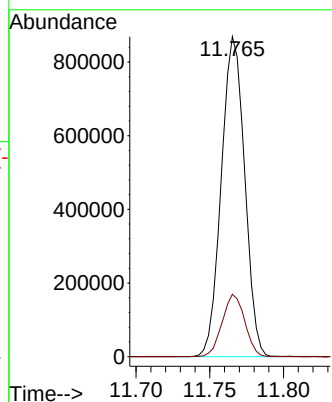
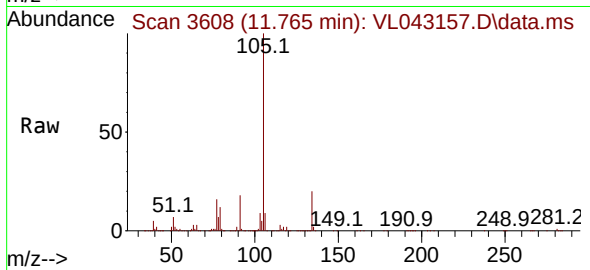




#67
 sec-Butylbenzene
 Concen: 10.438 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

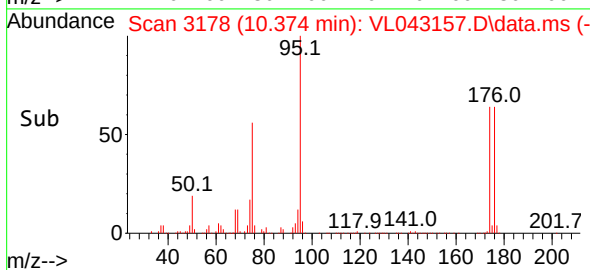
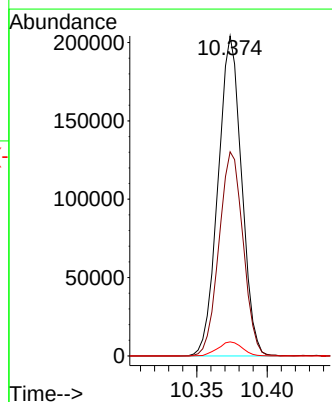
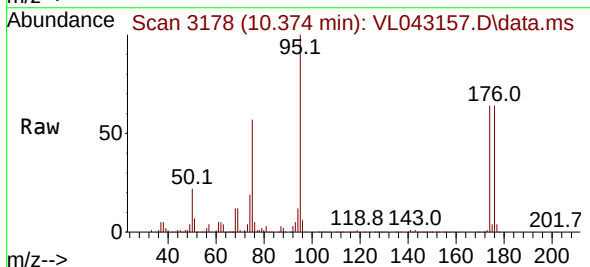
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1106ABS01

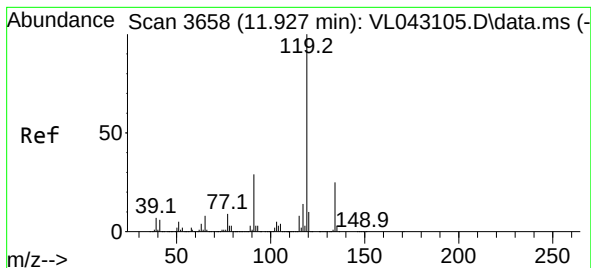
Tgt Ion:105 Resp: 957255
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.214 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.007 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion: 95 Resp: 237797
 Ion Ratio Lower Upper
 95 100
 174 65.3 48.3 72.5
 175 4.6 3.8 5.8

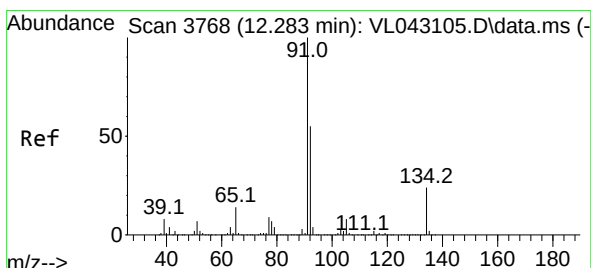
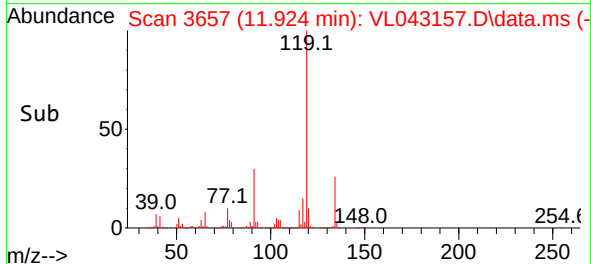
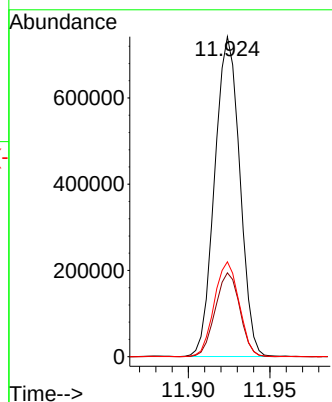
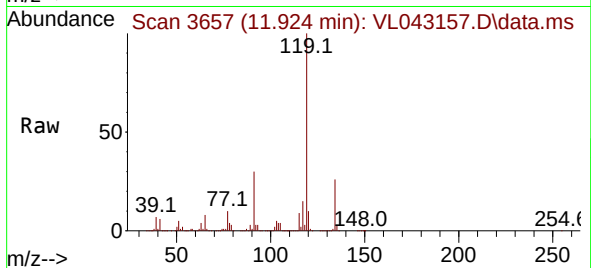




#69
p-Isopropyltoluene
Concen: 10.205 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

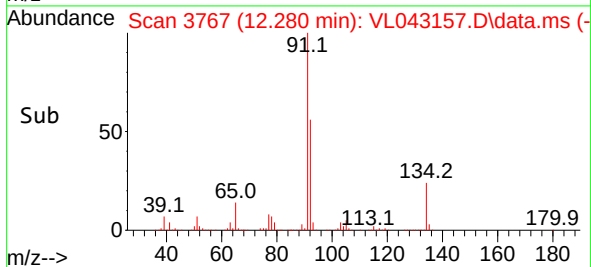
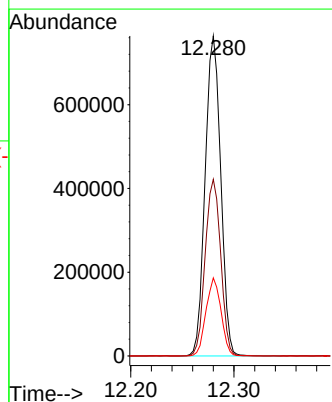
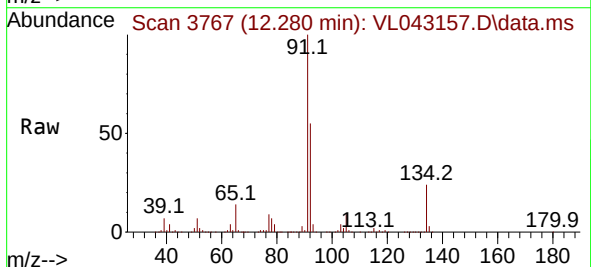
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABS01

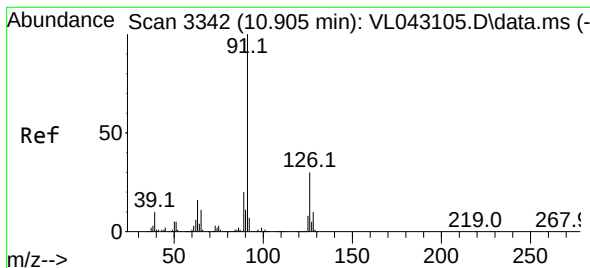
Tgt Ion:119 Resp: 795241
Ion Ratio Lower Upper
119 100
134 25.7 20.3 30.5
91 29.5 22.6 33.8



#70
n-Butylbenzene
Concen: 10.392 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 798019
Ion Ratio Lower Upper
91 100
92 55.0 44.5 66.7
134 23.6 19.3 28.9

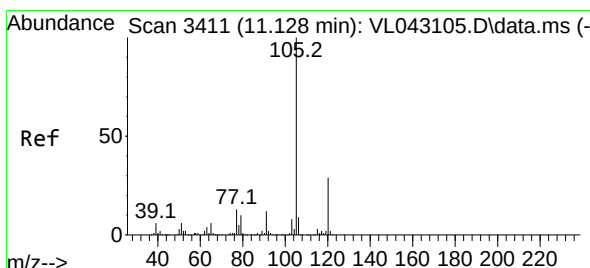
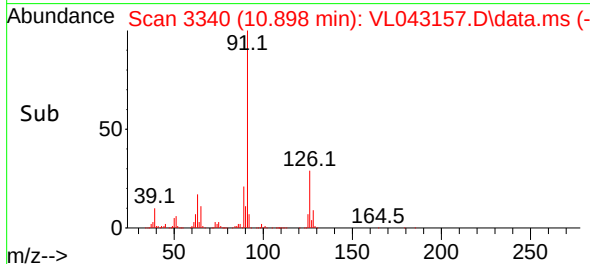
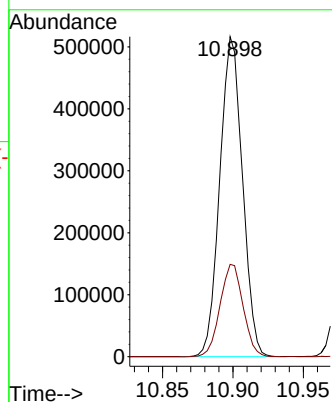
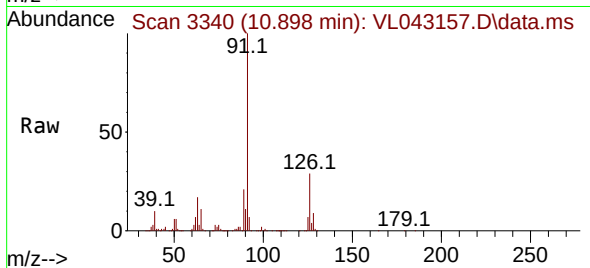




#71
2-Chlorotoluene
Concen: 10.386 ppbv
RT: 10.898 min Scan# 311
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

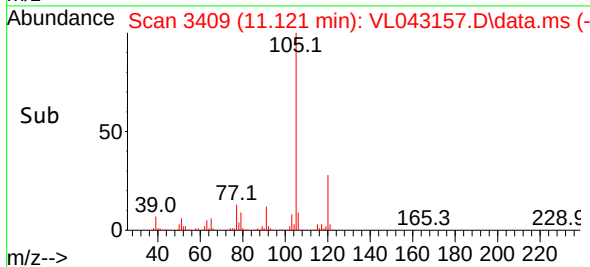
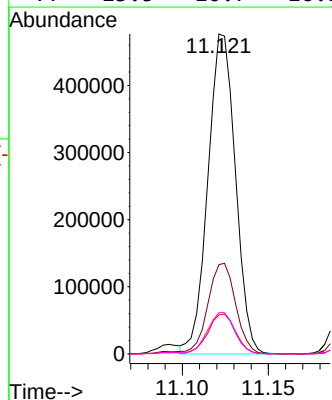
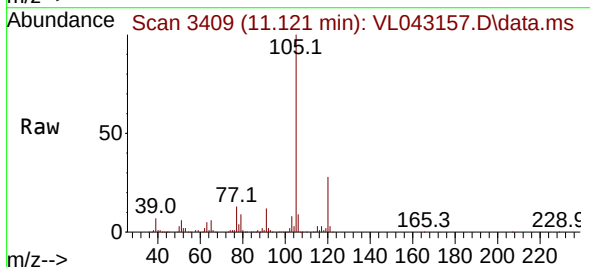
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABS01

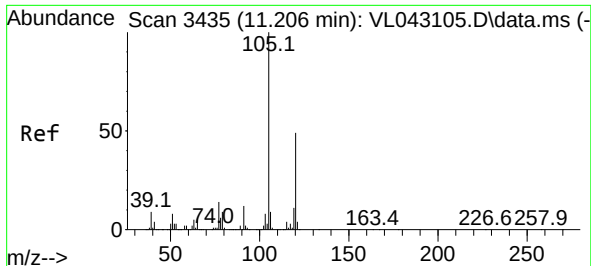
Tgt Ion: 91 Resp: 579642
Ion Ratio Lower Upper
91 100
126 29.3 12.0 48.0



#72
4-Ethyltoluene
Concen: 10.660 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 530791
Ion Ratio Lower Upper
105 100
120 29.2 24.2 36.4
91 12.7 10.0 15.0
77 13.5 10.7 16.1

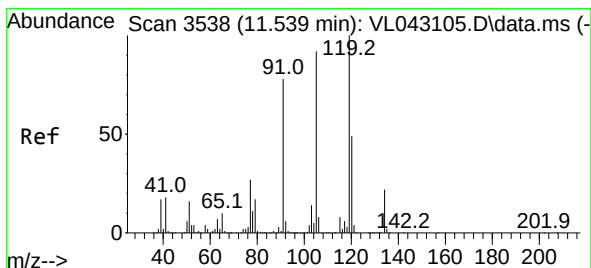
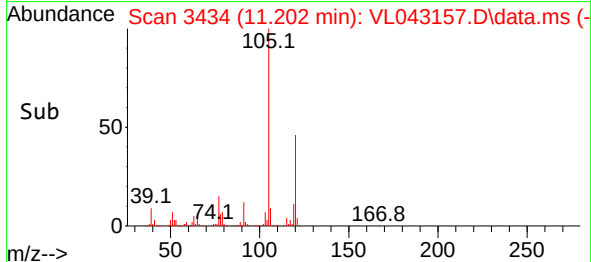
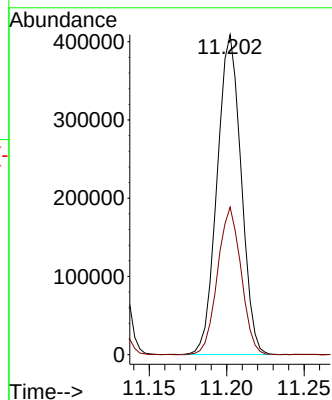
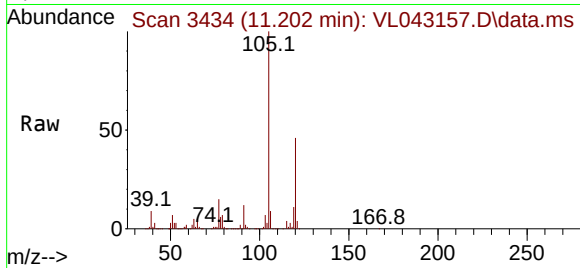




#73
 1,3,5-Trimethylbenzene
 Concen: 10.731 ppbv
 RT: 11.202 min Scan# 34
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

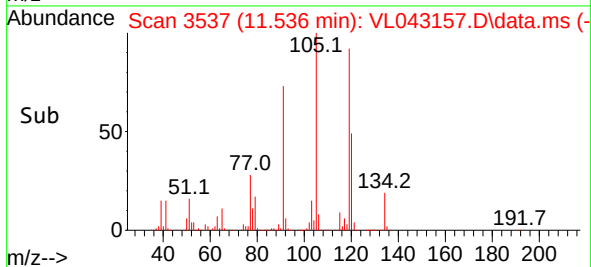
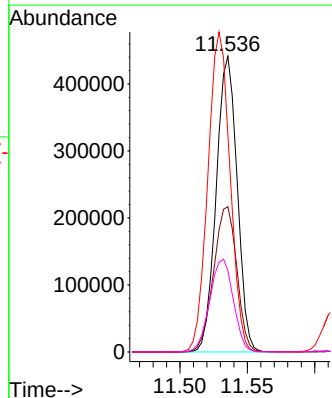
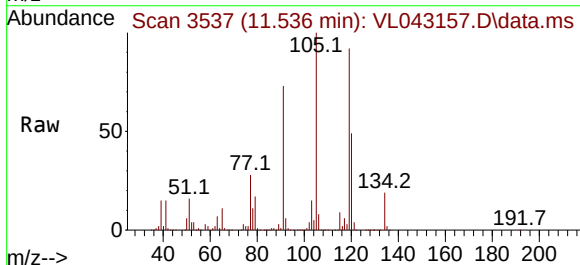
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1106ABS01

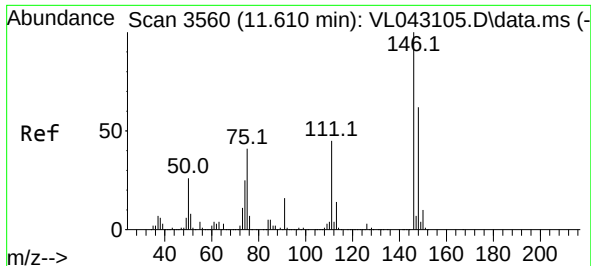
Tgt Ion:105 Resp: 440663
 Ion Ratio Lower Upper
 105 100
 120 46.1 39.0 58.6



#74
 1,2,4-Trimethylbenzene
 Concen: 10.390 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 477453
 Ion Ratio Lower Upper
 105 100
 120 49.1 42.8 64.2
 91 73.4 68.3 102.5
 77 27.5 23.4 35.0

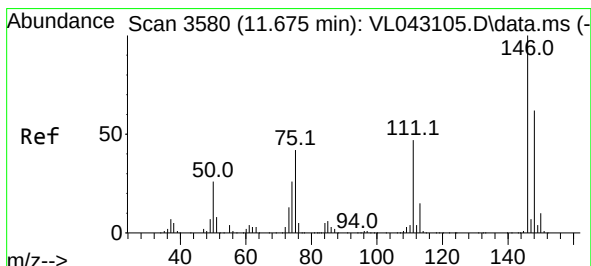
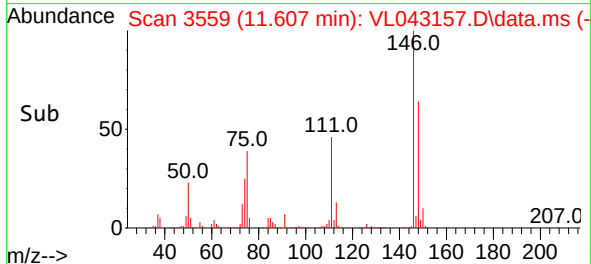
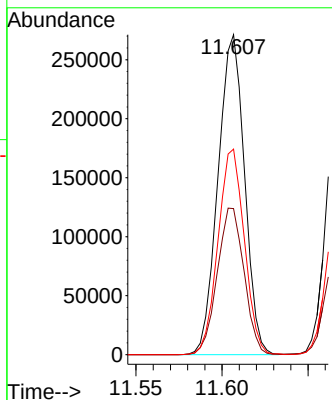
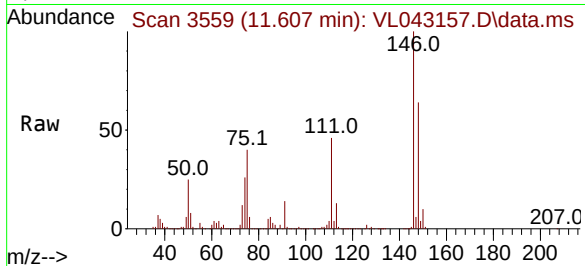




#75
1,3-Dichlorobenzene
Concen: 10.894 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

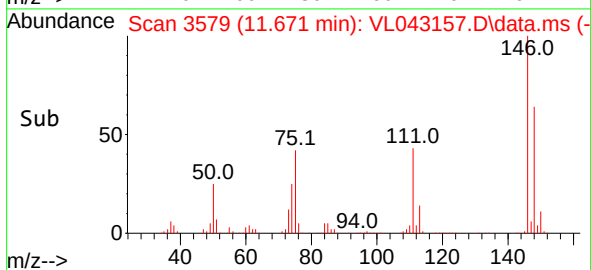
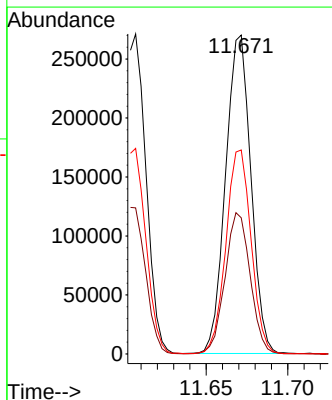
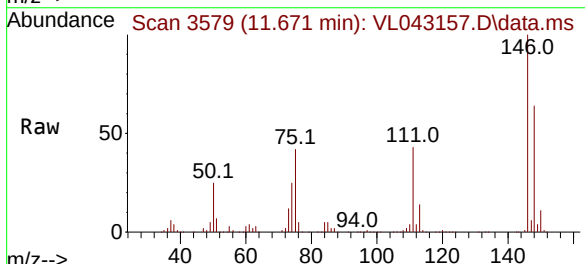
Instrument :
MSVOA_1
ClientSampleId :
VL1106ABS01

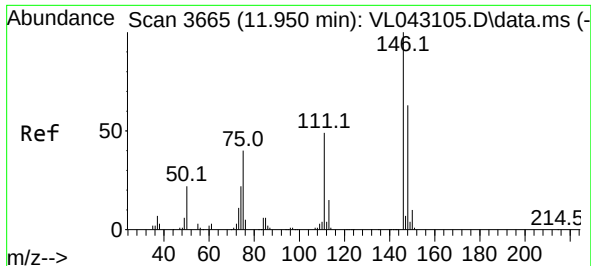
Tgt Ion:146 Resp: 290341
Ion Ratio Lower Upper
146 100
111 46.4 23.3 69.9
148 63.9 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 10.843 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:146 Resp: 291409
Ion Ratio Lower Upper
146 100
111 44.2 22.4 67.0
148 64.0 31.6 94.7

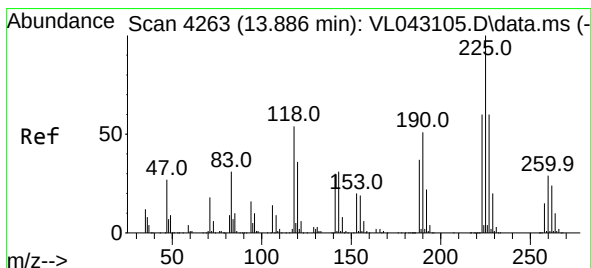
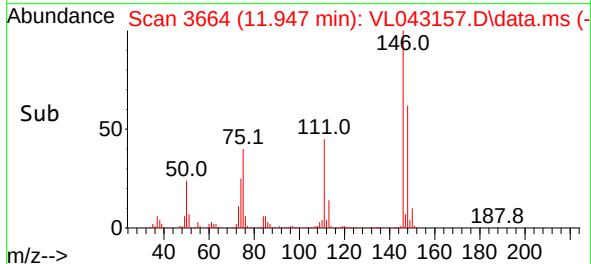
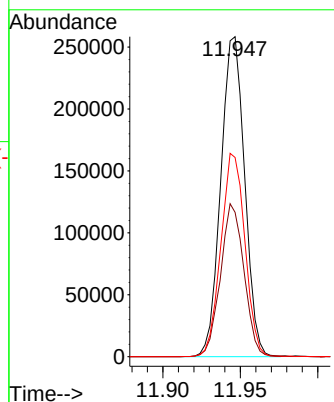
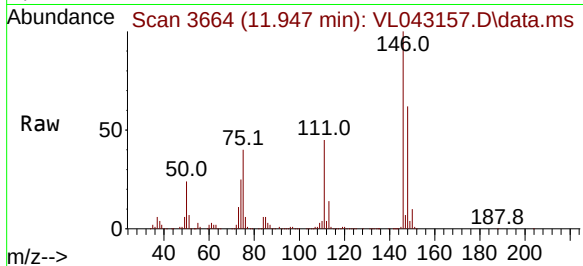




#77
1,2-Dichlorobenzene
Concen: 10.728 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.004 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

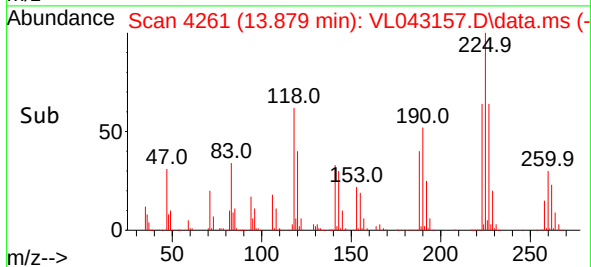
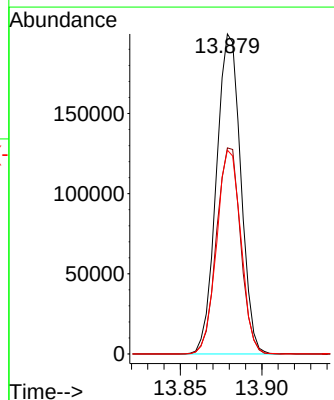
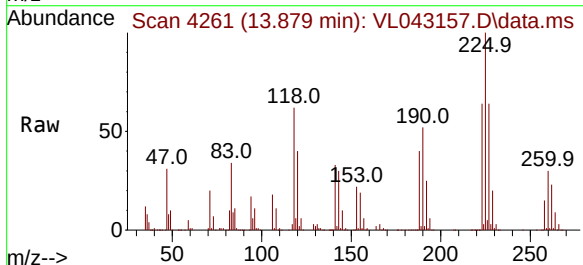
Instrument :
MSVOA_L
ClientSampleId :
VL1106ABS01

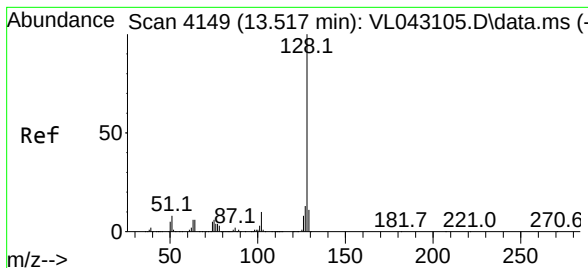
Tgt Ion:146 Resp: 276598
Ion Ratio Lower Upper
146 100
111 47.1 24.0 72.0
148 64.1 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 10.393 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043157.D
Acq: 06 Nov 2025 08:45

Tgt Ion:225 Resp: 207474
Ion Ratio Lower Upper
225 100
223 63.7 50.2 75.4
227 63.3 49.6 74.4





#79

Naphthalene

Concen: 10.127 ppbv

RT: 13.510 min Scan# 4149

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA_1

ClientSampleId :

VL1106ABS01

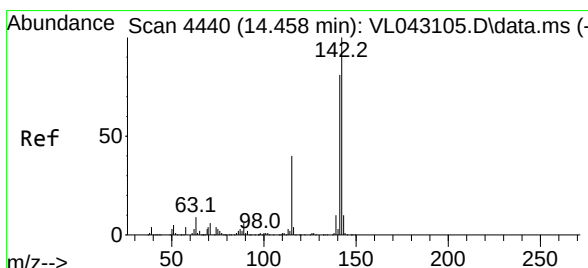
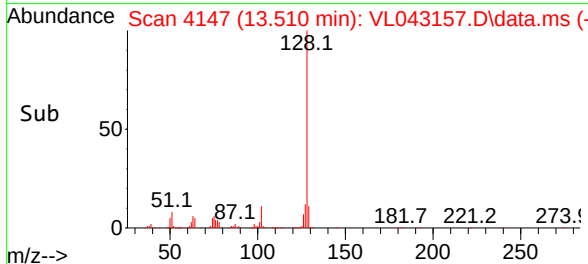
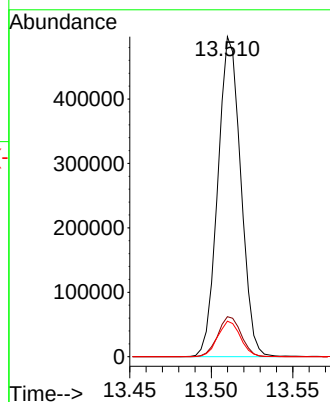
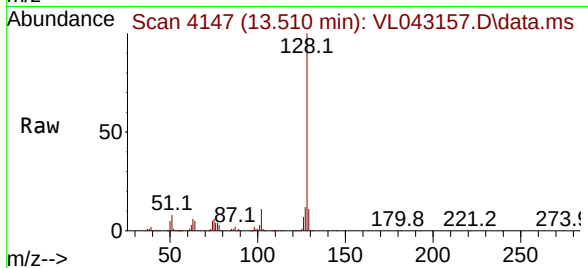
Tgt Ion:128 Resp: 486413

Ion Ratio Lower Upper

128 100

127 12.5 10.5 15.7

129 11.1 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 11.387 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

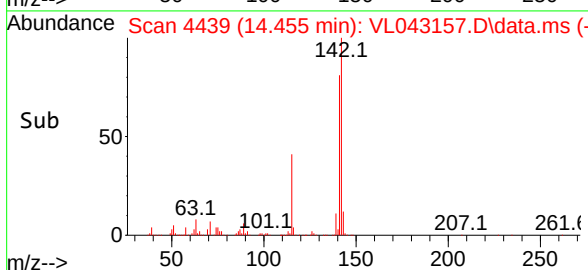
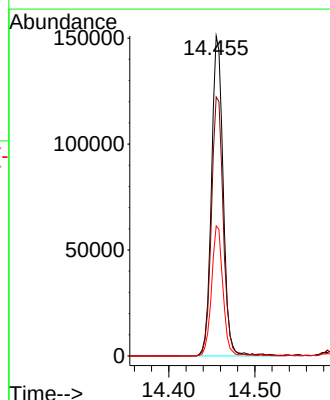
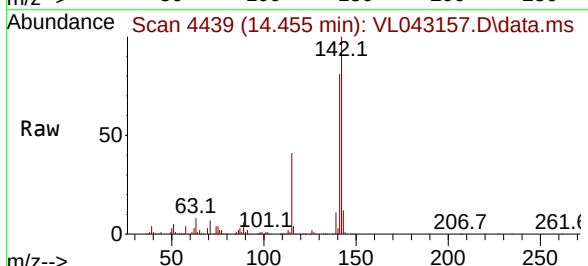
Tgt Ion:142 Resp: 142500

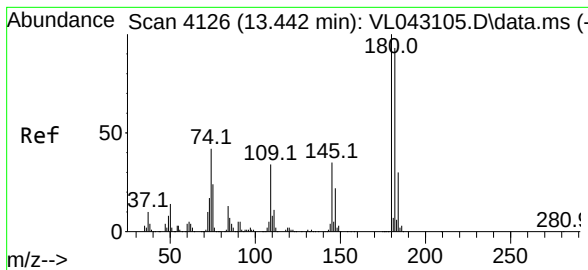
Ion Ratio Lower Upper

142 100

141 83.2 64.6 97.0

115 40.0 30.2 45.4

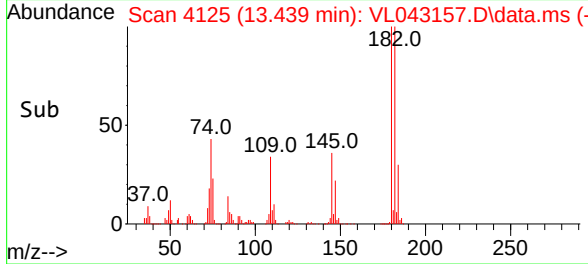
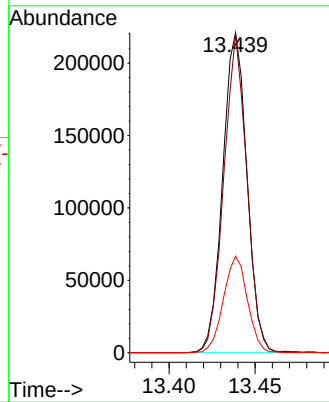
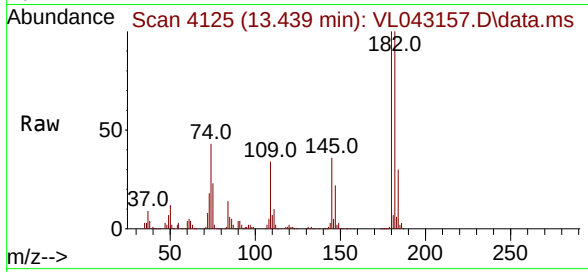




#81
 1,2,4-Trichlorobenzene
 Concen: 10.849 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.004 min
 Lab File: VL043157.D
 Acq: 06 Nov 2025 08:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

Tgt Ion:	180	Resp:	216292
Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.5	113.3
184	29.9	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043159.D
 Acq On : 06 Nov 2025 10:17
 Operator : SY/MD
 Sample : Q3555-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2DUP

Quant Time: Nov 07 00:19:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	118024	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	354784	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	303947	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	238666	10.102	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	7609	0.453	ppbv	94
3) Chlorodifluoromethane	1.625	51	552	0.030	ppbv	100
4) Chloromethane	1.534	50	2577	0.388	ppbv	98
9) Propene	1.489	41	3944	0.490	ppbv	85
10) Heptane	4.985	43	1039	0.045	ppbv #	27
11) Trichlorofluoromethane	1.881	101	5437	0.331	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	1161	0.088	ppbv	99
13) Ethanol	1.722	45	124950	41.954	ppbv	96
15) Acetone	1.839	43	97541	6.132	ppbv	95
16) 1,3-Butadiene	1.602	39	908	0.120	ppbv #	13
17) tert-Butyl alcohol	1.887	59	10088	0.462	ppbv	97
19) Isopropyl Alcohol	1.887	45	278208	28.080	ppbv #	37
20) Methylene Chloride	2.065	84	3186	0.507	ppbv	96
21) Allyl Chloride	2.084	41	933	0.080	ppbv #	45
23) Vinyl Acetate	2.476	43	12803	0.549	ppbv #	59
25) Ethyl Acetate	2.832	43	18936	0.480	ppbv #	93
26) Hexane	2.832	57	18040	0.992	ppbv #	56
29) Chloroform	2.848	83	16144	0.613	ppbv	93
30) Cyclohexane	3.861	84	508	0.032	ppbv #	1
34) 2-Butanone	2.560	43	6502	0.273	ppbv	99
35) Carbon Tetrachloride	3.768	117	2069	0.081	ppbv #	93
36) Benzene	3.658	78	3482	0.104	ppbv	97
37) 1,2-Dichloroethane	3.221	62	4176	0.217	ppbv	96
39) 1,2-Dichloropropane	3.962	63	89086	7.292	ppbv #	26
41) Tetrahydrofuran	3.062	42	462	0.035	ppbv #	37
44) 2,2,4-Trimethylpentane	4.648	57	2264	0.040	ppbv #	1
53) Toluene	6.936	91	20621	0.520	ppbv	95
58) Ethyl Benzene	9.357	91	2454	0.047	ppbv	94
59) m/p-Xylene	9.532	91	8752	0.210	ppbv #	82
60) o-Xylene	9.966	91	4326	0.105	ppbv	98
61) Styrene	9.872	104	1372	0.074	ppbv #	79
74) 1,2,4-Trimethylbenzene	11.535	105	3636	0.078	ppbv #	58

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043159.D
Acq On : 06 Nov 2025 10:17
Operator : SY/MD
Sample : Q3555-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

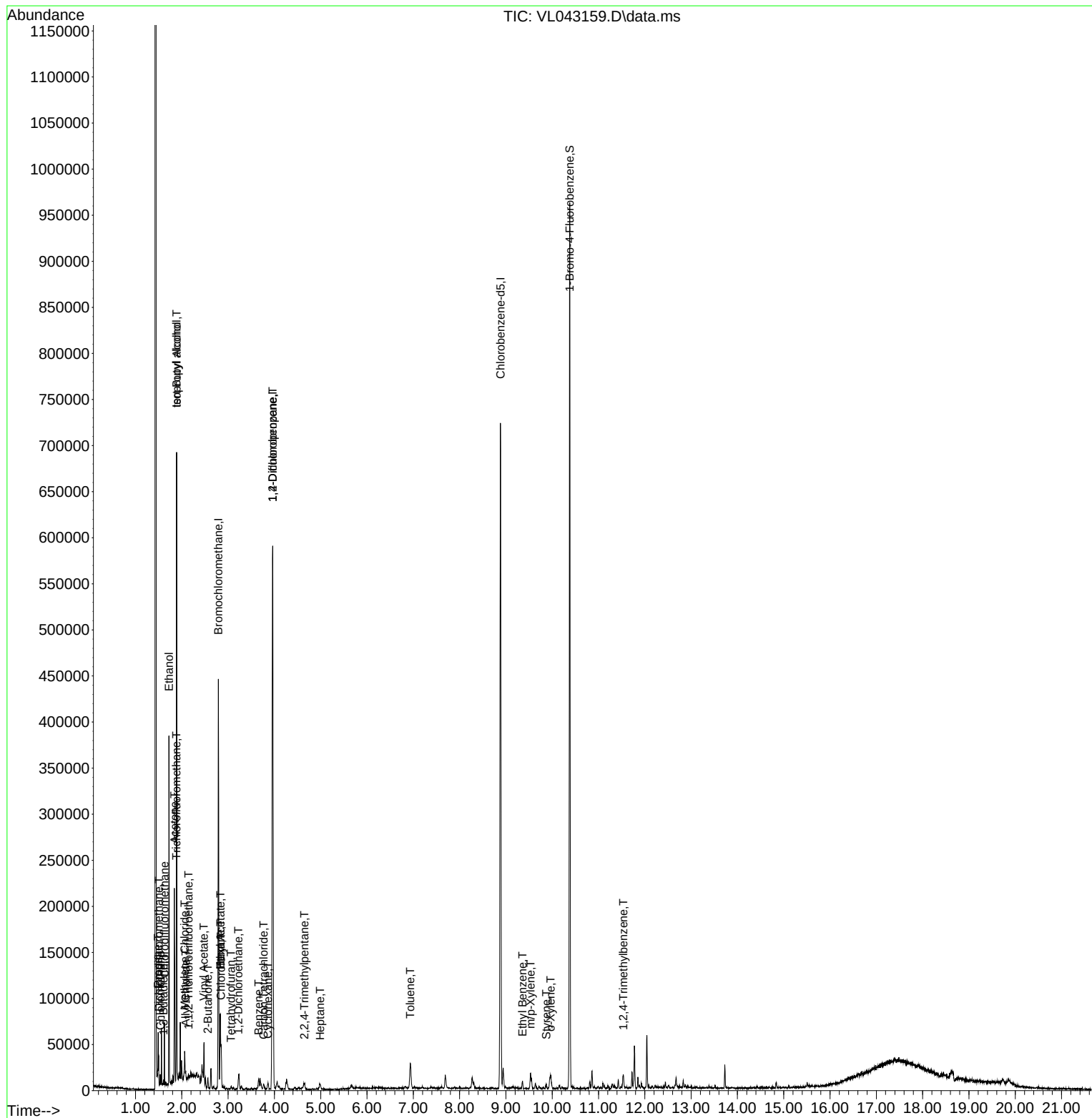
Quant Time: Nov 07 00:19:08 2025

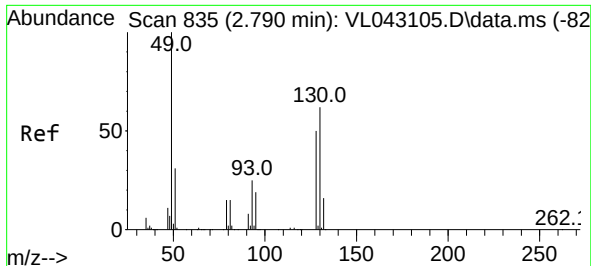
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

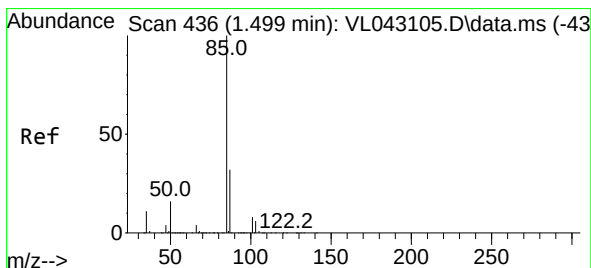
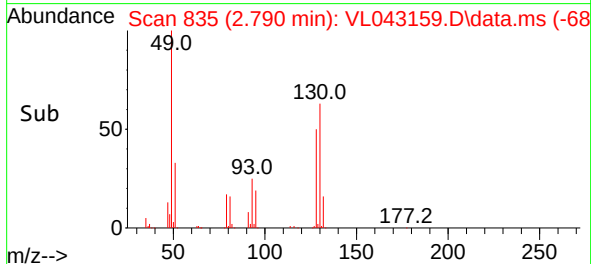
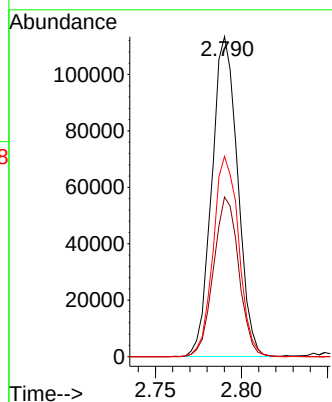
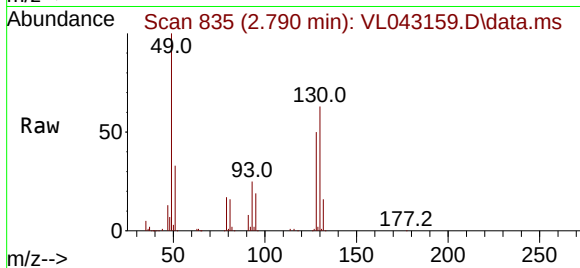




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

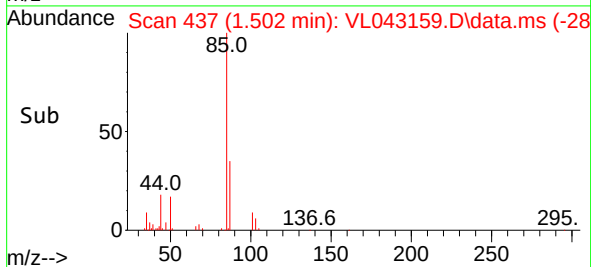
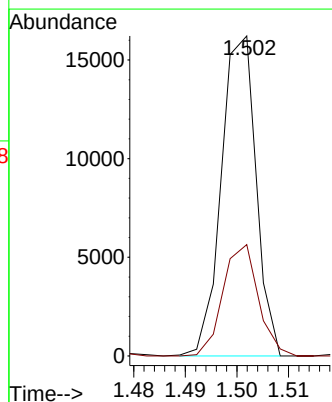
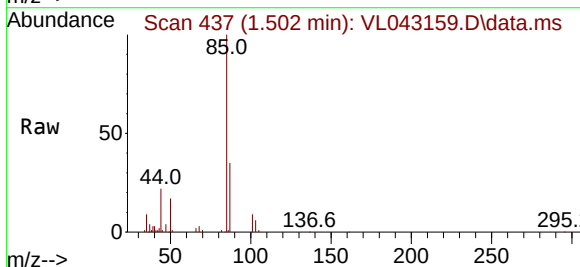
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

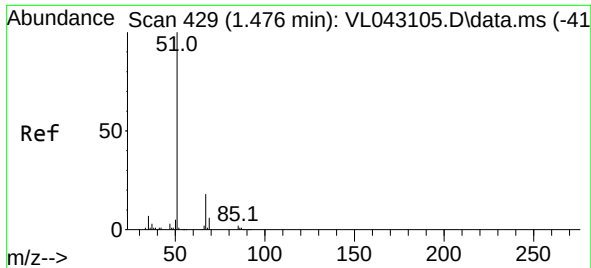
Tgt Ion: 49 Resp: 118024
Ion Ratio Lower Upper
49 100
128 49.1 24.4 73.4
130 62.2 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.453 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 85 Resp: 7609
Ion Ratio Lower Upper
85 100
87 34.8 25.3 37.9

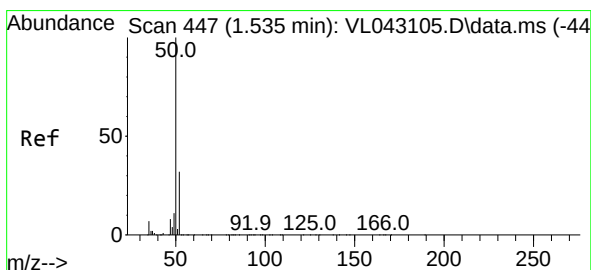
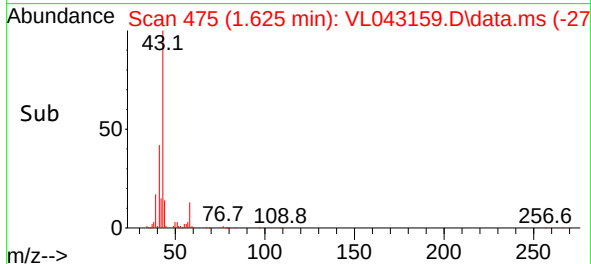
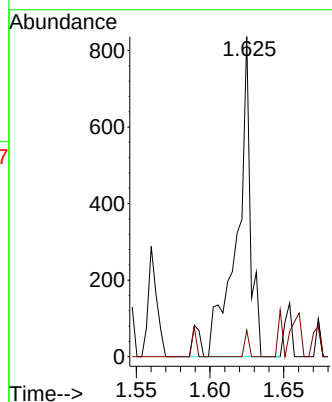
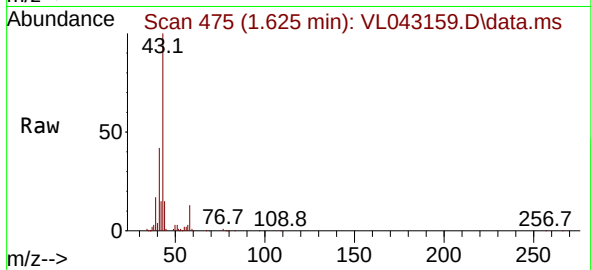




#3
Chlorodifluoromethane
Concen: 0.030 ppbv
RT: 1.625 min Scan# 41
Delta R.T. 0.149 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

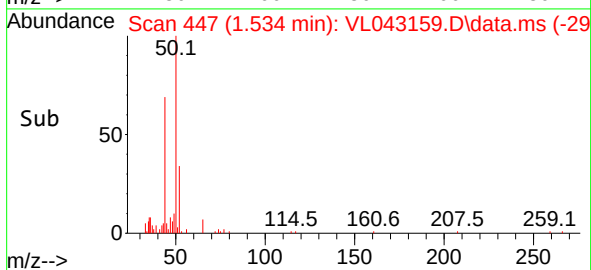
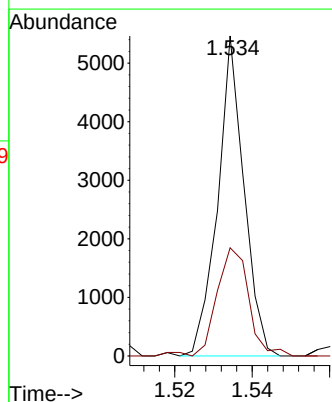
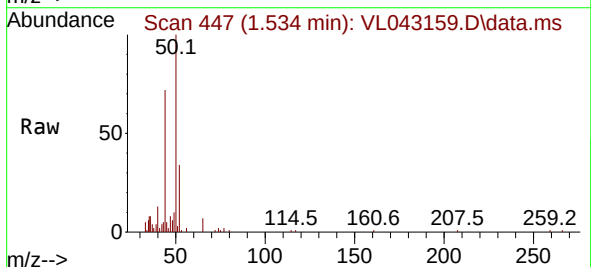
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

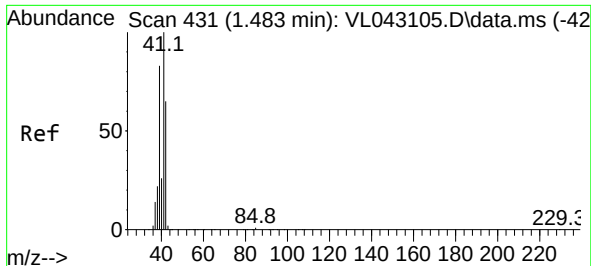
Tgt Ion: 51 Resp: 552
Ion Ratio Lower Upper
51 100
67 18.8 15.1 22.7



#4
Chloromethane
Concen: 0.388 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 50 Resp: 2577
Ion Ratio Lower Upper
50 100
52 32.7 25.2 37.8

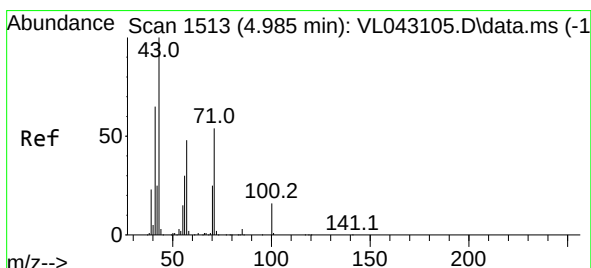
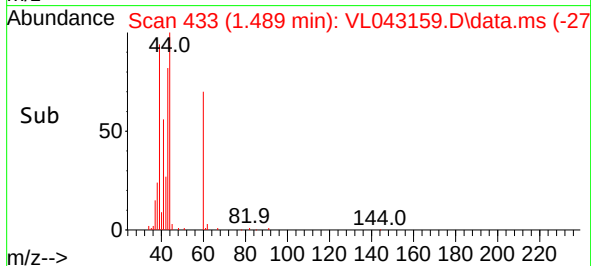
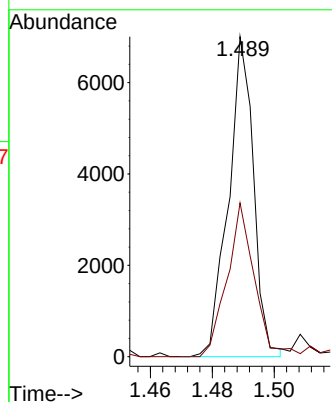
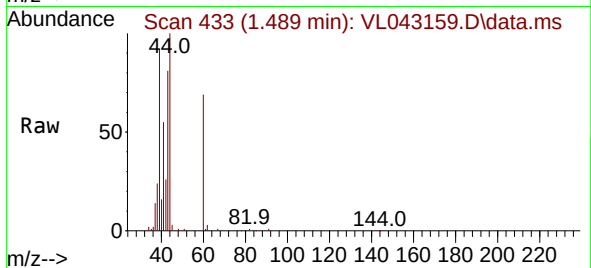




#9
 Propene
 Concen: 0.490 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

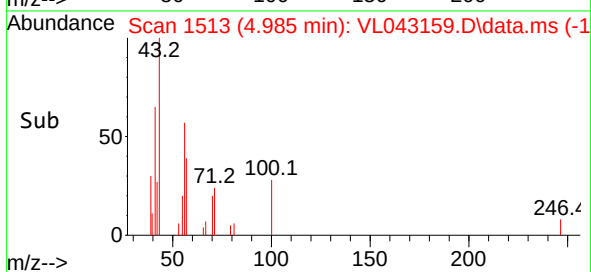
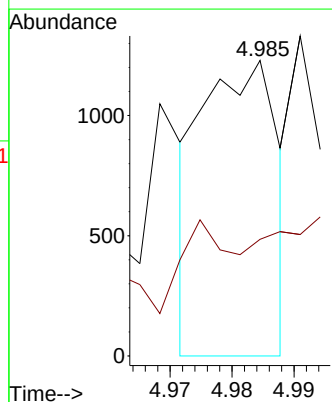
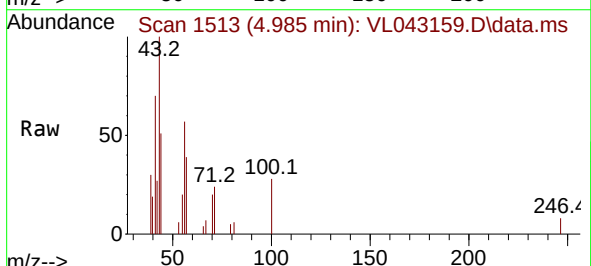
Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2DUP

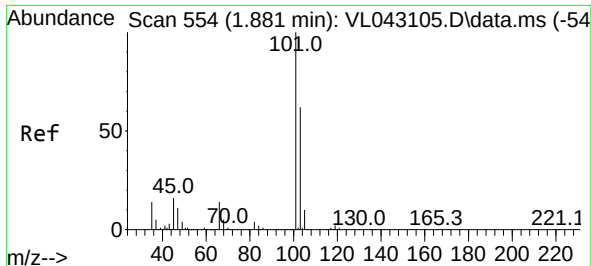
Tgt Ion: 41 Resp: 3944
 Ion Ratio Lower Upper
 41 100
 42 56.6 55.1 82.7



#10
 Heptane
 Concen: 0.045 ppbv
 RT: 4.985 min Scan# 1513
 Delta R.T. -0.000 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

Tgt Ion: 43 Resp: 1039
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.8 61.2#

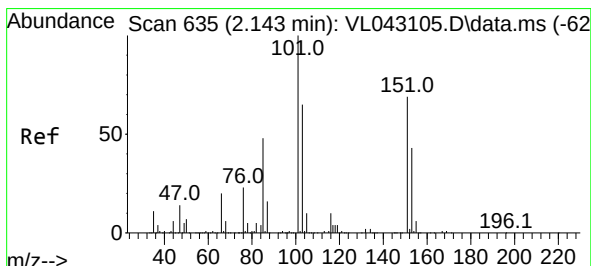
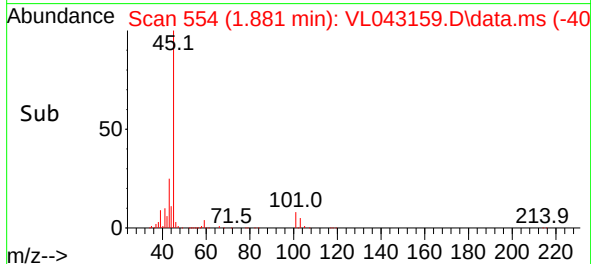
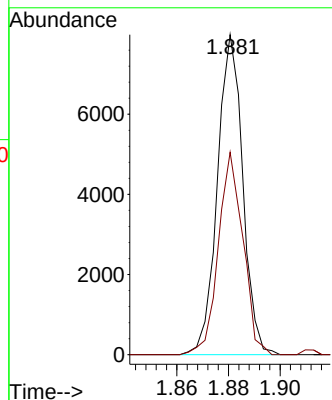
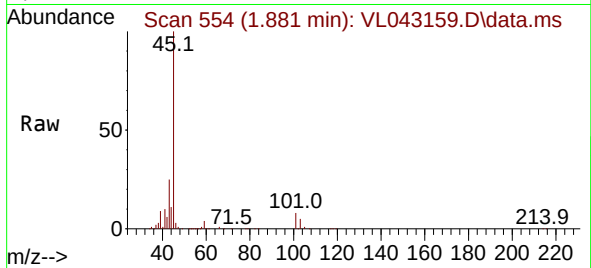




#11
 Trichlorofluoromethane
 Concen: 0.331 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

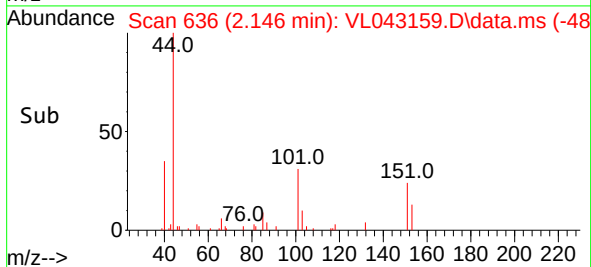
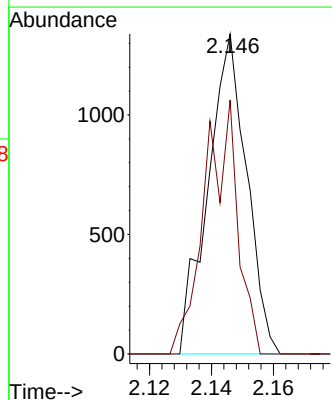
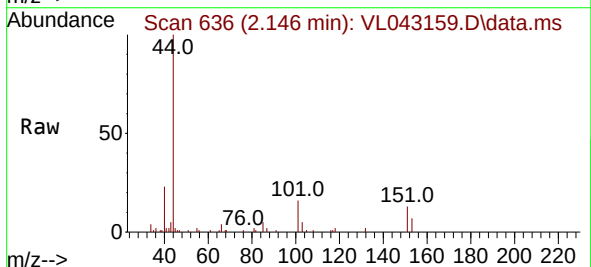
Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2DUP

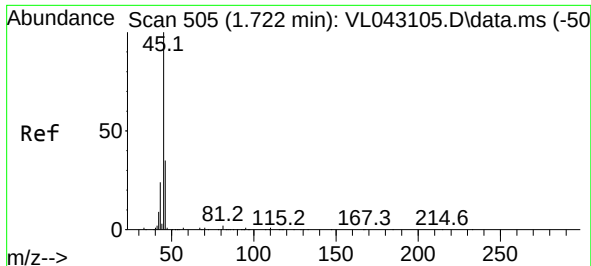
Tgt Ion:101 Resp: 5437
 Ion Ratio Lower Upper
 101 100
 103 63.3 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.088 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

Tgt Ion:101 Resp: 1161
 Ion Ratio Lower Upper
 101 100
 151 67.8 54.7 82.1

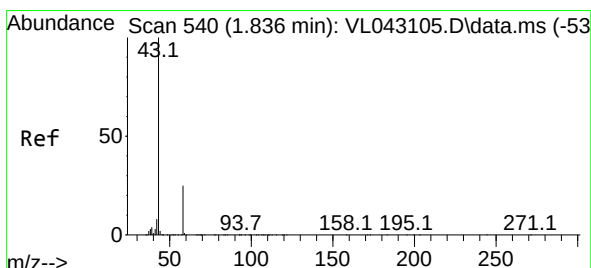
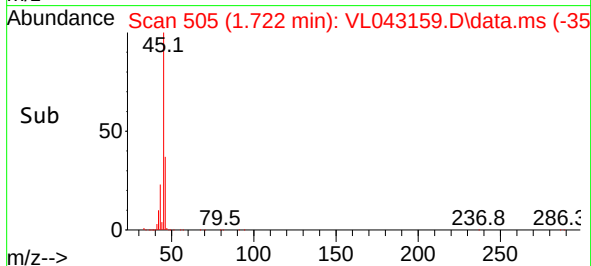
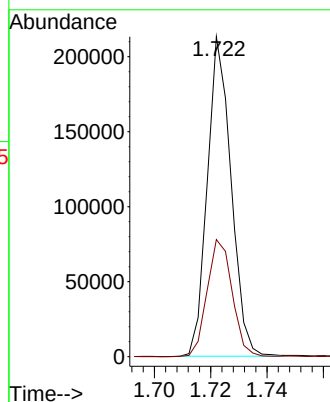
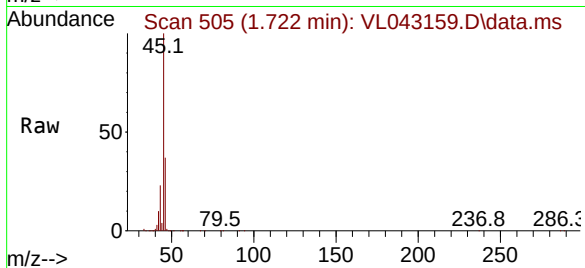




#13
Ethanol
Concen: 41.954 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

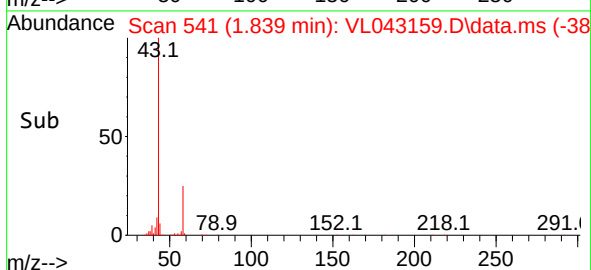
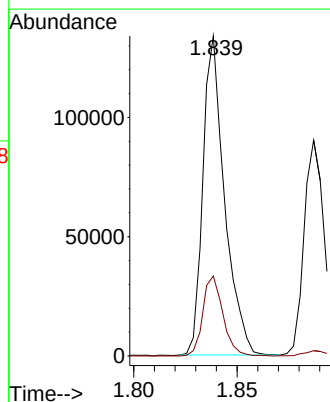
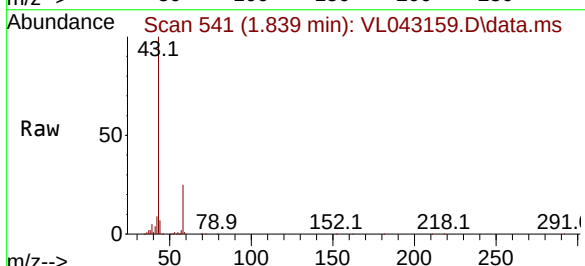
Instrument :
MSVOA_1
ClientSampleId :
151-IA-2DUP

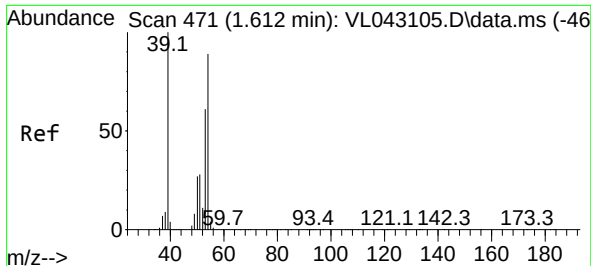
Tgt Ion: 45 Resp: 124950
Ion Ratio Lower Upper
45 100
46 39.0 14.7 58.9



#15
Acetone
Concen: 6.132 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 43 Resp: 97541
Ion Ratio Lower Upper
43 100
58 23.2 20.8 31.2

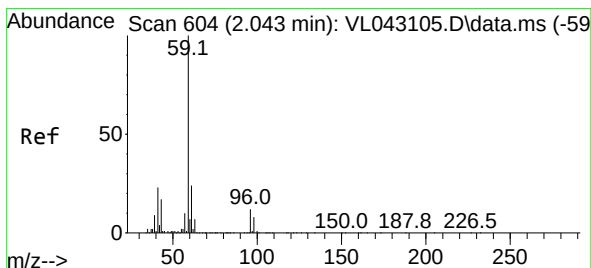
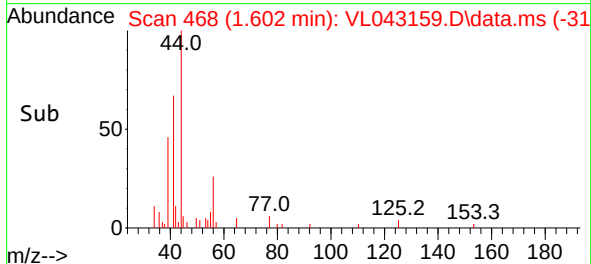
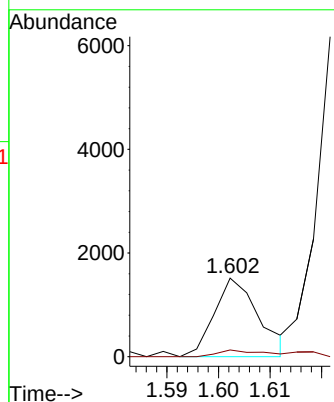
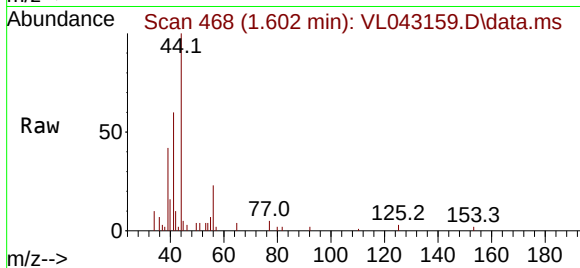




#16
1,3-Butadiene
Concen: 0.120 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

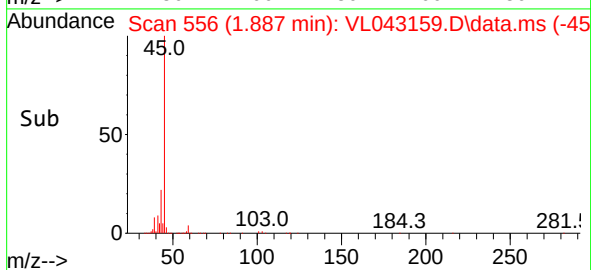
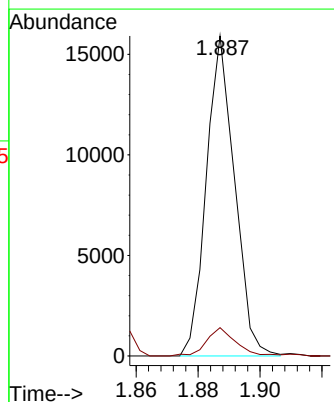
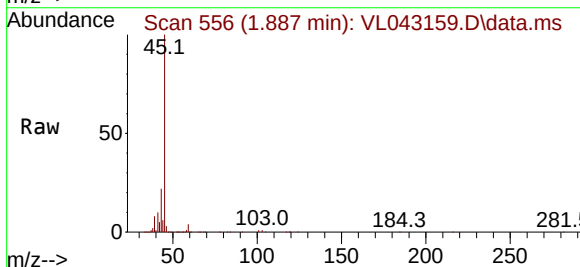
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

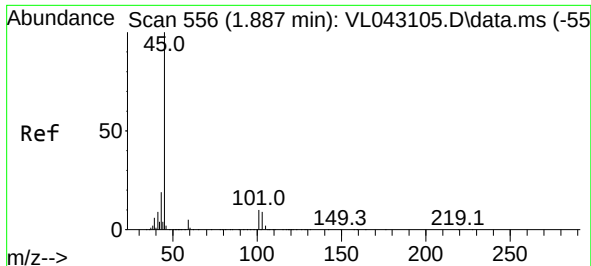
Tgt Ion: 39 Resp: 908
Ion Ratio Lower Upper
39 100
54 0.0 59.0 88.4#



#17
tert-Butyl alcohol
Concen: 0.462 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.156 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 59 Resp: 10088
Ion Ratio Lower Upper
59 100
57 9.3 8.2 12.4

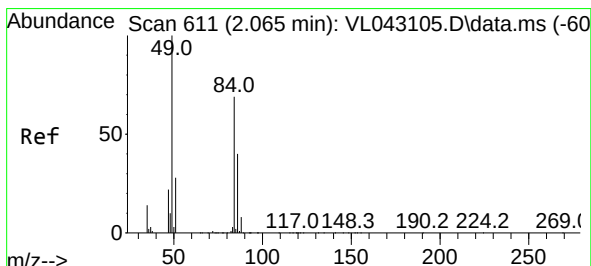
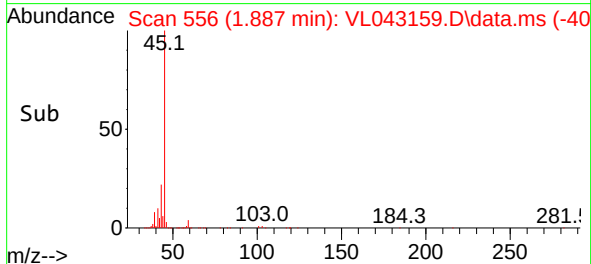
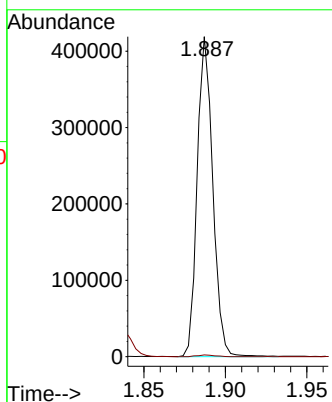
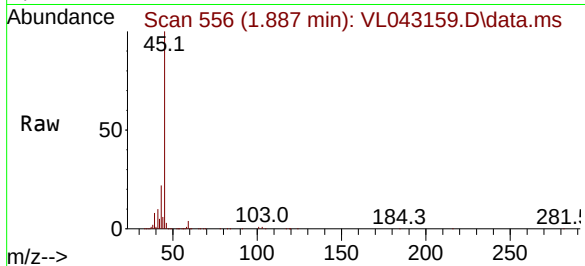




#19
Isopropyl Alcohol
Concen: 28.080 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

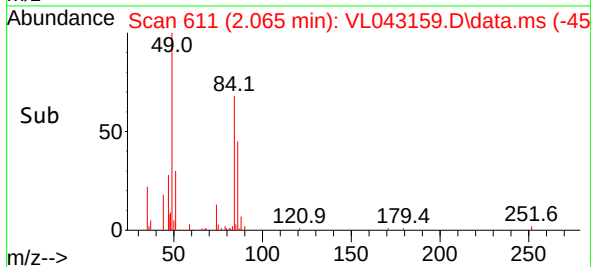
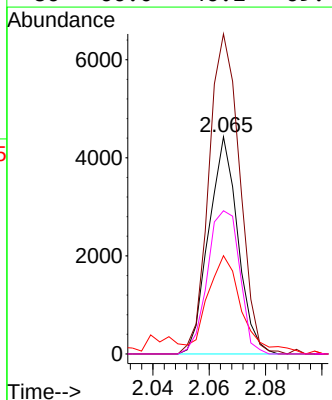
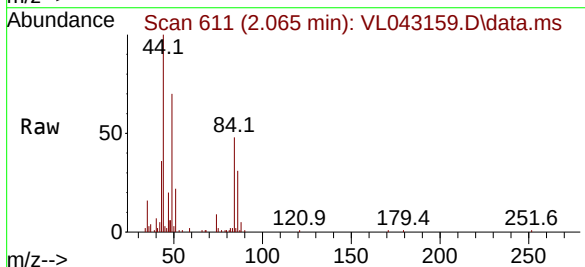
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

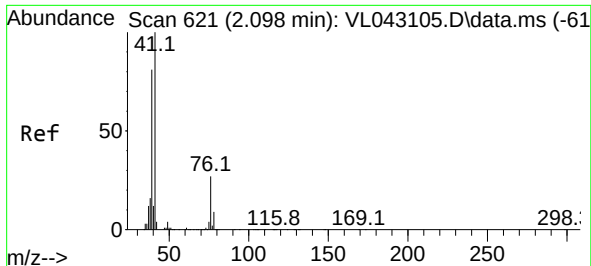
Tgt Ion: 45 Resp: 278208
Ion Ratio Lower Upper
45 100
58 0.6 31.3 46.9#



#20
Methylene Chloride
Concen: 0.507 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 84 Resp: 3186
Ion Ratio Lower Upper
84 100
49 147.4 116.6 175.0
51 41.9 34.8 52.2
86 66.0 46.2 69.4

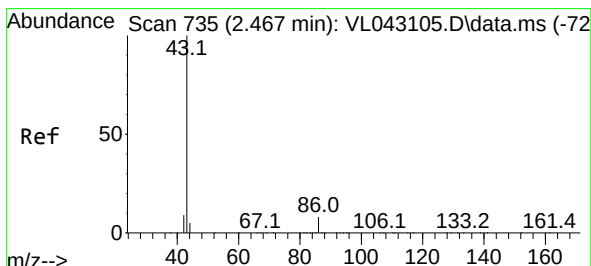
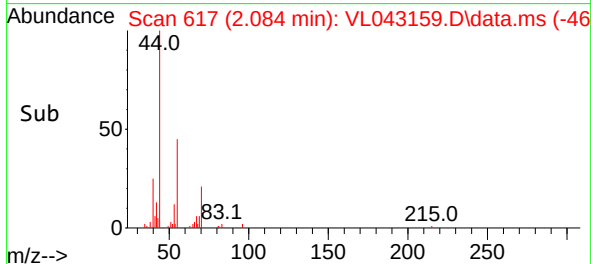
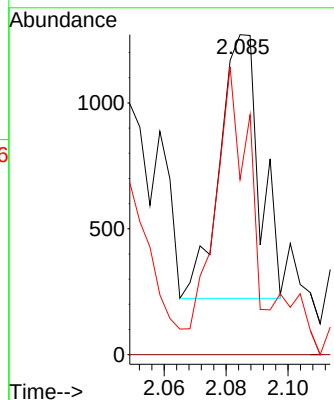
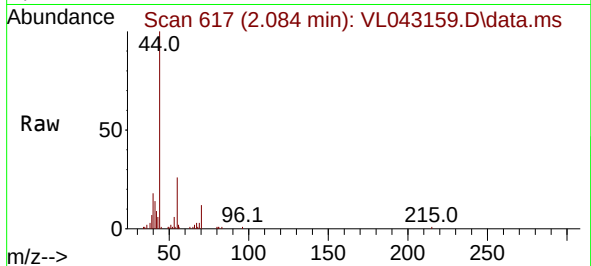




#21
 Allyl Chloride
 Concen: 0.080 ppbv
 RT: 2.084 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

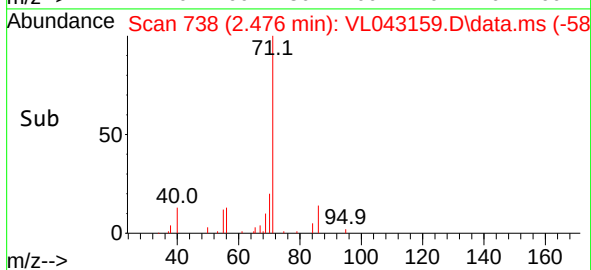
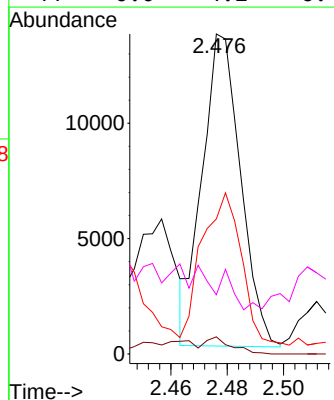
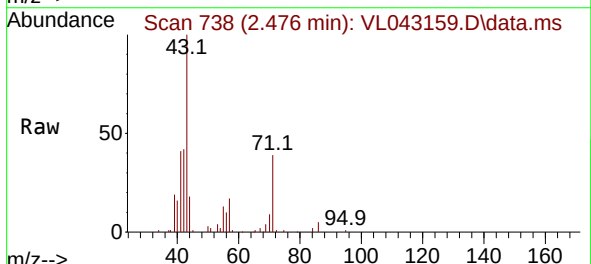
Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2DUP

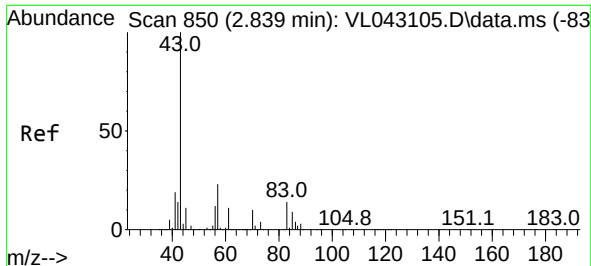
Tgt Ion: 41 Resp: 933
 Ion Ratio Lower Upper
 41 100
 76 35.5 21.5 32.3#
 39 134.5 60.8 91.2#



#23
 Vinyl Acetate
 Concen: 0.549 ppbv
 RT: 2.476 min Scan# 738
 Delta R.T. 0.009 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

Tgt Ion: 43 Resp: 12803
 Ion Ratio Lower Upper
 43 100
 86 5.5 6.2 9.2#
 42 40.0 7.6 11.4#
 44 0.0 4.2 6.4#

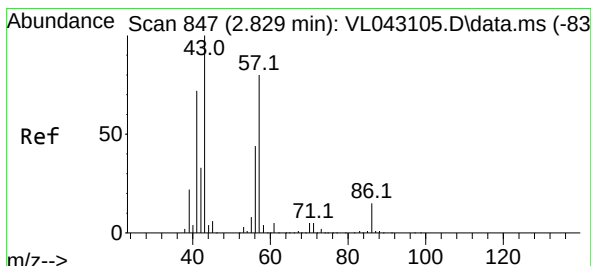
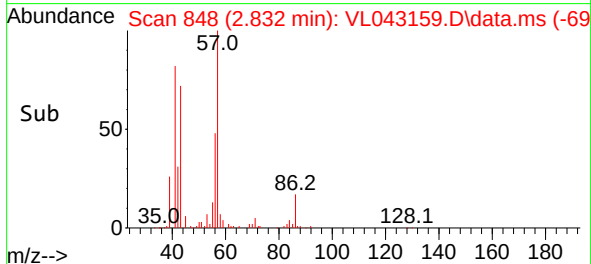
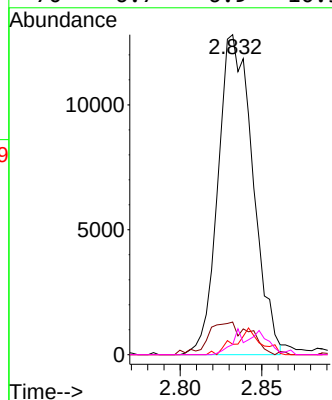
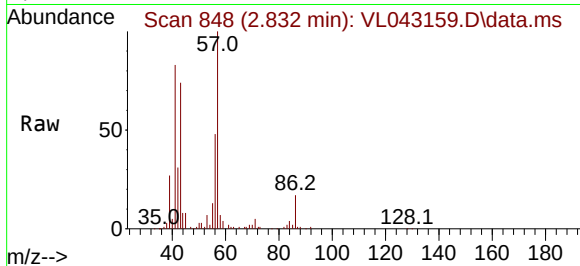




#25
Ethyl Acetate
Concen: 0.480 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

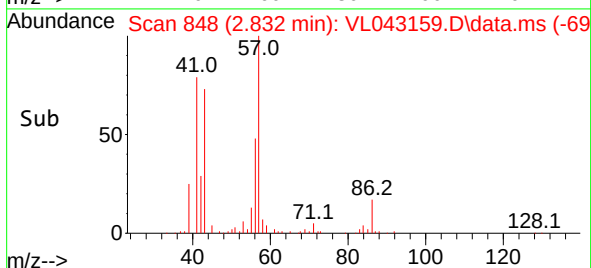
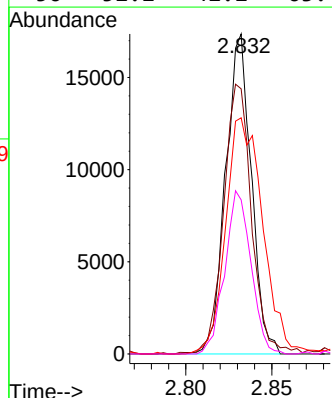
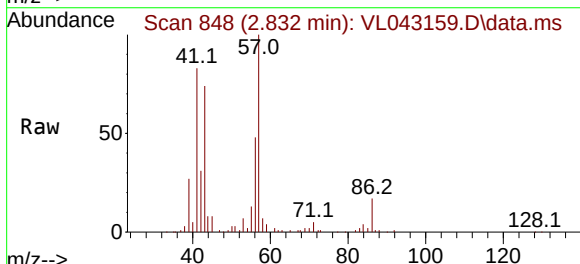
Instrument :
MSVOA_1
ClientSampleId :
151-IA-2DUP

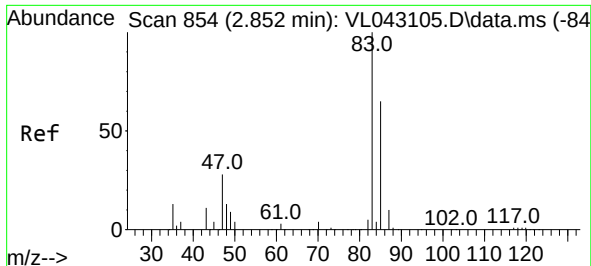
Tgt Ion: 43	Resp: 18936
Ion Ratio	Lower Upper
43 100	
45 12.5	7.8 11.8#
61 6.1	7.0 10.6#
70 6.7	6.9 10.3#



#26
Hexane
Concen: 0.992 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 57	Resp: 18040
Ion Ratio	Lower Upper
57 100	
41 92.0	71.4 107.0
43 108.4	178.5 267.7#
56 52.2	42.2 63.4





#29

Chloroform

Concen: 0.613 ppbv

RT: 2.848 min Scan# 854

Delta R.T. -0.004 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

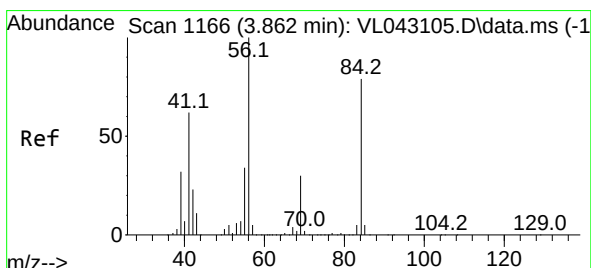
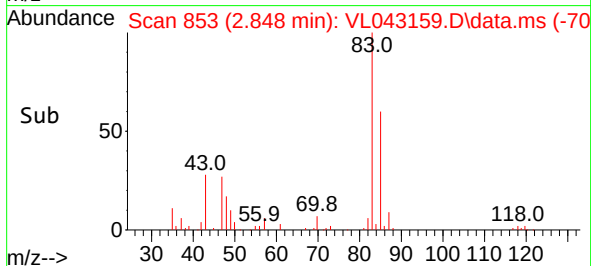
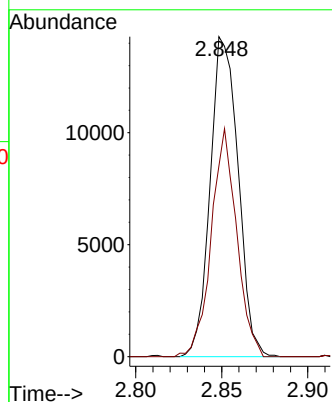
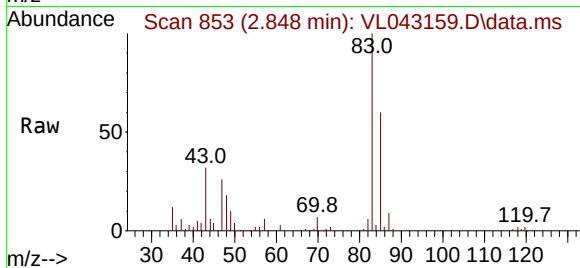
151-IA-2DUP

Tgt Ion: 83 Resp: 16144

Ion Ratio Lower Upper

83 100

85 59.6 51.8 77.6



#30

Cyclohexane

Concen: 0.032 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

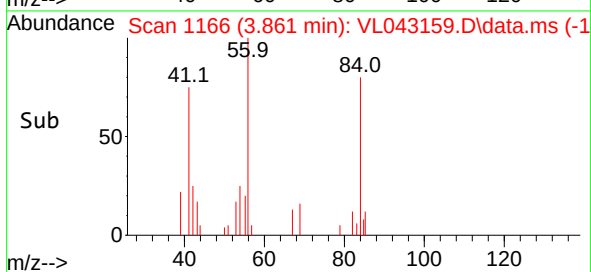
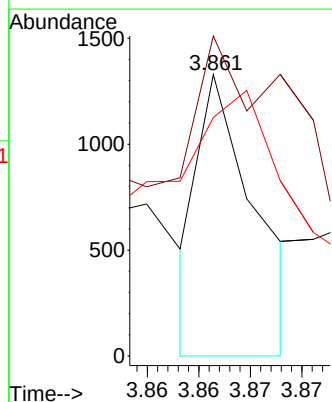
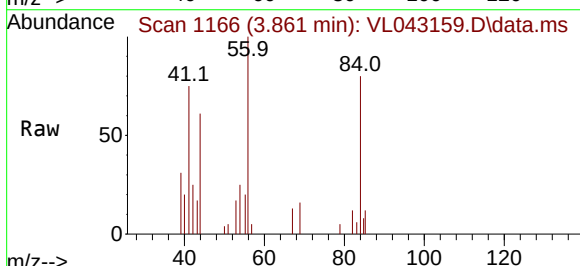
Tgt Ion: 84 Resp: 508

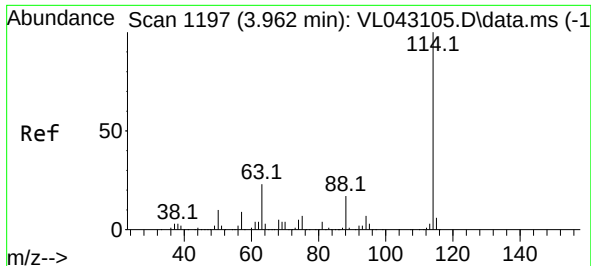
Ion Ratio Lower Upper

84 100

56 436.0 100.9 151.3#

41 353.7 63.8 95.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

151-IA-2DUP

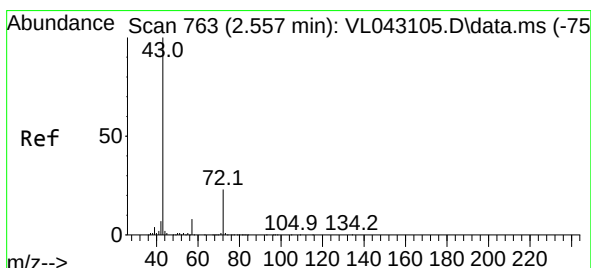
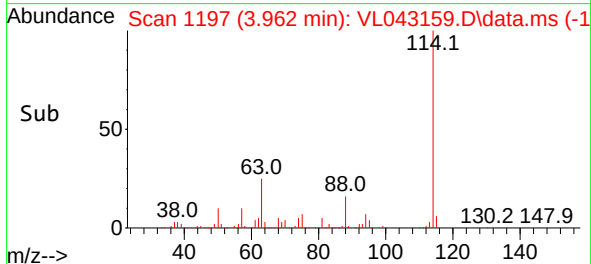
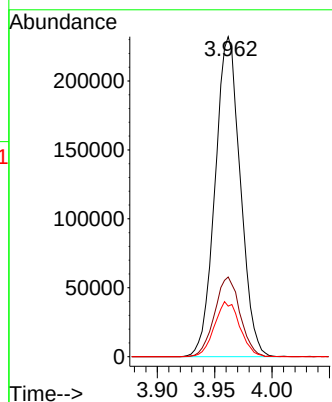
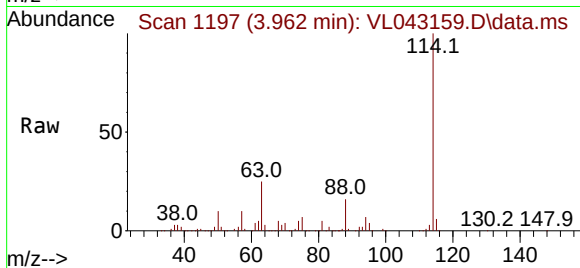
Tgt Ion:114 Resp: 354784

Ion Ratio Lower Upper

114 100

63 25.2 19.3 28.9

88 17.3 13.9 20.9



#34

2-Butanone

Concen: 0.273 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043159.D

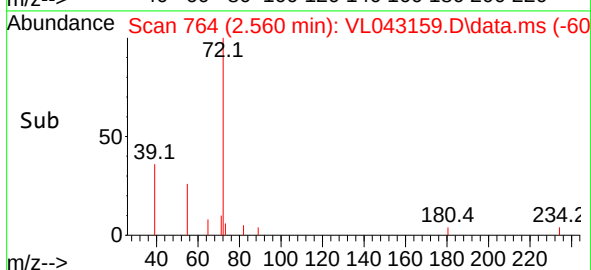
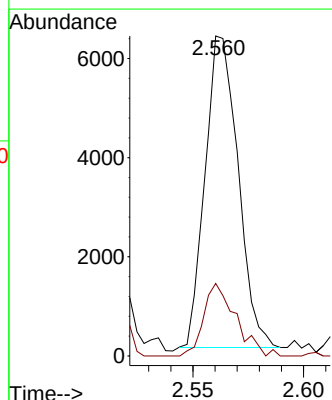
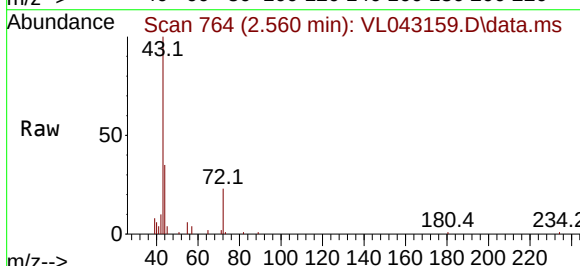
Acq: 06 Nov 2025 10:17

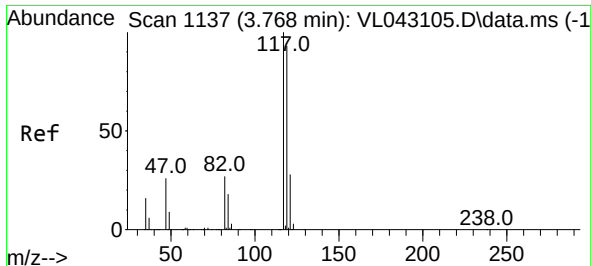
Tgt Ion: 43 Resp: 6502

Ion Ratio Lower Upper

43 100

72 22.6 18.4 27.6

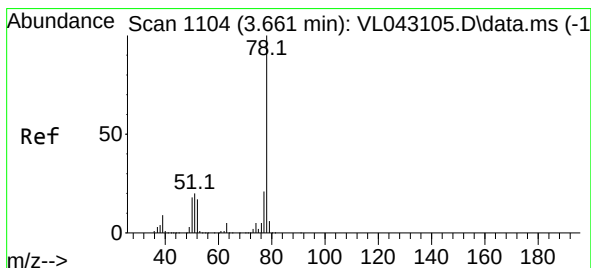
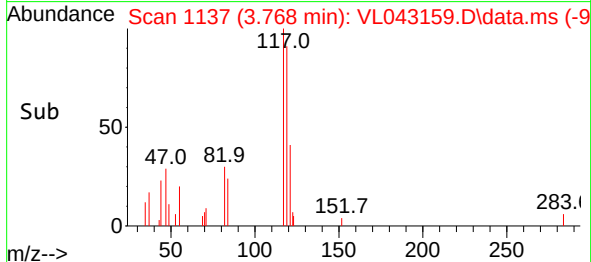
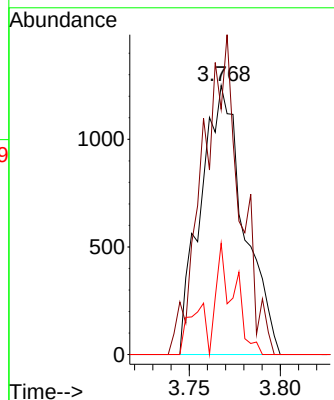
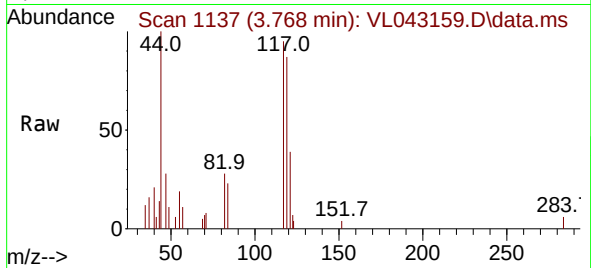




#35
Carbon Tetrachloride
Concen: 0.081 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

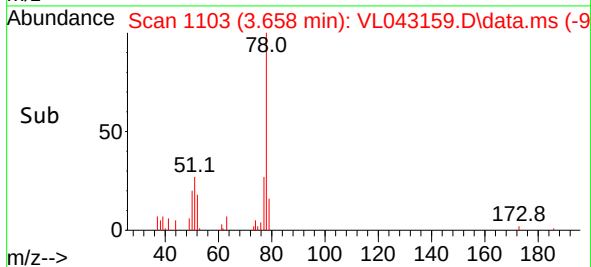
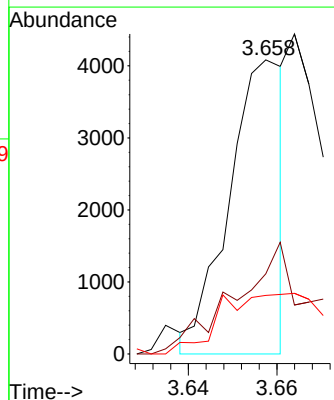
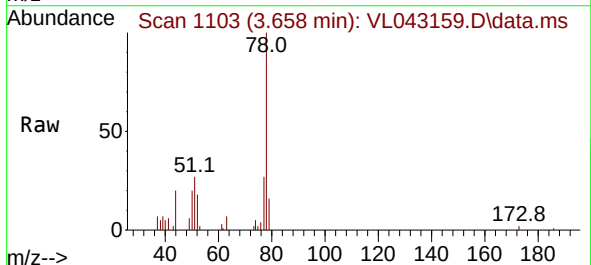
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

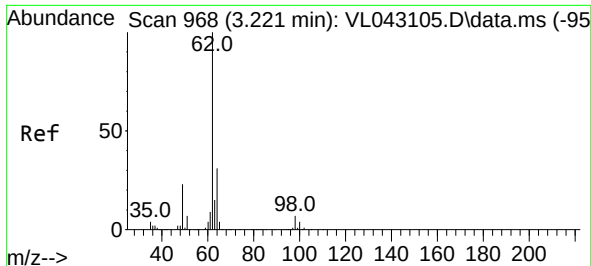
Tgt Ion:117 Resp: 2069
Ion Ratio Lower Upper
117 100
119 91.2 74.1 111.1
121 41.4 22.2 33.2#



#36
Benzene
Concen: 0.104 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 78 Resp: 3482
Ion Ratio Lower Upper
78 100
77 23.4 17.0 25.6
50 17.3 14.6 22.0

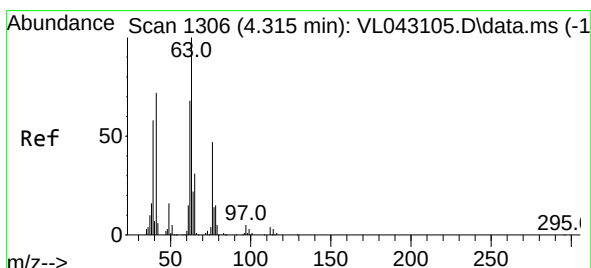
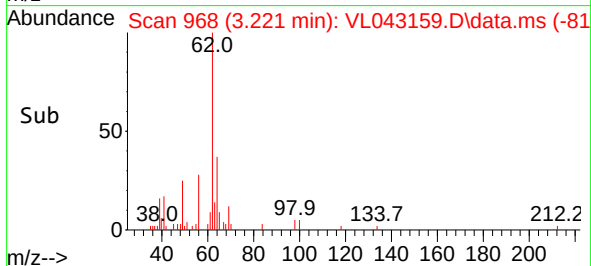
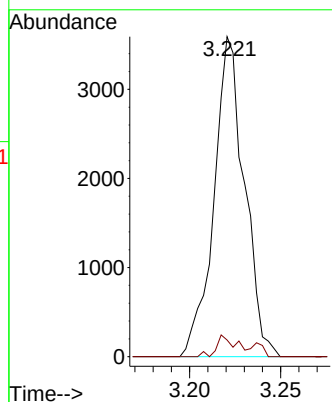
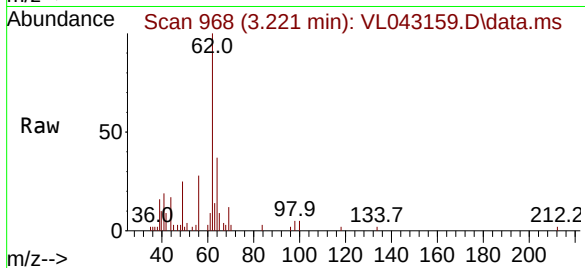




#37
 1,2-Dichloroethane
 Concen: 0.217 ppbv
 RT: 3.221 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

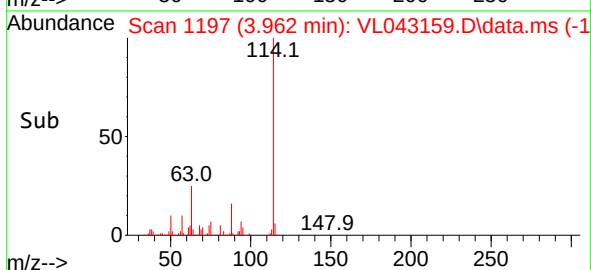
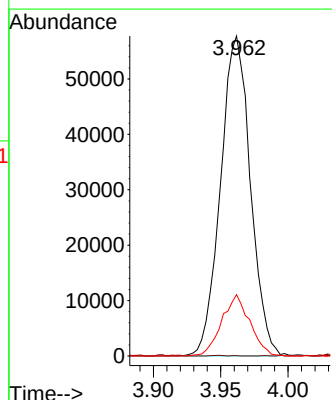
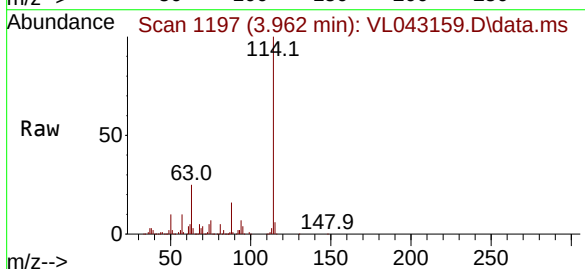
Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2DUP

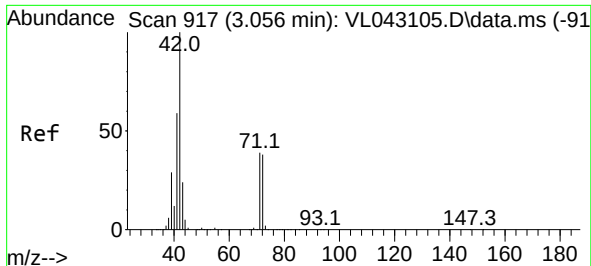
Tgt Ion: 62 Resp: 4176
 Ion Ratio Lower Upper
 62 100
 98 6.0 5.8 8.6



#39
 1,2-Dichloropropane
 Concen: 7.292 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.353 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

Tgt Ion: 63 Resp: 89086
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.0 87.0#
 62 19.2 54.7 82.1#

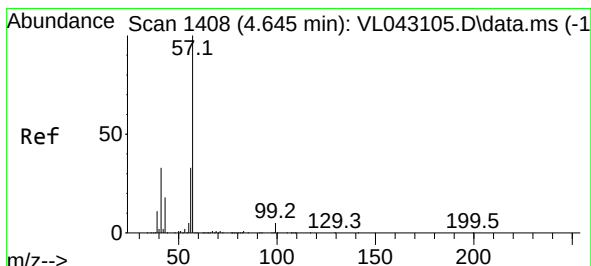
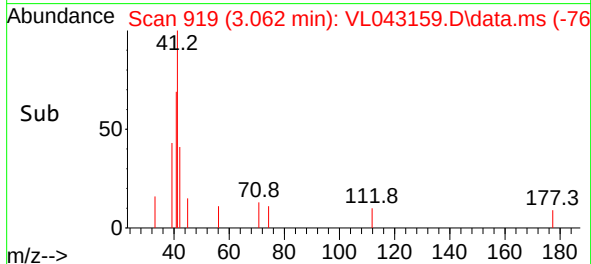
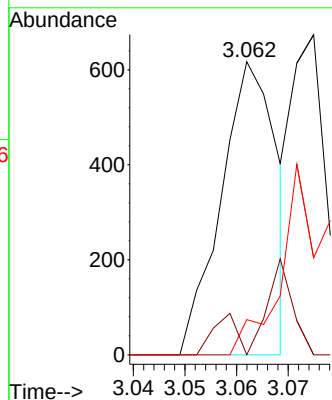
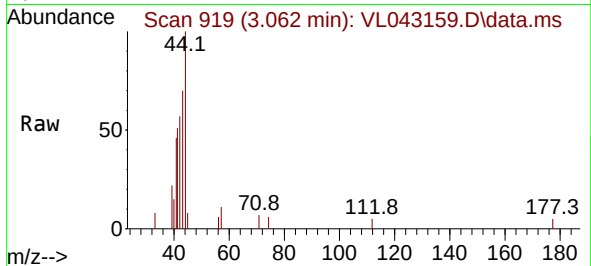




#41
Tetrahydrofuran
Concen: 0.035 ppbv
RT: 3.062 min Scan# 917
Delta R.T. 0.006 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

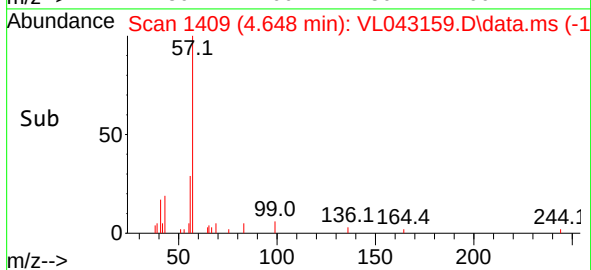
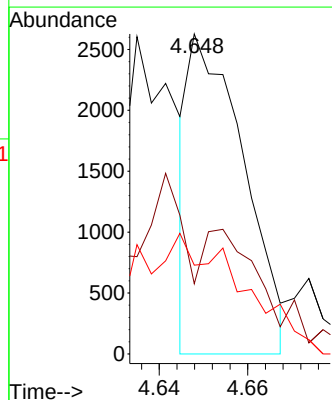
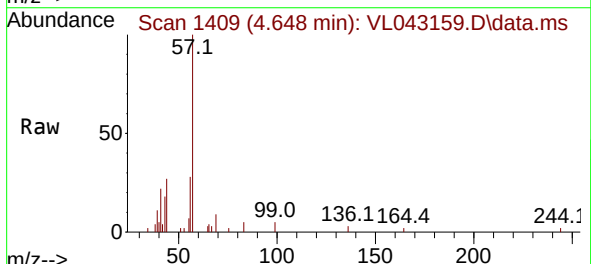
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

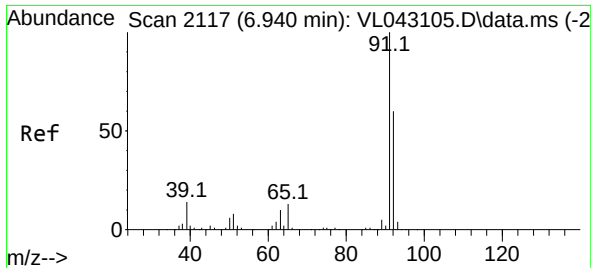
Tgt Ion: 42 Resp: 462
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9#
71 0.0 30.4 45.6#



#44
2,2,4-Trimethylpentane
Concen: 0.040 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 57 Resp: 2264
Ion Ratio Lower Upper
57 100
41 130.6 26.3 39.5#
56 112.9 25.9 38.9#





#53

Toluene

Concen: 0.520 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. -0.004 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

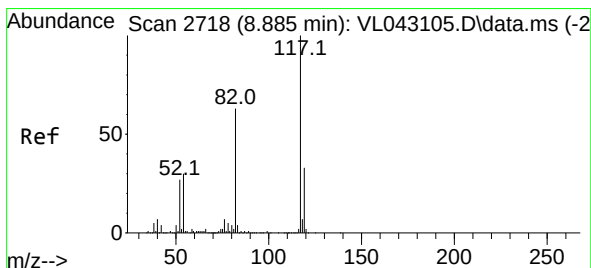
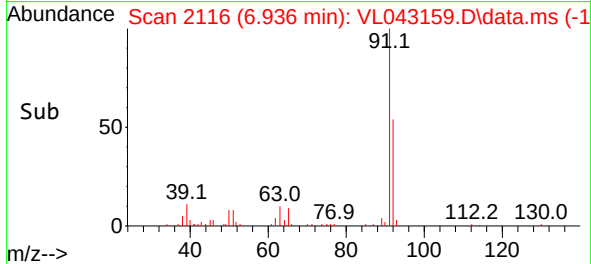
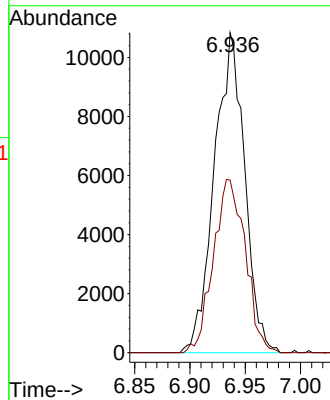
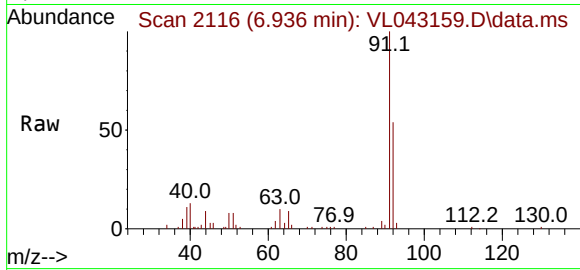
151-IA-2DUP

Tgt Ion: 91 Resp: 20621

Ion Ratio Lower Upper

91 100

92 57.0 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2717

Delta R.T. -0.004 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

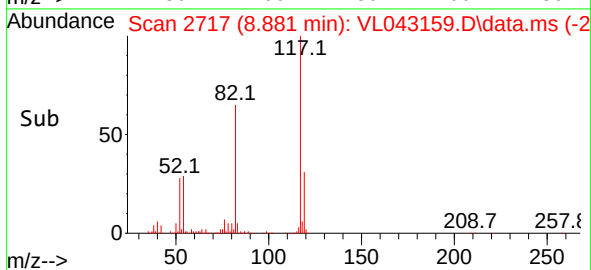
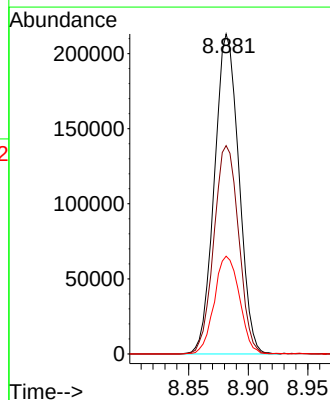
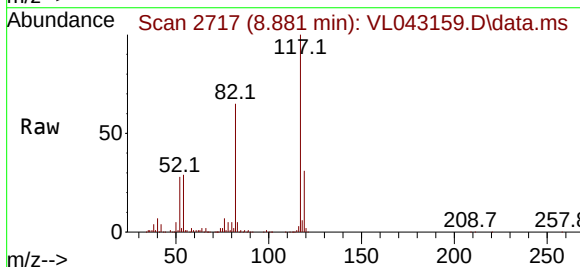
Tgt Ion: 117 Resp: 303947

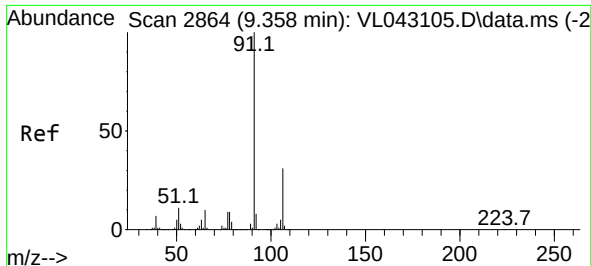
Ion Ratio Lower Upper

117 100

82 66.1 53.8 80.8

119 31.6 25.4 38.0

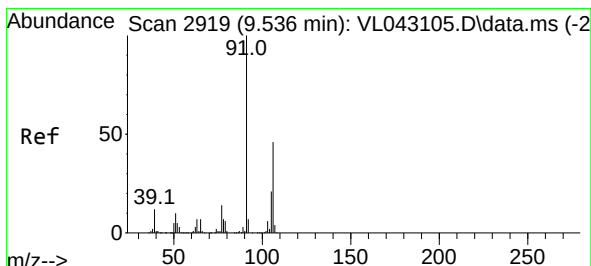
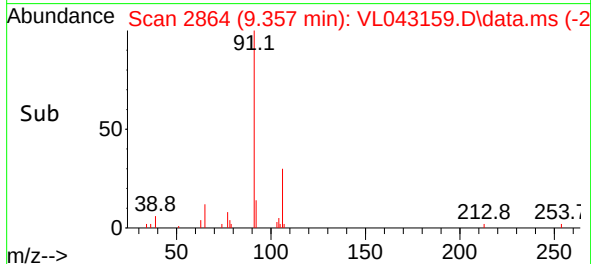
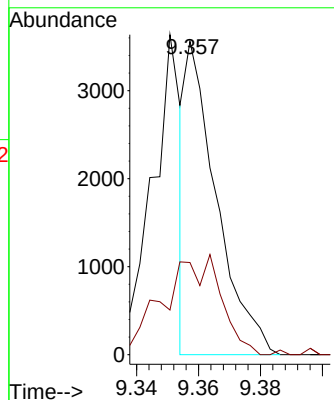
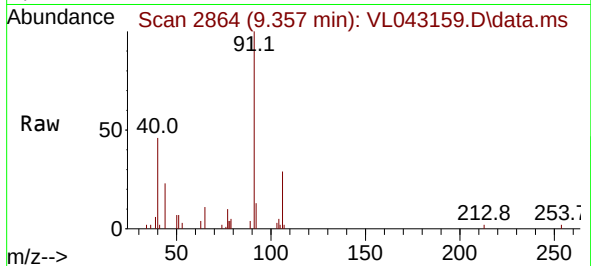




#58
Ethyl Benzene
Concen: 0.047 ppbv
RT: 9.357 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

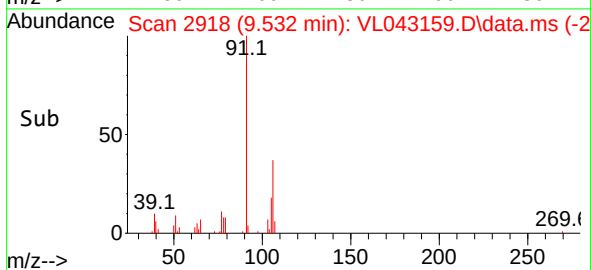
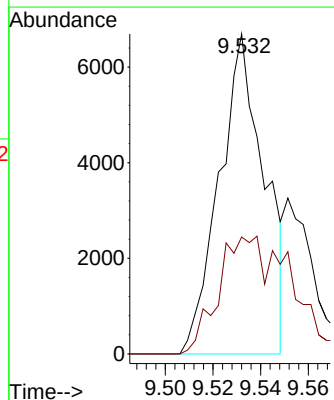
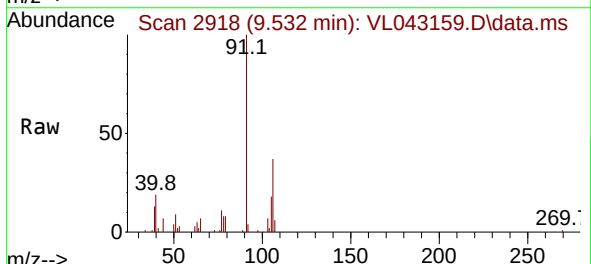
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

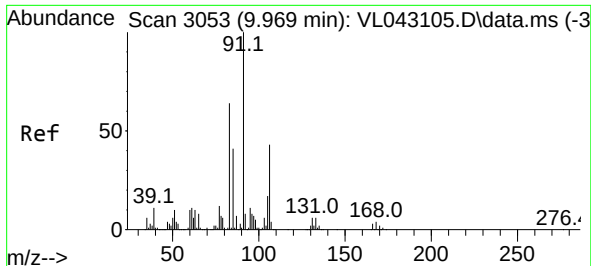
Tgt Ion: 91 Resp: 2454
Ion Ratio Lower Upper
91 100
106 27.9 24.8 37.2



#59
m/p-Xylene
Concen: 0.210 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 91 Resp: 8752
Ion Ratio Lower Upper
91 100
106 59.3 38.0 57.0#

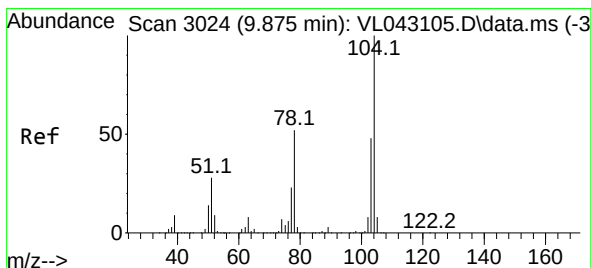
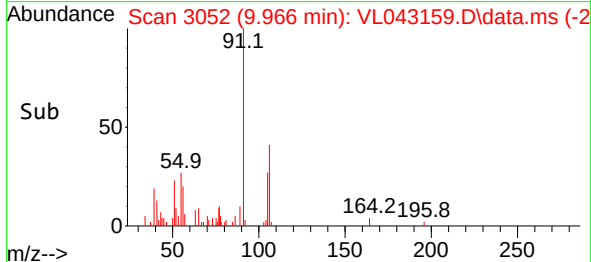
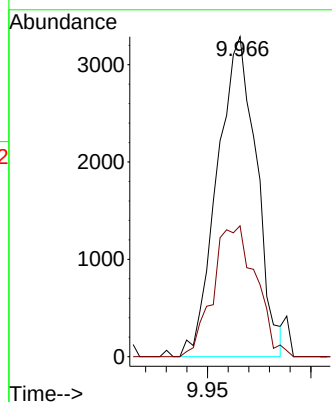
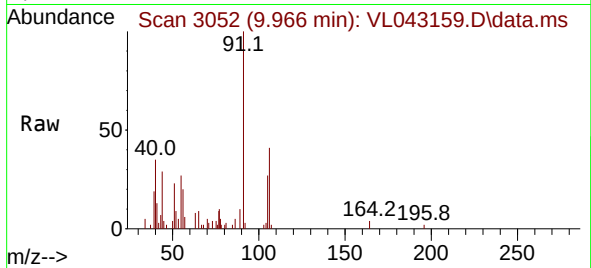




#60
o-Xylene
Concen: 0.105 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

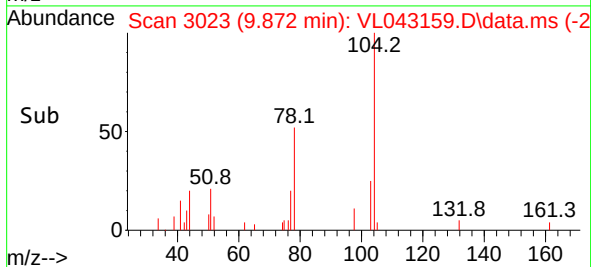
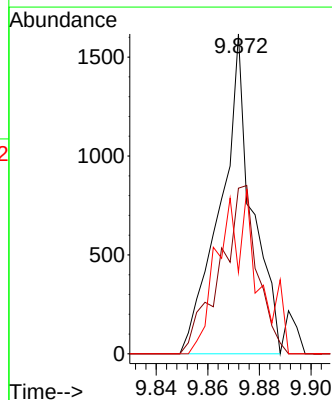
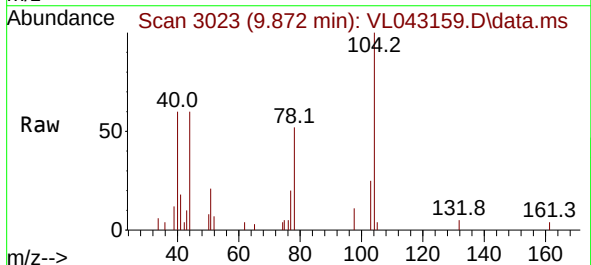
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

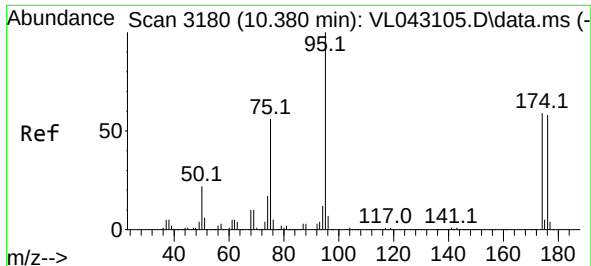
Tgt Ion: 91 Resp: 4326
Ion Ratio Lower Upper
91 100
106 44.9 21.9 65.8



#61
Styrene
Concen: 0.074 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 104 Resp: 1372
Ion Ratio Lower Upper
104 100
78 62.4 40.2 60.2#
103 62.9 36.9 55.3#

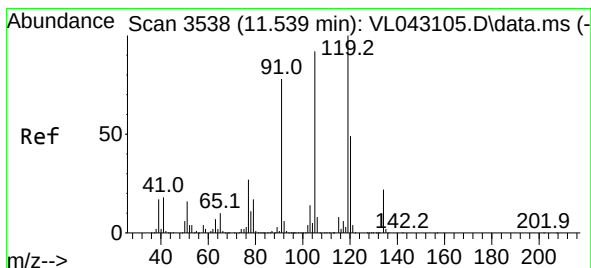
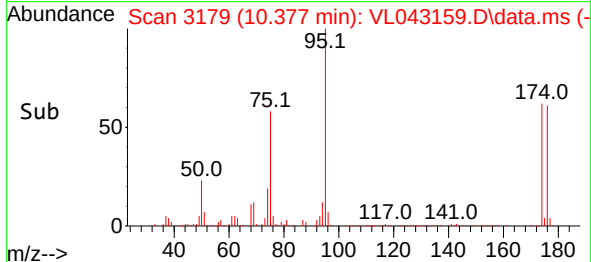
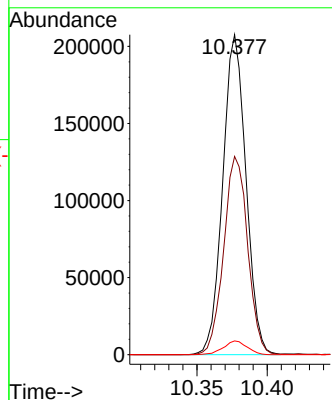
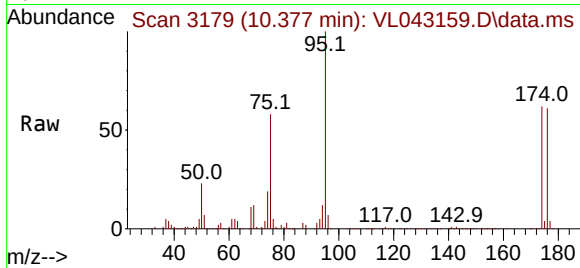




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.102 ppbv
 RT: 10.377 min Scan# 3180
 Delta R.T. -0.004 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

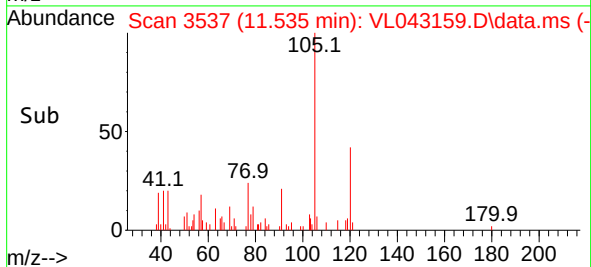
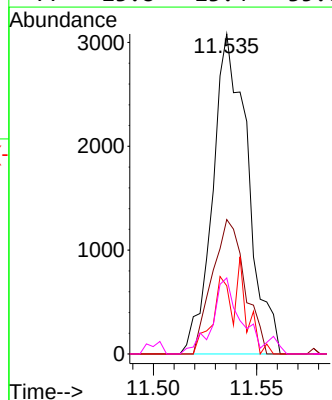
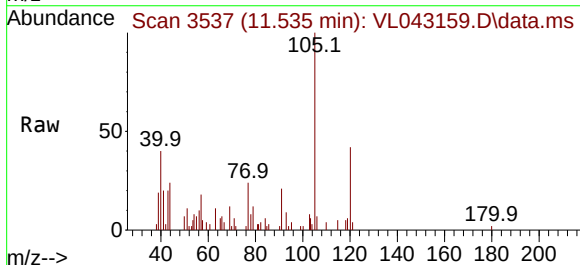
Instrument :
 MSVOA_1
 ClientSampleId :
 151-IA-2DUP

Tgt Ion: 95 Resp: 238666
 Ion Ratio Lower Upper
 95 100
 174 63.9 48.3 72.5
 175 4.4 3.8 5.8



#74
 1,2,4-Trimethylbenzene
 Concen: 0.078 ppbv
 RT: 11.535 min Scan# 3537
 Delta R.T. -0.004 min
 Lab File: VL043159.D
 Acq: 06 Nov 2025 10:17

Tgt Ion: 105 Resp: 3636
 Ion Ratio Lower Upper
 105 100
 120 42.0 42.8 64.2#
 91 21.3 68.3 102.5#
 77 23.8 23.4 35.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043163.D
 Acq On : 06 Nov 2025 12:44
 Operator : SY/MD
 Sample : Q3557-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-AA-1

Quant Time: Nov 07 00:21:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

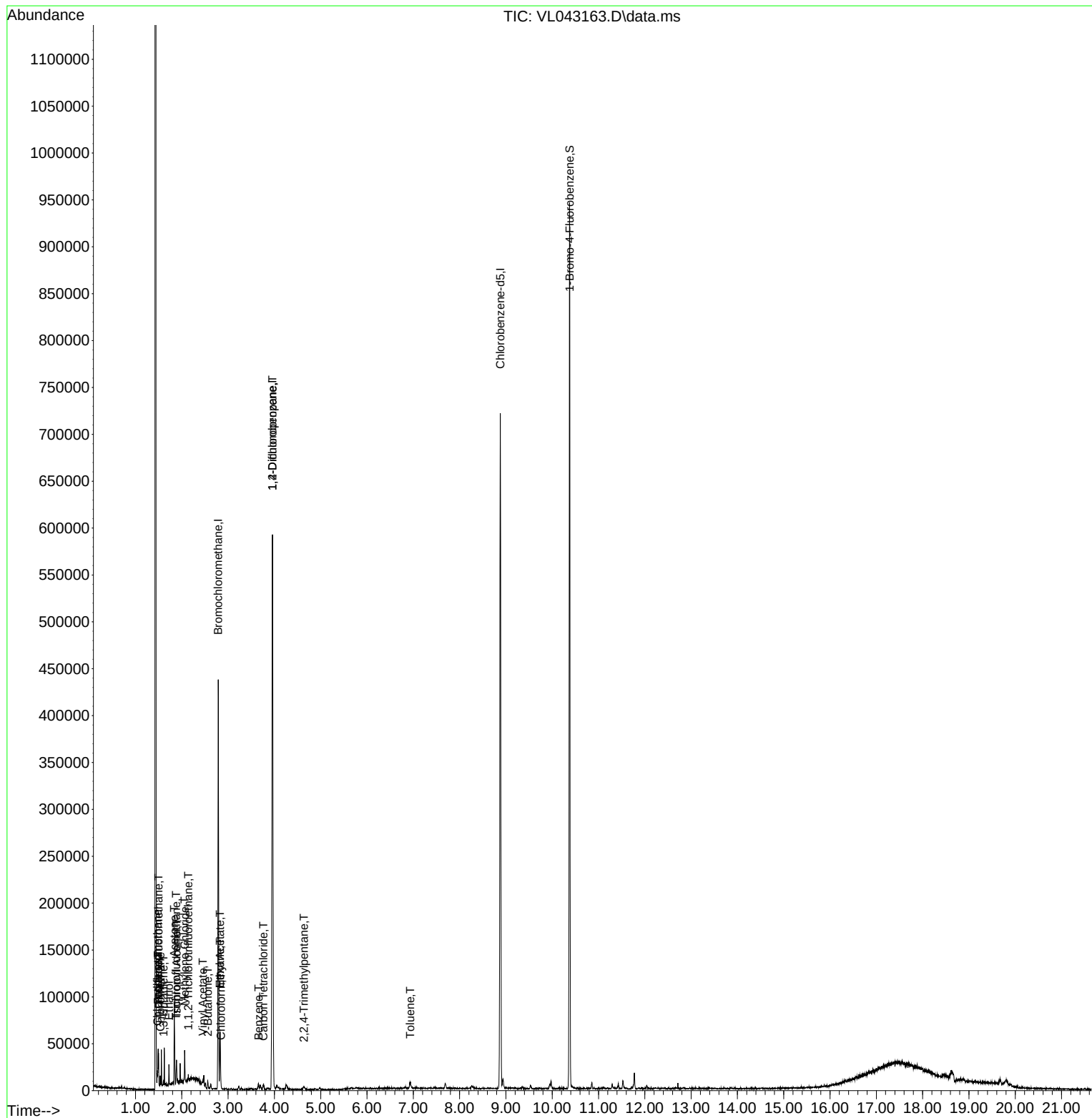
Internal Standards						
1) Bromochloromethane	2.787	49	114655	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	343053	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	295343	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	233984	10.193	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	8126	0.499	ppbv	98
3) Chlorodifluoromethane	1.476	51	8052	0.457	ppbv #	87
4) Chloromethane	1.534	50	3050	0.472	ppbv	91
9) Propene	1.489	41	2649	0.339	ppbv	92
11) Trichlorofluoromethane	1.881	101	4157	0.261	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	1008	0.079	ppbv	90
13) Ethanol	1.722	45	7183	2.483	ppbv #	38
15) Acetone	1.835	43	40561	2.625	ppbv	99
16) 1,3-Butadiene	1.602	39	497	0.067	ppbv #	35
19) Isopropyl Alcohol	1.887	45	8851	0.920	ppbv #	1
20) Methylene Chloride	2.062	84	4671	0.765	ppbv	95
23) Vinyl Acetate	2.454	43	3139	0.139	ppbv #	84
25) Ethyl Acetate	2.826	43	10701	0.279	ppbv #	82
26) Hexane	2.826	57	13632	0.772	ppbv #	42
29) Chloroform	2.849	83	815	0.032	ppbv #	77
34) 2-Butanone	2.560	43	5042	0.219	ppbv	99
35) Carbon Tetrachloride	3.765	117	964	0.039	ppbv #	89
36) Benzene	3.661	78	1338	0.041	ppbv #	73
39) 1,2-Dichloropropane	3.959	63	87782	7.431	ppbv #	25
44) 2,2,4-Trimethylpentane	4.638	57	1800	0.033	ppbv #	50
53) Toluene	6.936	91	2020	0.053	ppbv #	20

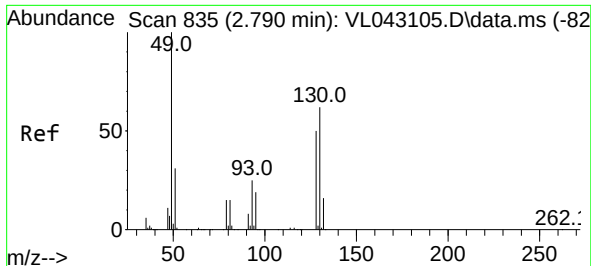
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043163.D
Acq On : 06 Nov 2025 12:44
Operator : SY/MD
Sample : Q3557-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

Quant Time: Nov 07 00:21:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

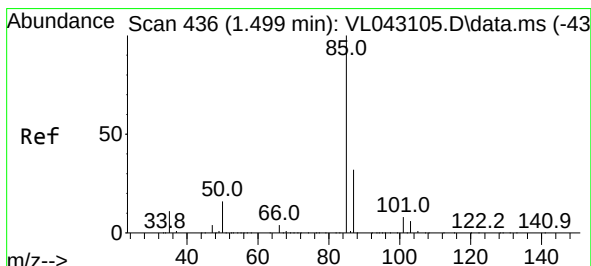
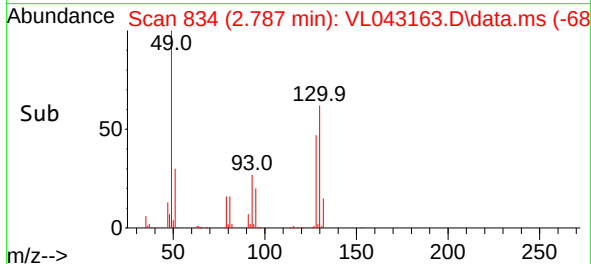
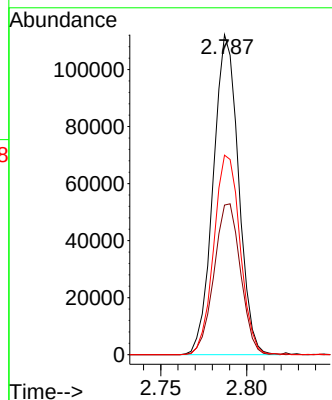
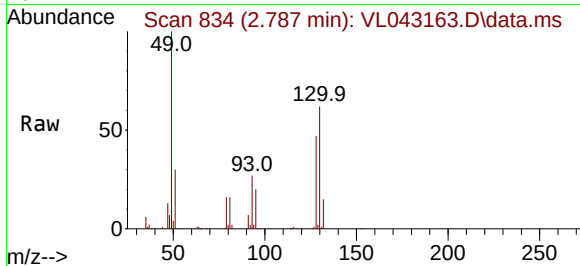




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 835
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

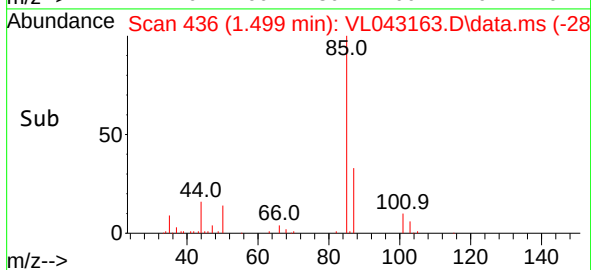
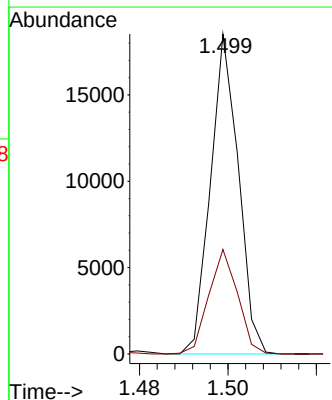
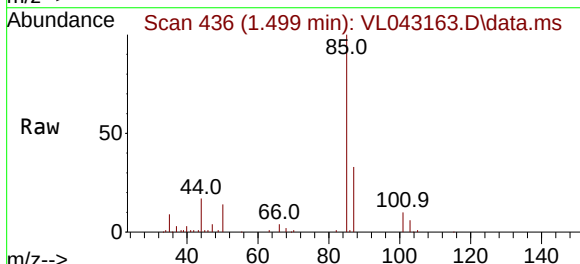
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

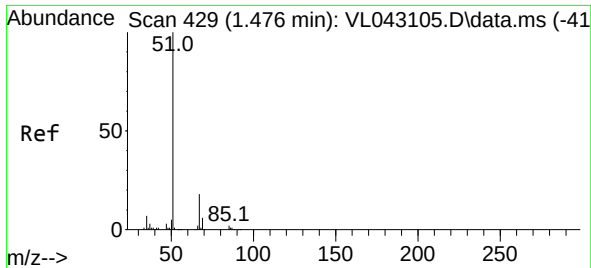
Tgt Ion: 49 Resp: 114655
Ion Ratio Lower Upper
49 100
128 49.6 24.4 73.4
130 64.9 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 85 Resp: 8126
Ion Ratio Lower Upper
85 100
87 32.7 25.3 37.9





#3

Chlorodifluoromethane

Concen: 0.457 ppbv

RT: 1.476 min Scan# 429

Delta R.T. -0.000 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_1

ClientSampleId :

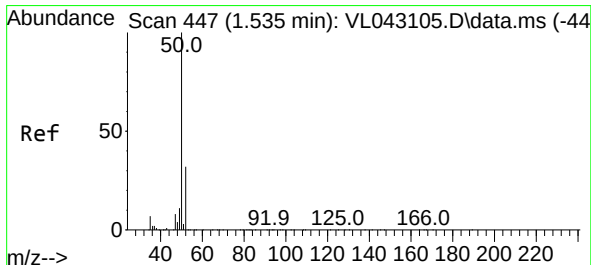
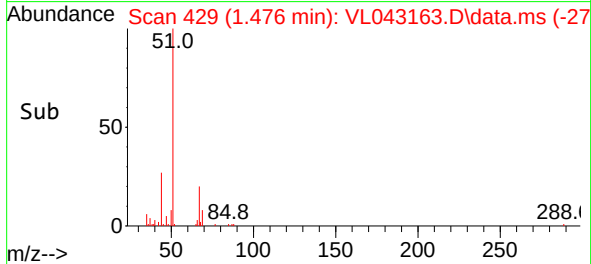
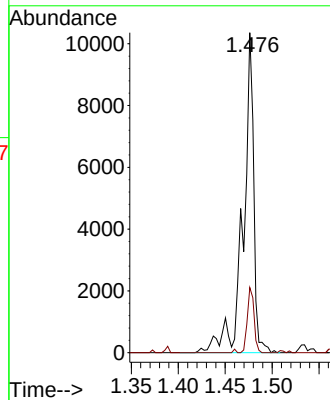
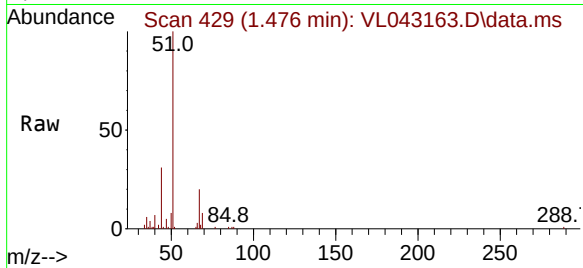
141-AA-1

Tgt Ion: 51 Resp: 8052

Ion Ratio Lower Upper

51 100

67 13.2 15.1 22.7#



#4

Chloromethane

Concen: 0.472 ppbv

RT: 1.534 min Scan# 447

Delta R.T. -0.000 min

Lab File: VL043163.D

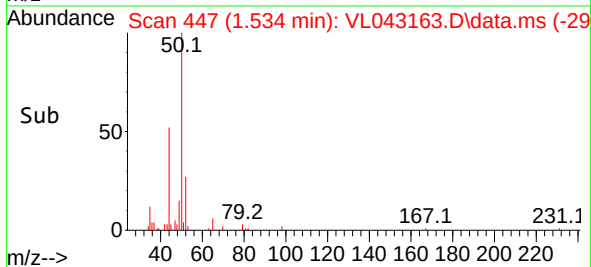
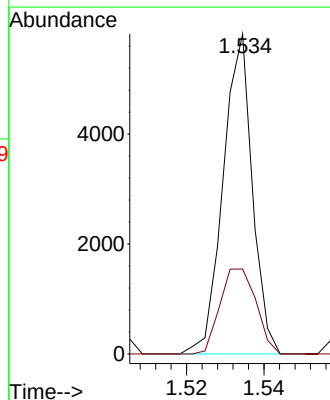
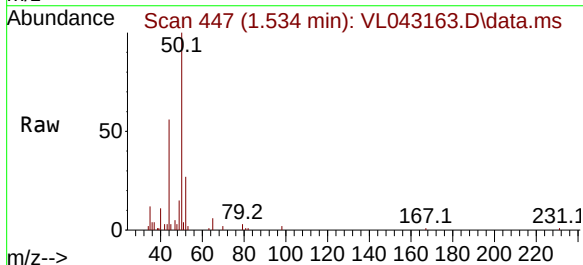
Acq: 06 Nov 2025 12:44

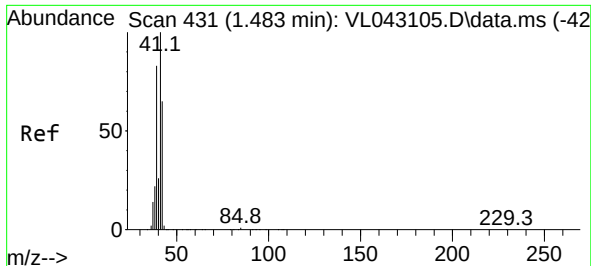
Tgt Ion: 50 Resp: 3050

Ion Ratio Lower Upper

50 100

52 26.5 25.2 37.8





#9

Propene

Concen: 0.339 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

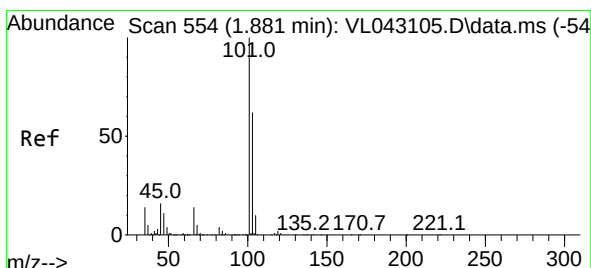
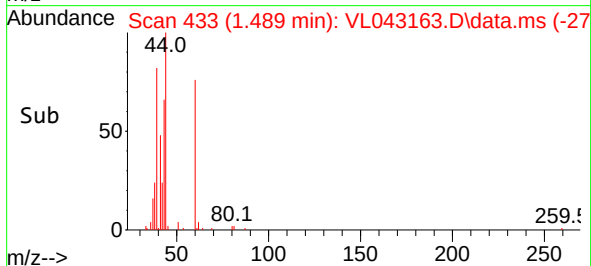
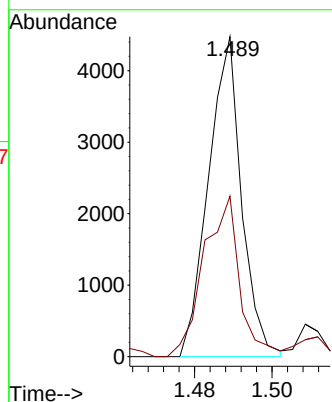
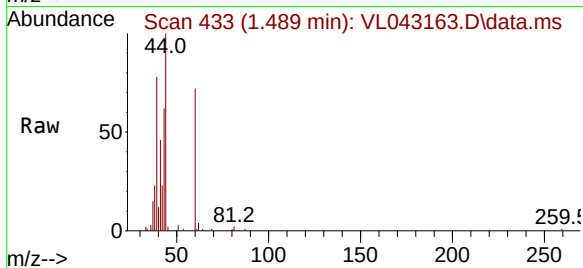
141-AA-1

Tgt Ion: 41 Resp: 2649

Ion Ratio Lower Upper

41 100

42 62.0 55.1 82.7



#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043163.D

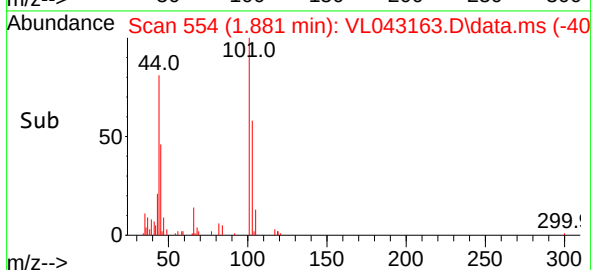
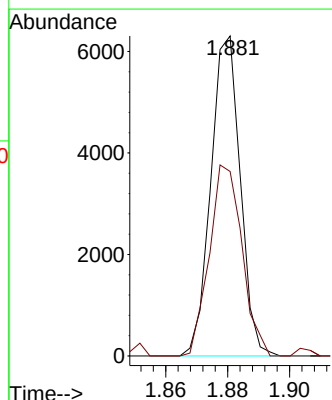
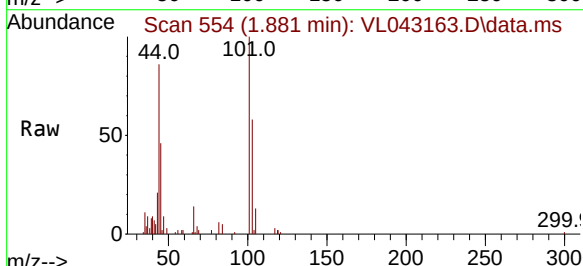
Acq: 06 Nov 2025 12:44

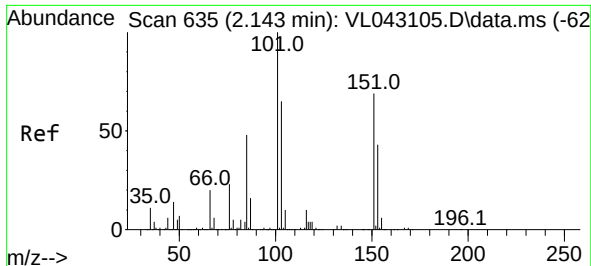
Tgt Ion: 101 Resp: 4157

Ion Ratio Lower Upper

101 100

103 57.6 49.3 73.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.079 ppbv

RT: 2.140 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

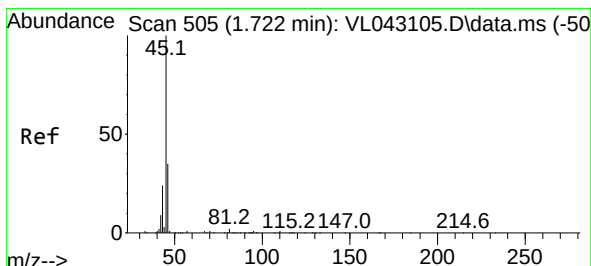
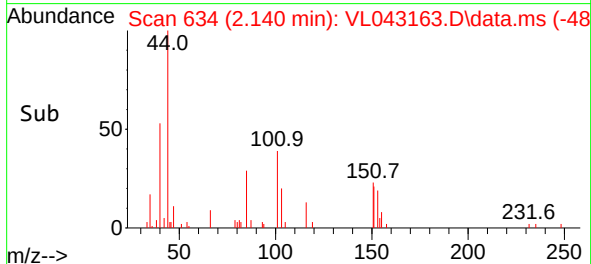
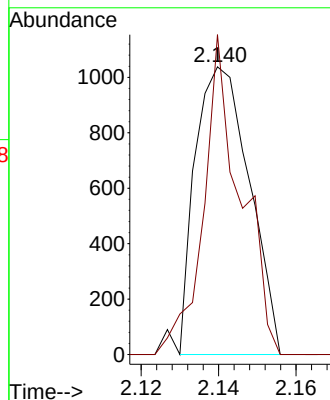
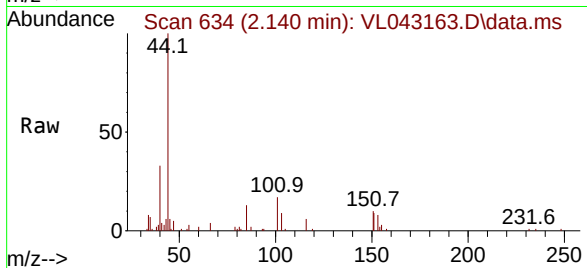
141-AA-1

Tgt Ion:101 Resp: 1008

Ion Ratio Lower Upper

101 100

151 76.4 54.7 82.1



#13

Ethanol

Concen: 2.483 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.000 min

Lab File: VL043163.D

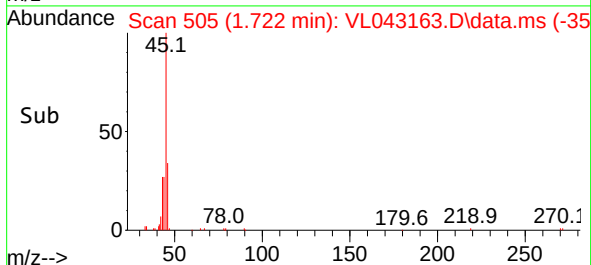
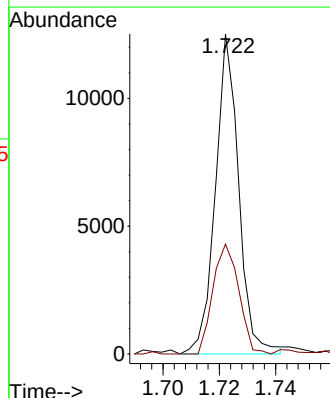
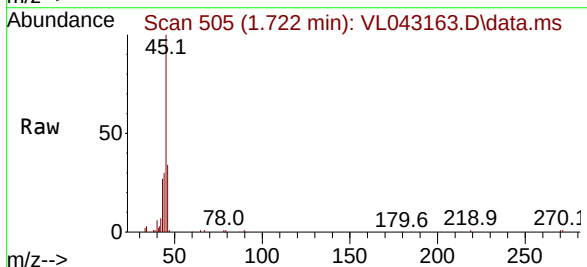
Acq: 06 Nov 2025 12:44

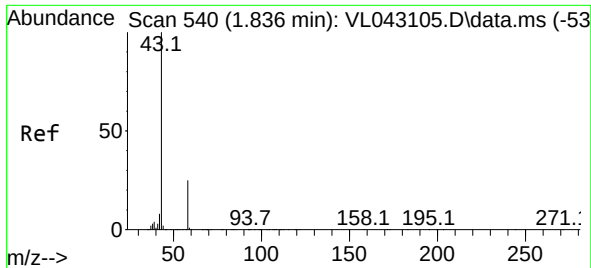
Tgt Ion: 45 Resp: 7183

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.9#

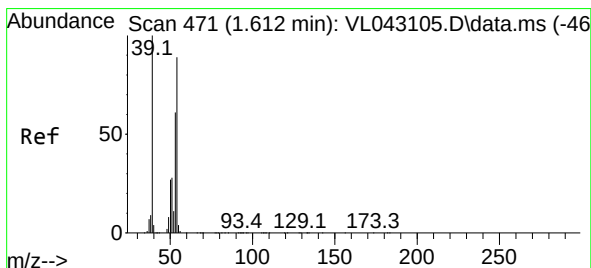
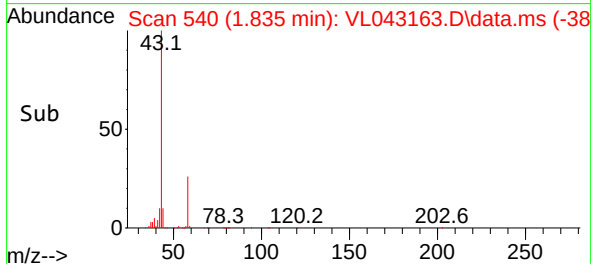
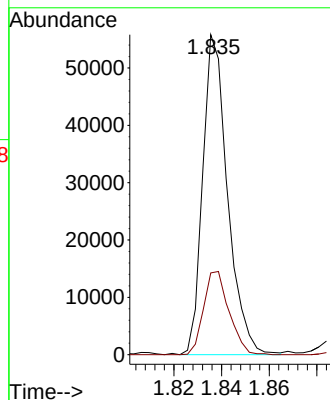
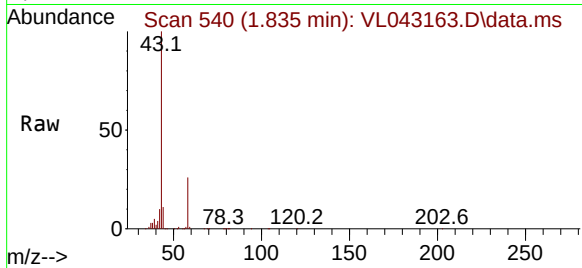




#15
Acetone
Concen: 2.625 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

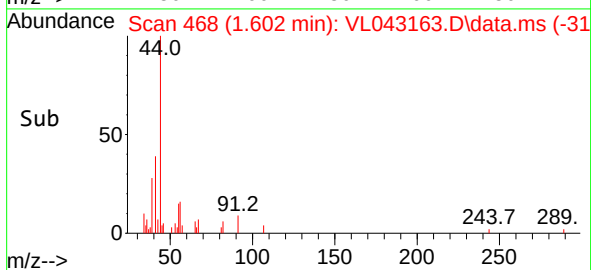
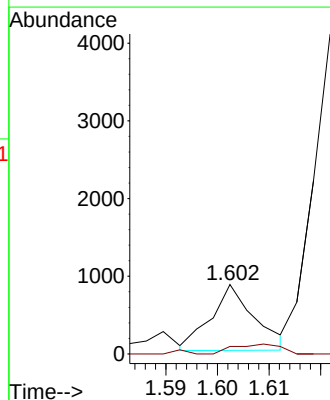
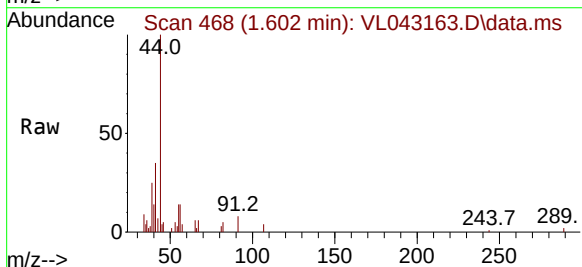
Instrument : MSVOA_L
ClientSampleId : 141-AA-1

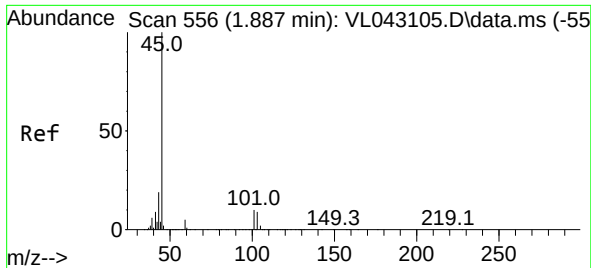
Tgt Ion: 43 Resp: 40561
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2



#16
1,3-Butadiene
Concen: 0.067 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 39 Resp: 497
Ion Ratio Lower Upper
39 100
54 18.5 59.0 88.4#

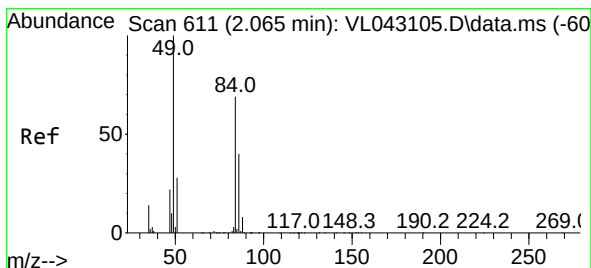
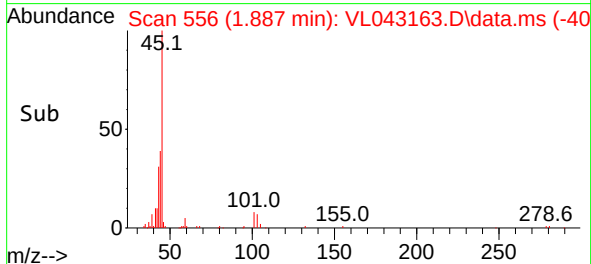
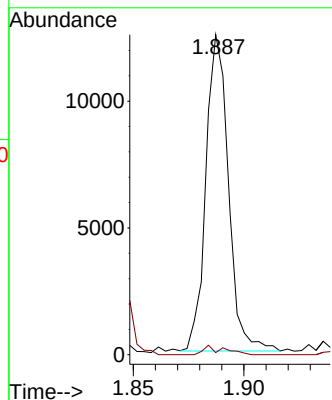
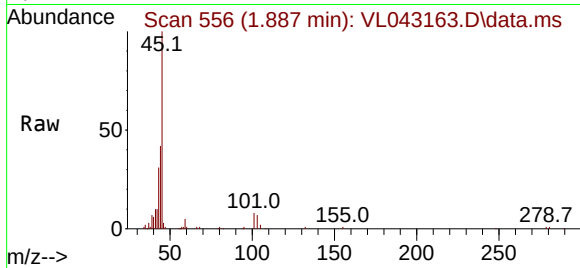




#19
Isopropyl Alcohol
Concen: 0.920 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

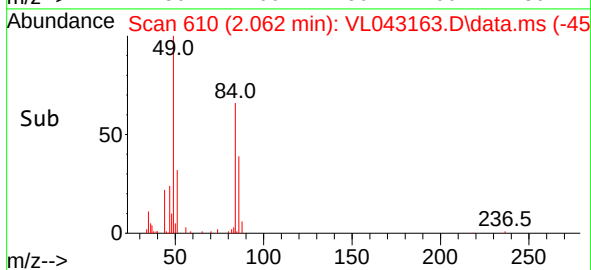
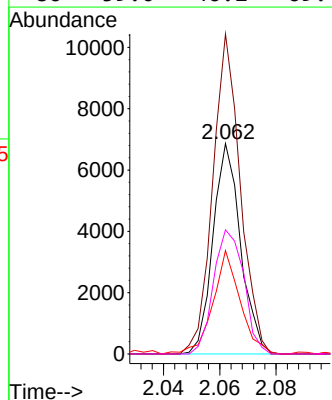
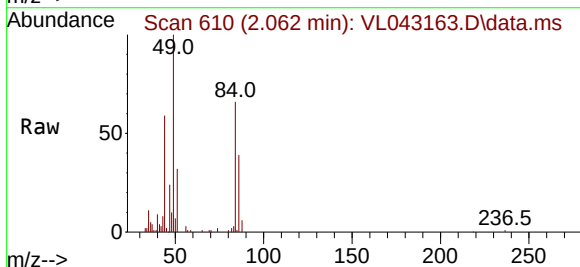
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

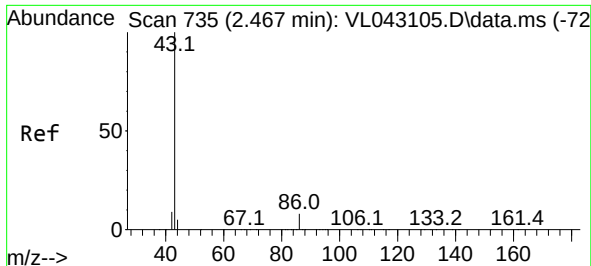
Tgt Ion: 45 Resp: 8851
Ion Ratio Lower Upper
45 100
58 121.8 31.3 46.9#



#20
Methylene Chloride
Concen: 0.765 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 84 Resp: 4671
Ion Ratio Lower Upper
84 100
49 152.1 116.6 175.0
51 49.1 34.8 52.2
86 59.0 46.2 69.4

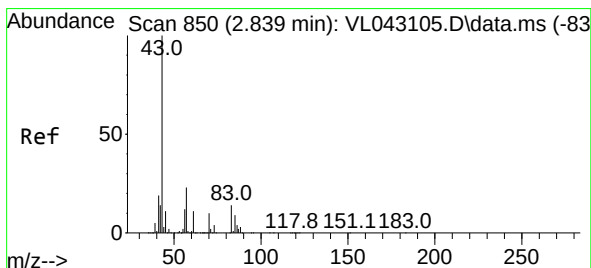
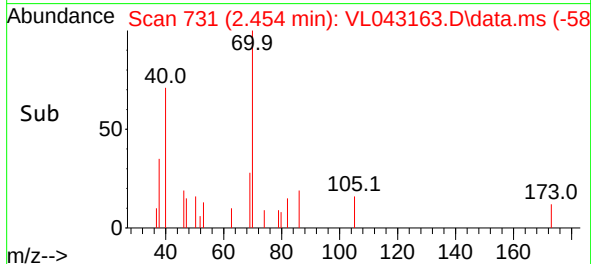
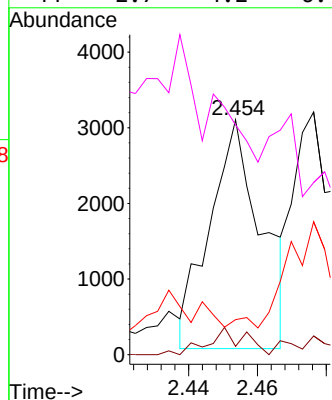
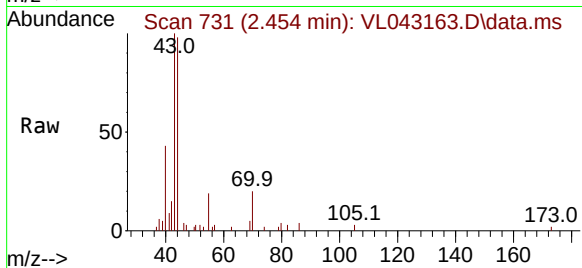




#23
 Vinyl Acetate
 Concen: 0.139 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.013 min
 Lab File: VL043163.D
 Acq: 06 Nov 2025 12:44

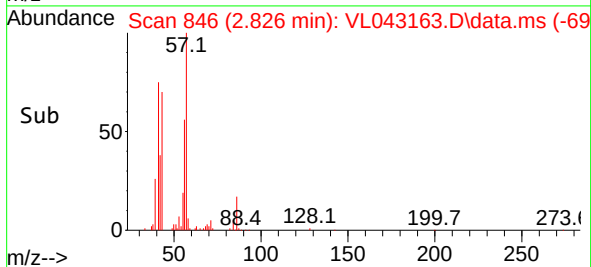
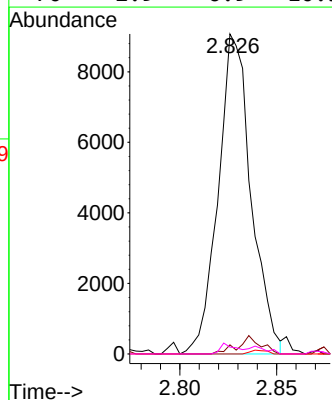
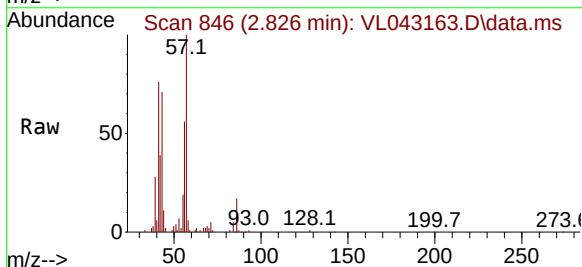
Instrument :
 MSVOA_1
 ClientSampleId :
 141-AA-1

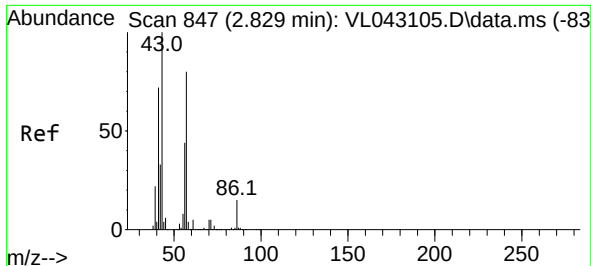
Tgt Ion: 43	Resp: 3139
Ion Ratio	Lower Upper
43 100	
86 4.2	6.2 9.2#
42 0.0	7.6 11.4#
44 2.7	4.2 6.4#



#25
 Ethyl Acetate
 Concen: 0.279 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.013 min
 Lab File: VL043163.D
 Acq: 06 Nov 2025 12:44

Tgt Ion: 43	Resp: 10701
Ion Ratio	Lower Upper
43 100	
45 3.9	7.8 11.8#
61 0.6	7.0 10.6#
70 2.9	6.9 10.3#

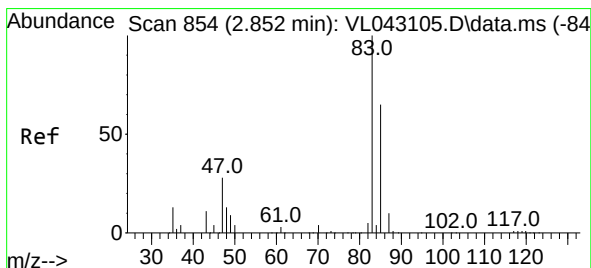
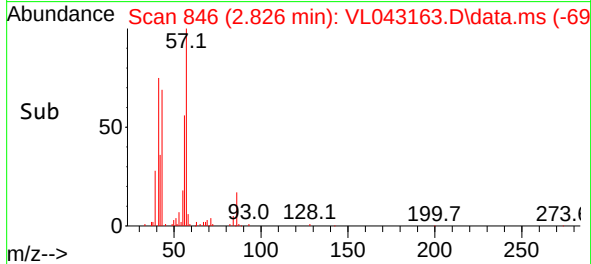
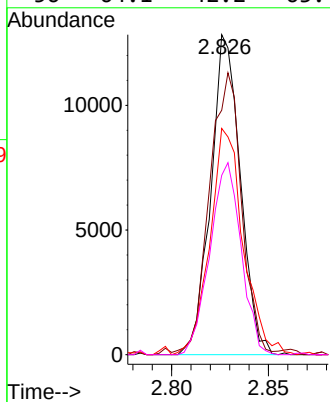
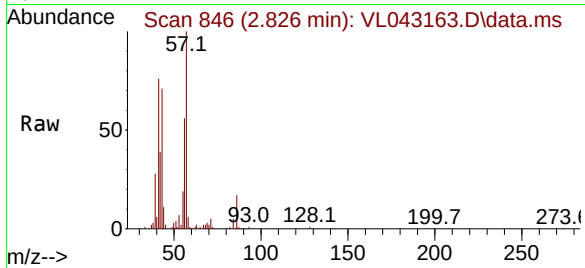




#26
Hexane
Concen: 0.772 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

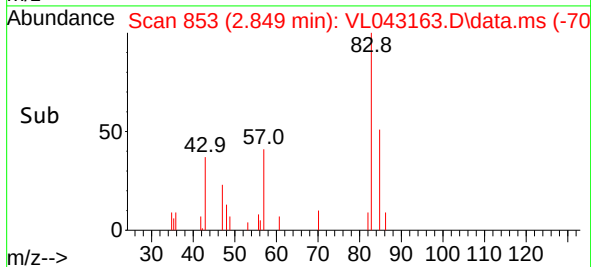
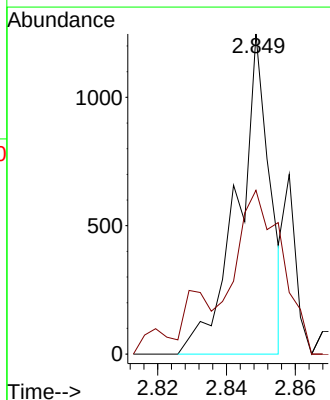
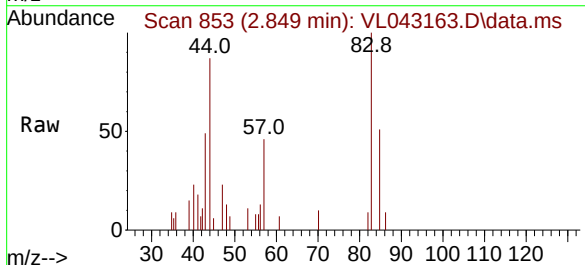
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

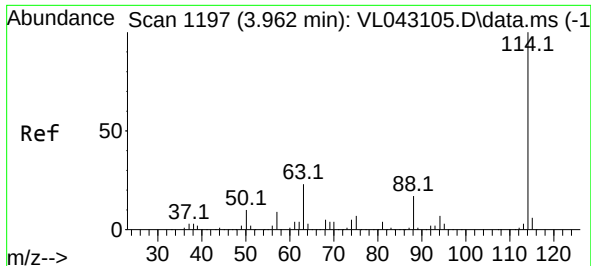
Tgt Ion: 57 Resp: 13632
Ion Ratio Lower Upper
57 100
41 98.1 71.4 107.0
43 80.4 178.5 267.7#
56 64.1 42.2 63.4#



#29
Chloroform
Concen: 0.032 ppbv
RT: 2.849 min Scan# 853
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 83 Resp: 815
Ion Ratio Lower Upper
83 100
85 46.8 51.8 77.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_1

ClientSampleId :

141-AA-1

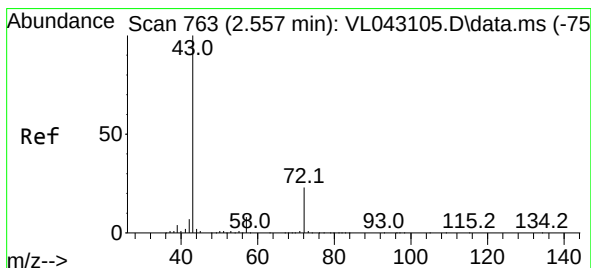
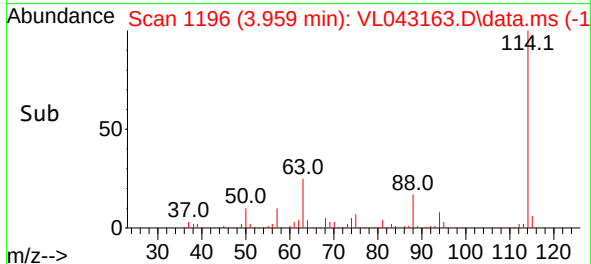
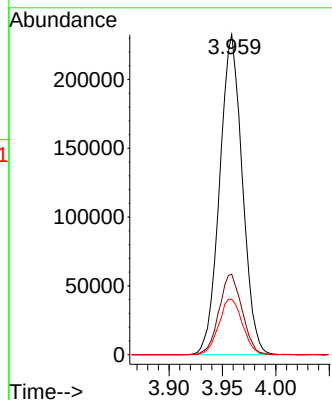
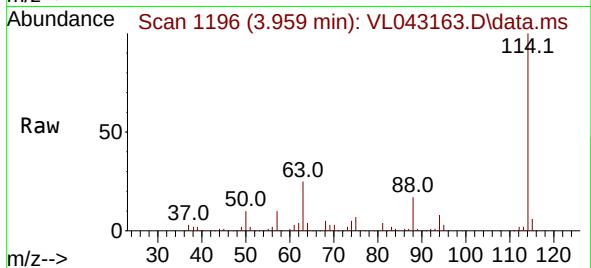
Tgt Ion:114 Resp: 343053

Ion Ratio Lower Upper

114 100

63 25.6 19.3 28.9

88 18.1 13.9 20.9



#34

2-Butanone

Concen: 0.219 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043163.D

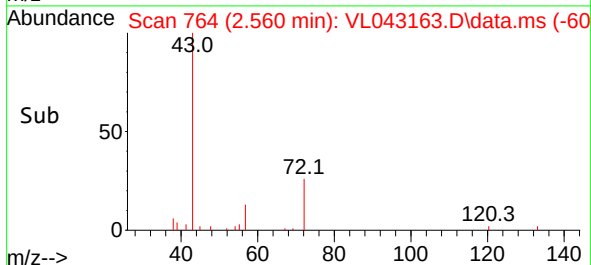
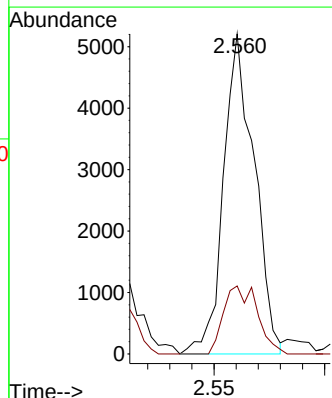
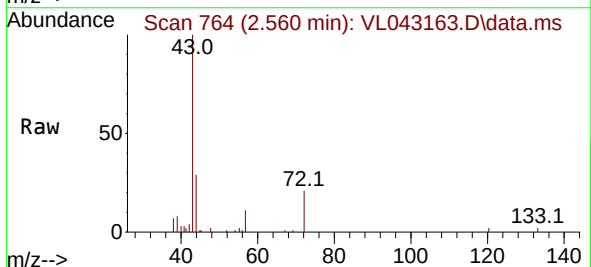
Acq: 06 Nov 2025 12:44

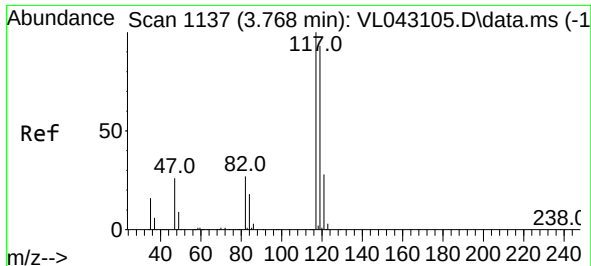
Tgt Ion: 43 Resp: 5042

Ion Ratio Lower Upper

43 100

72 23.3 18.4 27.6

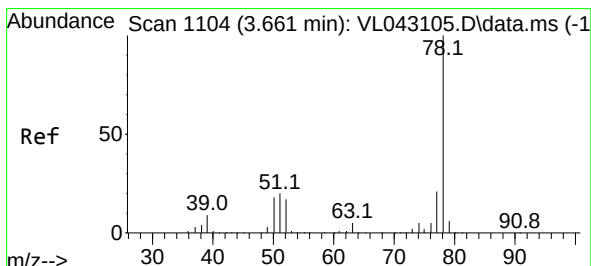
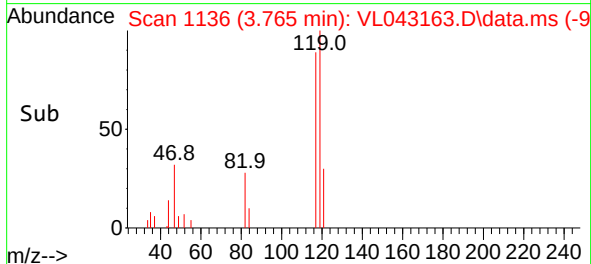
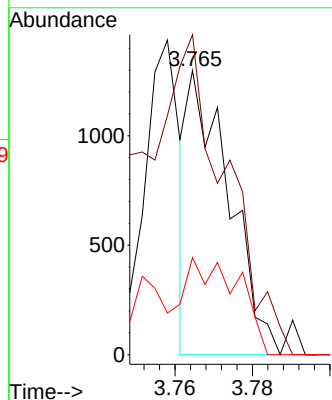
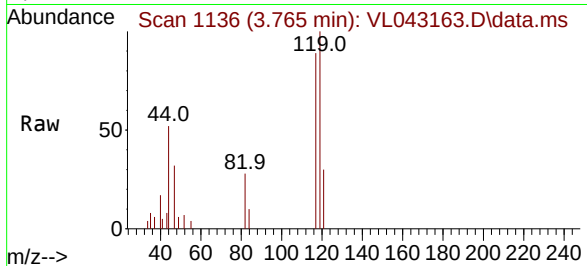




#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

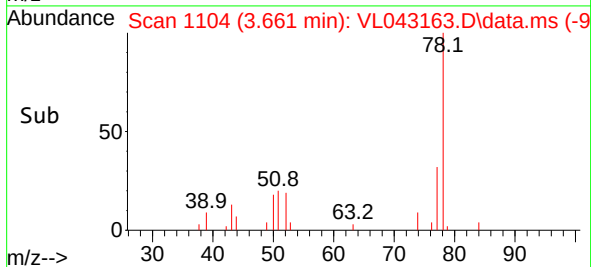
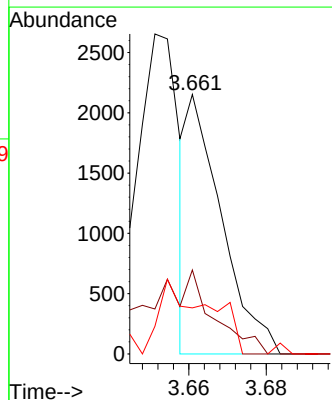
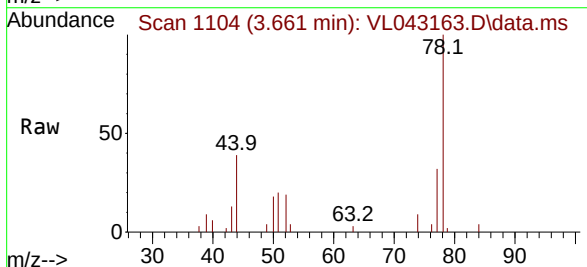
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

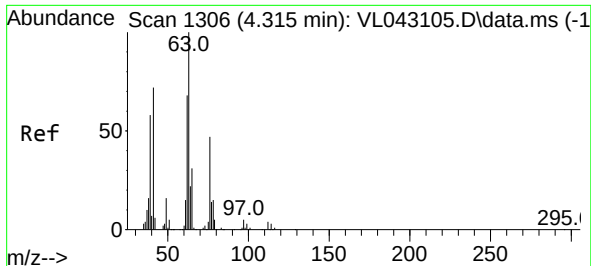
Tgt Ion:117 Resp: 964
Ion Ratio Lower Upper
117 100
119 102.9 74.1 111.1
121 34.1 22.2 33.2#



#36
Benzene
Concen: 0.041 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 78 Resp: 1338
Ion Ratio Lower Upper
78 100
77 31.6 17.0 25.6#
50 32.9 14.6 22.0#





#39

1,2-Dichloropropane

Concen: 7.431 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.356 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

141-AA-1

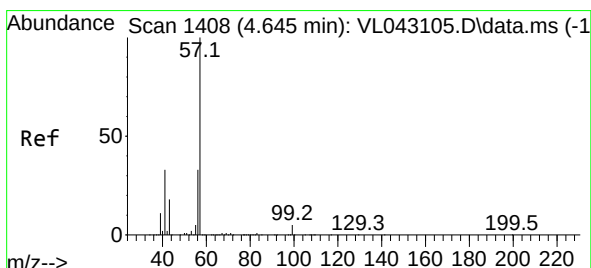
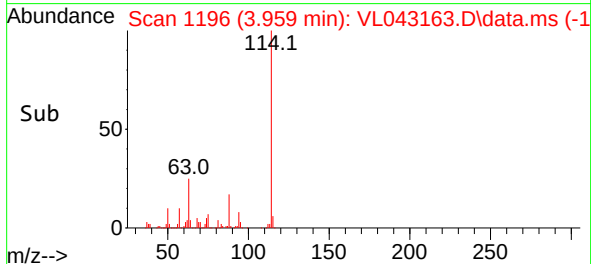
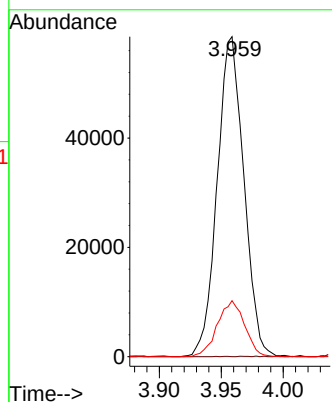
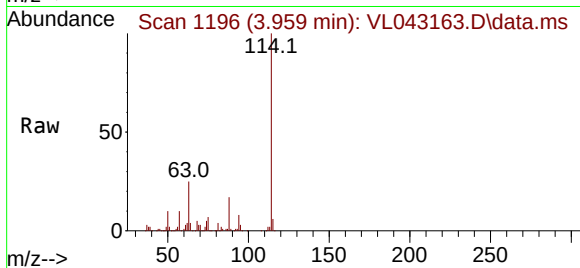
Tgt Ion: 63 Resp: 87782

Ion Ratio Lower Upper

63 100

41 0.0 58.0 87.0#

62 17.5 54.7 82.1#



#44

2,2,4-Trimethylpentane

Concen: 0.033 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.007 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

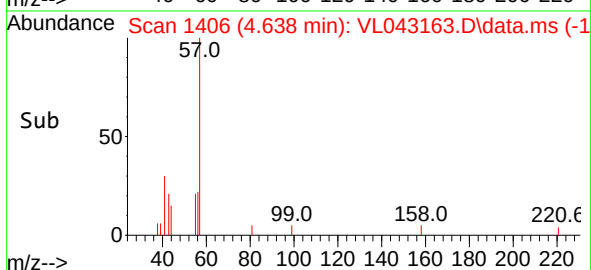
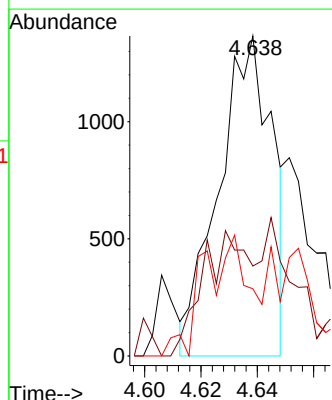
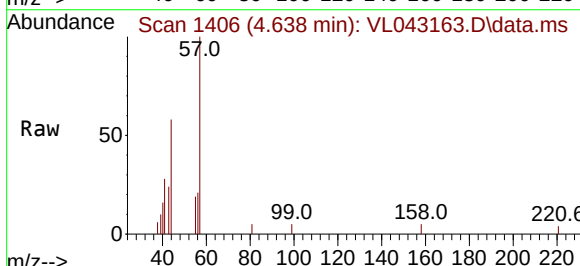
Tgt Ion: 57 Resp: 1800

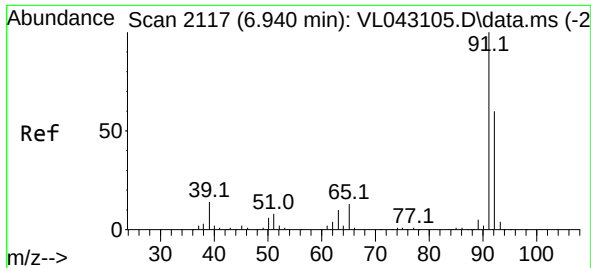
Ion Ratio Lower Upper

57 100

41 0.0 26.3 39.5#

56 55.5 25.9 38.9#

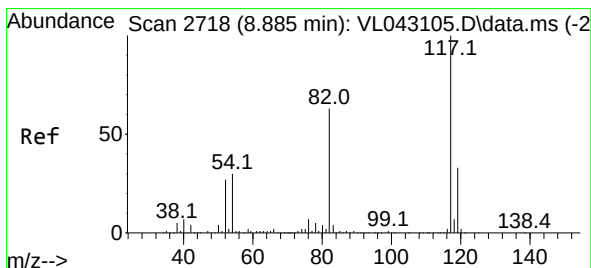
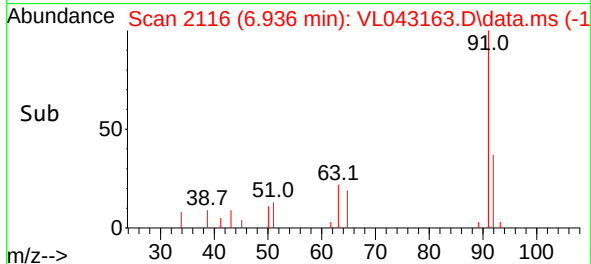
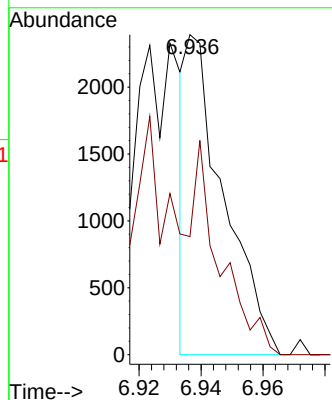
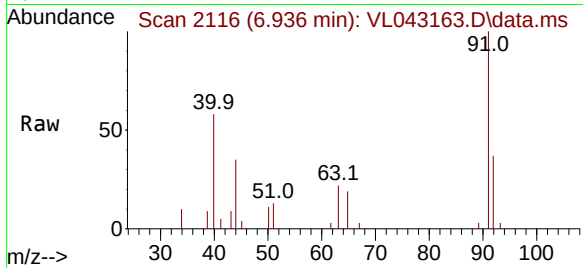




#53
Toluene
Concen: 0.053 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

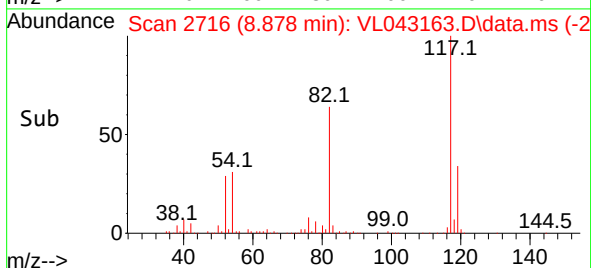
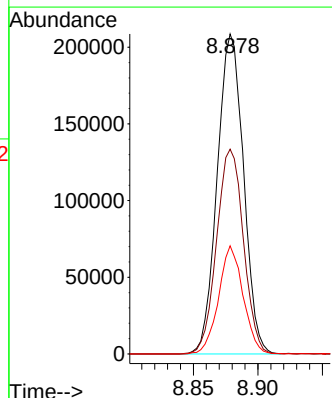
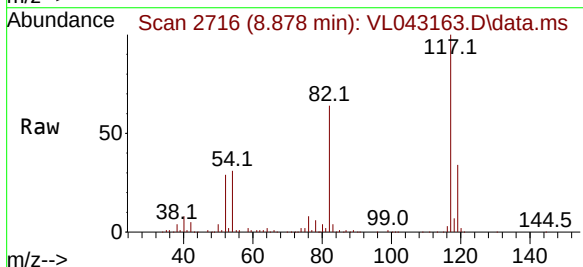
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

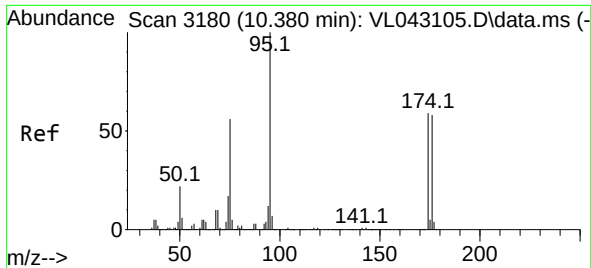
Tgt Ion: 91 Resp: 2020
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.007 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 117 Resp: 295343
Ion Ratio Lower Upper
117 100
82 65.3 53.8 80.8
119 31.7 25.4 38.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.193 ppbv

RT: 10.374 min Scan# 31

Delta R.T. -0.007 min

Lab File: VL043163.D

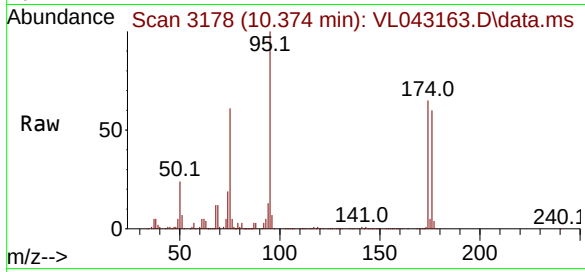
Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

141-AA-1



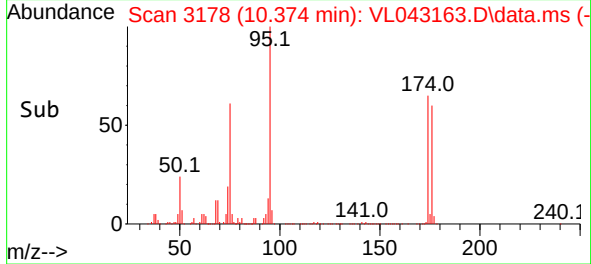
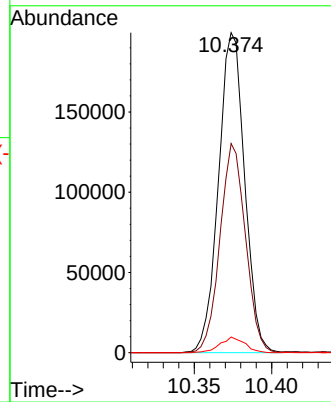
Tgt Ion: 95 Resp: 233984

Ion Ratio Lower Upper

95 100

174 64.1 48.3 72.5

175 4.6 3.8 5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043164.D
 Acq On : 06 Nov 2025 13:17
 Operator : SY/MD
 Sample : Q3557-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1

Quant Time: Nov 07 00:21:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

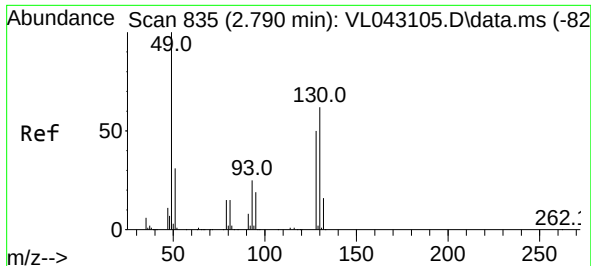
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	115366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	342427	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	290452	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	237353	10.513	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	24649	1.503	ppbv	96
3) Chlorodifluoromethane	1.476	51	11497	0.648	ppbv #	79
4) Chloromethane	1.534	50	2908	0.448	ppbv	96
8) Dichlorotetrafluoroethane	1.499	85	24649	1.859	ppbv #	21
9) Propene	1.560	41	45237	5.748	ppbv	98
10) Heptane	4.985	43	1712	0.076	ppbv #	27
11) Trichlorofluoromethane	1.884	101	5366	0.334	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	1035	0.080	ppbv	91
13) Ethanol	1.722	45	76195	26.173	ppbv	100
15) Acetone	1.839	43	138148	8.884	ppbv	92
16) 1,3-Butadiene	1.602	39	1714	0.231	ppbv #	13
17) tert-Butyl alcohol	2.046	59	1651	0.077	ppbv #	72
19) Isopropyl Alcohol	1.887	45	9578	0.989	ppbv #	1
20) Methylene Chloride	2.065	84	97396	15.846	ppbv	93
21) Allyl Chloride	2.081	41	3894	0.340	ppbv #	1
23) Vinyl Acetate	2.479	43	43597	1.914	ppbv #	50
25) Ethyl Acetate	2.829	43	86024	2.231	ppbv #	80
26) Hexane	2.832	57	122149	6.875	ppbv #	42
27) Carbon Disulfide	2.156	76	508	0.031	ppbv #	1
29) Chloroform	2.852	83	1705	0.066	ppbv #	75
30) Cyclohexane	3.865	84	3316	0.214	ppbv #	79
34) 2-Butanone	2.560	43	34716	1.508	ppbv	99
36) Benzene	3.661	78	12305	0.382	ppbv	98
37) 1,2-Dichloroethane	3.224	62	1623	0.087	ppbv #	94
39) 1,2-Dichloropropane	3.962	63	85408	7.244	ppbv #	24
41) Tetrahydrofuran	3.237	42	2049	0.159	ppbv #	63
44) 2,2,4-Trimethylpentane	4.641	57	17870	0.328	ppbv #	78
51) 2-Hexanone	7.441	43	5610	0.235	ppbv #	53
53) Toluene	6.936	91	22705	0.593	ppbv	97
58) Ethyl Benzene	9.360	91	2883	0.058	ppbv	94
59) m/p-Xylene	9.535	91	15295	0.385	ppbv	99
60) o-Xylene	9.969	91	5758	0.147	ppbv	94
73) 1,3,5-Trimethylbenzene	11.209	105	1713	0.043	ppbv #	81
74) 1,2,4-Trimethylbenzene	11.539	105	5751	0.129	ppbv #	55
79) Naphthalene	13.516	128	6044	0.130	ppbv	99

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

Quant Time: Nov 07 00:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

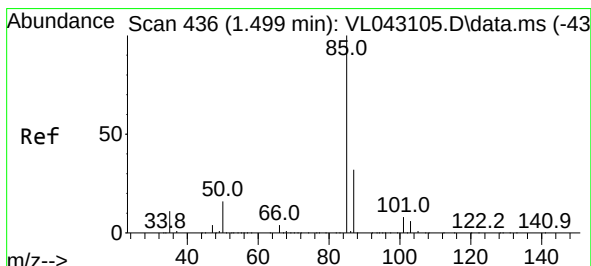
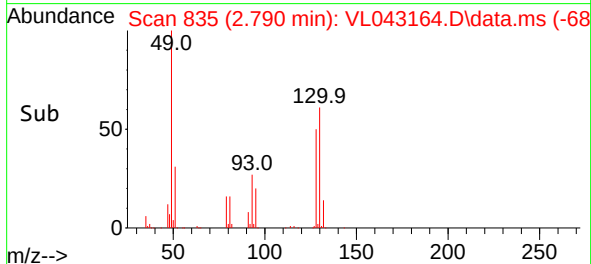
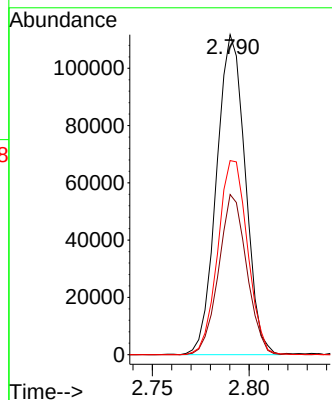
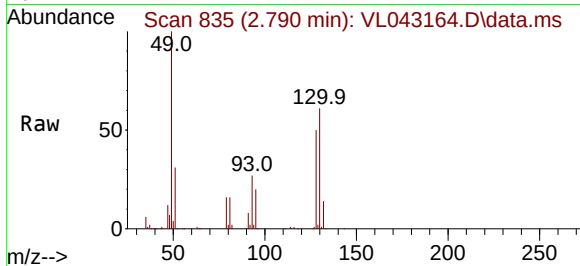




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

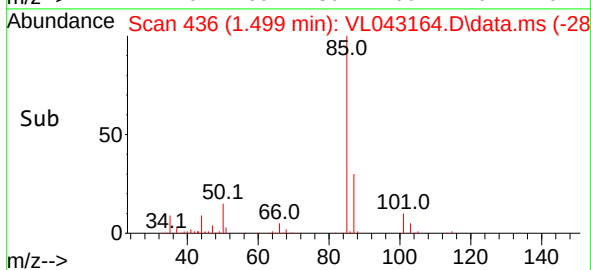
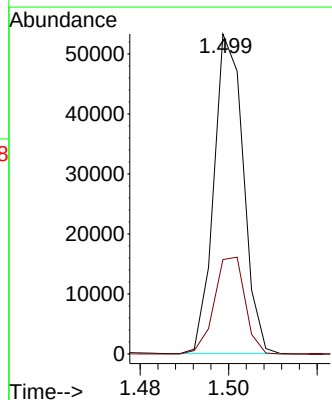
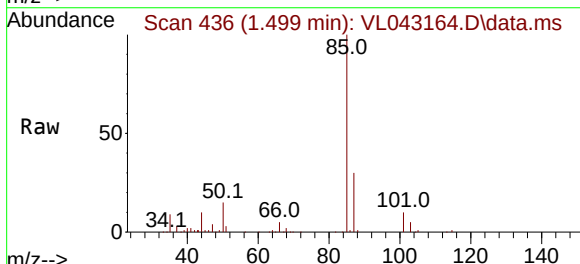
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

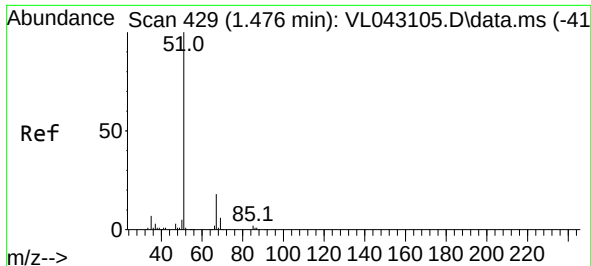
Tgt Ion: 49 Resp: 115366
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 62.7 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 1.503 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 85 Resp: 24649
Ion Ratio Lower Upper
85 100
87 29.5 25.3 37.9

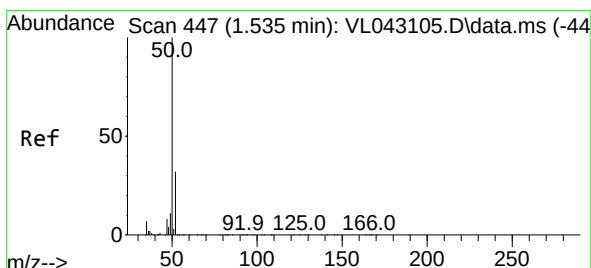
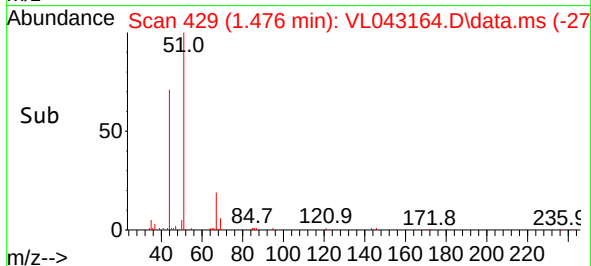
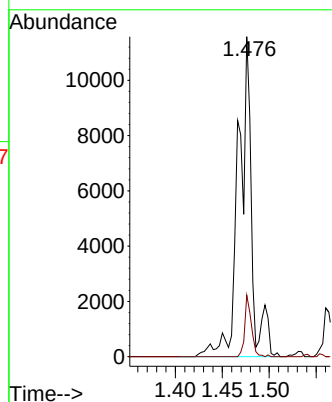
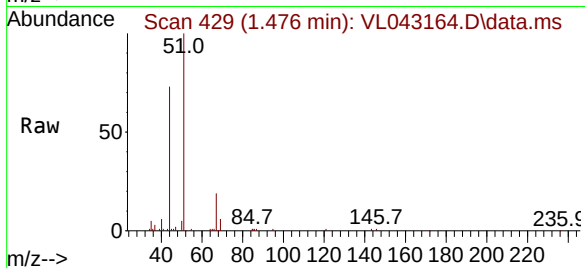




#3
Chlorodifluoromethane
Concen: 0.648 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

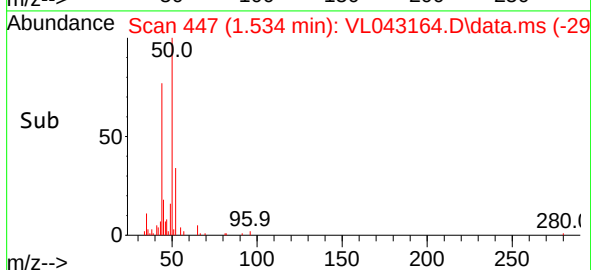
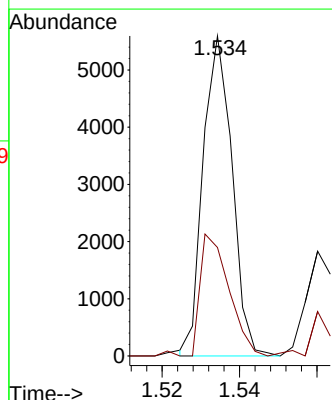
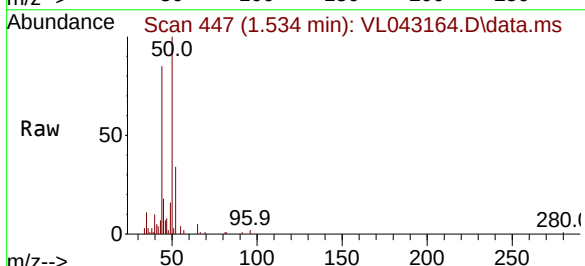
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

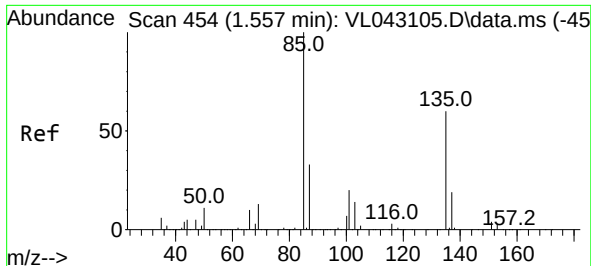
Tgt Ion: 51 Resp: 11497
Ion Ratio Lower Upper
51 100
67 9.5 15.1 22.7#



#4
Chloromethane
Concen: 0.448 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 50 Resp: 2908
Ion Ratio Lower Upper
50 100
52 33.9 25.2 37.8

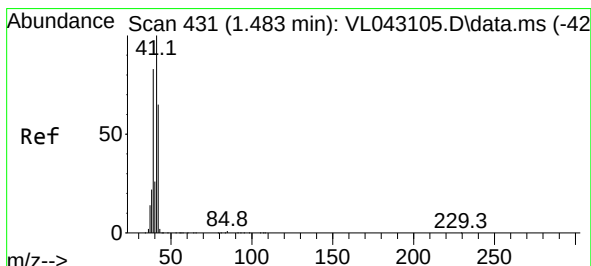
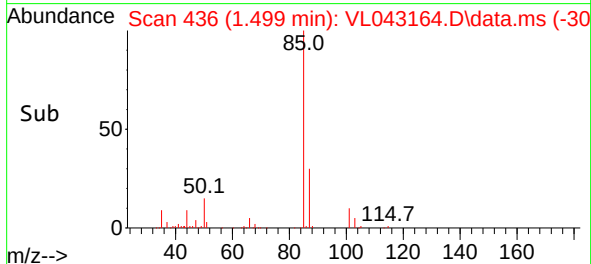
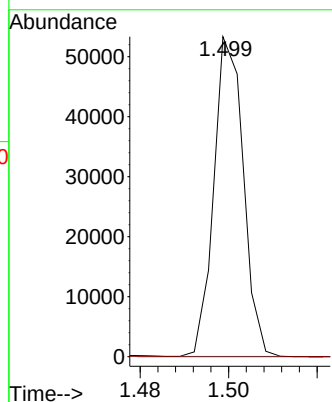
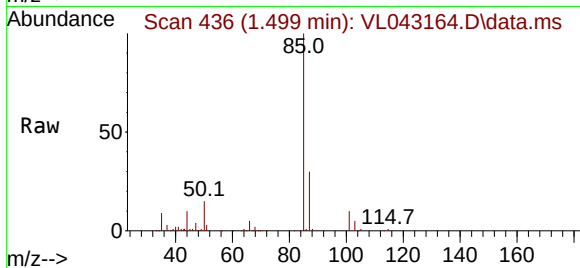




#8
 Dichlorotetrafluoroethane
 Concen: 1.859 ppbv
 RT: 1.499 min Scan# 411
 Delta R.T. -0.059 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

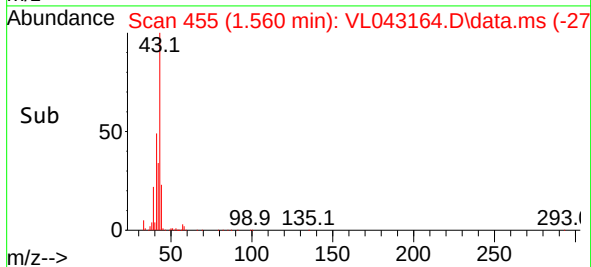
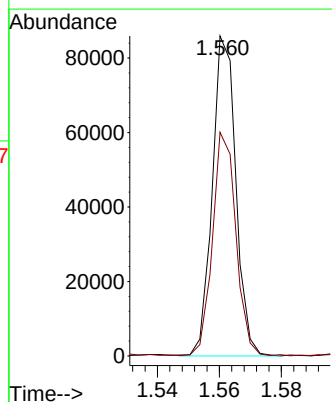
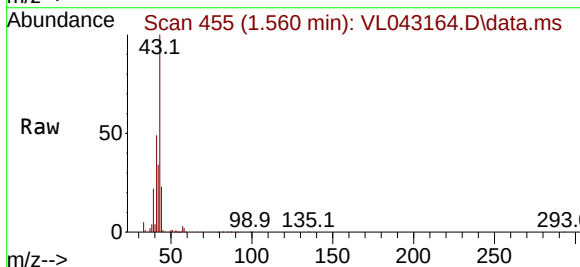
Instrument :
 MSVOA_1
 ClientSampleId :
 141-IA-1

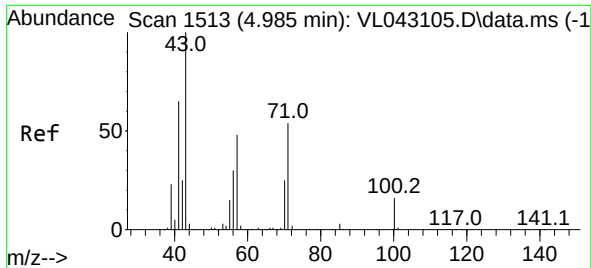
Tgt Ion: 85 Resp: 24649
 Ion Ratio Lower Upper
 85 100
 135 0.6 48.2 72.4#



#9
 Propene
 Concen: 5.748 ppbv
 RT: 1.560 min Scan# 455
 Delta R.T. 0.077 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

Tgt Ion: 41 Resp: 45237
 Ion Ratio Lower Upper
 41 100
 42 70.2 55.1 82.7

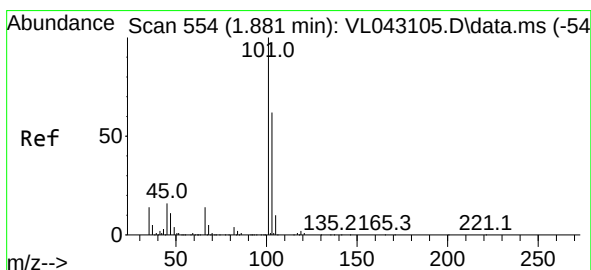
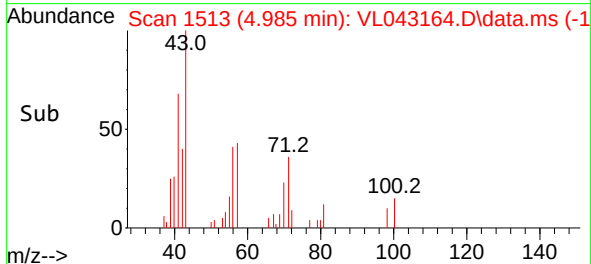
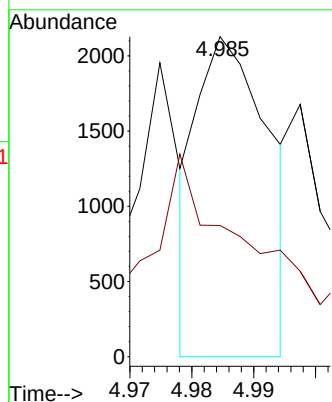
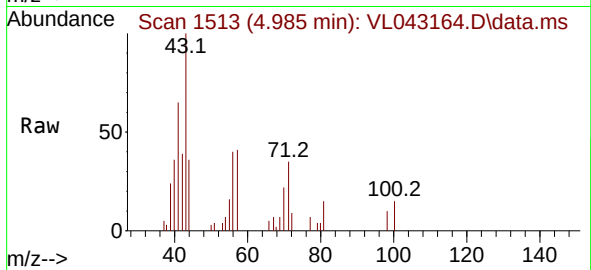




#10
Heptane
Concen: 0.076 ppbv
RT: 4.985 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

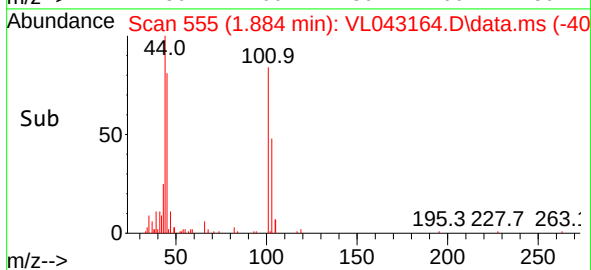
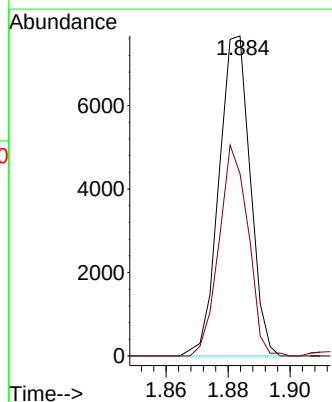
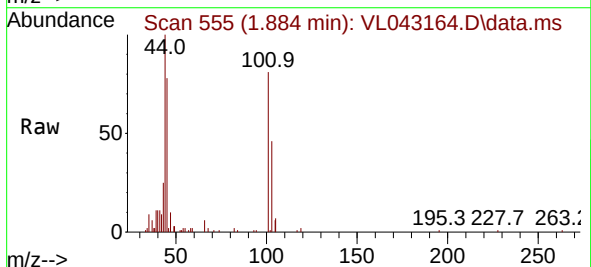
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

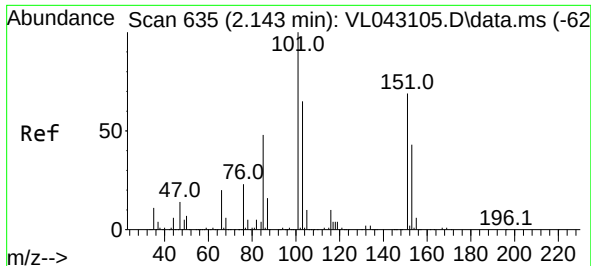
Tgt Ion: 43 Resp: 1712
Ion Ratio Lower Upper
43 100
57 0.0 40.8 61.2#



#11
Trichlorofluoromethane
Concen: 0.334 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion:101 Resp: 5366
Ion Ratio Lower Upper
101 100
103 56.9 49.3 73.9

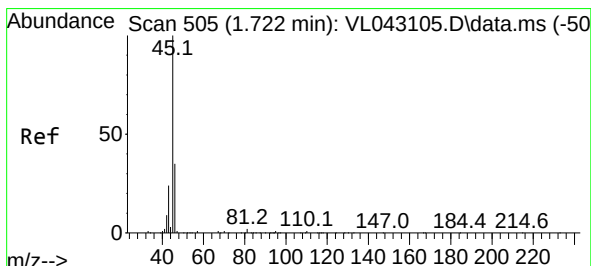
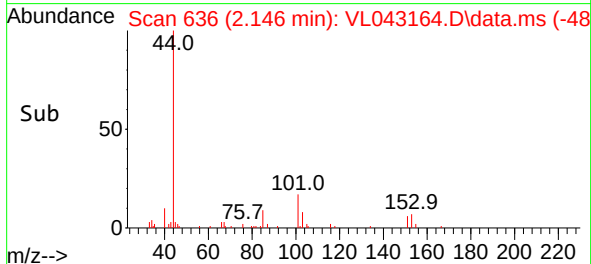
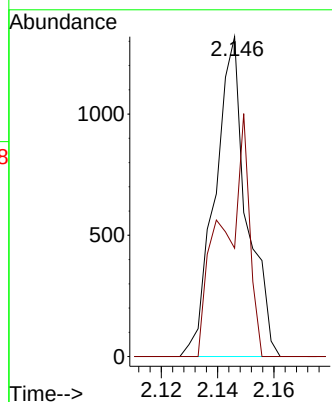
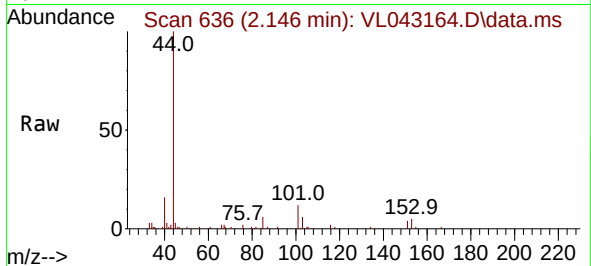




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.080 ppbv
 RT: 2.146 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

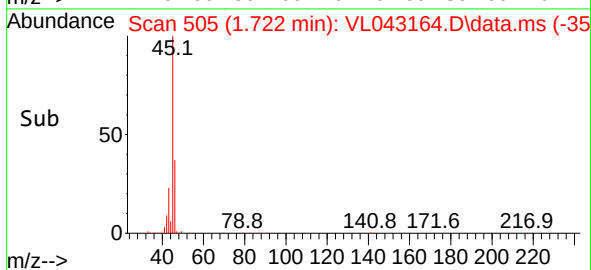
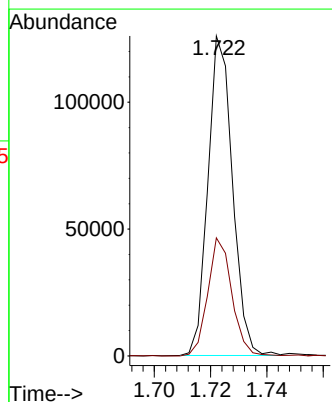
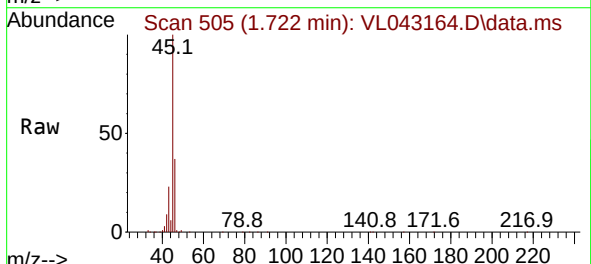
Instrument :
 MSVOA_1
 ClientSampleId :
 141-IA-1

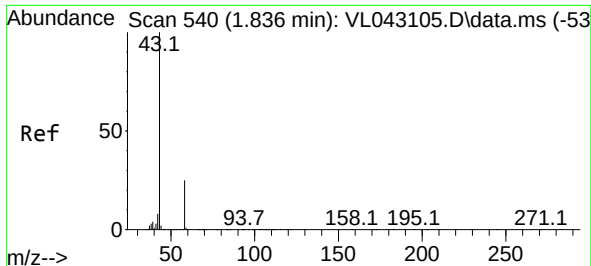
Tgt Ion:101 Resp: 1035
 Ion Ratio Lower Upper
 101 100
 151 61.2 54.7 82.1



#13
 Ethanol
 Concen: 26.173 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

Tgt Ion: 45 Resp: 76195
 Ion Ratio Lower Upper
 45 100
 46 36.8 14.7 58.9

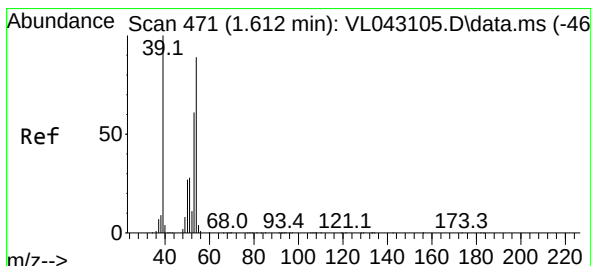
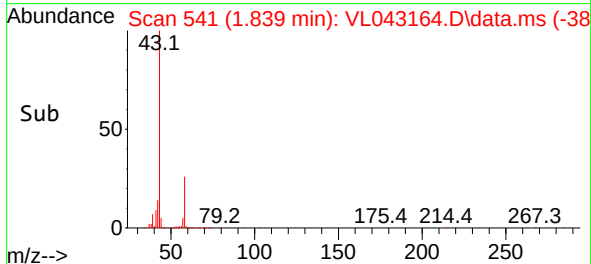
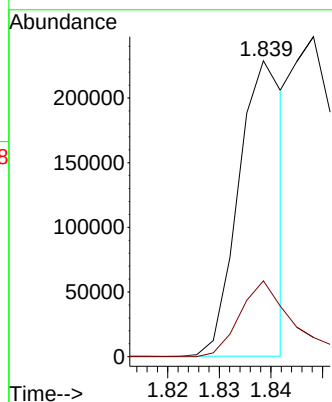
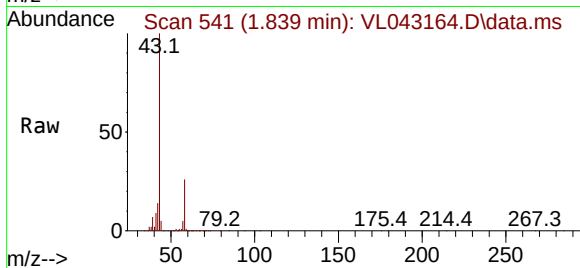




#15
Acetone
Concen: 8.884 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

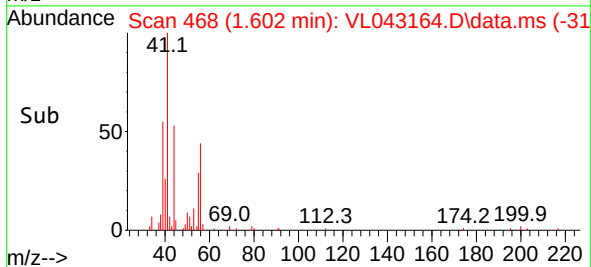
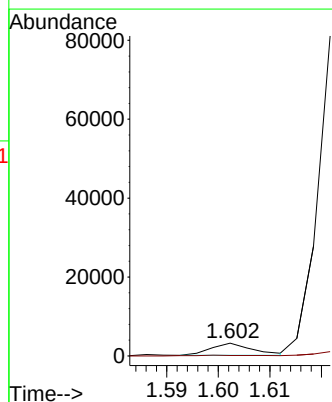
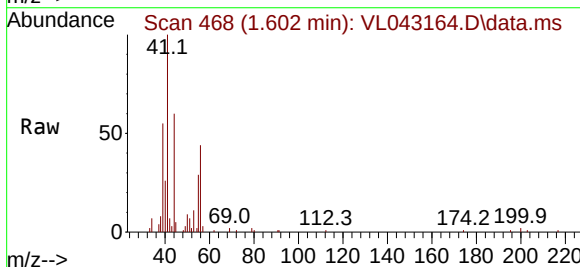
Instrument :
MSVOA_1
ClientSampleId :
141-IA-1

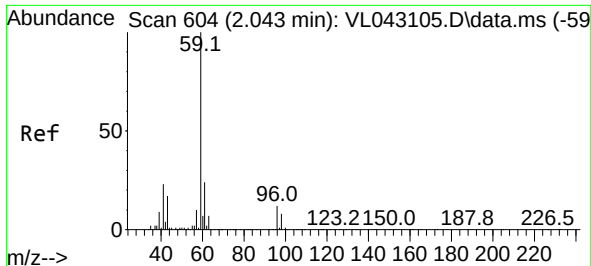
Tgt Ion: 43 Resp: 138148
Ion Ratio Lower Upper
43 100
58 30.2 20.8 31.2



#16
1,3-Butadiene
Concen: 0.231 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 39 Resp: 1714
Ion Ratio Lower Upper
39 100
54 0.0 59.0 88.4#





#17

tert-Butyl alcohol

Concen: 0.077 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_1

ClientSampleId :

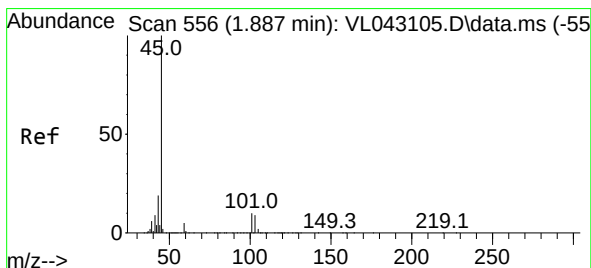
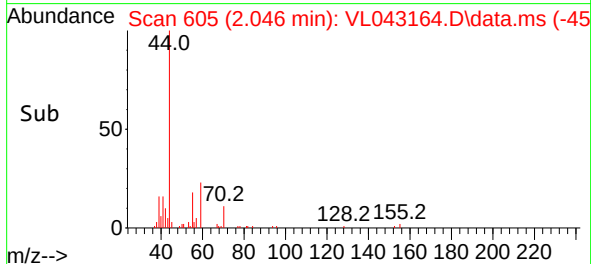
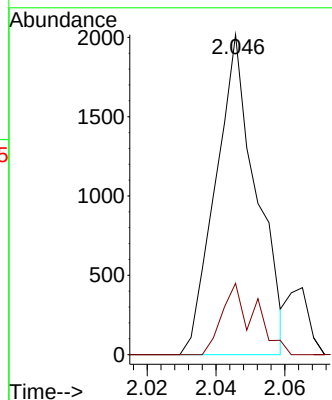
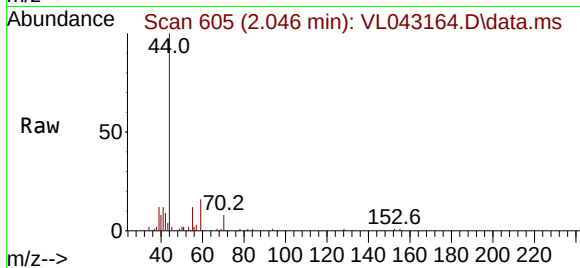
141-IA-1

Tgt Ion: 59 Resp: 1651

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#19

Isopropyl Alcohol

Concen: 0.989 ppbv

RT: 1.887 min Scan# 556

Delta R.T. -0.000 min

Lab File: VL043164.D

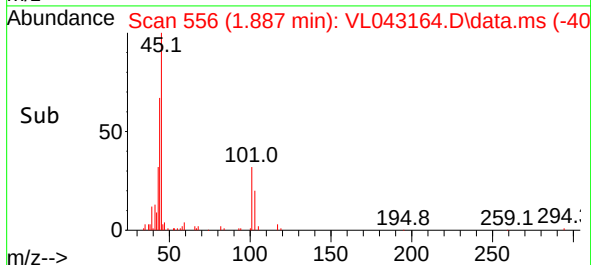
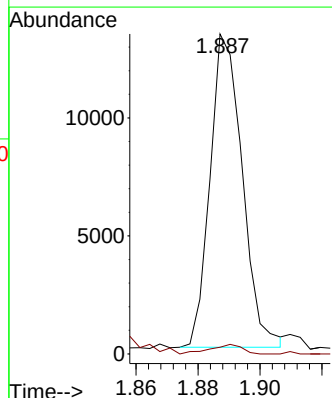
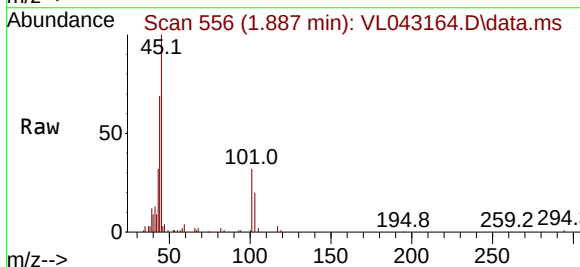
Acq: 06 Nov 2025 13:17

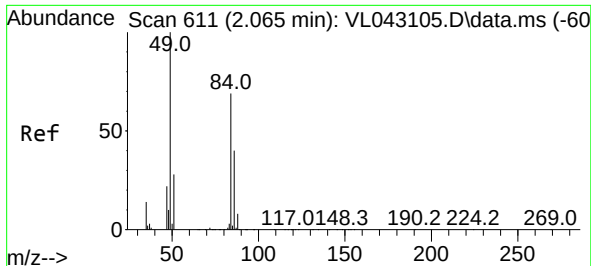
Tgt Ion: 45 Resp: 9578

Ion Ratio Lower Upper

45 100

58 434.7 31.3 46.9#





#20

Methylene Chloride

Concen: 15.846 ppbv

RT: 2.065 min Scan# 611

Delta R.T. -0.000 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

141-IA-1

Tgt Ion: 84 Resp: 97396

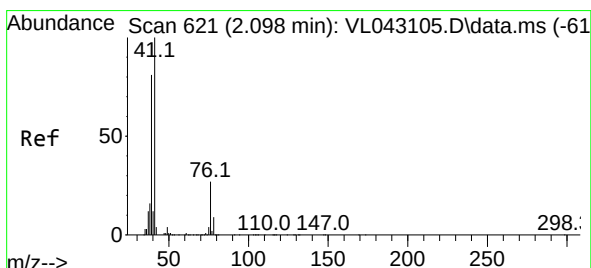
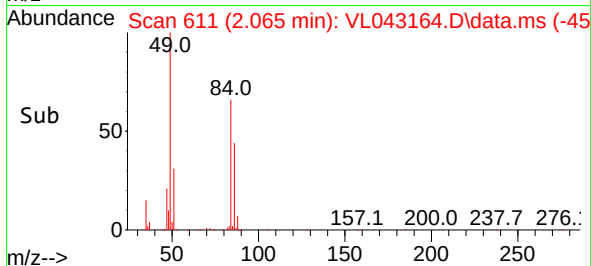
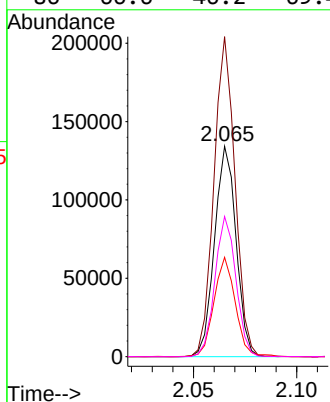
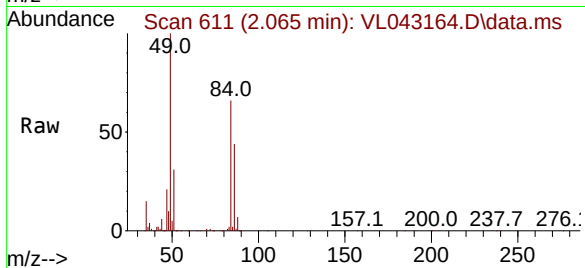
Ion Ratio Lower Upper

84 100

49 152.0 116.6 175.0

51 47.2 34.8 52.2

86 66.6 46.2 69.4



#21

Allyl Chloride

Concen: 0.340 ppbv

RT: 2.081 min Scan# 616

Delta R.T. -0.016 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

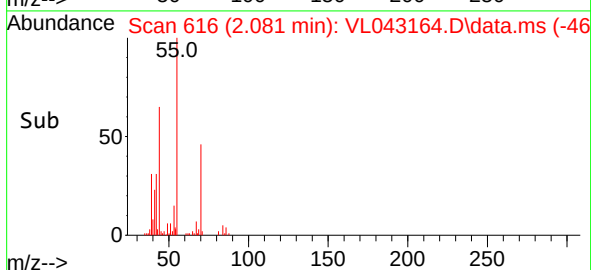
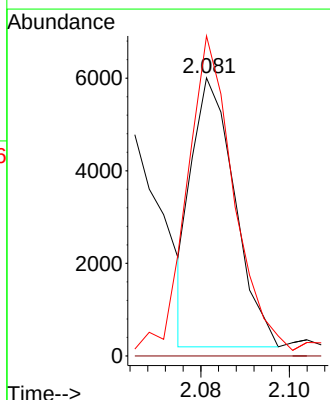
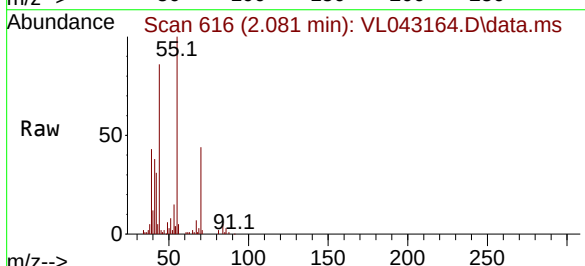
Tgt Ion: 41 Resp: 3894

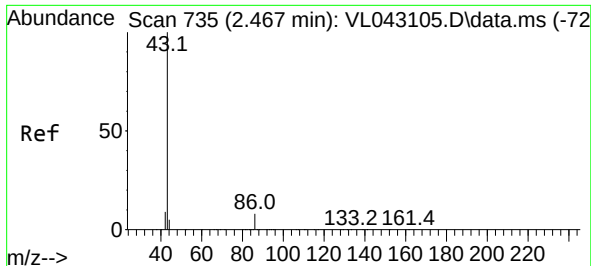
Ion Ratio Lower Upper

41 100

76 0.0 21.5 32.3#

39 181.7 60.8 91.2#

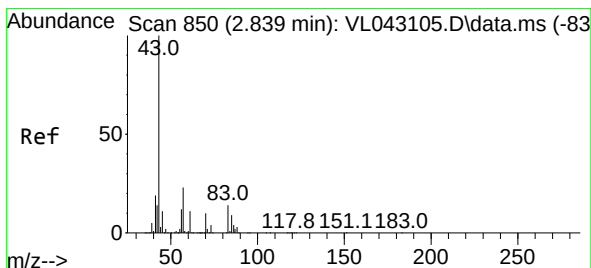
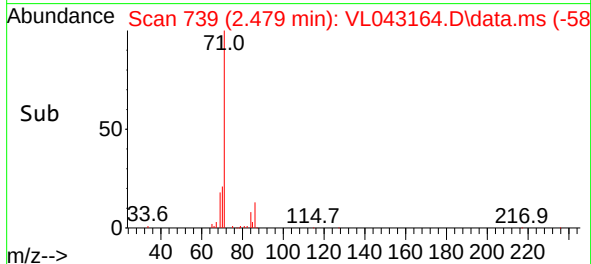
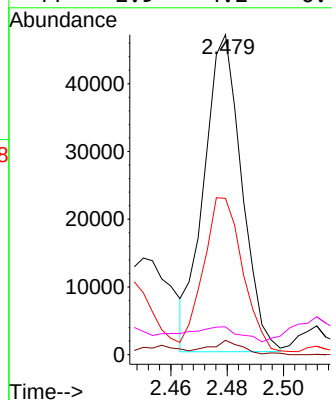
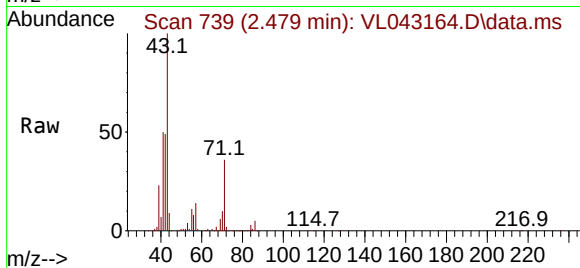




#23
Vinyl Acetate
Concen: 1.914 ppbv
RT: 2.479 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

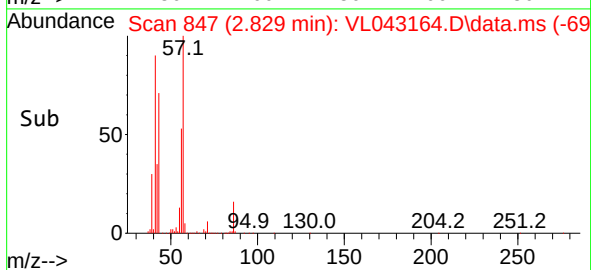
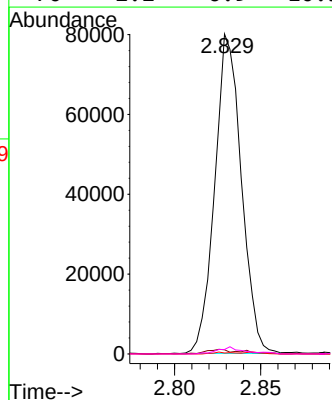
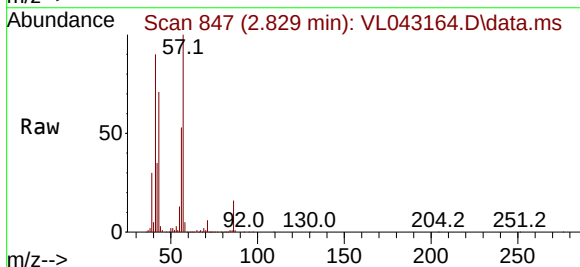
Instrument :
MSVOA_1
ClientSampleId :
141-IA-1

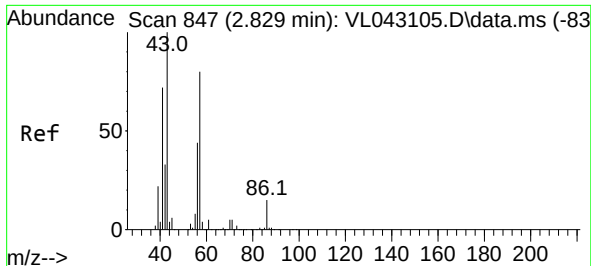
Tgt Ion:	43	Resp:	43597
Ion	Ratio	Lower	Upper
43	100		
86	4.2	6.2	9.2#
42	48.7	7.6	11.4#
44	2.9	4.2	6.4#



#25
Ethyl Acetate
Concen: 2.231 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.010 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion:	43	Resp:	86024
Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.8	11.8#
61	0.8	7.0	10.6#
70	2.2	6.9	10.3#

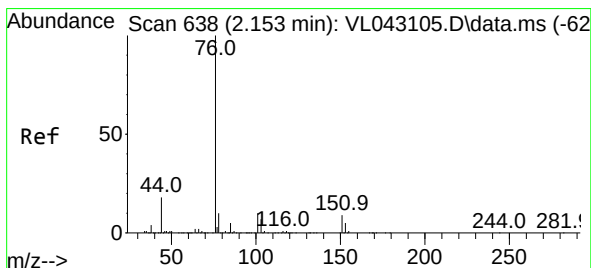
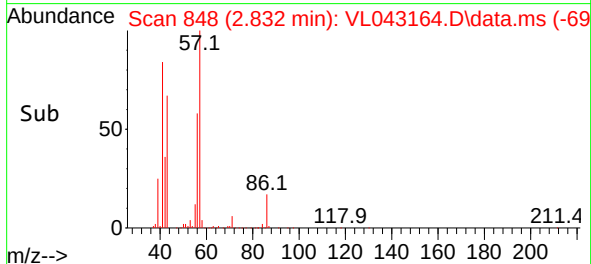
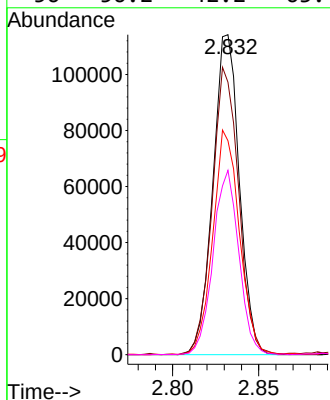
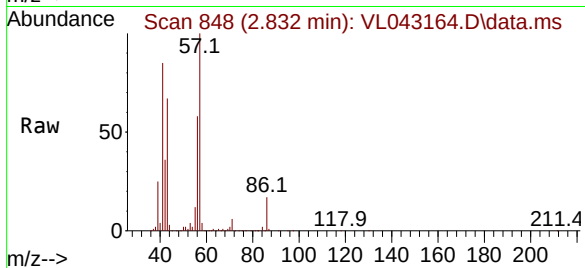




#26
Hexane
Concen: 6.875 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

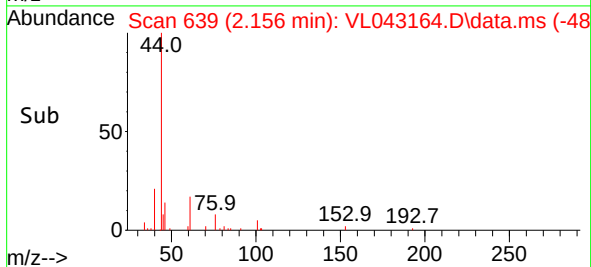
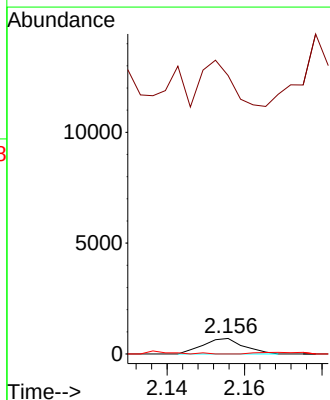
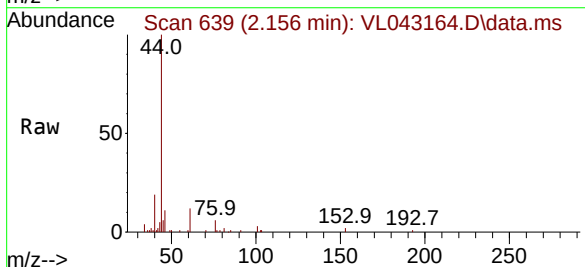
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

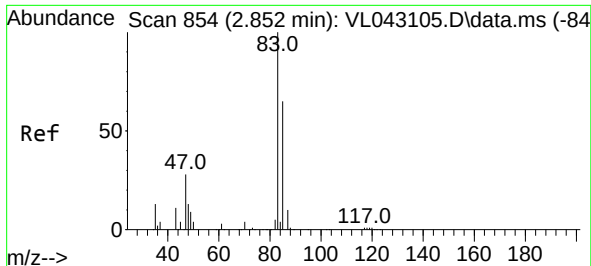
Tgt Ion: 57 Resp: 122149
Ion Ratio Lower Upper
57 100
41 90.6 71.4 107.0
43 71.8 178.5 267.7#
56 56.2 42.2 63.4



#27
Carbon Disulfide
Concen: 0.031 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 76 Resp: 508
Ion Ratio Lower Upper
76 100
44 6293.9 16.7 25.1#
78 11.2 9.3 13.9





#29

Chloroform

Concen: 0.066 ppbv

RT: 2.852 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

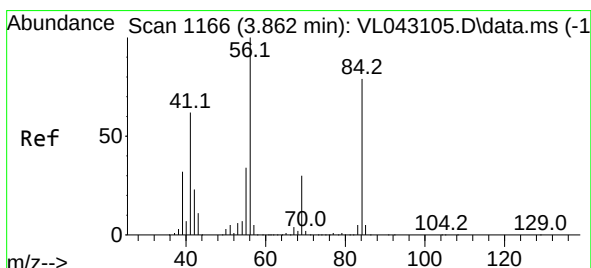
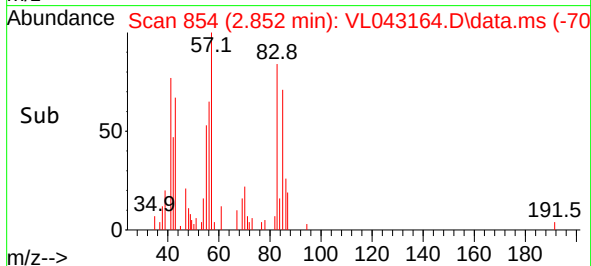
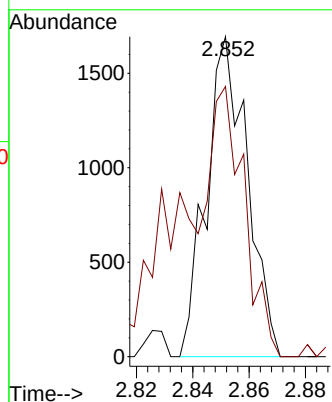
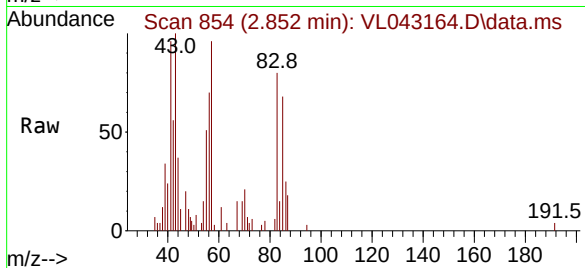
141-IA-1

Tgt Ion: 83 Resp: 1705

Ion Ratio Lower Upper

83 100

85 84.5 51.8 77.6#



#30

Cyclohexane

Concen: 0.214 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

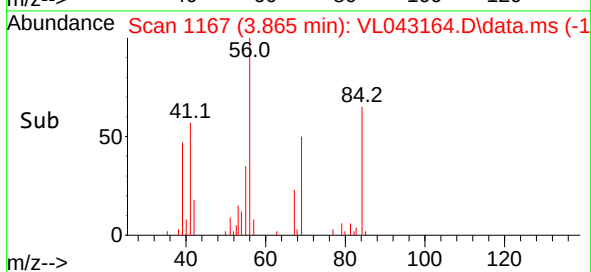
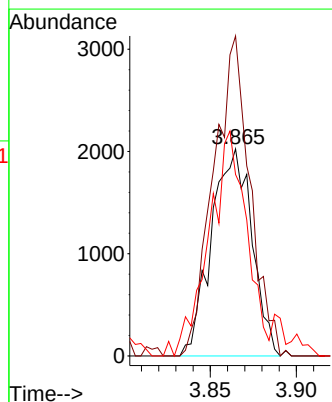
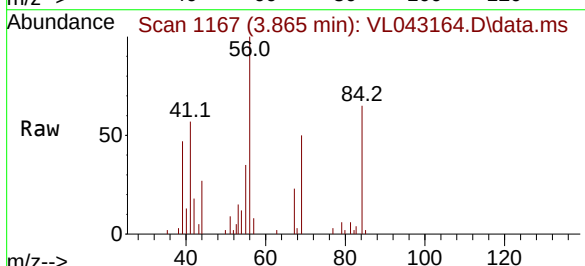
Tgt Ion: 84 Resp: 3316

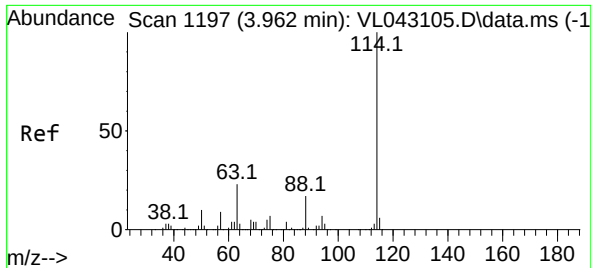
Ion Ratio Lower Upper

84 100

56 140.3 100.9 151.3

41 109.4 63.8 95.6#

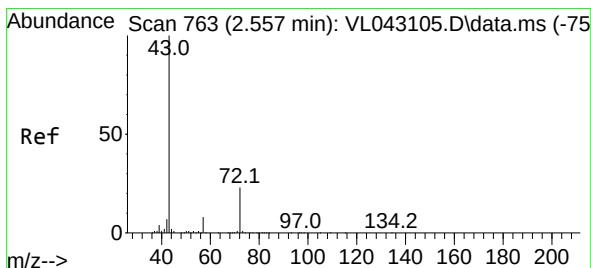
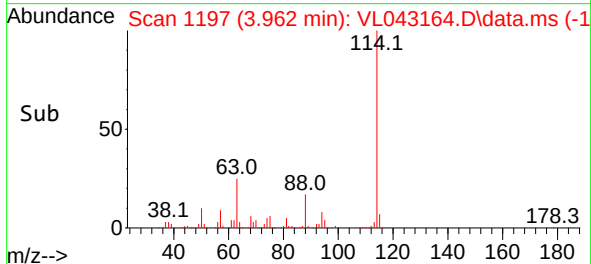
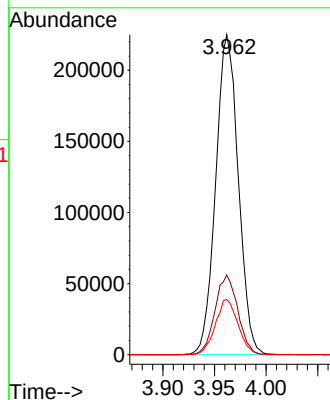
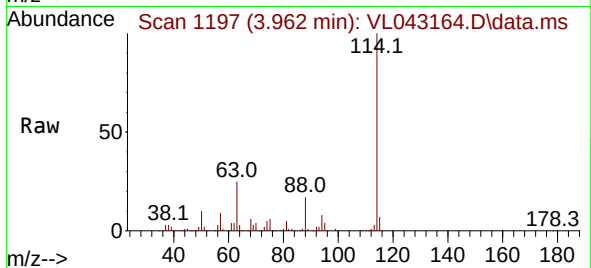




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.000 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

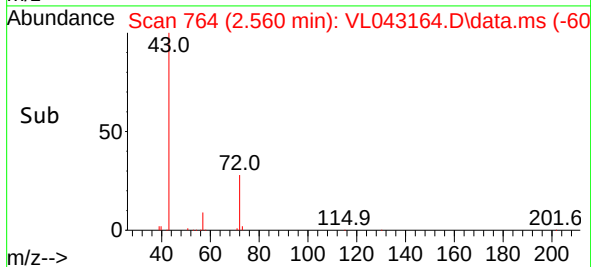
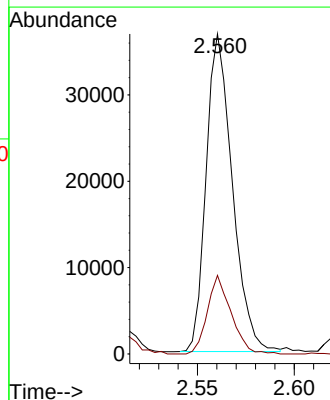
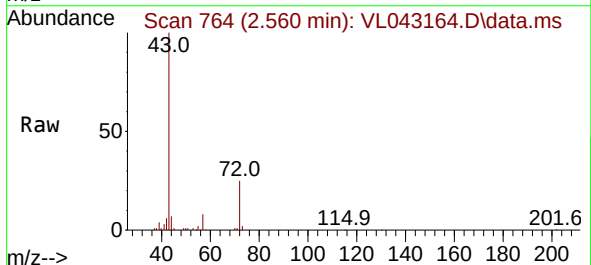
Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1

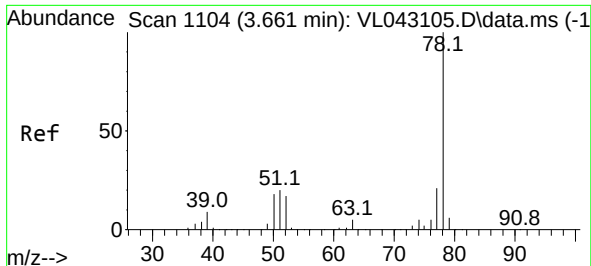
Tgt Ion:114 Resp: 342427
 Ion Ratio Lower Upper
 114 100
 63 25.1 19.3 28.9
 88 17.2 13.9 20.9



#34
 2-Butanone
 Concen: 1.508 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

Tgt Ion: 43 Resp: 34716
 Ion Ratio Lower Upper
 43 100
 72 22.4 18.4 27.6

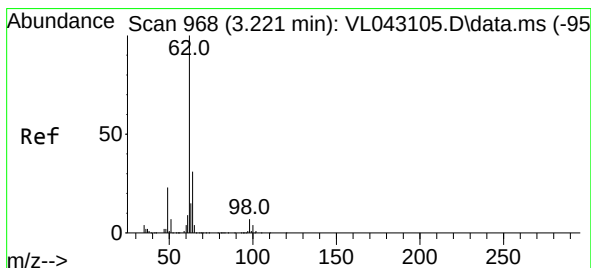
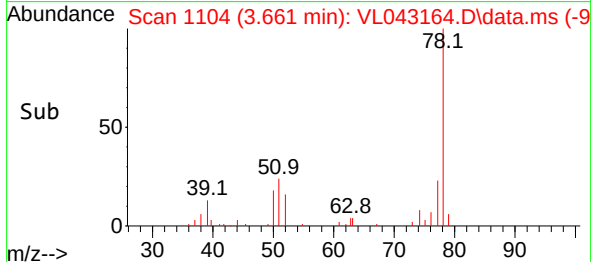
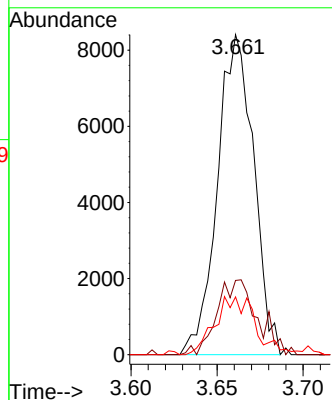
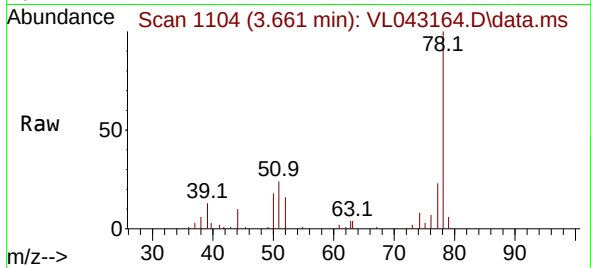




#36
Benzene
Concen: 0.382 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

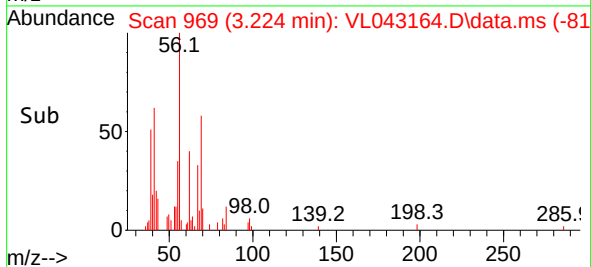
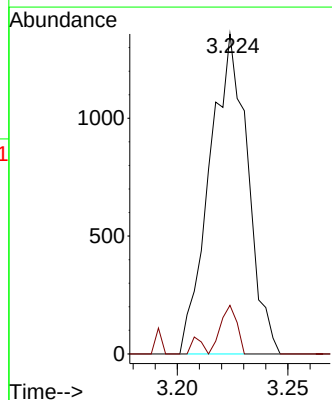
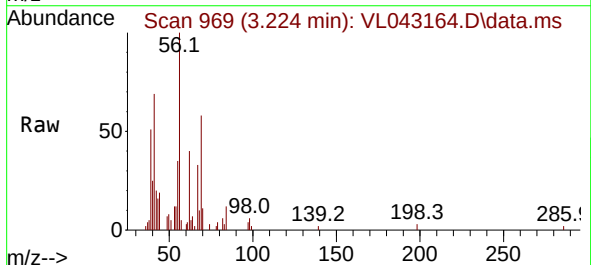
Instrument :
MSVOA_1
ClientSampleId :
141-IA-1

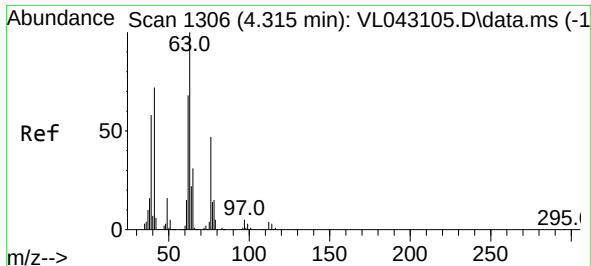
Tgt Ion: 78 Resp: 12305
Ion Ratio Lower Upper
78 100
77 23.2 17.0 25.6
50 18.0 14.6 22.0



#37
1,2-Dichloroethane
Concen: 0.087 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 62 Resp: 1623
Ion Ratio Lower Upper
62 100
98 9.3 5.8 8.6#





#39

1,2-Dichloropropane

Concen: 7.244 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.353 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

141-IA-1

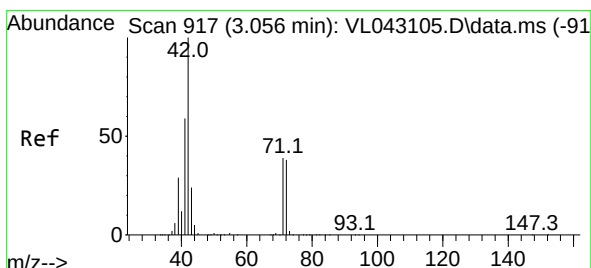
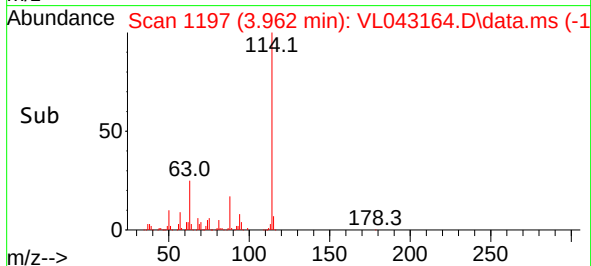
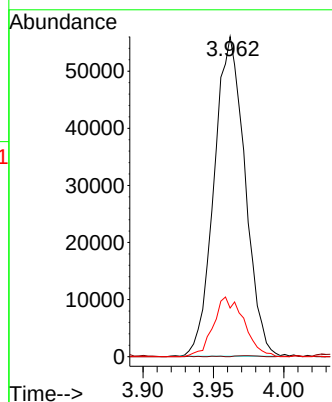
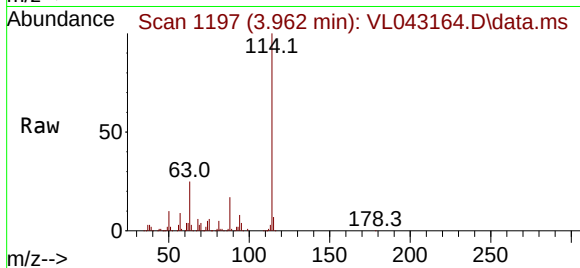
Tgt Ion: 63 Resp: 85408

Ion Ratio Lower Upper

63 100

41 0.0 58.0 87.0#

62 15.2 54.7 82.1#



#41

Tetrahydrofuran

Concen: 0.159 ppbv

RT: 3.237 min Scan# 973

Delta R.T. 0.181 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

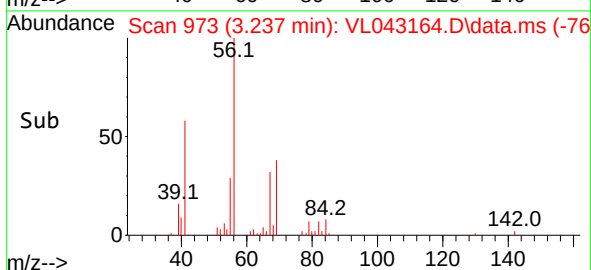
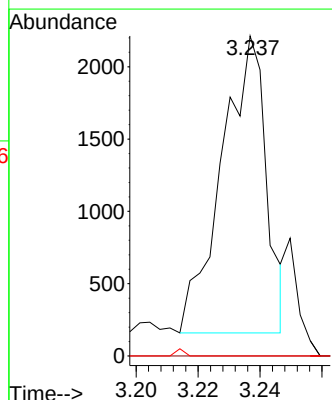
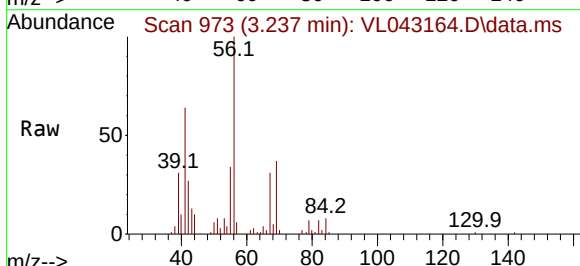
Tgt Ion: 42 Resp: 2049

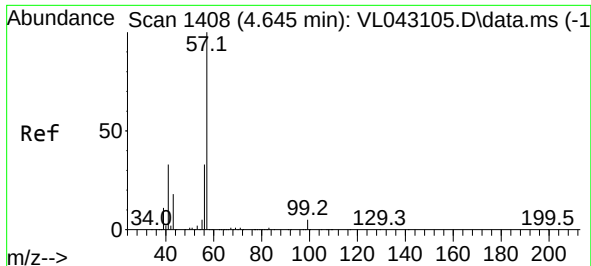
Ion Ratio Lower Upper

42 100

72 16.7 31.3 46.9#

71 15.5 30.4 45.6#

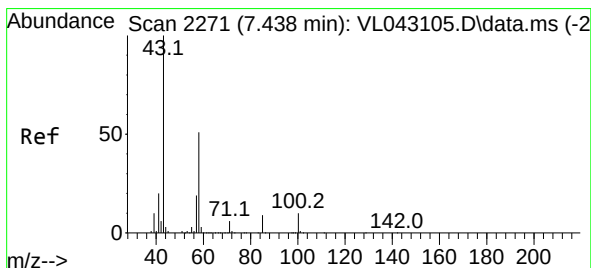
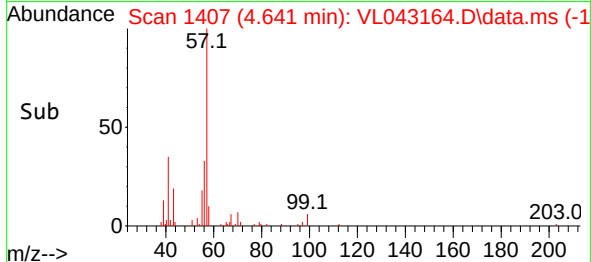
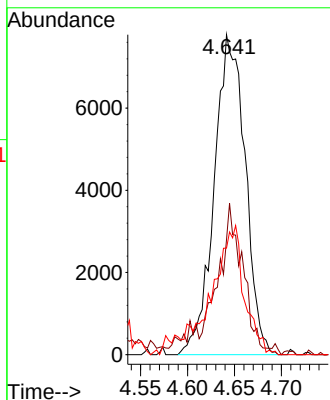
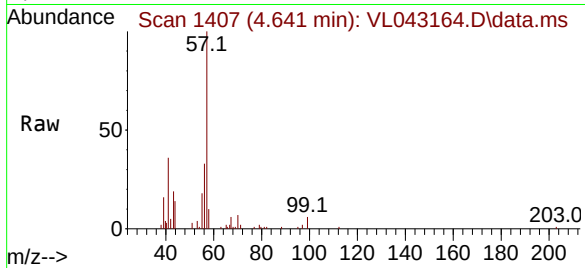




#44
2,2,4-Trimethylpentane
Concen: 0.328 ppbv
RT: 4.641 min Scan# 1408
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

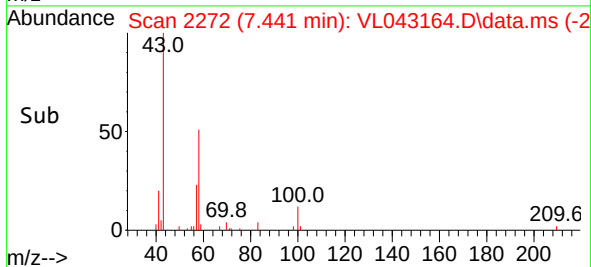
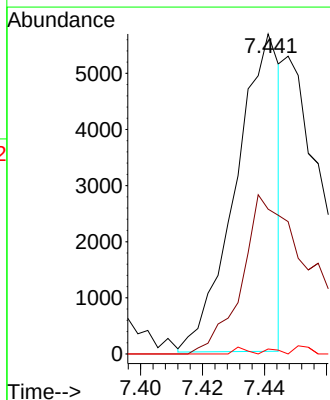
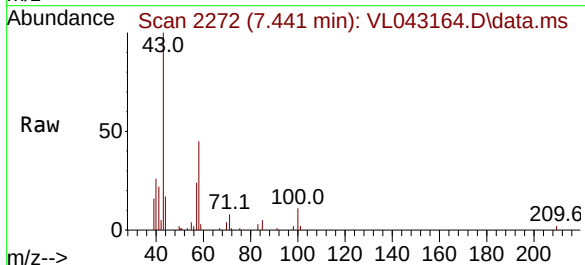
Instrument :
MSVOA_1
ClientSampleId :
141-IA-1

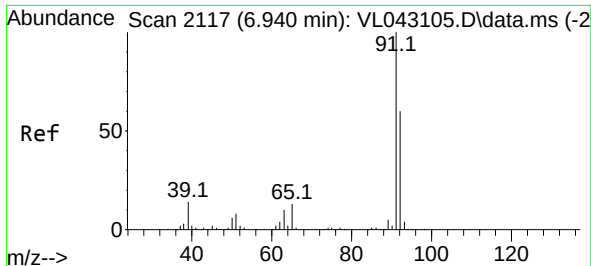
Tgt Ion: 57 Resp: 17870
Ion Ratio Lower Upper
57 100
41 45.5 26.3 39.5#
56 44.3 25.9 38.9#



#51
2-Hexanone
Concen: 0.235 ppbv
RT: 7.441 min Scan# 2272
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 43 Resp: 5610
Ion Ratio Lower Upper
43 100
58 83.3 40.4 60.6#
98 0.0 0.1 0.1#

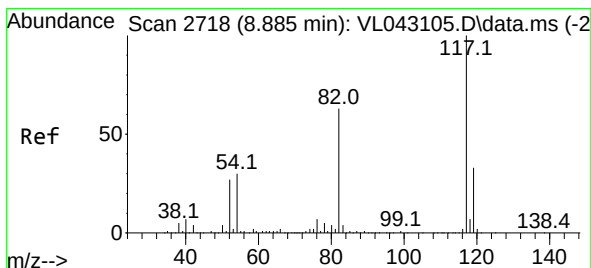
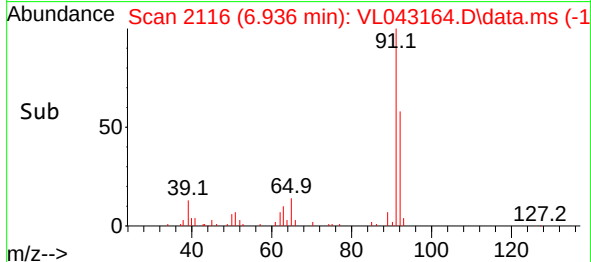
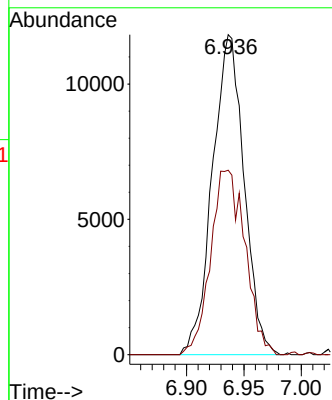
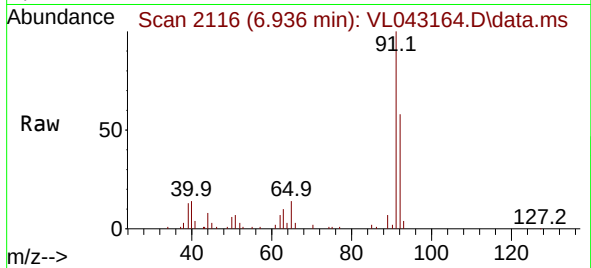




#53
Toluene
Concen: 0.593 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

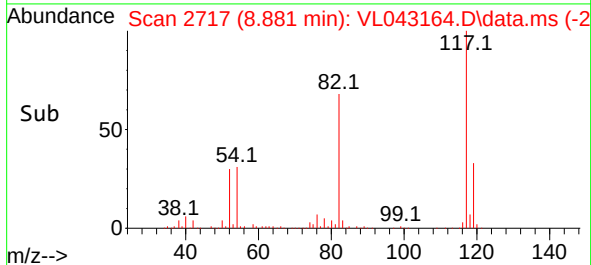
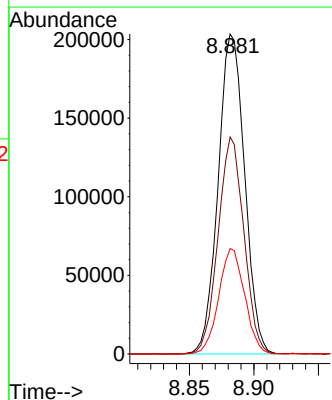
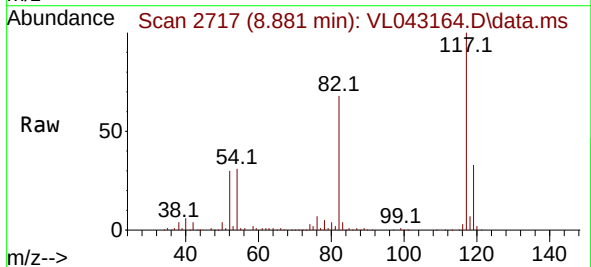
Instrument :
MSVOA_1
ClientSampleId :
141-IA-1

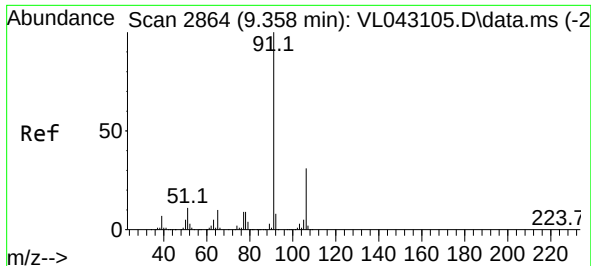
Tgt Ion: 91 Resp: 22705
Ion Ratio Lower Upper
91 100
92 63.0 48.8 73.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 117 Resp: 290452
Ion Ratio Lower Upper
117 100
82 66.0 53.8 80.8
119 32.3 25.4 38.0





#58

Ethyl Benzene

Concen: 0.058 ppbv

RT: 9.360 min Scan# 2864

Delta R.T. 0.003 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

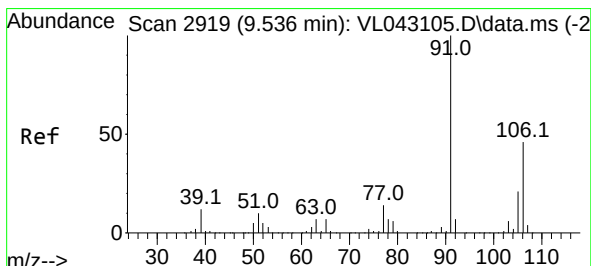
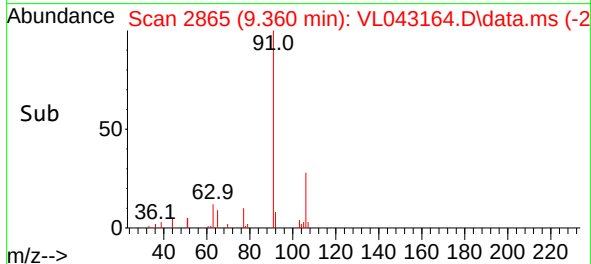
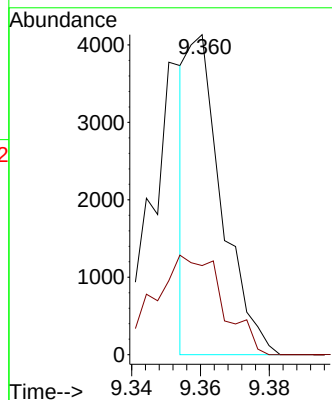
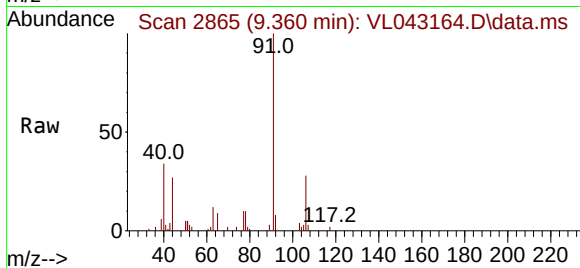
141-IA-1

Tgt Ion: 91 Resp: 2883

Ion Ratio Lower Upper

91 100

106 27.8 24.8 37.2



#59

m/p-Xylene

Concen: 0.385 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043164.D

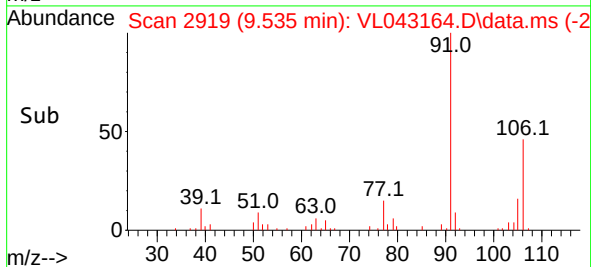
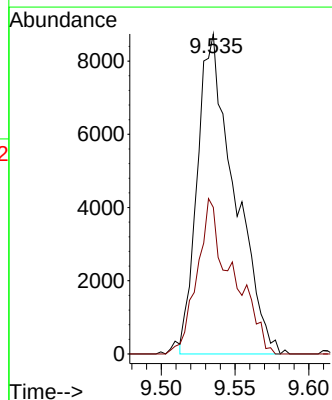
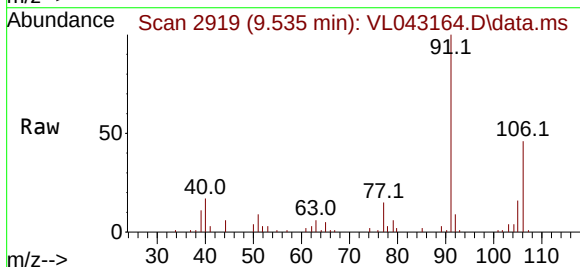
Acq: 06 Nov 2025 13:17

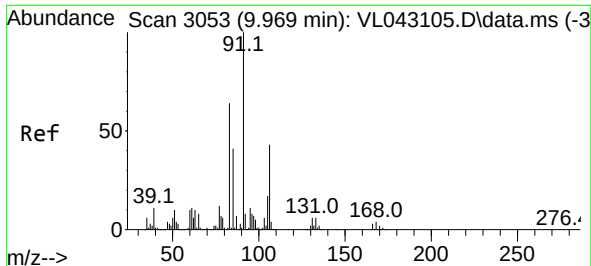
Tgt Ion: 91 Resp: 15295

Ion Ratio Lower Upper

91 100

106 46.5 38.0 57.0

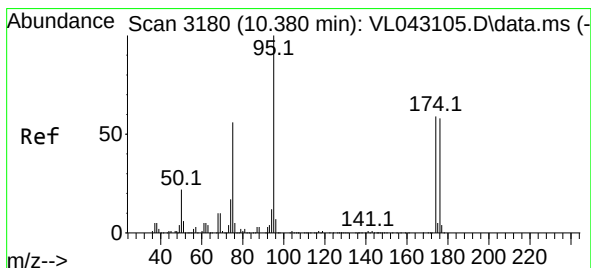
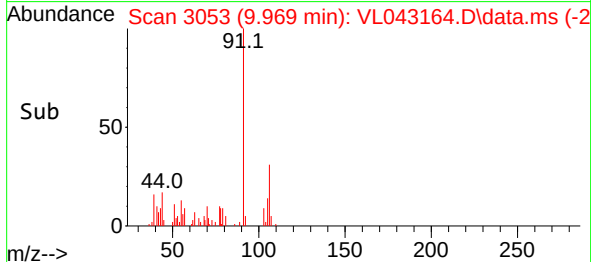
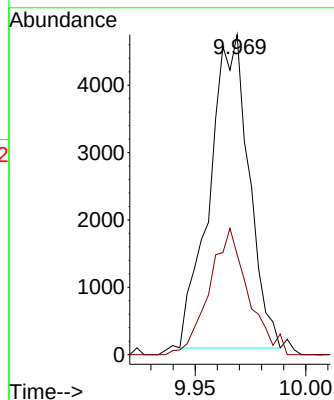
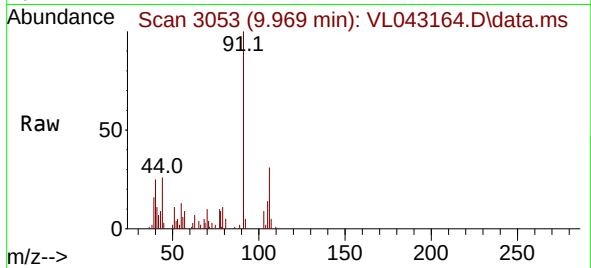




#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

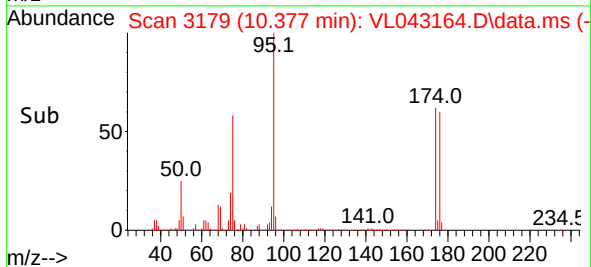
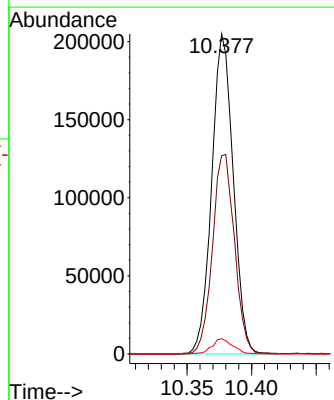
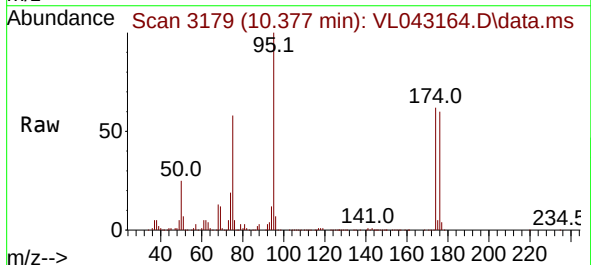
Instrument :
MSVOA_1
ClientSampleId :
141-IA-1

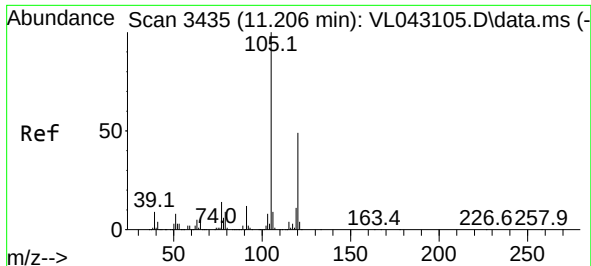
Tgt Ion: 91 Resp: 5758
Ion Ratio Lower Upper
91 100
106 39.8 21.9 65.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.513 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 95 Resp: 237353
Ion Ratio Lower Upper
95 100
174 63.7 48.3 72.5
175 4.6 3.8 5.8

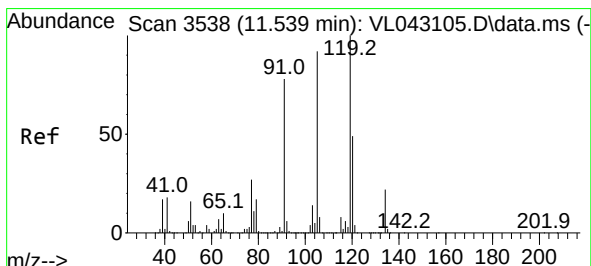
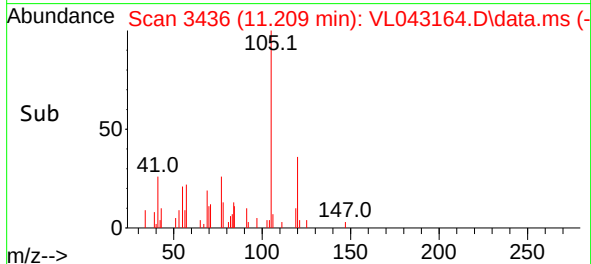
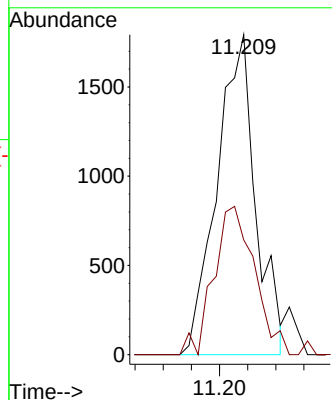
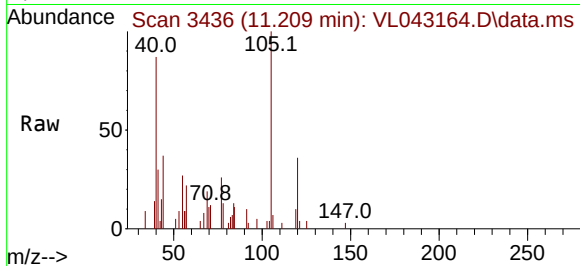




#73
 1,3,5-Trimethylbenzene
 Concen: 0.043 ppbv
 RT: 11.209 min Scan# 3436
 Delta R.T. 0.003 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

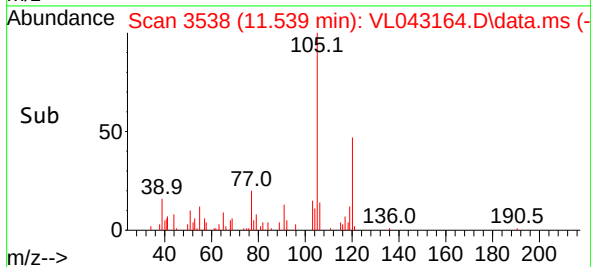
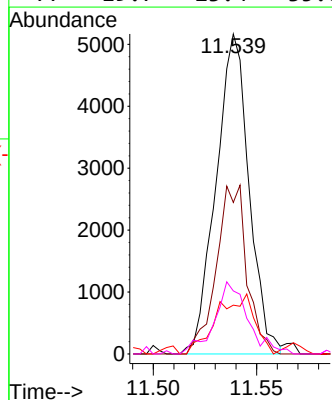
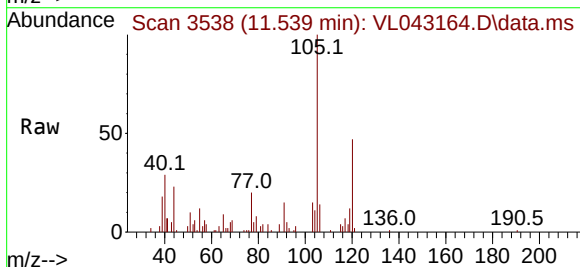
Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1

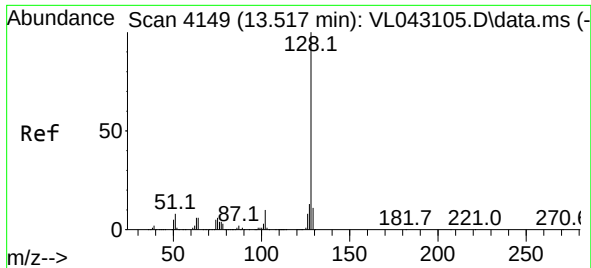
Tgt Ion:105 Resp: 1713
 Ion Ratio Lower Upper
 105 100
 120 35.9 39.0 58.6#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.129 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL043164.D
 Acq: 06 Nov 2025 13:17

Tgt Ion:105 Resp: 5751
 Ion Ratio Lower Upper
 105 100
 120 47.4 42.8 64.2
 91 15.3 68.3 102.5#
 77 19.7 23.4 35.0#





#79

Naphthalene

Concen: 0.130 ppbv

RT: 13.516 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043164.D

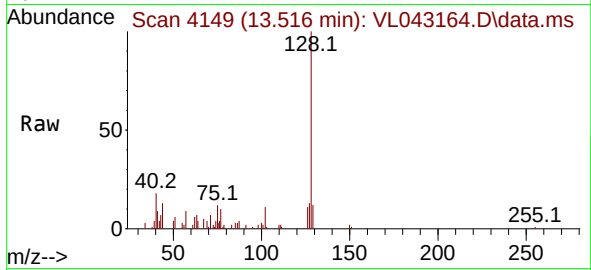
Acq: 06 Nov 2025 13:17

Instrument :

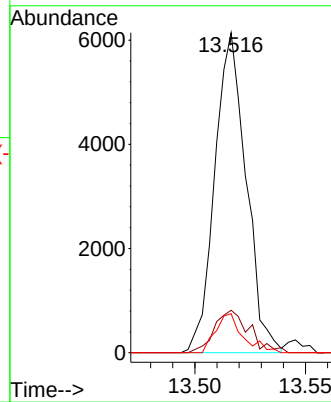
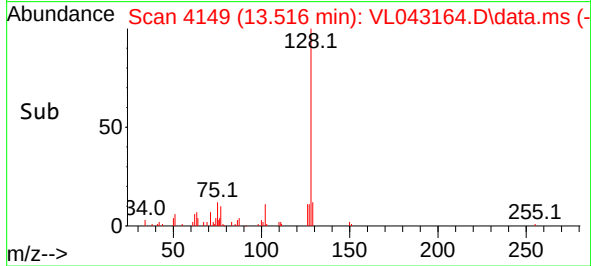
MSVOA_L

ClientSampleId :

141-IA-1



Tgt Ion:	128	Resp:	6044
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	12.2	9.1	13.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043165.D
 Acq On : 06 Nov 2025 13:50
 Operator : SY/MD
 Sample : Q3557-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA2

Quant Time: Nov 07 00:22:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

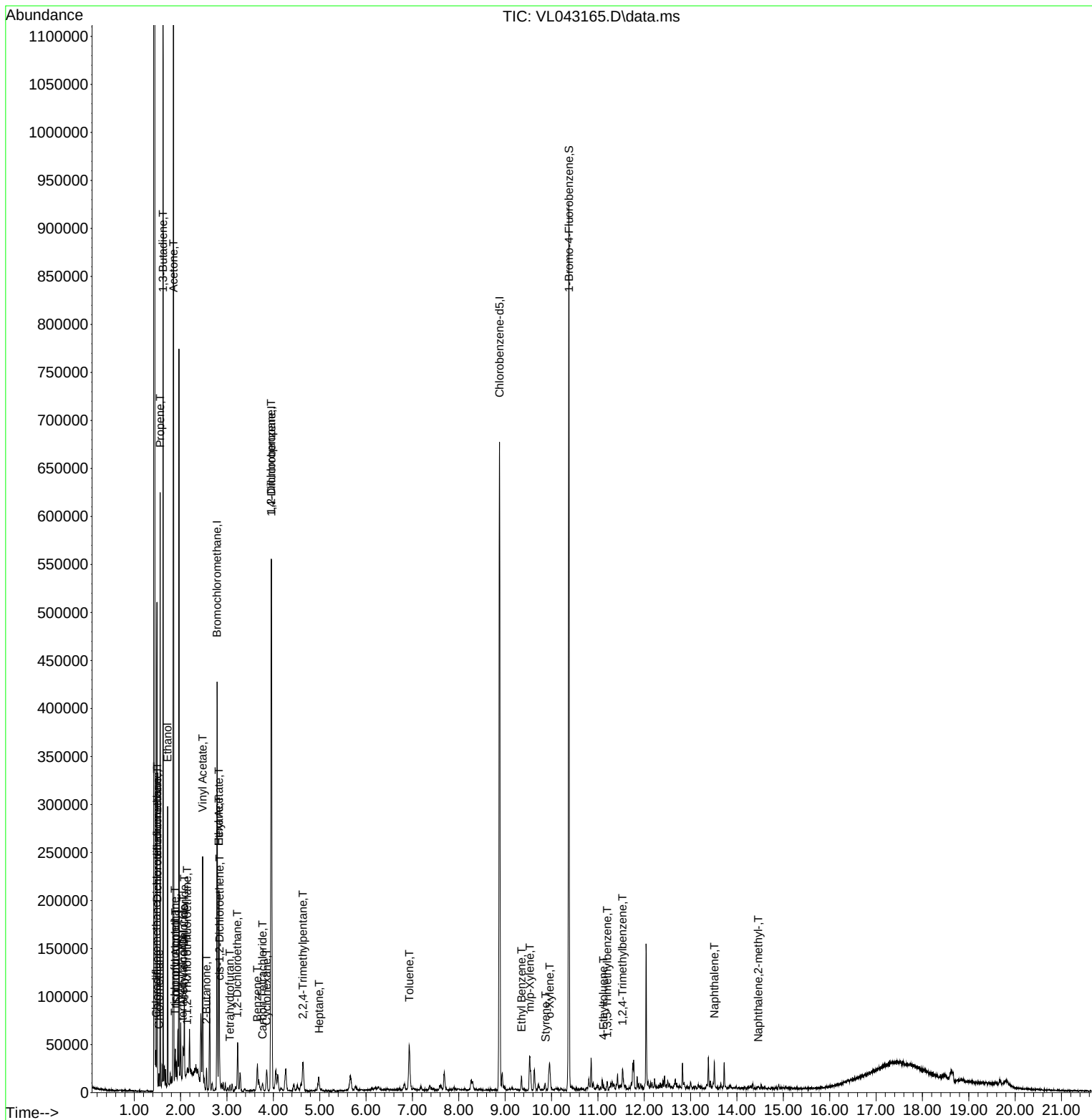
Internal Standards						
1) Bromochloromethane	2.787	49	113035	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	330913	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	283774	10.000	ppbv	0.00

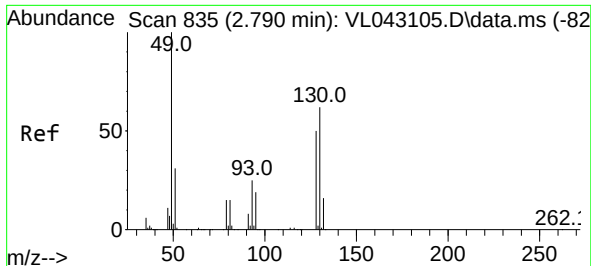
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	229122	10.388	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	32908	2.048	ppbv	97
3) Chlorodifluoromethane	1.476	51	12731	0.732	ppbv #	77
4) Chloromethane	1.531	50	2999	0.471	ppbv	91
8) Dichlorotetrafluoroethane	1.499	85	32908	2.534	ppbv #	21
9) Propene	1.560	41	63704	8.261	ppbv	98
10) Heptane	4.985	43	2999	0.135	ppbv #	27
11) Trichlorofluoromethane	1.878	101	5581	0.355	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	1021	0.081	ppbv	84
13) Ethanol	1.719	45	103305	36.217	ppbv	100
15) Acetone	1.845	43	366986	24.088	ppbv #	72
16) 1,3-Butadiene	1.622	39	76674	10.560	ppbv #	16
17) tert-Butyl alcohol	2.043	59	1507	0.072	ppbv #	72
19) Isopropyl Alcohol	1.887	45	10103	1.065	ppbv #	1
20) Methylene Chloride	2.062	84	3972	0.660	ppbv #	86
21) Allyl Chloride	2.078	41	7015	0.625	ppbv #	18
23) Vinyl Acetate	2.476	43	67063	3.005	ppbv #	45
25) Ethyl Acetate	2.826	43	35195	0.932	ppbv #	83
26) Hexane	2.826	57	47767	2.744	ppbv #	41
30) Cyclohexane	3.855	84	5306	0.349	ppbv #	91
31) cis-1,2-Dichloroethene	2.839	61	524	0.032	ppbv #	24
34) 2-Butanone	2.557	43	13607	0.612	ppbv	97
35) Carbon Tetrachloride	3.764	117	2179	0.092	ppbv #	93
36) Benzene	3.654	78	16826	0.540	ppbv	94
37) 1,2-Dichloroethane	3.221	62	1636	0.091	ppbv #	94
39) 1,2-Dichloropropane	3.955	63	83837	7.358	ppbv #	24
41) Tetrahydrofuran	3.062	42	1943	0.156	ppbv #	86
44) 2,2,4-Trimethylpentane	4.638	57	25124	0.478	ppbv #	83
53) Toluene	6.933	91	33445	0.904	ppbv	96
58) Ethyl Benzene	9.351	91	7473	0.153	ppbv	99
59) m/p-Xylene	9.532	91	16991	0.437	ppbv #	79
60) o-Xylene	9.959	91	9569	0.249	ppbv	100
61) Styrene	9.872	104	1307	0.075	ppbv #	87
72) 4-Ethyltoluene	11.121	105	1824	0.039	ppbv #	61
73) 1,3,5-Trimethylbenzene	11.202	105	2045	0.053	ppbv	94
74) 1,2,4-Trimethylbenzene	11.532	105	6570	0.151	ppbv #	54
79) Naphthalene	13.513	128	12262	0.269	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	375	0.032	ppbv #	62

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

Quant Time: Nov 07 00:22:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

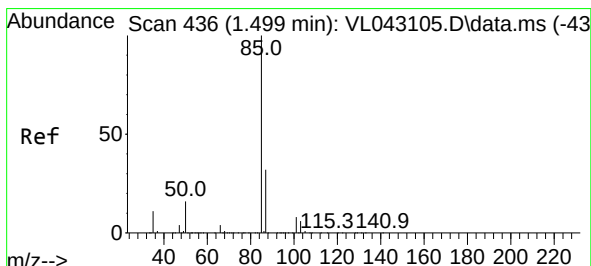
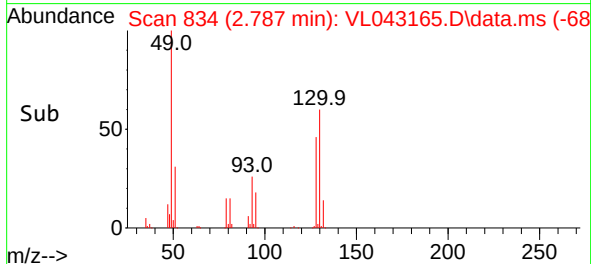
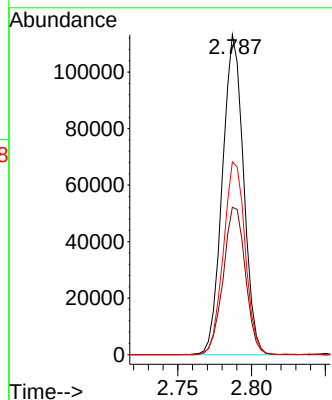
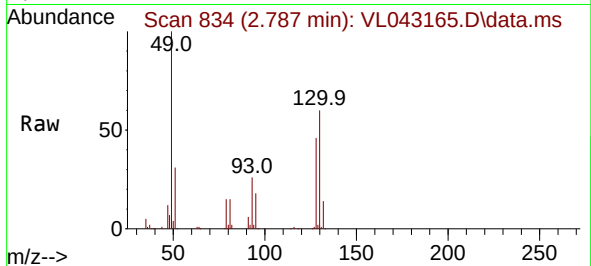




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

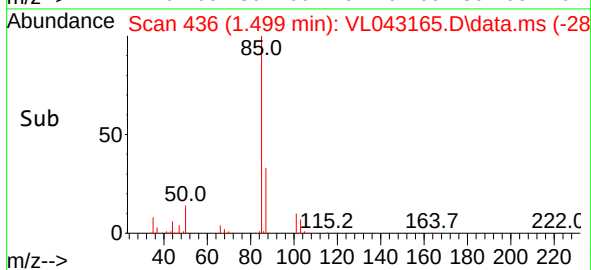
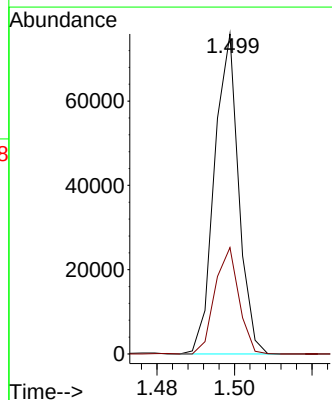
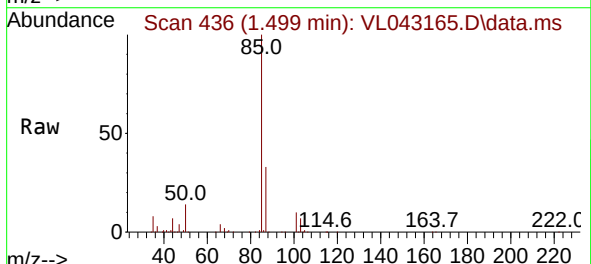
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

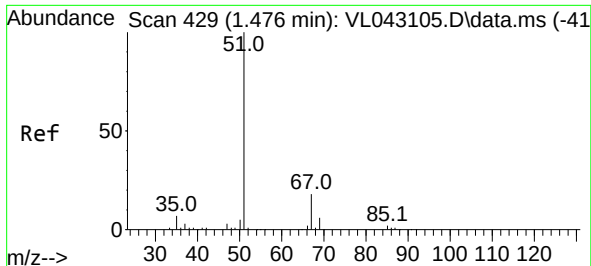
Tgt Ion: 49 Resp: 113035
Ion Ratio Lower Upper
49 100
128 48.3 24.4 73.4
130 62.3 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 2.048 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 85 Resp: 32908
Ion Ratio Lower Upper
85 100
87 33.3 25.3 37.9

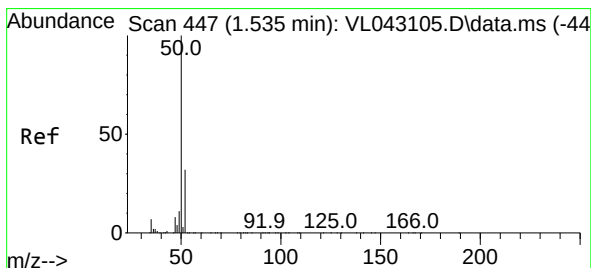
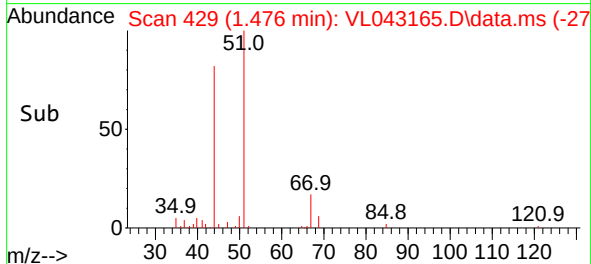
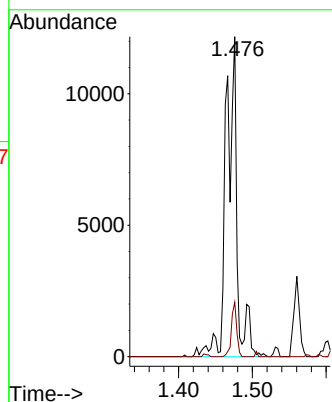
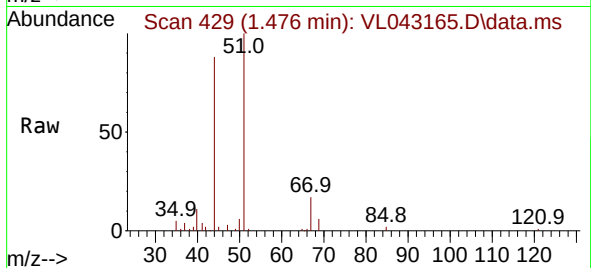




#3
Chlorodifluoromethane
Concen: 0.732 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

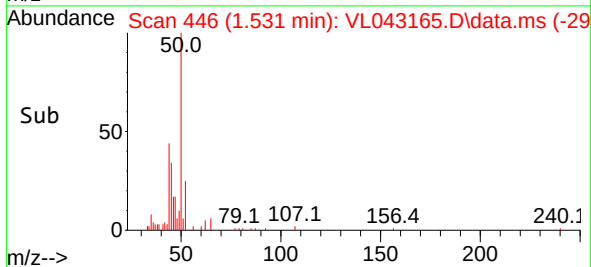
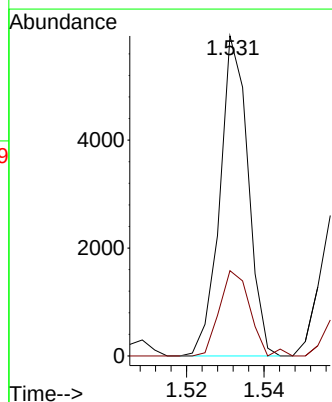
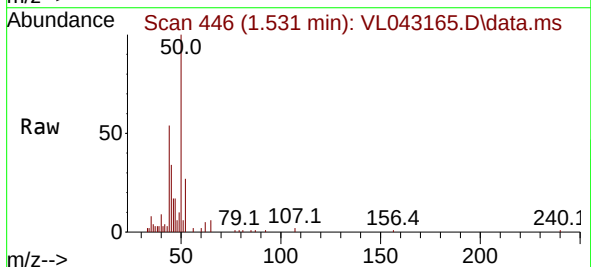
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

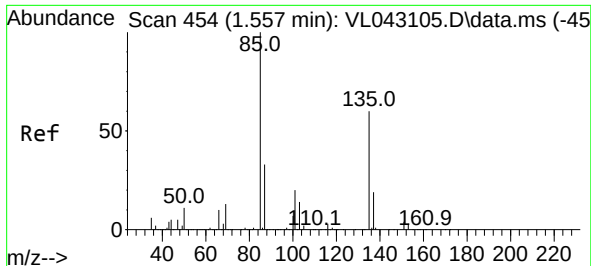
Tgt Ion: 51 Resp: 12731
Ion Ratio Lower Upper
51 100
67 8.5 15.1 22.7#



#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 50 Resp: 2999
Ion Ratio Lower Upper
50 100
52 26.6 25.2 37.8

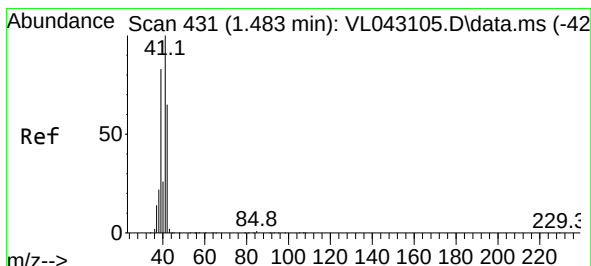
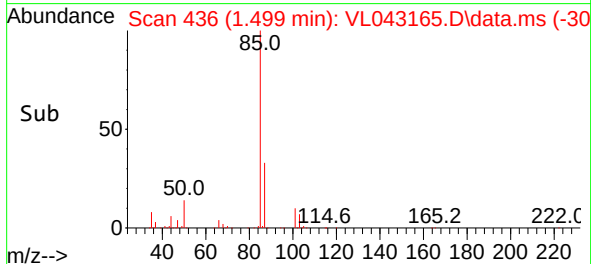
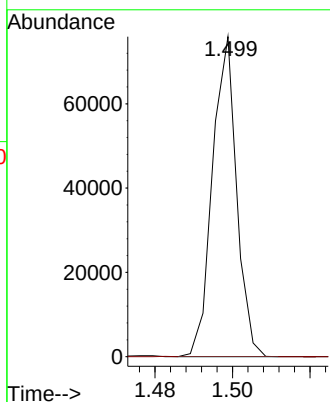
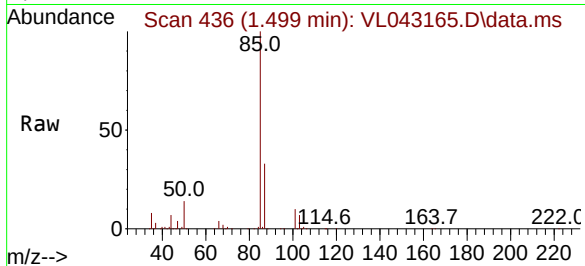




#8
 Dichlorotetrafluoroethane
 Concen: 2.534 ppbv
 RT: 1.499 min Scan# 411
 Delta R.T. -0.058 min
 Lab File: VL043165.D
 Acq: 06 Nov 2025 13:50

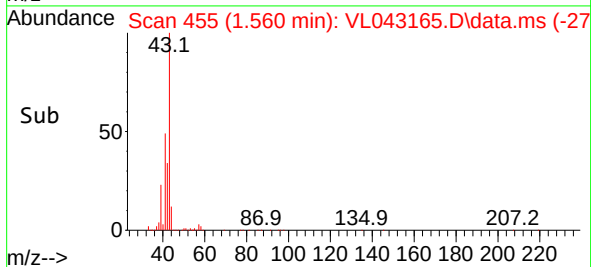
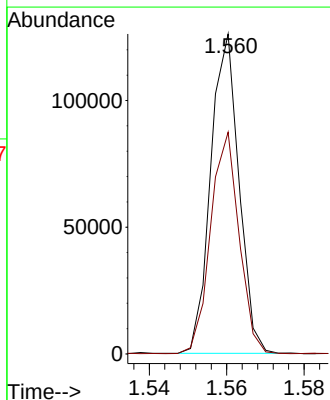
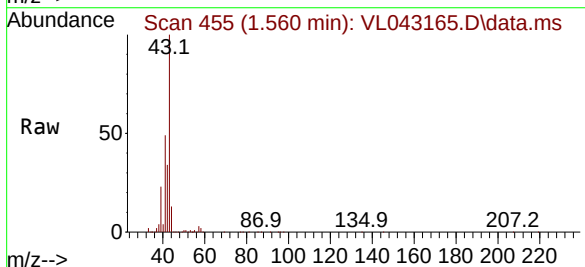
Instrument :
 MSVOA_1
 ClientSampleId :
 141-IA2

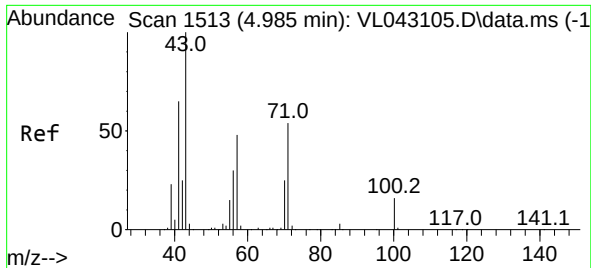
Tgt Ion: 85 Resp: 32908
 Ion Ratio Lower Upper
 85 100
 135 0.0 48.2 72.4#



#9
 Propene
 Concen: 8.261 ppbv
 RT: 1.560 min Scan# 455
 Delta R.T. 0.078 min
 Lab File: VL043165.D
 Acq: 06 Nov 2025 13:50

Tgt Ion: 41 Resp: 63704
 Ion Ratio Lower Upper
 41 100
 42 70.4 55.1 82.7

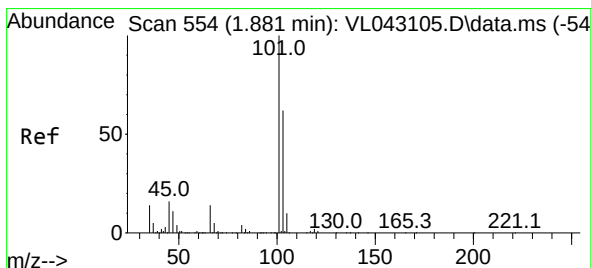
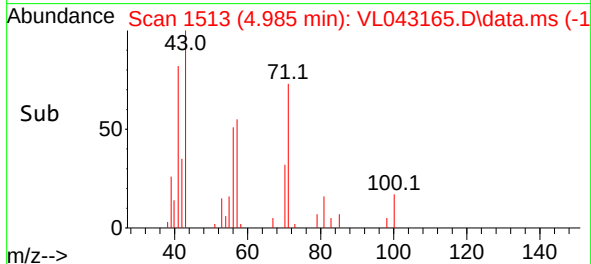
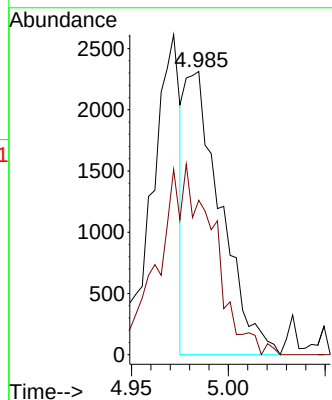
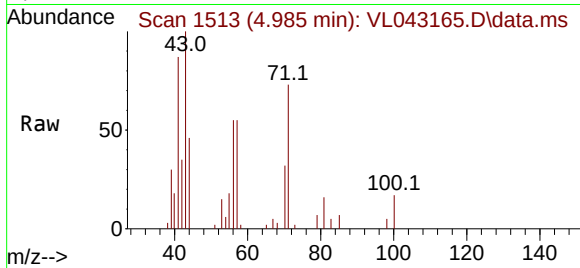




#10
Heptane
Concen: 0.135 ppbv
RT: 4.985 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

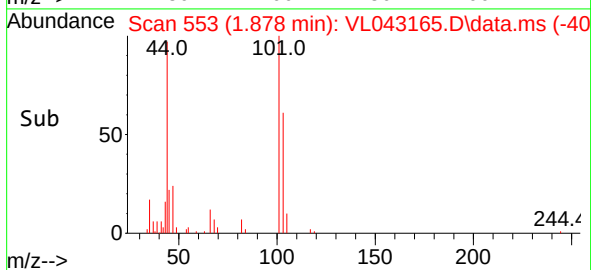
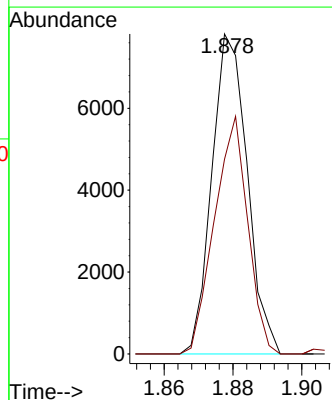
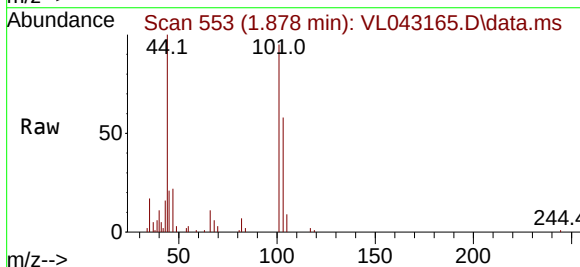
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

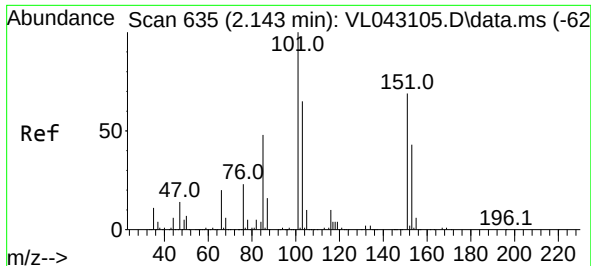
Tgt Ion: 43 Resp: 2999
Ion Ratio Lower Upper
43 100
57 101.7 40.8 61.2#



#11
Trichlorofluoromethane
Concen: 0.355 ppbv
RT: 1.878 min Scan# 553
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion:101 Resp: 5581
Ion Ratio Lower Upper
101 100
103 60.8 49.3 73.9

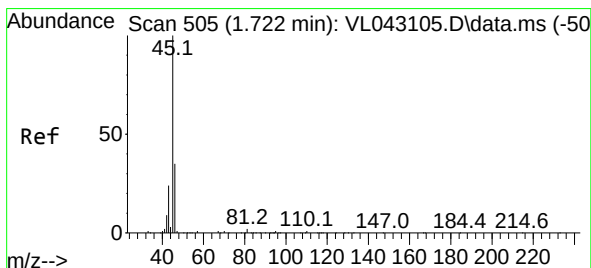
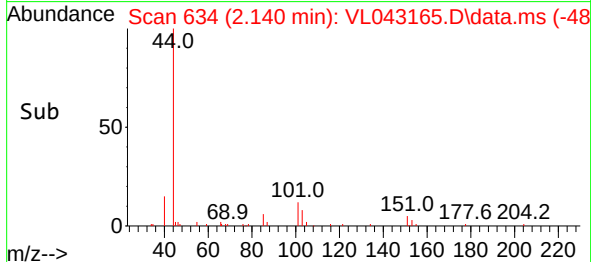
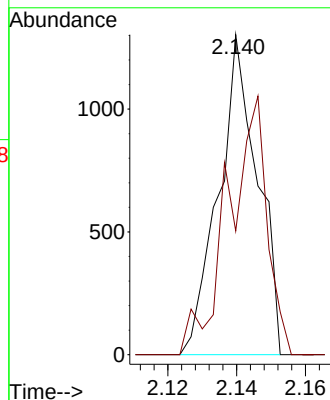
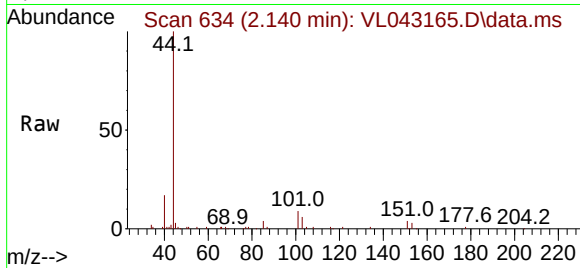




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.081 ppbv
RT: 2.140 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

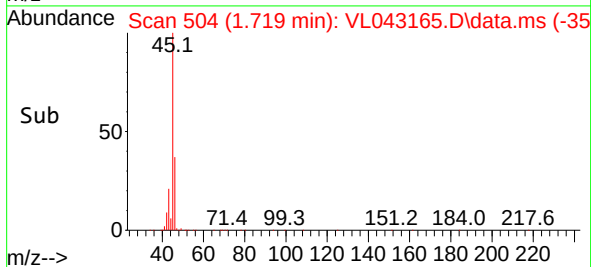
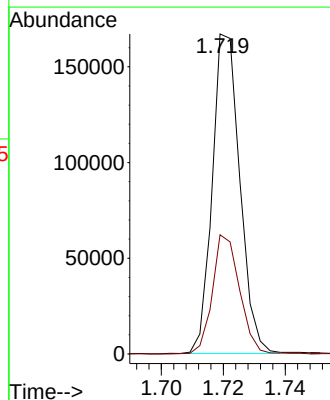
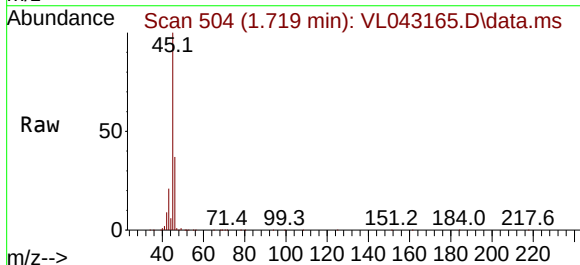
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

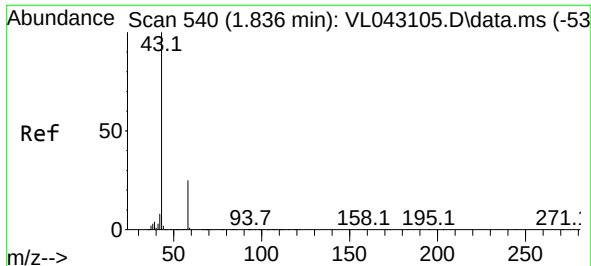
Tgt Ion:101 Resp: 1021
Ion Ratio Lower Upper
101 100
151 81.2 54.7 82.1



#13
Ethanol
Concen: 36.217 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 45 Resp: 103305
Ion Ratio Lower Upper
45 100
46 37.1 14.7 58.9

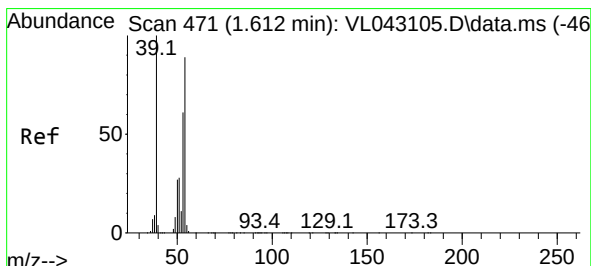
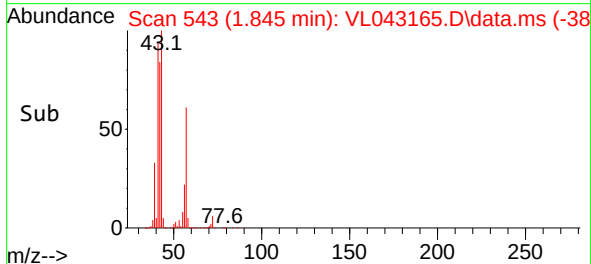
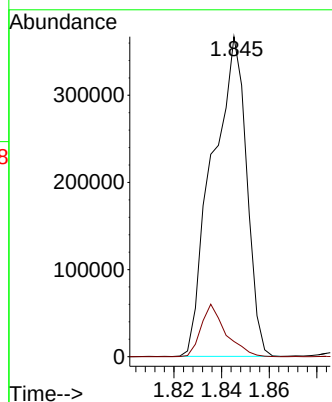
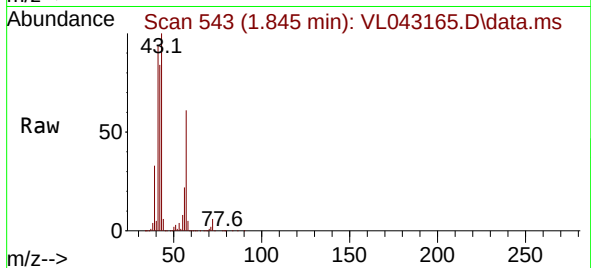




#15
Acetone
Concen: 24.088 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

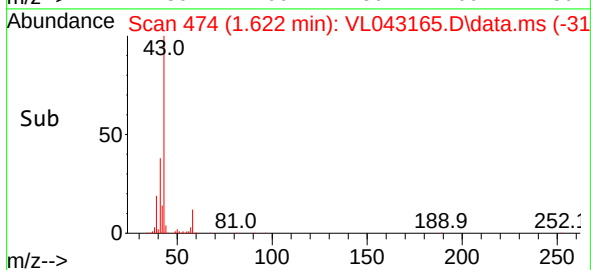
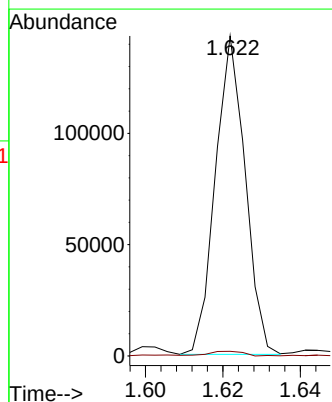
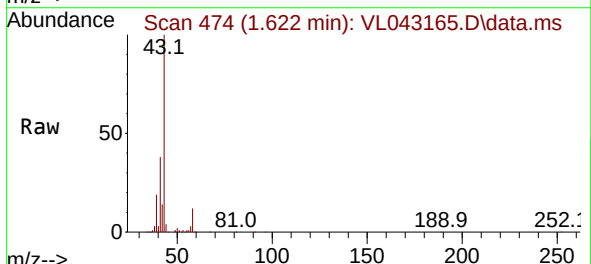
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

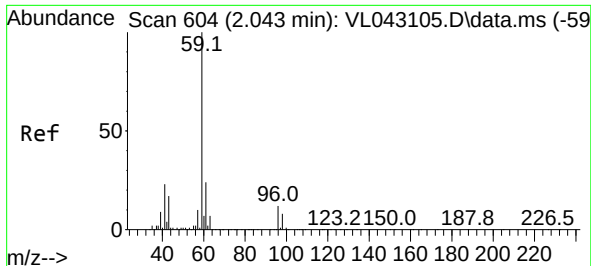
Tgt Ion: 43 Resp: 366986
Ion Ratio Lower Upper
43 100
58 11.8 20.8 31.2#



#16
1,3-Butadiene
Concen: 10.560 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.010 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 39 Resp: 76674
Ion Ratio Lower Upper
39 100
54 2.5 59.0 88.4#

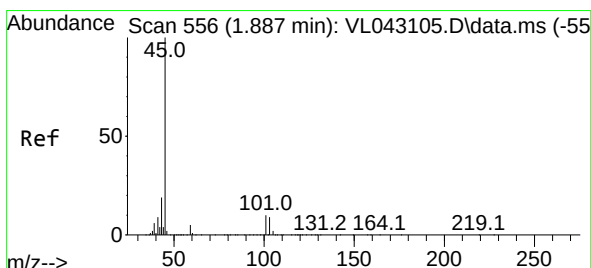
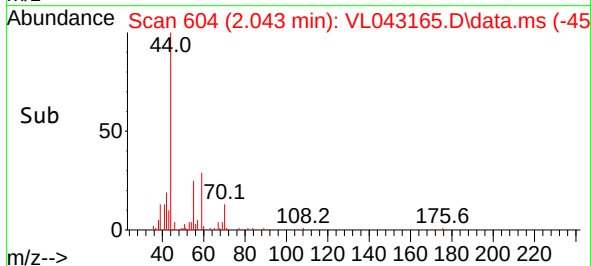
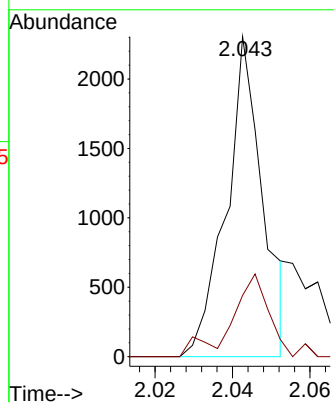
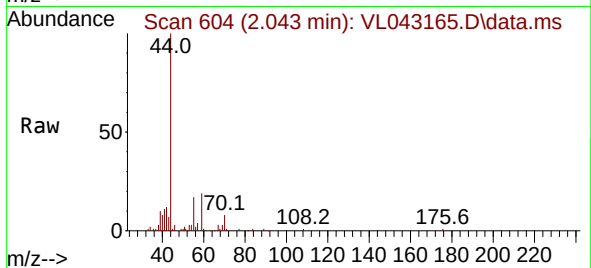




#17
tert-Butyl alcohol
Concen: 0.072 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

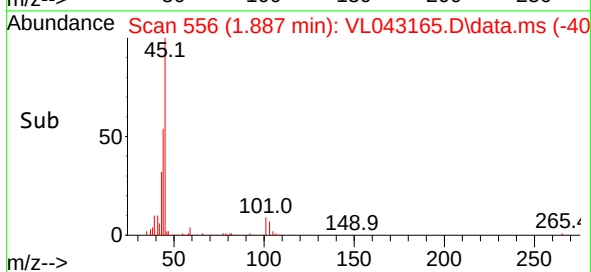
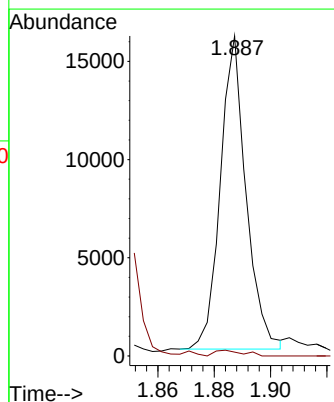
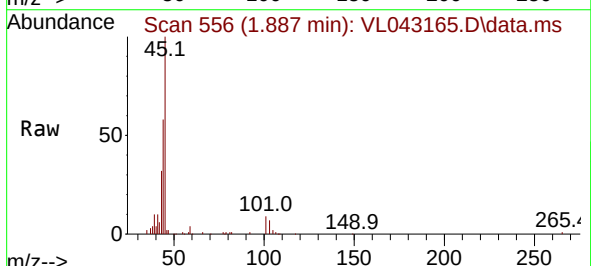
Instrument :
MSVOA_1
ClientSampleId :
141-IA2

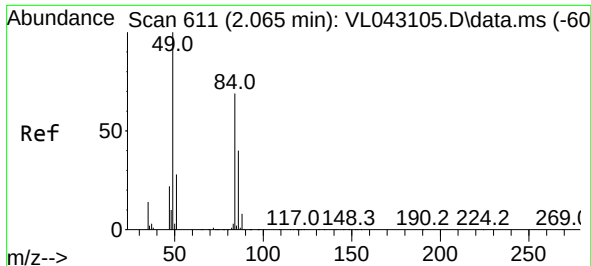
Tgt Ion: 59 Resp: 1507
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#19
Isopropyl Alcohol
Concen: 1.065 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 45 Resp: 10103
Ion Ratio Lower Upper
45 100
58 432.0 31.3 46.9#





#20

Methylene Chloride

Concen: 0.660 ppbv

RT: 2.062 min Scan# 611

Delta R.T. -0.003 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_L

ClientSampleId :

141-IA2

Tgt Ion: 84 Resp: 3972

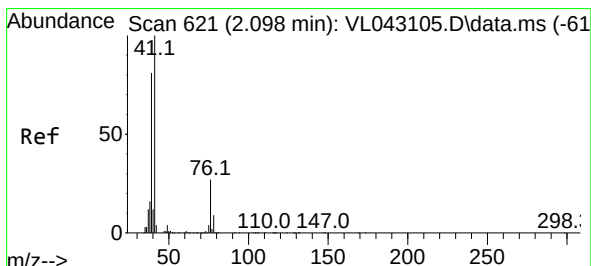
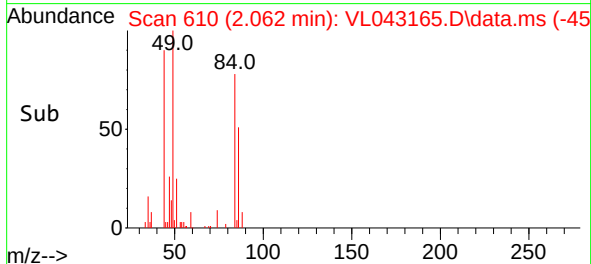
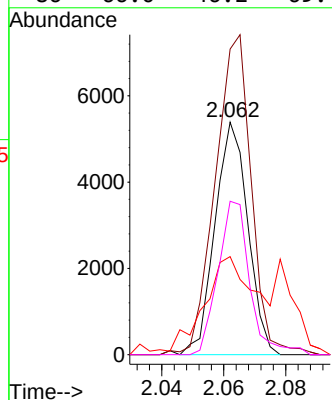
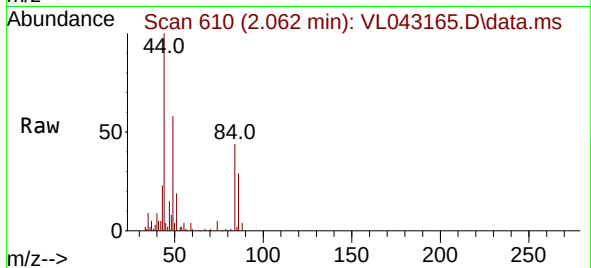
Ion Ratio Lower Upper

84 100

49 130.2 116.6 175.0

51 27.8 34.8 52.2#

86 66.0 46.2 69.4



#21

Allyl Chloride

Concen: 0.625 ppbv

RT: 2.078 min Scan# 615

Delta R.T. -0.020 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

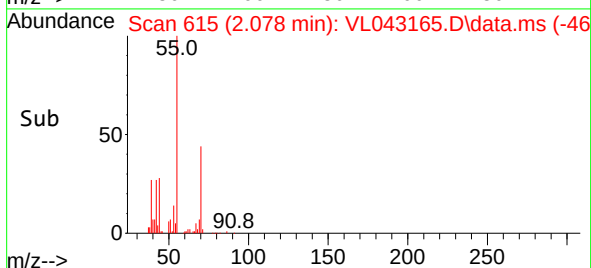
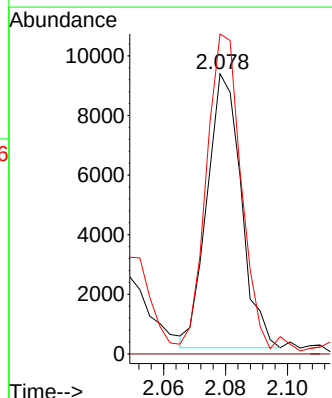
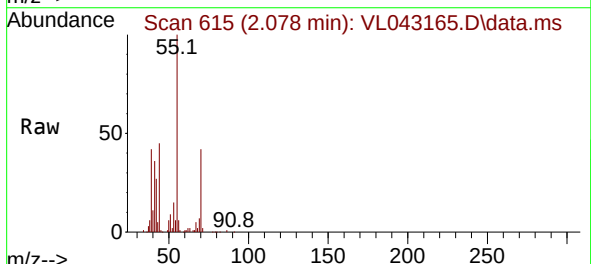
Tgt Ion: 41 Resp: 7015

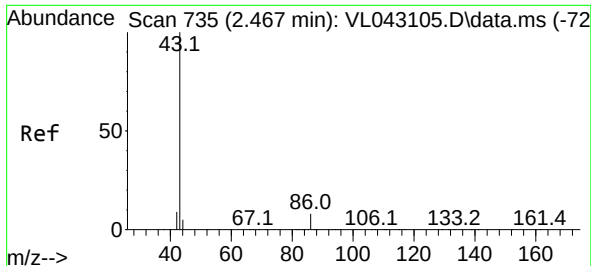
Ion Ratio Lower Upper

41 100

76 8.4 21.5 32.3#

39 160.9 60.8 91.2#

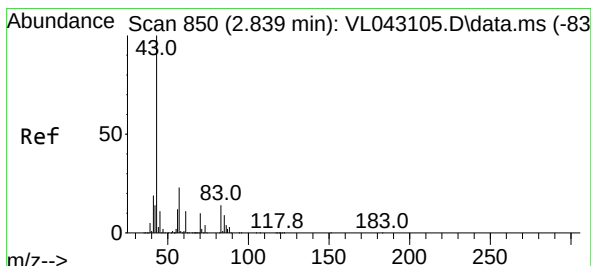
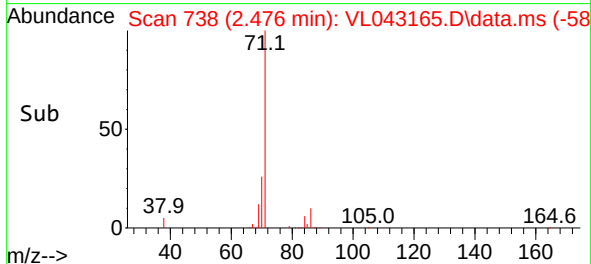
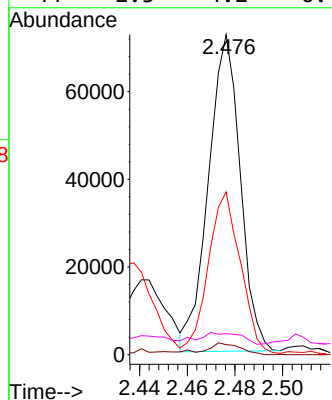
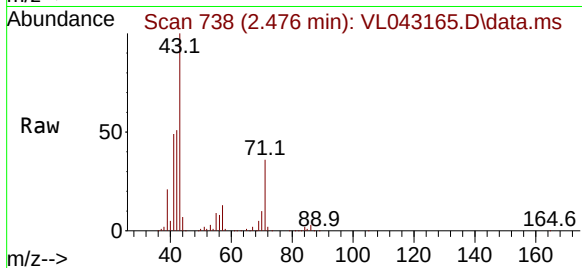




#23
 Vinyl Acetate
 Concen: 3.005 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL043165.D
 Acq: 06 Nov 2025 13:50

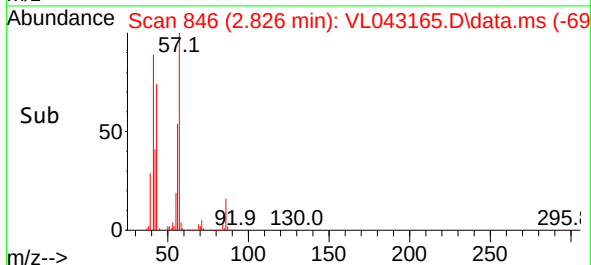
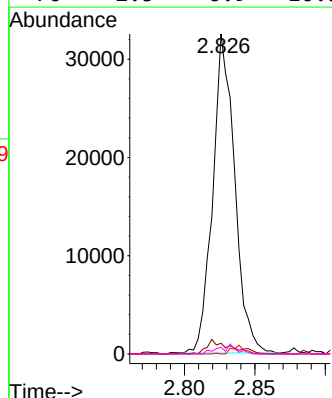
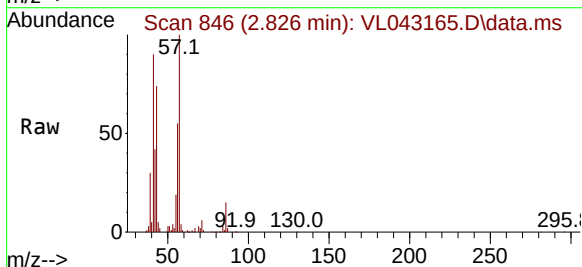
Instrument :
 MSVOA_1
 ClientSampleId :
 141-IA2

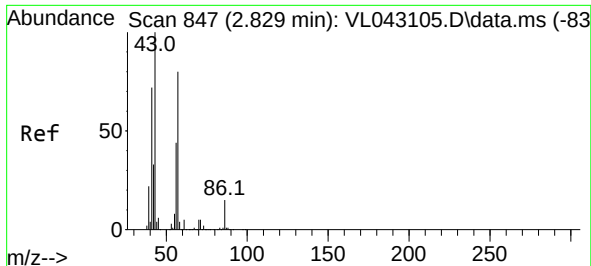
Tgt Ion:	43	Resp:	67063
Ion	Ratio	Lower	Upper
43	100		
86	3.1	6.2	9.2#
42	51.1	7.6	11.4#
44	2.3	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 0.932 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.013 min
 Lab File: VL043165.D
 Acq: 06 Nov 2025 13:50

Tgt Ion:	43	Resp:	35195
Ion	Ratio	Lower	Upper
43	100		
45	4.9	7.8	11.8#
61	1.5	7.0	10.6#
70	2.5	6.9	10.3#

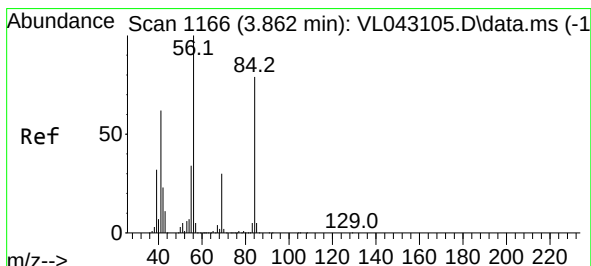
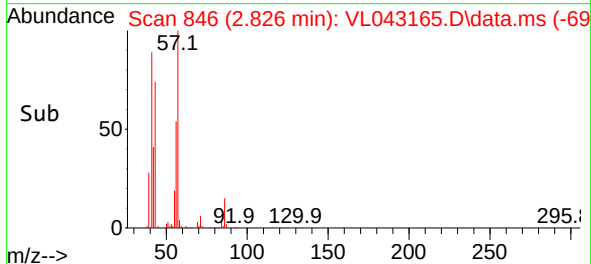
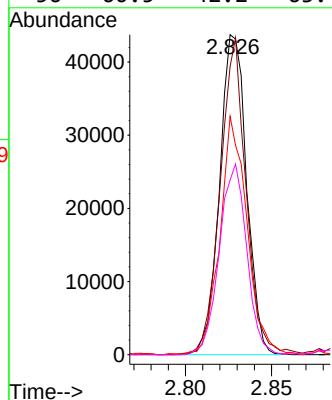
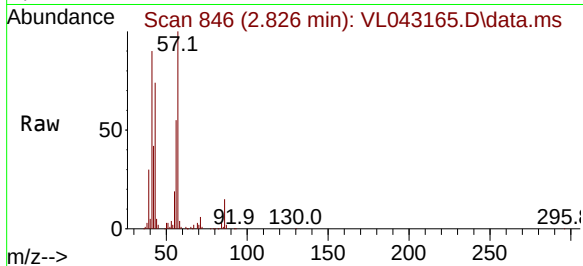




#26
Hexane
Concen: 2.744 ppbv
RT: 2.826 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

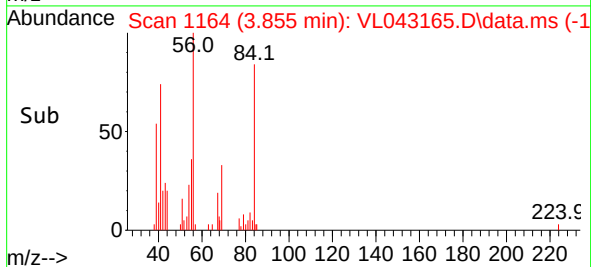
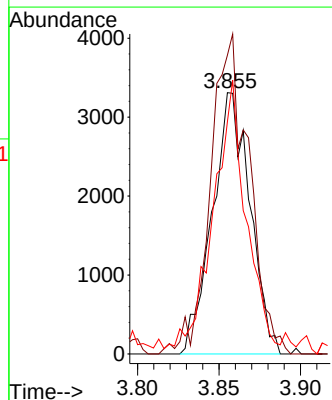
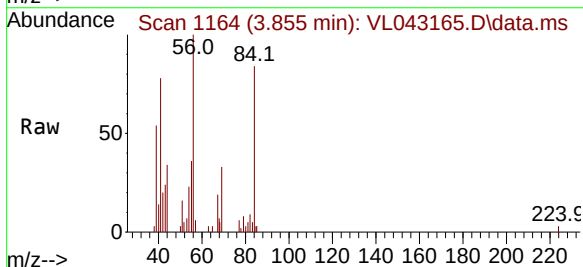
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

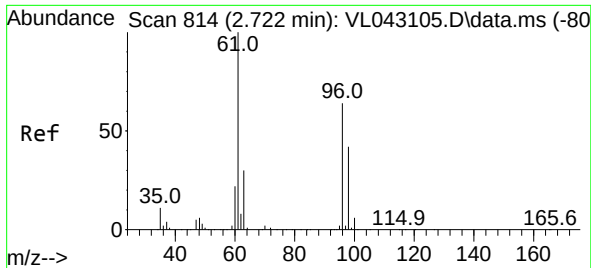
Tgt Ion: 57	Resp: 47767
Ion Ratio	Lower Upper
57 100	
41 95.1	71.4 107.0
43 75.9	178.5 267.7#
56 60.5	42.2 63.4



#30
Cyclohexane
Concen: 0.349 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 84	Resp: 5306
Ion Ratio	Lower Upper
84 100	
56 124.3	100.9 151.3
41 98.4	63.8 95.6#

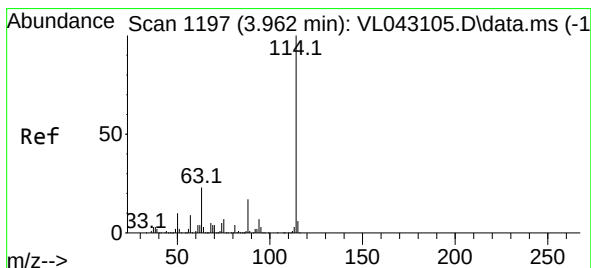
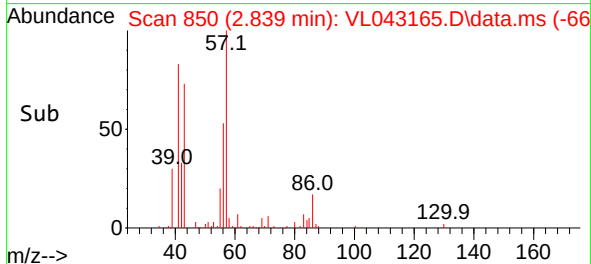
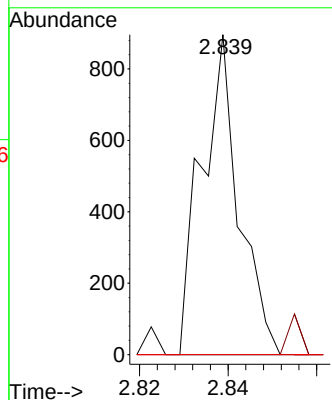
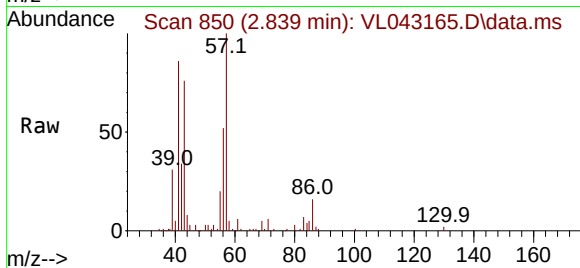




#31
 cis-1,2-Dichloroethene
 Concen: 0.032 ppbv
 RT: 2.839 min Scan# 814
 Delta R.T. 0.116 min
 Lab File: VL043165.D
 Acq: 06 Nov 2025 13:50

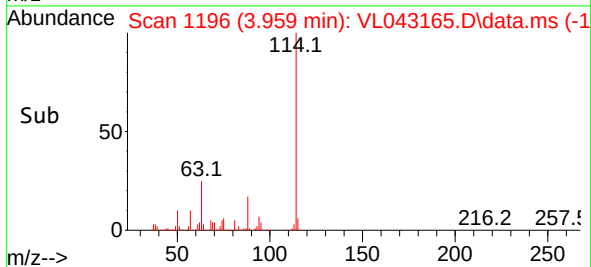
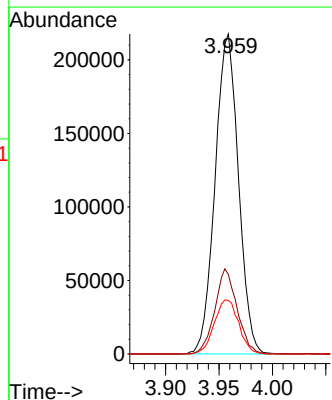
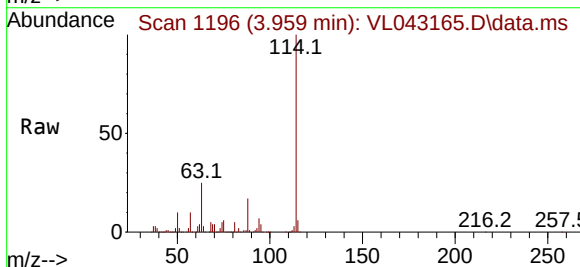
Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA2

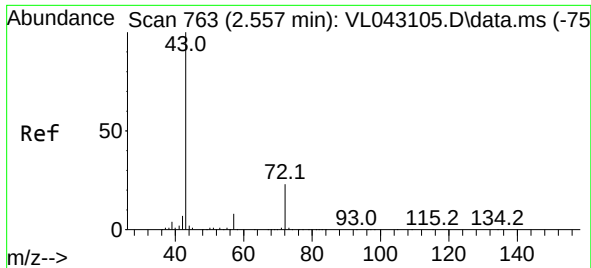
Tgt Ion: 61 Resp: 524
 Ion Ratio Lower Upper
 61 100
 96 0.0 51.0 76.6#
 98 0.0 33.5 50.3#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. -0.003 min
 Lab File: VL043165.D
 Acq: 06 Nov 2025 13:50

Tgt Ion: 114 Resp: 330913
 Ion Ratio Lower Upper
 114 100
 63 25.4 19.3 28.9
 88 17.7 13.9 20.9

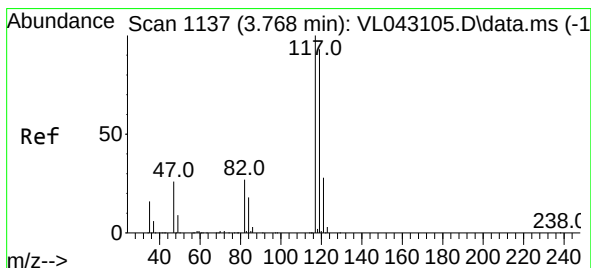
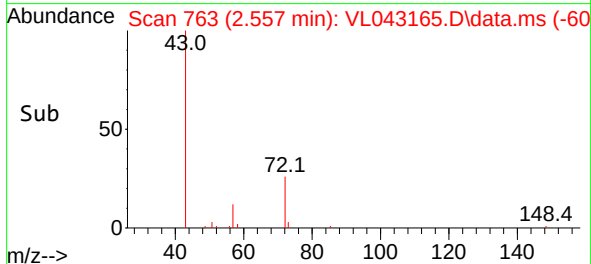
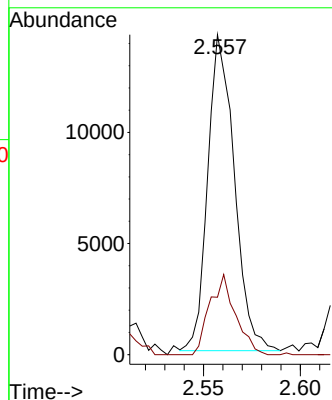
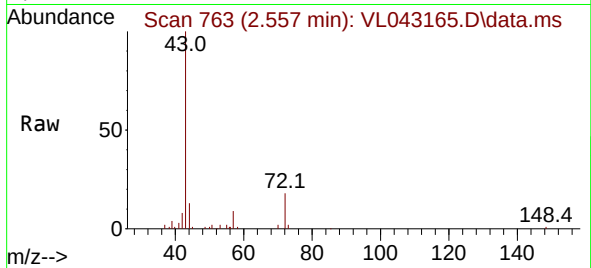




#34
2-Butanone
Concen: 0.612 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

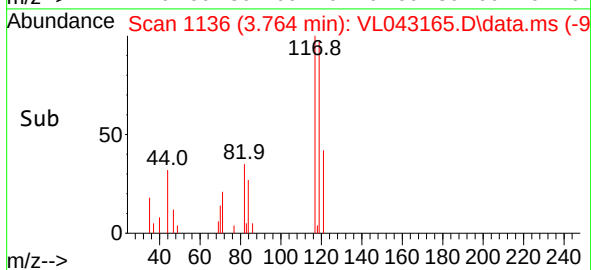
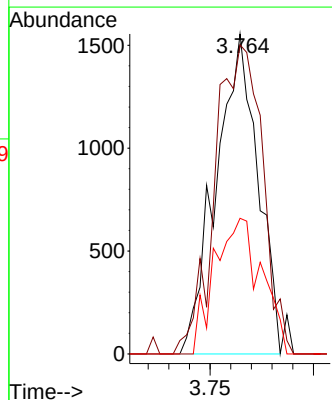
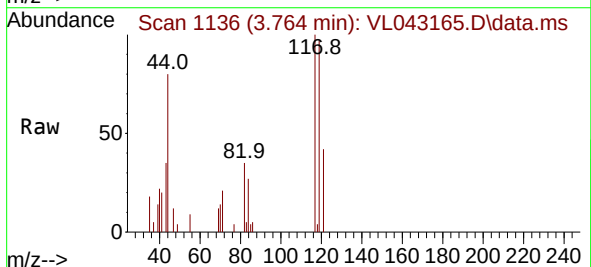
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

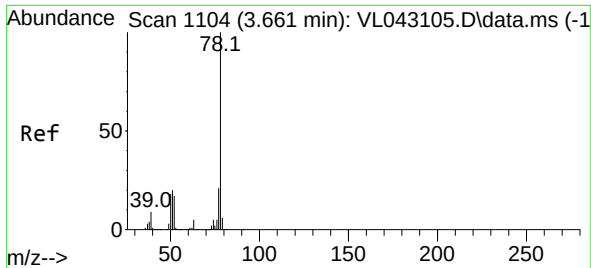
Tgt Ion: 43 Resp: 13607
Ion Ratio Lower Upper
43 100
72 24.5 18.4 27.6



#35
Carbon Tetrachloride
Concen: 0.092 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 117 Resp: 2179
Ion Ratio Lower Upper
117 100
119 92.4 74.1 111.1
121 42.4 22.2 33.2#

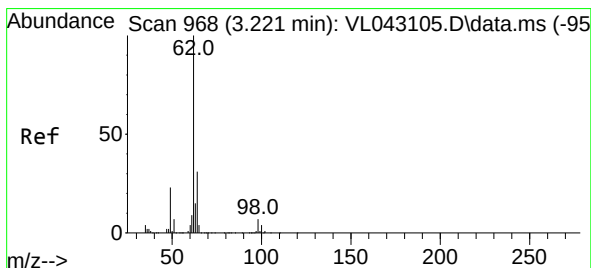
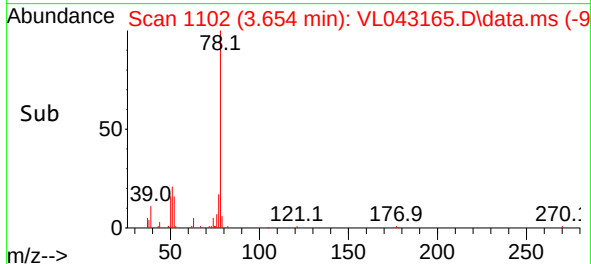
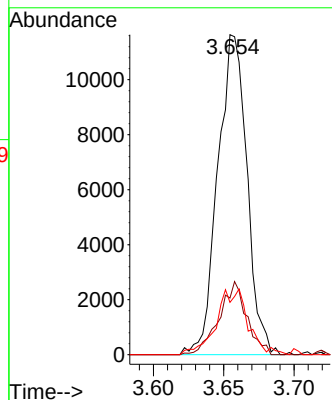
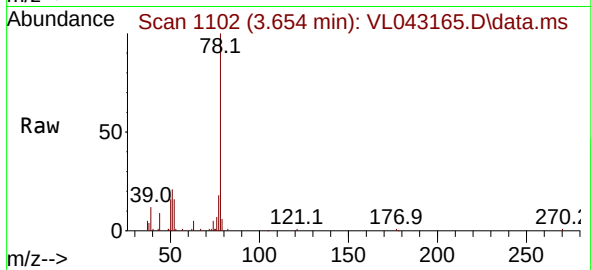




#36
Benzene
Concen: 0.540 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

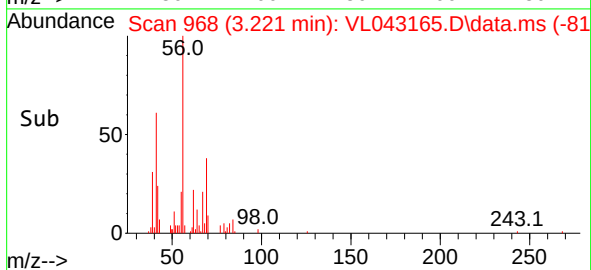
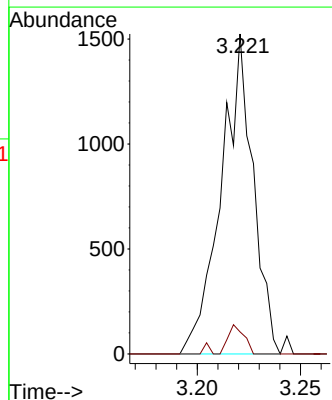
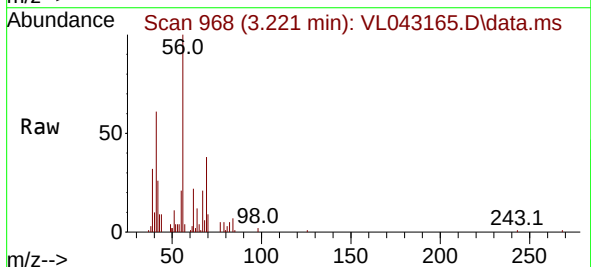
Instrument :
MSVOA_1
ClientSampleId :
141-IA2

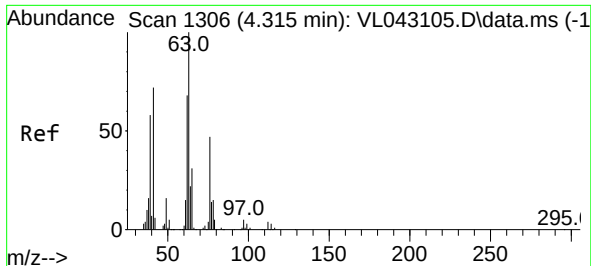
Tgt Ion: 78 Resp: 16826
Ion Ratio Lower Upper
78 100
77 17.7 17.0 25.6
50 16.3 14.6 22.0



#37
1,2-Dichloroethane
Concen: 0.091 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 62 Resp: 1636
Ion Ratio Lower Upper
62 100
98 5.2 5.8 8.6#





#39

1,2-Dichloropropane

Concen: 7.358 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.359 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_L

ClientSampleId :

141-IA2

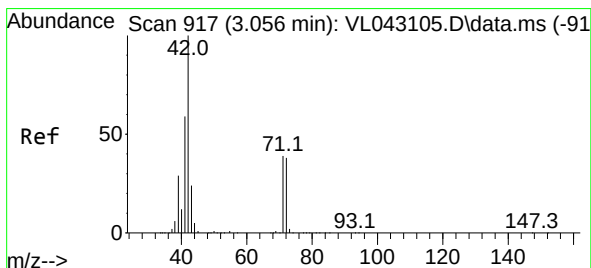
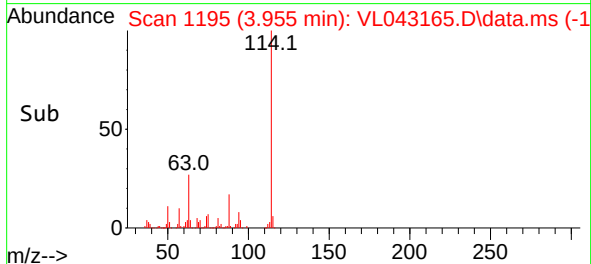
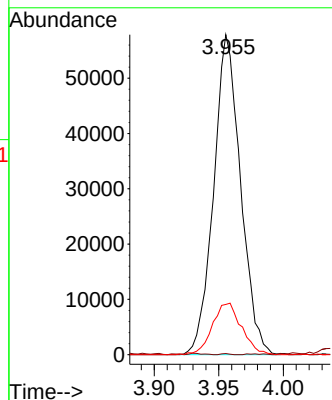
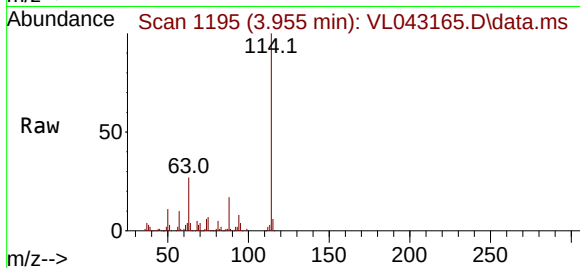
Tgt Ion: 63 Resp: 83837

Ion Ratio Lower Upper

63 100

41 0.1 58.0 87.0#

62 15.7 54.7 82.1#



#41

Tetrahydrofuran

Concen: 0.156 ppbv

RT: 3.062 min Scan# 919

Delta R.T. 0.006 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

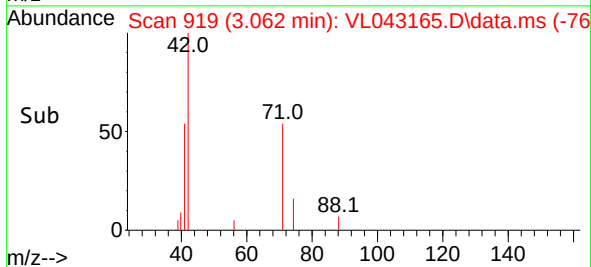
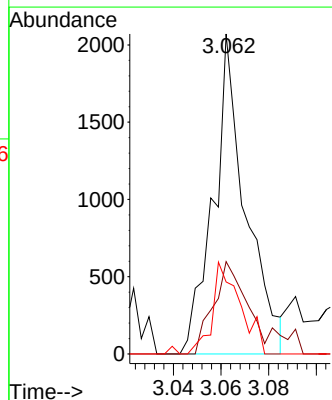
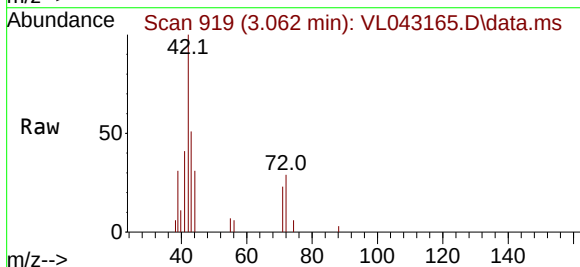
Tgt Ion: 42 Resp: 1943

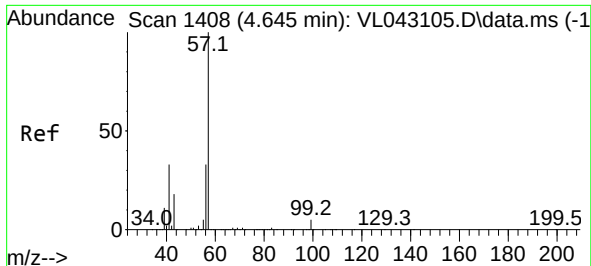
Ion Ratio Lower Upper

42 100

72 34.8 31.3 46.9

71 25.3 30.4 45.6#





#44

2,2,4-Trimethylpentane

Concen: 0.478 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.007 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_1

ClientSampleId :

141-IA2

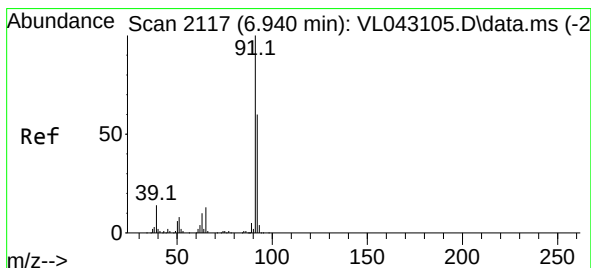
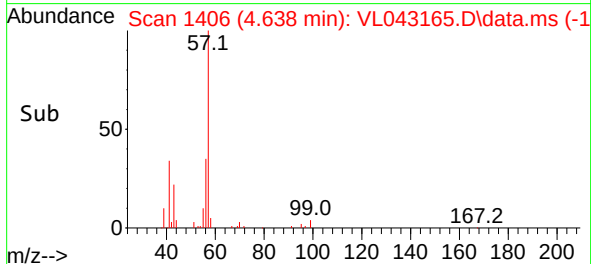
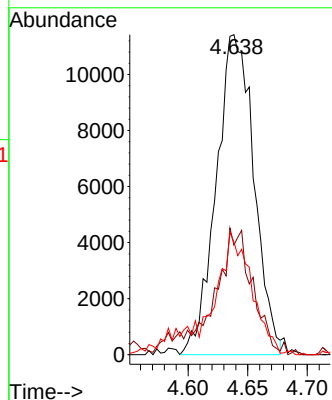
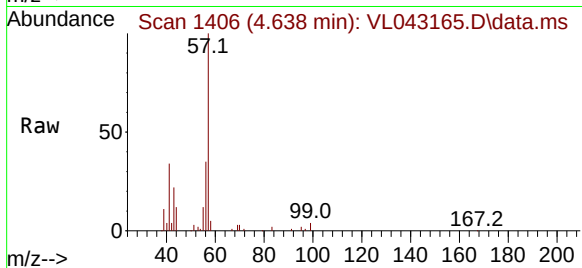
Tgt Ion: 57 Resp: 25124

Ion Ratio Lower Upper

57 100

41 42.1 26.3 39.5#

56 42.2 25.9 38.9#



#53

Toluene

Concen: 0.904 ppbv

RT: 6.933 min Scan# 2115

Delta R.T. -0.007 min

Lab File: VL043165.D

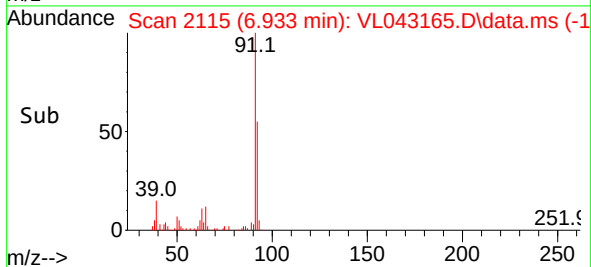
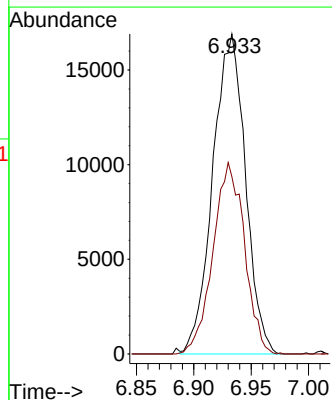
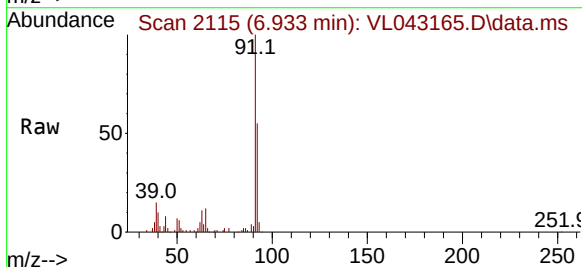
Acq: 06 Nov 2025 13:50

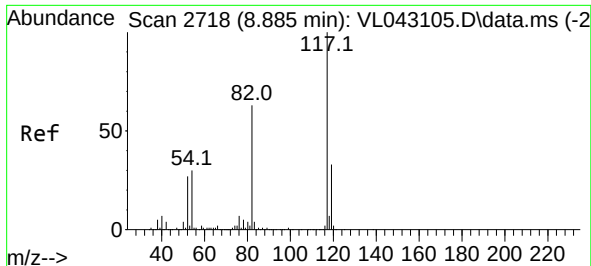
Tgt Ion: 91 Resp: 33445

Ion Ratio Lower Upper

91 100

92 57.6 48.8 73.2

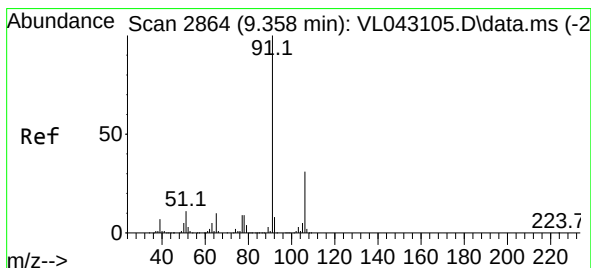
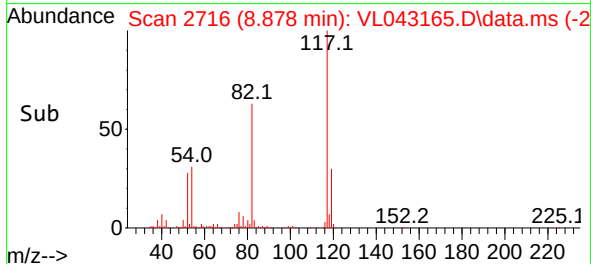
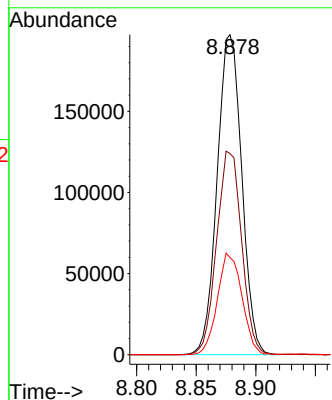
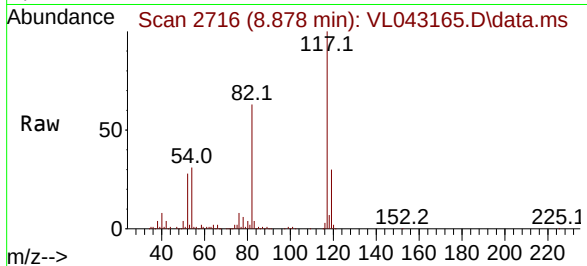




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

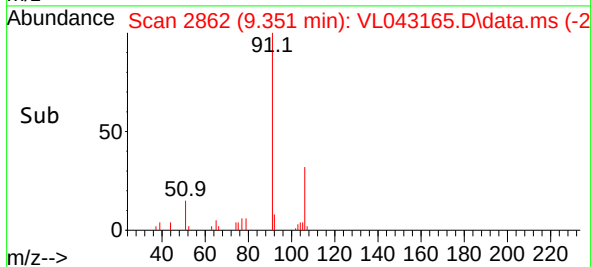
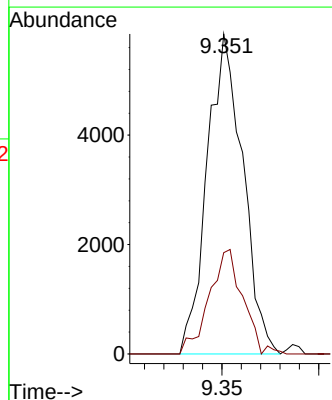
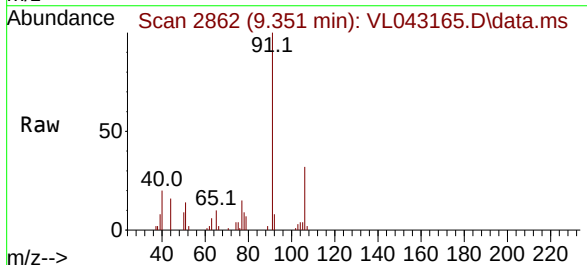
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

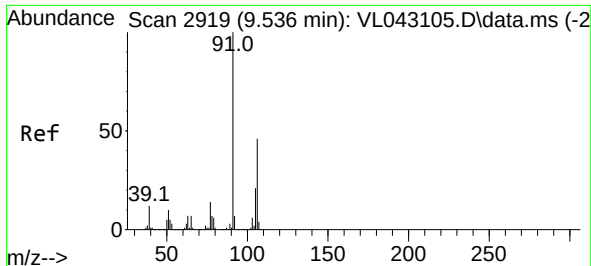
Tgt Ion:117 Resp: 283774
Ion Ratio Lower Upper
117 100
82 64.5 53.8 80.8
119 31.8 25.4 38.0



#58
Ethyl Benzene
Concen: 0.153 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 91 Resp: 7473
Ion Ratio Lower Upper
91 100
106 31.7 24.8 37.2





#59

m/p-Xylene

Concen: 0.437 ppbv

RT: 9.532 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_L

ClientSampleId :

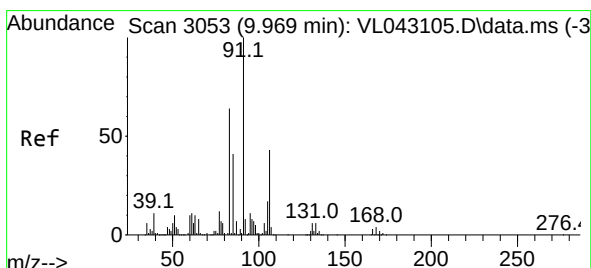
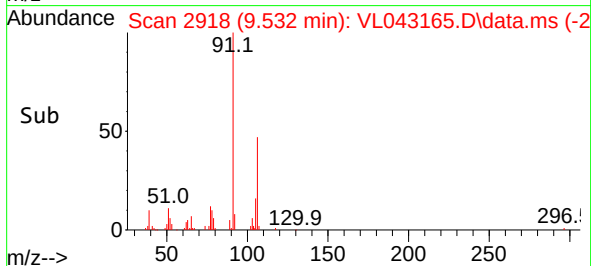
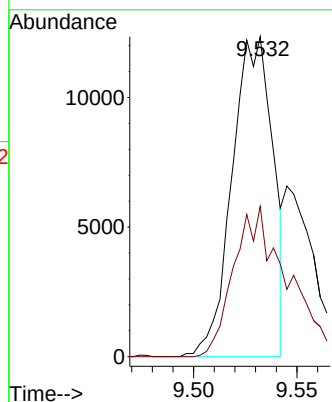
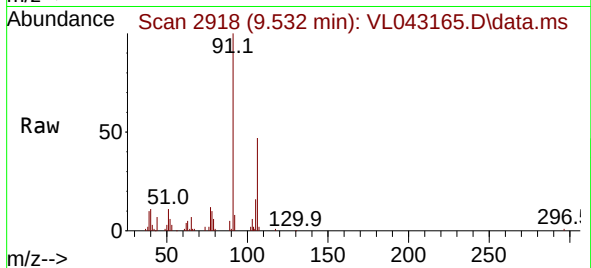
141-IA2

Tgt Ion: 91 Resp: 16991

Ion Ratio Lower Upper

91 100

106 61.3 38.0 57.0#



#60

o-Xylene

Concen: 0.249 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.010 min

Lab File: VL043165.D

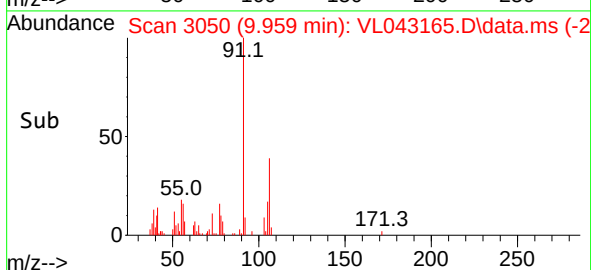
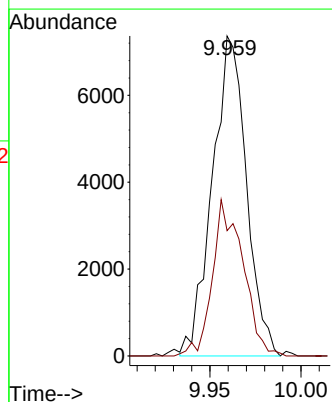
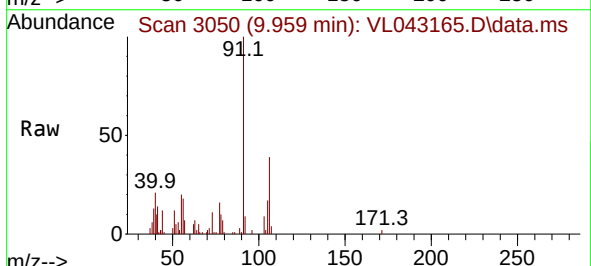
Acq: 06 Nov 2025 13:50

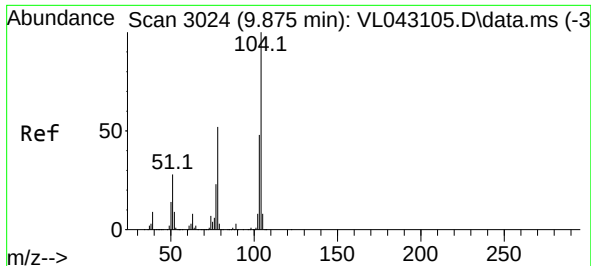
Tgt Ion: 91 Resp: 9569

Ion Ratio Lower Upper

91 100

106 43.8 21.9 65.8

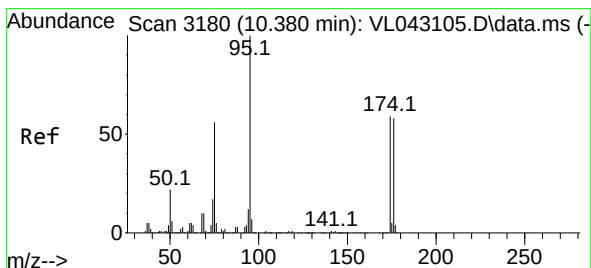
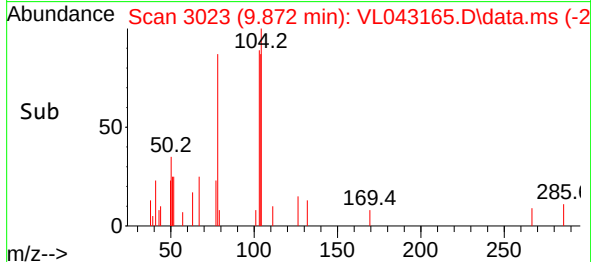
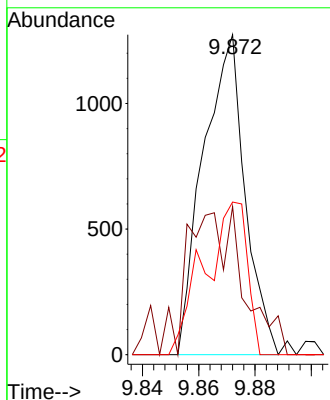
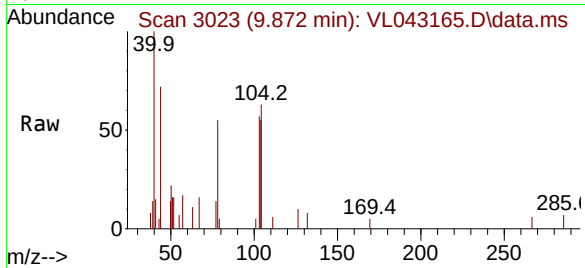




#61
Styrene
Concen: 0.075 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

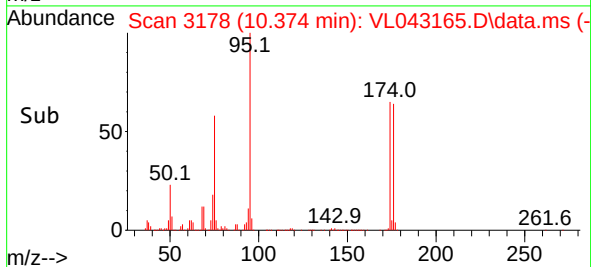
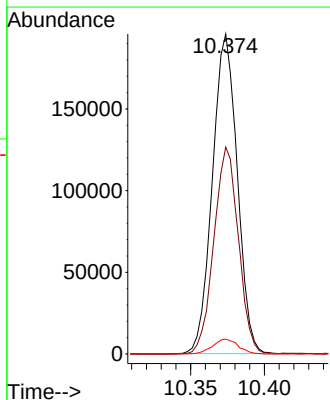
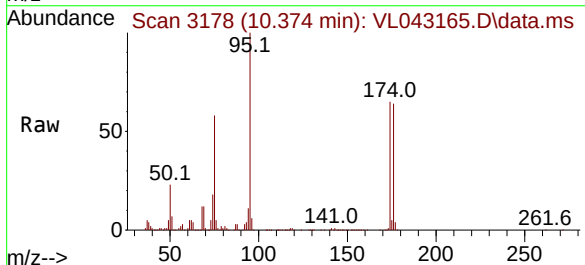
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

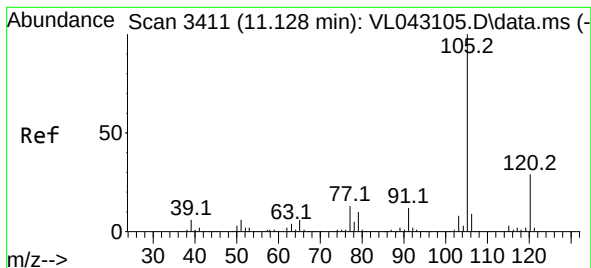
Tgt Ion:104 Resp: 1307
Ion Ratio Lower Upper
104 100
78 64.6 40.2 60.2#
103 49.0 36.9 55.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.388 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 95 Resp: 229122
Ion Ratio Lower Upper
95 100
174 64.0 48.3 72.5
175 4.8 3.8 5.8

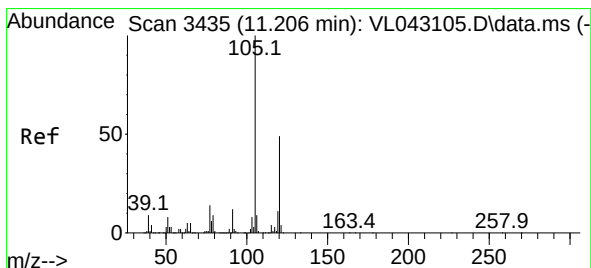
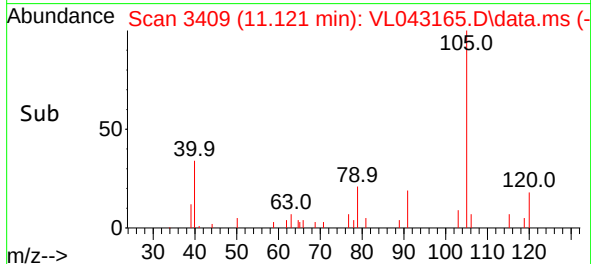
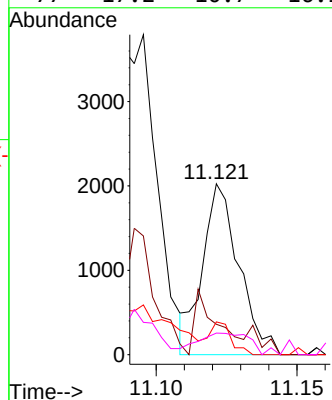
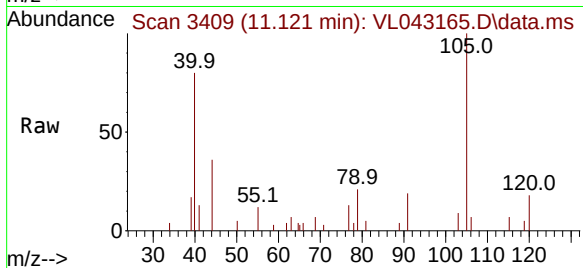




#72
4-Ethyltoluene
Concen: 0.039 ppbv
RT: 11.121 min Scan# 3411
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

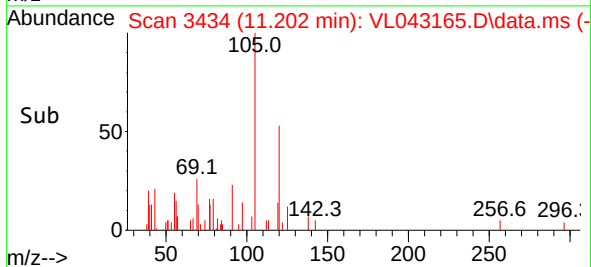
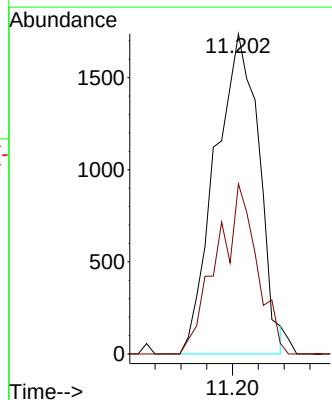
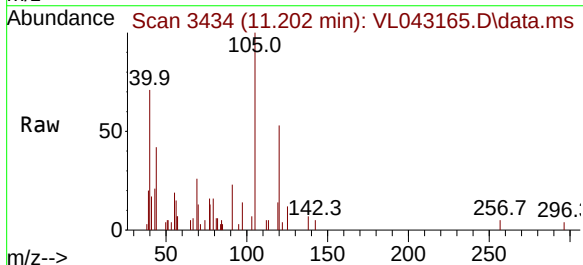
Instrument :
MSVOA_L
ClientSampleId :
141-IA2

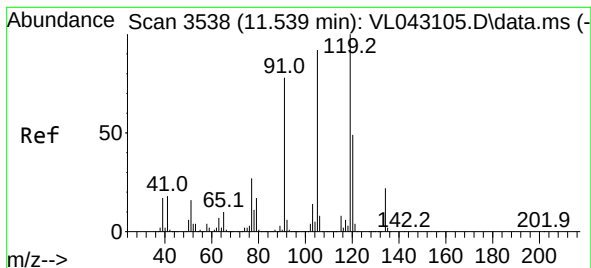
Tgt Ion:105 Resp: 1824
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.4#
91 0.0 10.0 15.0#
77 17.2 10.7 16.1#



#73
1,3,5-Trimethylbenzene
Concen: 0.053 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion:105 Resp: 2045
Ion Ratio Lower Upper
105 100
120 53.1 39.0 58.6





#74

1,2,4-Trimethylbenzene

Concen: 0.151 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.007 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_1

ClientSampleId :

141-IA2

Tgt Ion:105 Resp: 6570

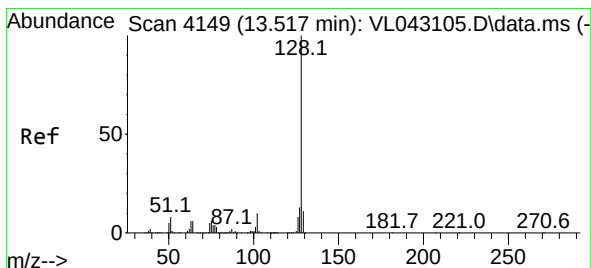
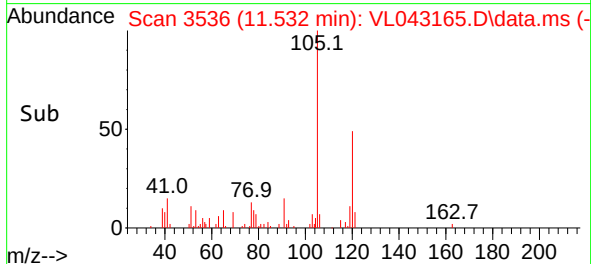
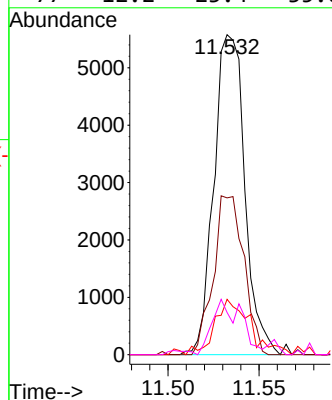
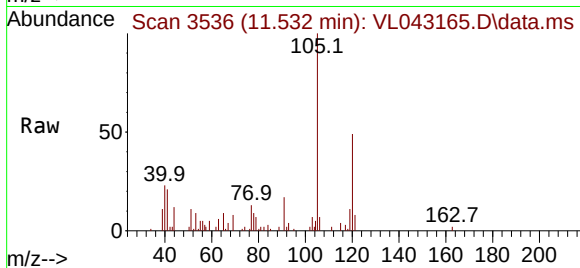
Ion Ratio Lower Upper

105 100

120 49.0 42.8 64.2

91 16.1 68.3 102.5#

77 12.2 23.4 35.0#



#79

Naphthalene

Concen: 0.269 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

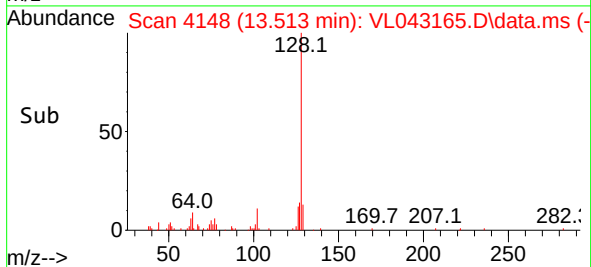
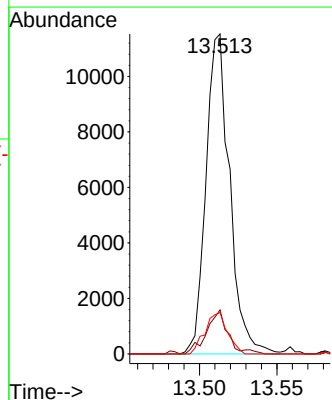
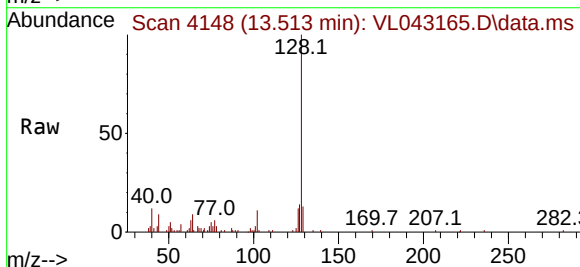
Tgt Ion:128 Resp: 12262

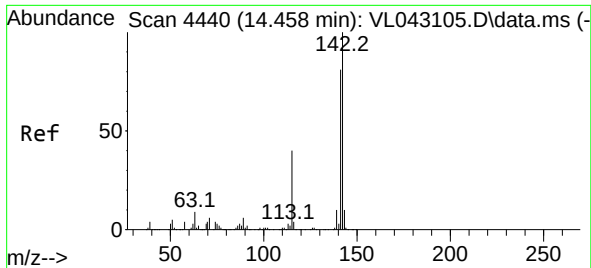
Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

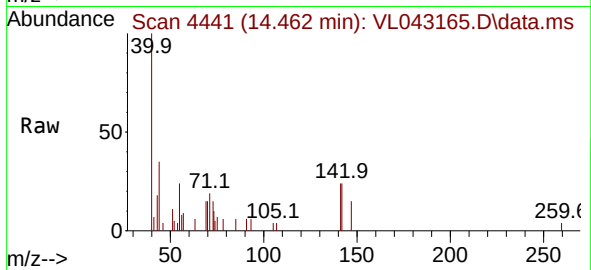
129 13.0 9.1 13.7



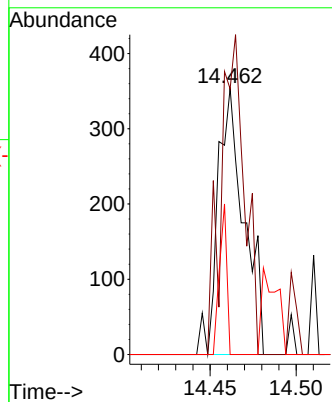
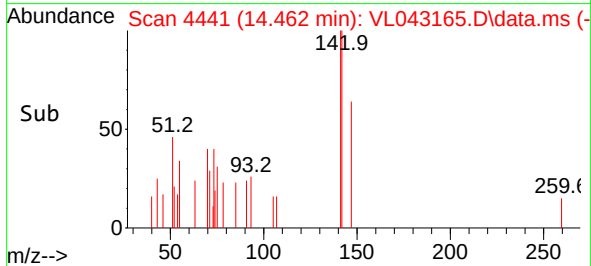


#80
Naphthalene, 2-methyl-
Concen: 0.032 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion:142 Resp: 375
Ion Ratio Lower Upper
142 100
141 107.7 64.6 97.0#
115 4.5 30.2 45.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043172.D
 Acq On : 06 Nov 2025 17:35
 Operator : SY/MD
 Sample : Q3557-02 DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1DL

Quant Time: Nov 07 00:25:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

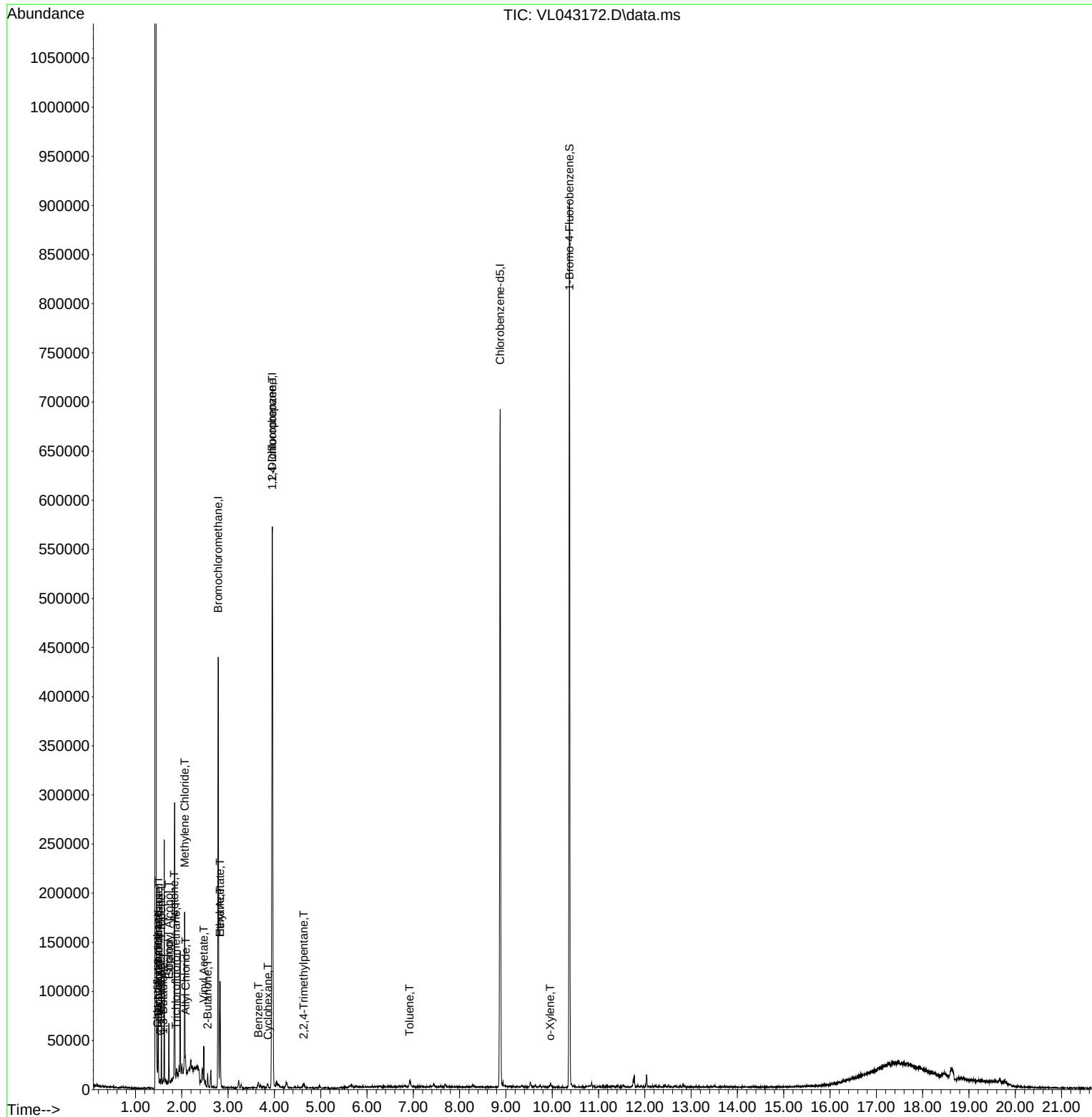
Internal Standards						
1) Bromochloromethane	2.787	49	118952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	326674	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	276195	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	218383	10.173	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	6052	0.358	ppbv #	87
3) Chlorodifluoromethane	1.473	51	3168	0.173	ppbv #	85
4) Chloromethane	1.534	50	786	0.117	ppbv #	88
8) Dichlorotetrafluoroethane	1.499	85	6052	0.443	ppbv #	21
9) Propene	1.560	41	11536	1.422	ppbv	96
11) Trichlorofluoromethane	1.874	101	1381	0.083	ppbv #	62
13) Ethanol	1.722	45	18986	6.325	ppbv	94
15) Acetone	1.835	43	46549	2.903	ppbv	97
16) 1,3-Butadiene	1.599	39	606	0.079	ppbv #	13
19) Isopropyl Alcohol	1.722	45	18986	1.901	ppbv	99
20) Methylene Chloride	2.062	84	23578	3.720	ppbv	90
21) Allyl Chloride	2.081	41	1172	0.099	ppbv #	1
23) Vinyl Acetate	2.476	43	11271	0.480	ppbv #	49
25) Ethyl Acetate	2.826	43	17000	0.428	ppbv #	80
26) Hexane	2.826	57	23868	1.303	ppbv #	40
30) Cyclohexane	3.862	84	590	0.037	ppbv #	17
34) 2-Butanone	2.557	43	8478	0.386	ppbv	94
36) Benzene	3.654	78	2816	0.092	ppbv #	78
39) 1,2-Dichloropropane	3.952	63	84302	7.495	ppbv #	25
44) 2,2,4-Trimethylpentane	4.632	57	2333	0.045	ppbv #	13
53) Toluene	6.920	91	3828	0.105	ppbv #	77
60) o-Xylene	9.956	91	1125	0.030	ppbv	93

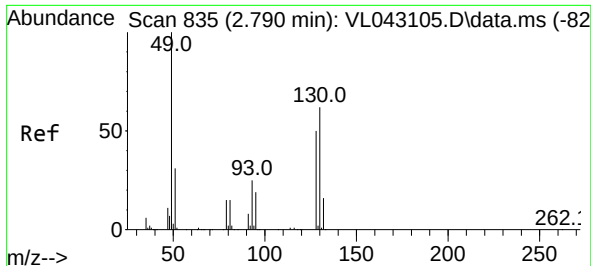
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043172.D
Acq On : 06 Nov 2025 17:35
Operator : SY/MD
Sample : Q3557-02 DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

Quant Time: Nov 07 00:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

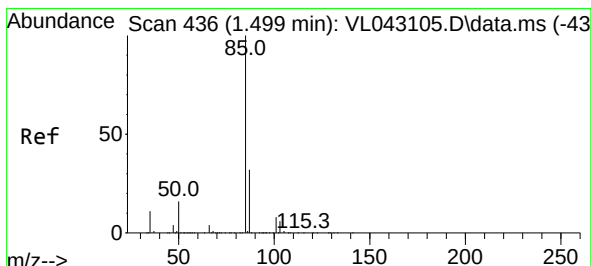
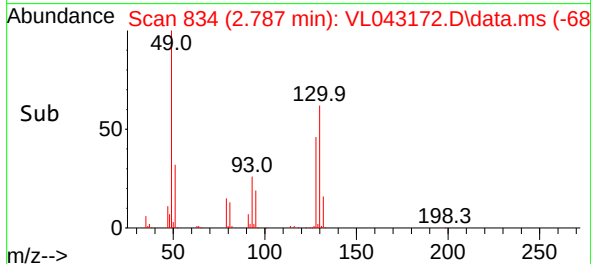
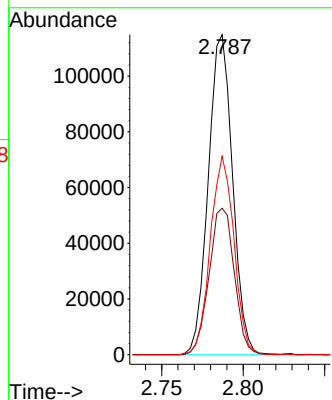
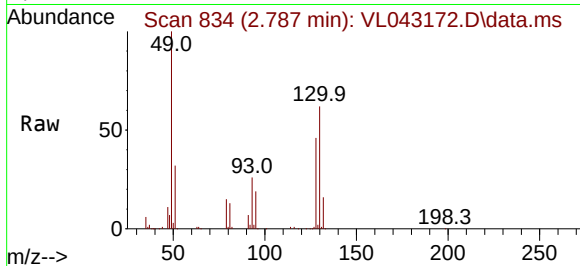




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

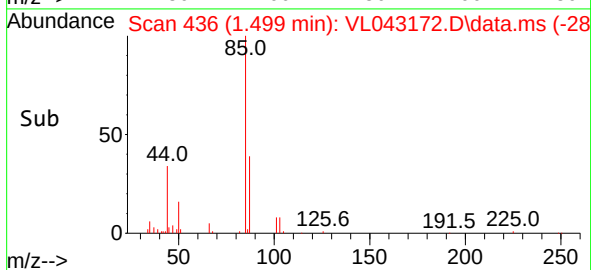
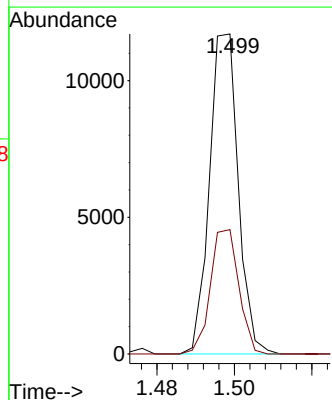
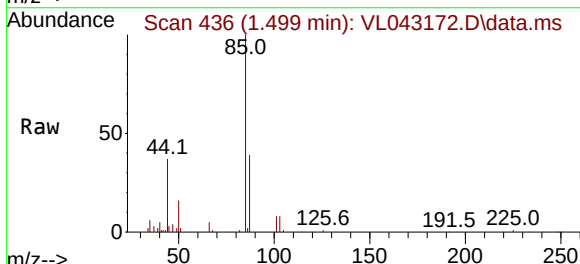
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

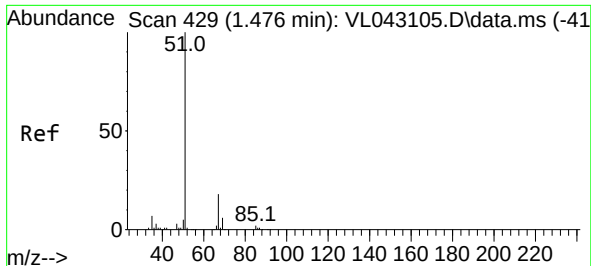
Tgt Ion: 49 Resp: 118952
Ion Ratio Lower Upper
49 100
128 47.5 24.4 73.4
130 60.7 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.358 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 85 Resp: 6052
Ion Ratio Lower Upper
85 100
87 38.8 25.3 37.9

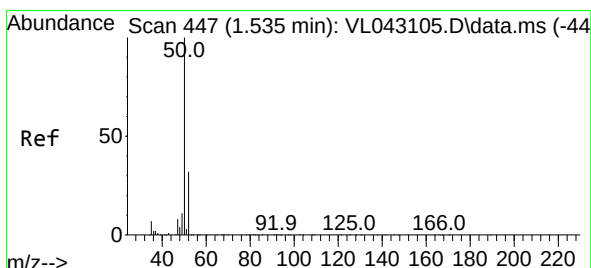
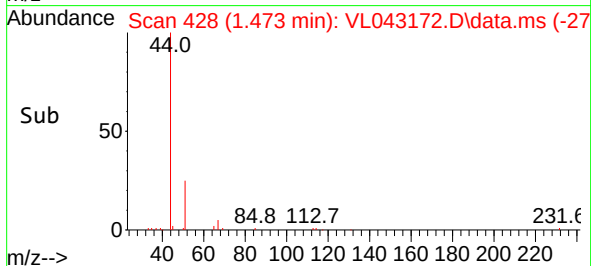
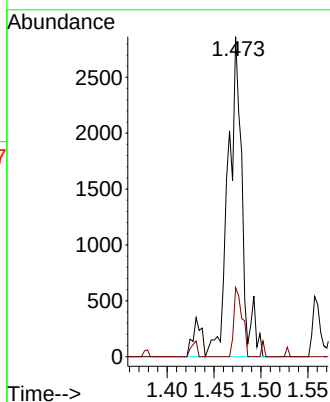
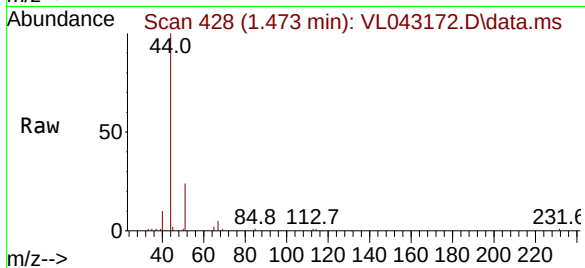




#3
Chlorodifluoromethane
Concen: 0.173 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

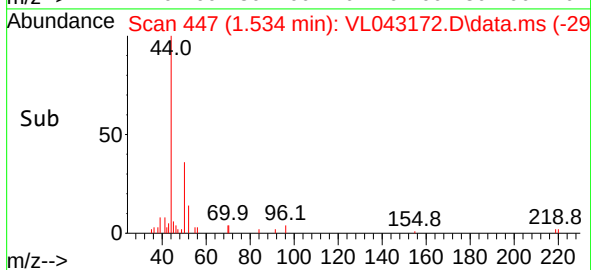
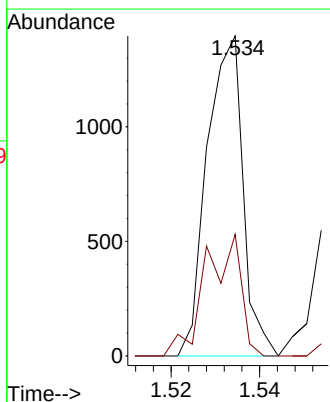
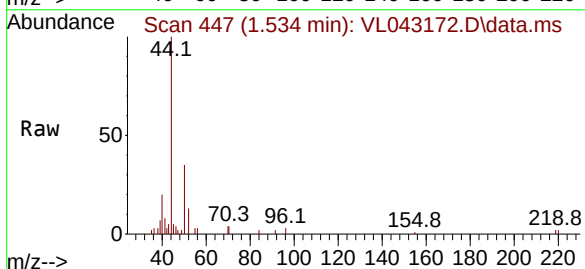
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

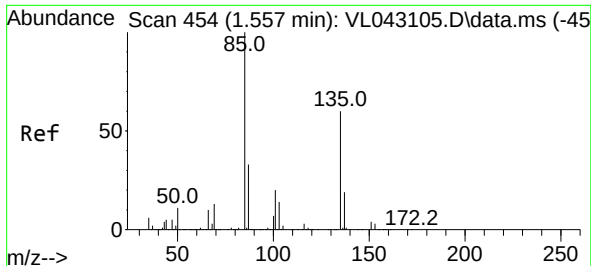
Tgt Ion: 51 Resp: 3168
Ion Ratio Lower Upper
51 100
67 12.2 15.1 22.7#



#4
Chloromethane
Concen: 0.117 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 50 Resp: 786
Ion Ratio Lower Upper
50 100
52 38.0 25.2 37.8#

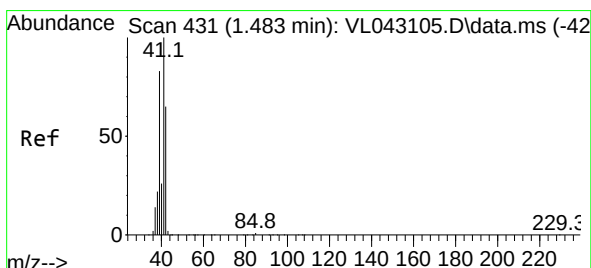
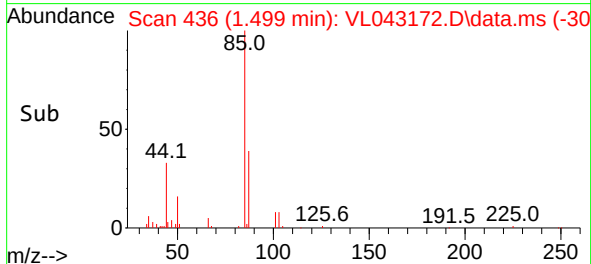
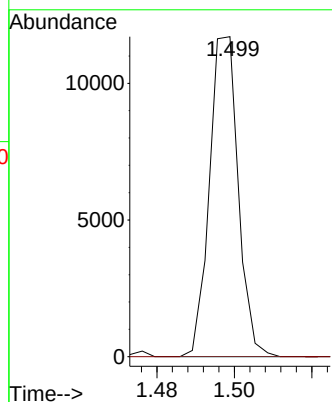
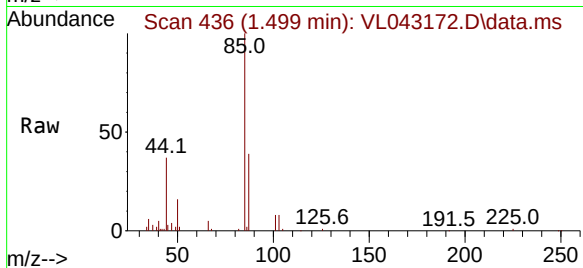




#8
Dichlorotetrafluoroethane
Concen: 0.443 ppbv
RT: 1.499 min Scan# 41
Delta R.T. -0.058 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

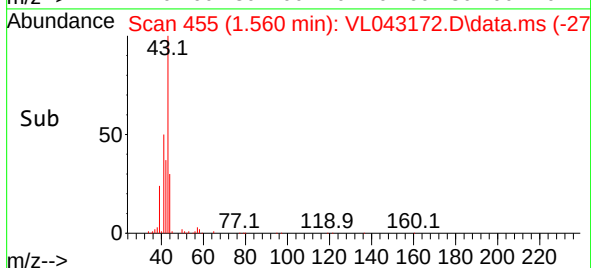
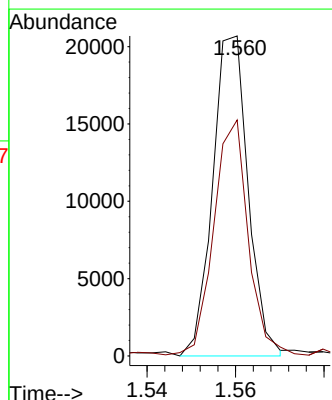
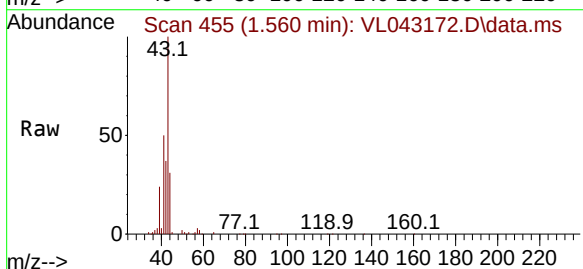
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

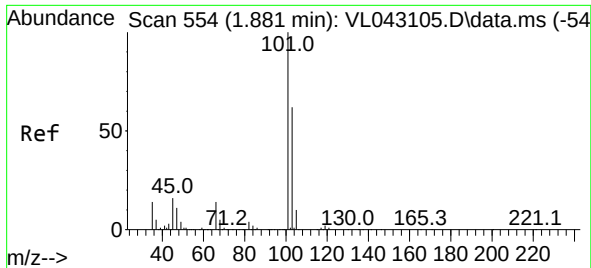
Tgt Ion: 85 Resp: 6052
Ion Ratio Lower Upper
85 100
135 0.5 48.2 72.4#



#9
Propene
Concen: 1.422 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 41 Resp: 11536
Ion Ratio Lower Upper
41 100
42 72.3 55.1 82.7

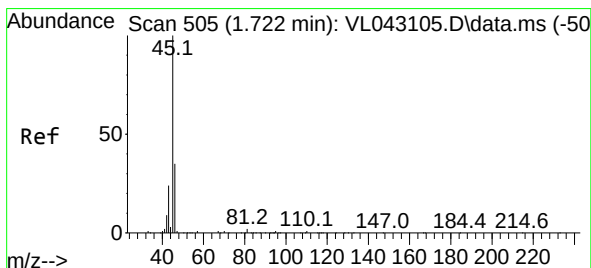
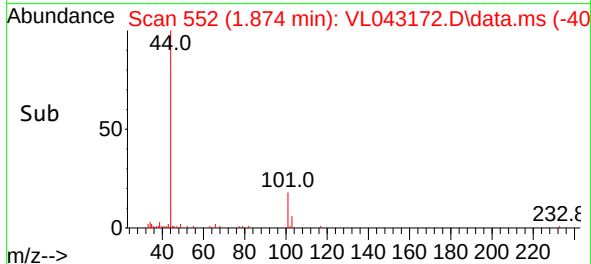
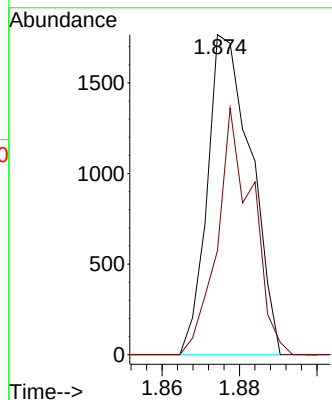
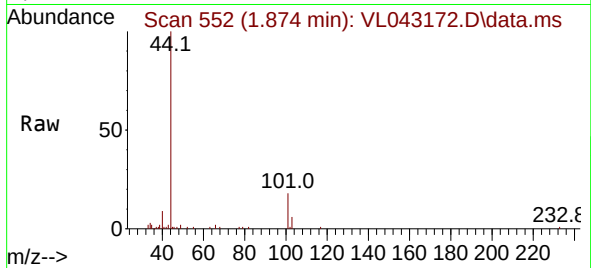




#11
 Trichlorofluoromethane
 Concen: 0.083 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. -0.007 min
 Lab File: VL043172.D
 Acq: 06 Nov 2025 17:35

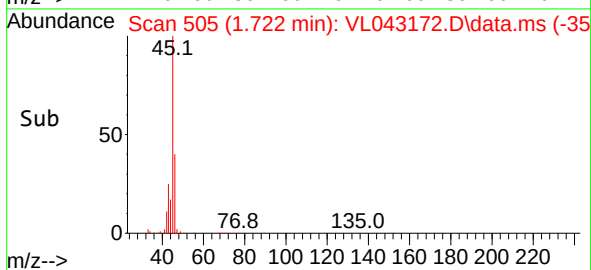
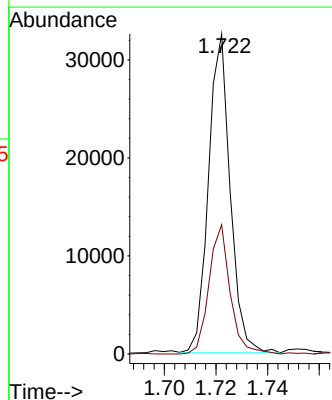
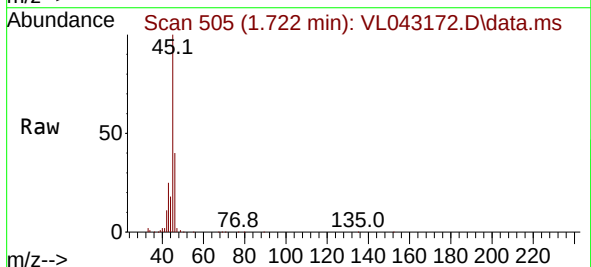
Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1DL

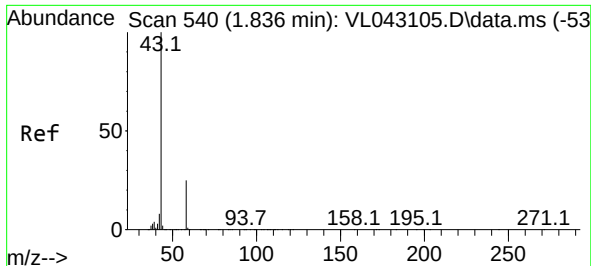
Tgt Ion:101 Resp: 1381
 Ion Ratio Lower Upper
 101 100
 103 32.5 49.3 73.9#



#13
 Ethanol
 Concen: 6.325 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL043172.D
 Acq: 06 Nov 2025 17:35

Tgt Ion: 45 Resp: 18986
 Ion Ratio Lower Upper
 45 100
 46 40.1 14.7 58.9

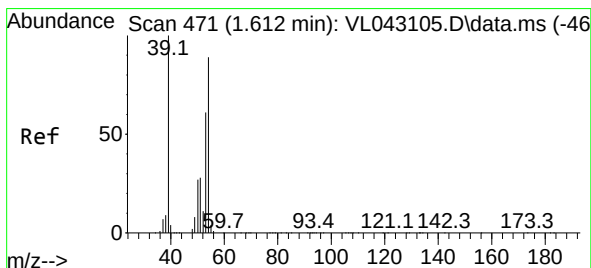
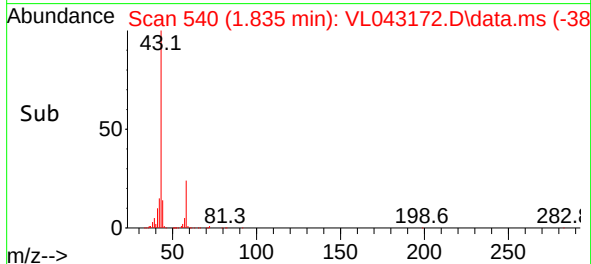
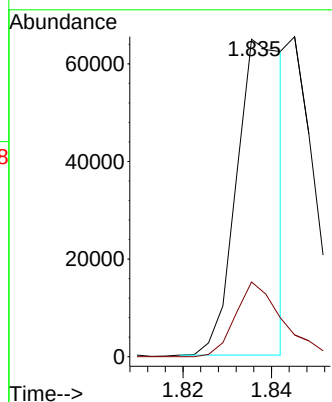
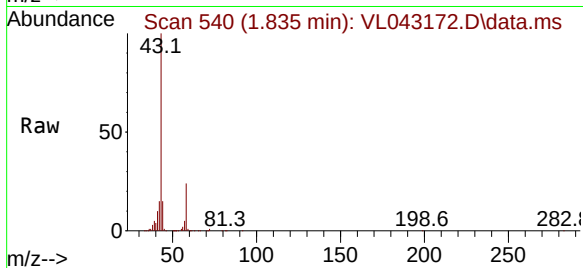




#15
Acetone
Concen: 2.903 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

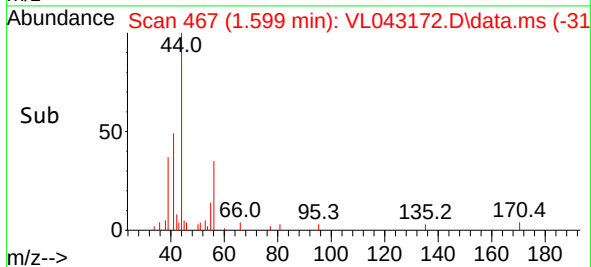
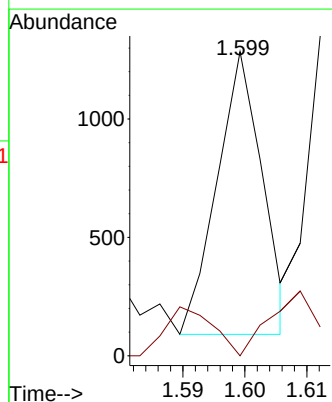
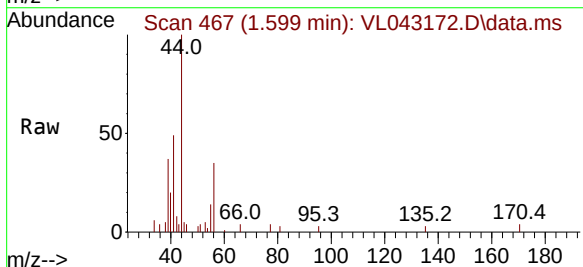
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

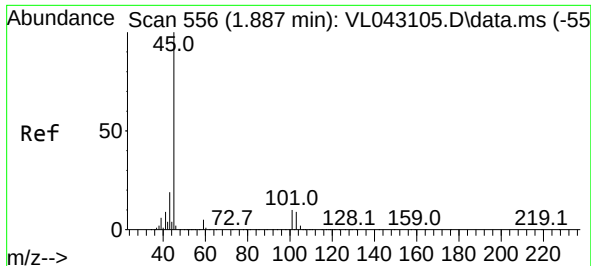
Tgt Ion: 43 Resp: 46549
Ion Ratio Lower Upper
43 100
58 24.3 20.8 31.2



#16
1,3-Butadiene
Concen: 0.079 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.013 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 39 Resp: 606
Ion Ratio Lower Upper
39 100
54 0.0 59.0 88.4#

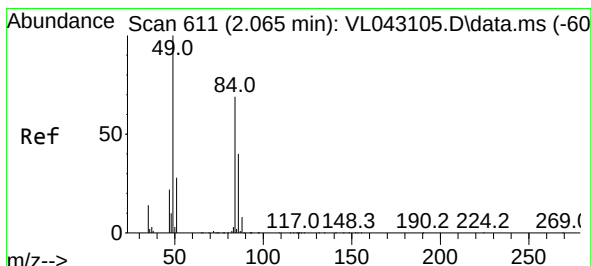
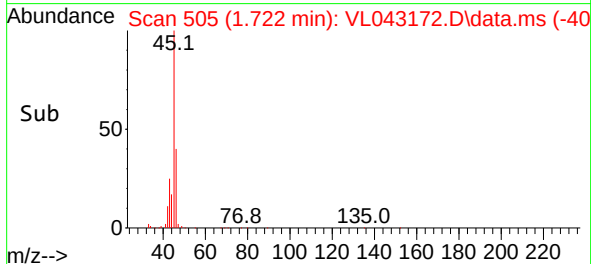
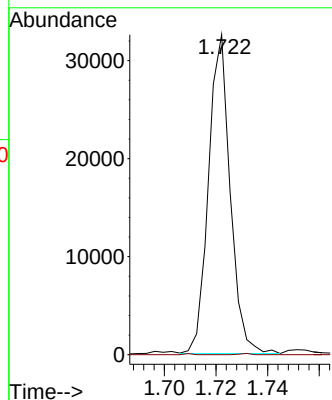
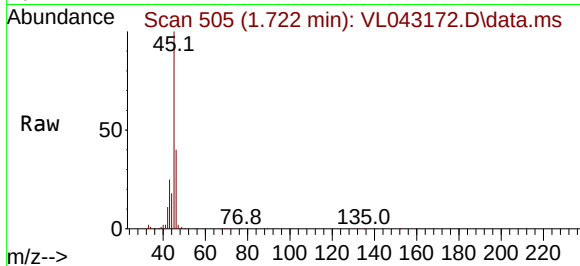




#19
Isopropyl Alcohol
Concen: 1.901 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.165 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

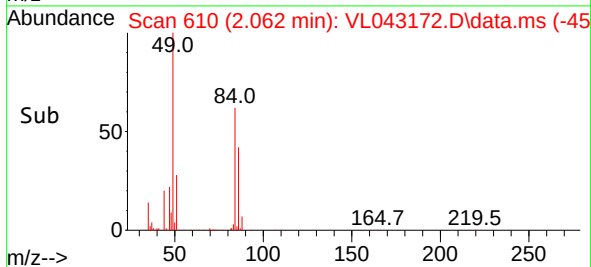
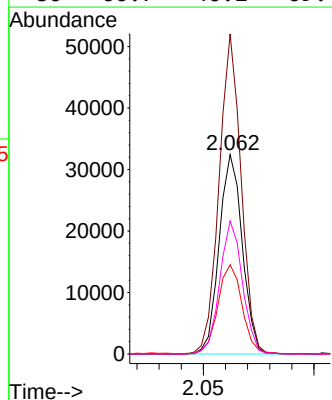
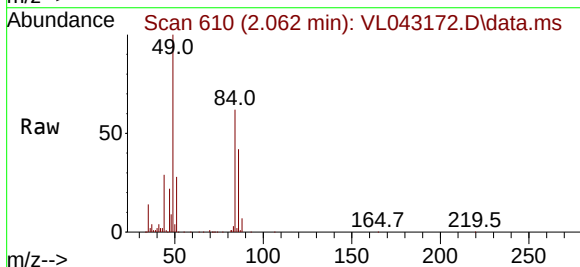
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

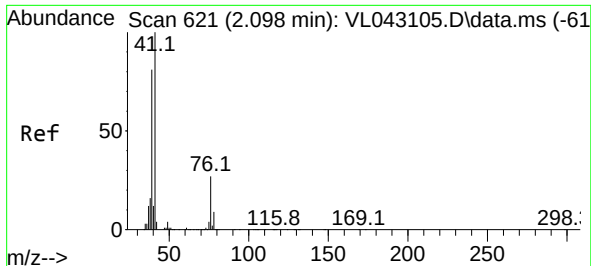
Tgt Ion: 45 Resp: 18986
Ion Ratio Lower Upper
45 100
58 39.9 31.3 46.9



#20
Methylene Chloride
Concen: 3.720 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 84 Resp: 23578
Ion Ratio Lower Upper
84 100
49 160.5 116.6 175.0
51 44.8 34.8 52.2
86 66.7 46.2 69.4

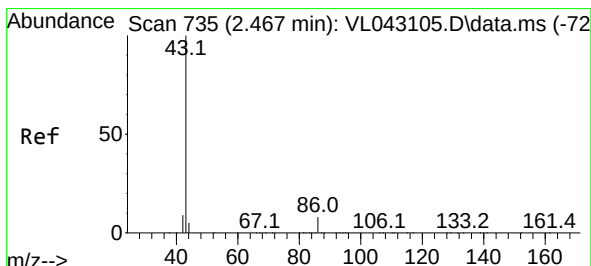
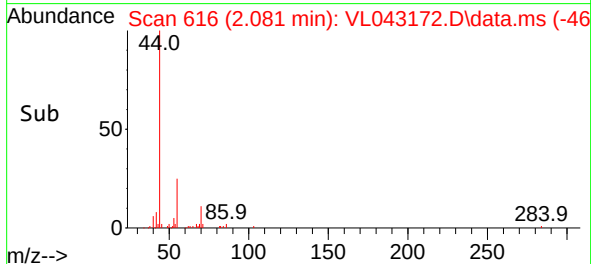
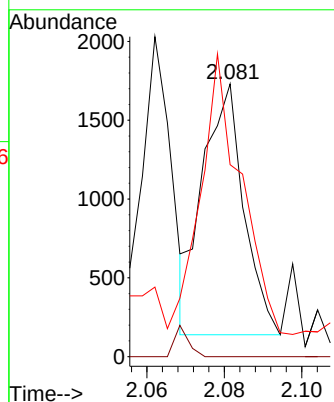
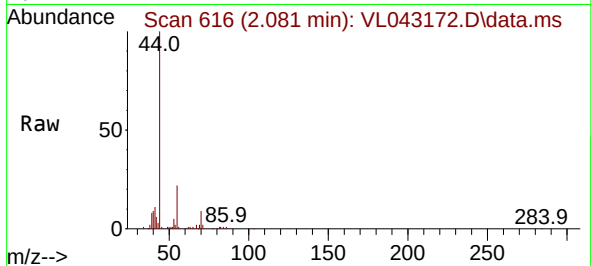




#21
 Allyl Chloride
 Concen: 0.099 ppbv
 RT: 2.081 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL043172.D
 Acq: 06 Nov 2025 17:35

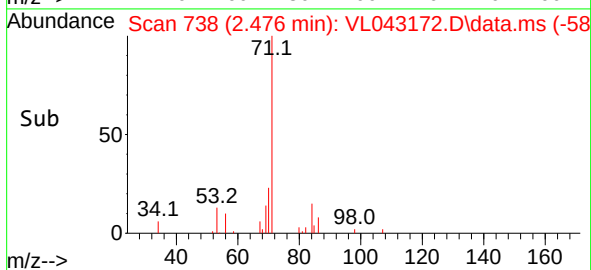
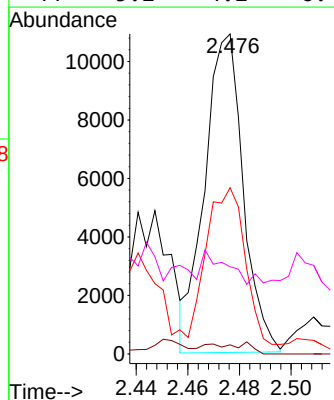
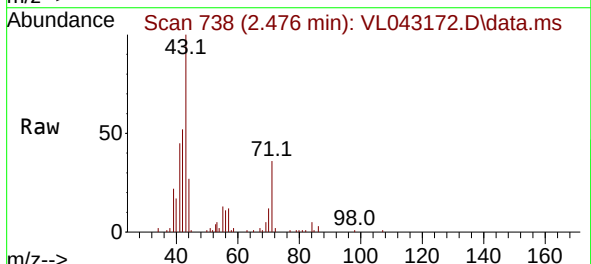
Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1DL

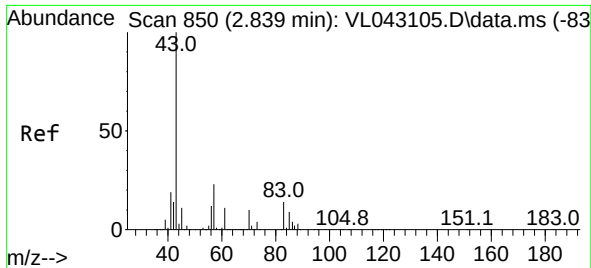
Tgt Ion: 41 Resp: 1172
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.5 32.3#
 39 202.5 60.8 91.2#



#23
 Vinyl Acetate
 Concen: 0.480 ppbv
 RT: 2.476 min Scan# 738
 Delta R.T. 0.010 min
 Lab File: VL043172.D
 Acq: 06 Nov 2025 17:35

Tgt Ion: 43 Resp: 11271
 Ion Ratio Lower Upper
 43 100
 86 2.9 6.2 9.2#
 42 49.7 7.6 11.4#
 44 5.2 4.2 6.4

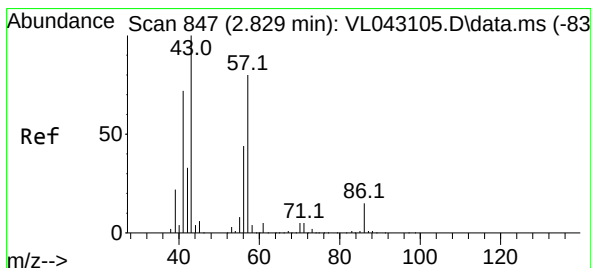
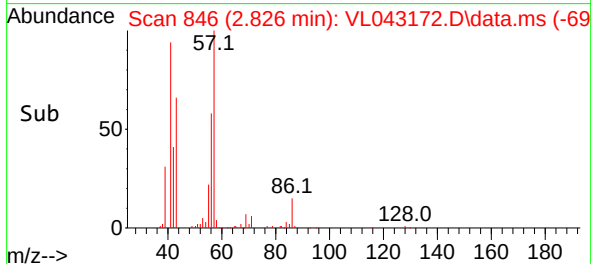
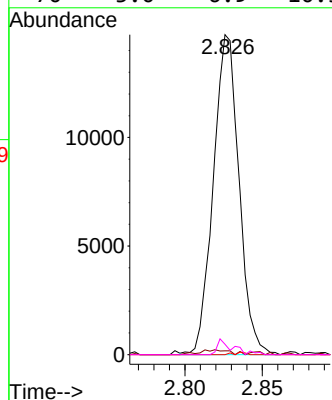
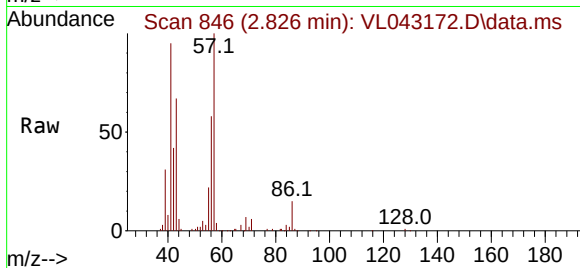




#25
Ethyl Acetate
Concen: 0.428 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.013 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

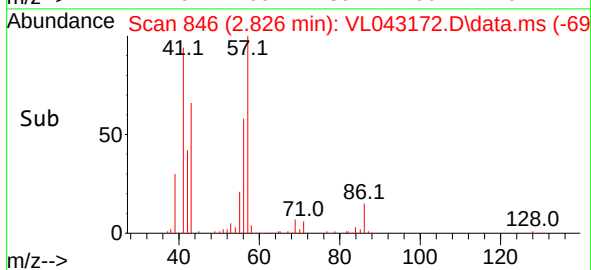
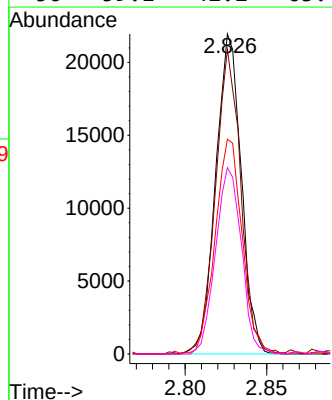
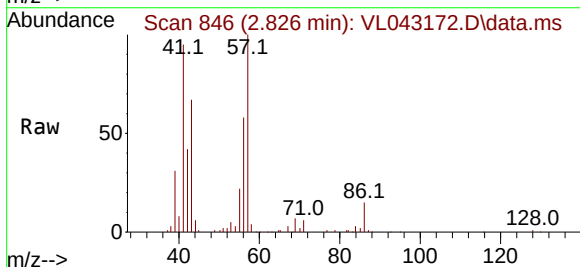
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

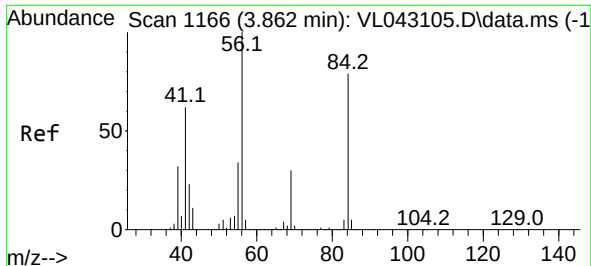
Tgt Ion: 43	Resp: 17000
Ion Ratio	Lower Upper
43 100	
45 2.3	7.8 11.8#
61 0.0	7.0 10.6#
70 3.0	6.9 10.3#



#26
Hexane
Concen: 1.303 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 57	Resp: 23868
Ion Ratio	Lower Upper
57 100	
41 95.0	71.4 107.0
43 71.9	178.5 267.7#
56 59.1	42.2 63.4

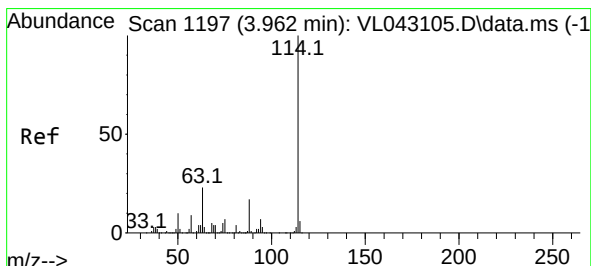
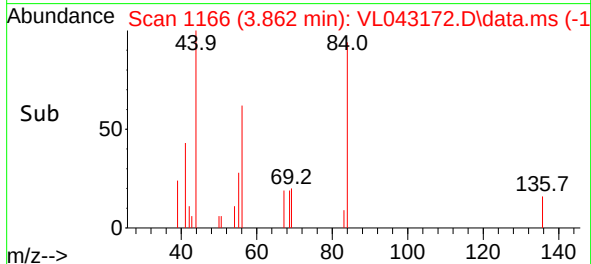
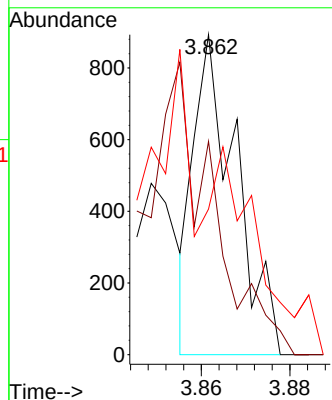
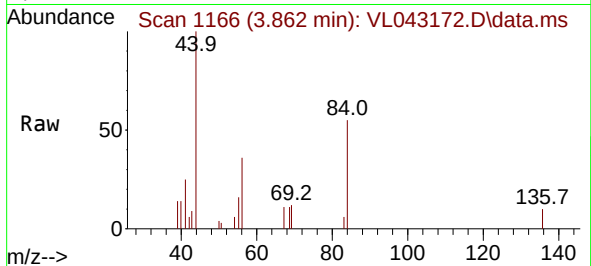




#30
Cyclohexane
Concen: 0.037 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

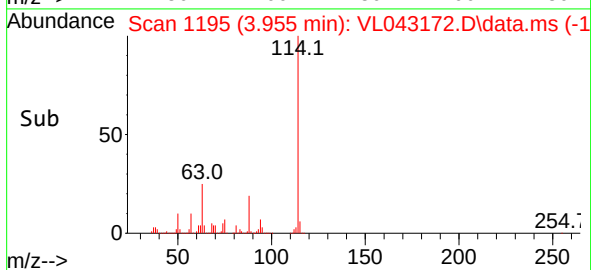
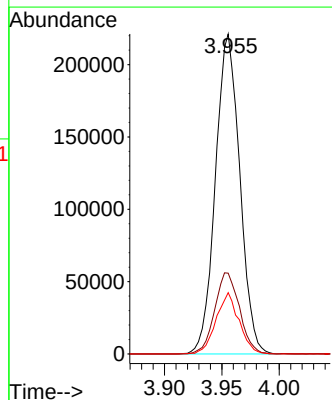
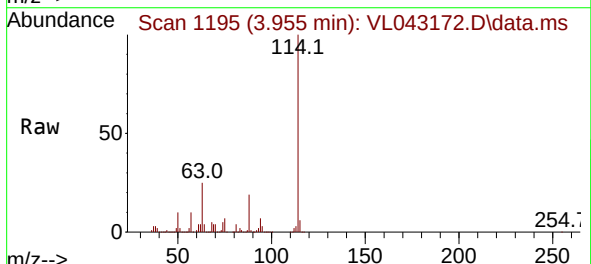
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

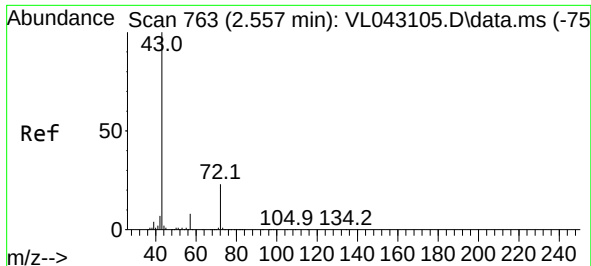
Tgt Ion: 84 Resp: 590
Ion Ratio Lower Upper
84 100
56 158.3 100.9 151.3#
41 228.6 63.8 95.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.007 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 114 Resp: 326674
Ion Ratio Lower Upper
114 100
63 25.8 19.3 28.9
88 18.1 13.9 20.9





#34

2-Butanone

Concen: 0.386 ppbv

RT: 2.557 min Scan# 7

Delta R.T. -0.000 min

Lab File: VL043172.D

Acq: 06 Nov 2025 17:35

Instrument :

MSVOA_L

ClientSampleId :

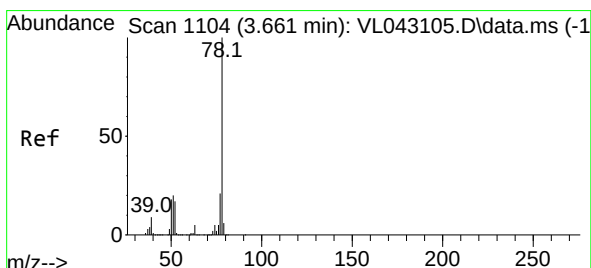
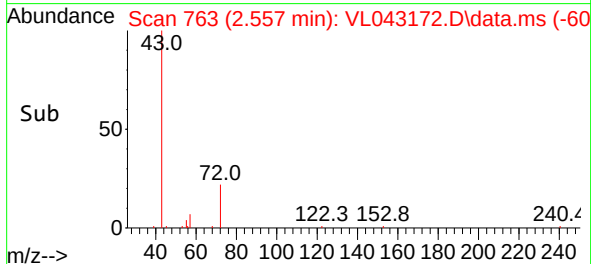
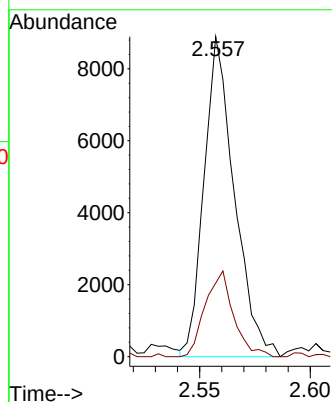
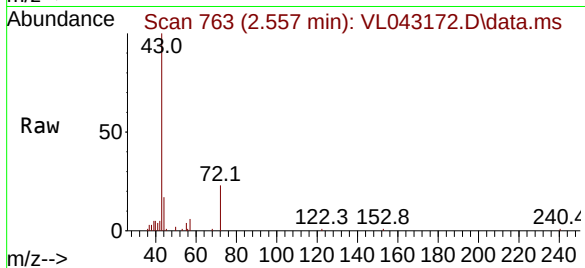
141-IA-1DL

Tgt Ion: 43 Resp: 8478

Ion Ratio Lower Upper

43 100

72 25.7 18.4 27.6



#36

Benzene

Concen: 0.092 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. -0.007 min

Lab File: VL043172.D

Acq: 06 Nov 2025 17:35

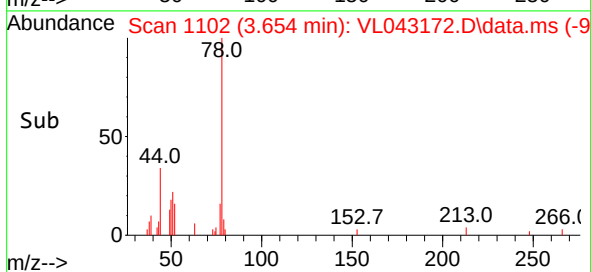
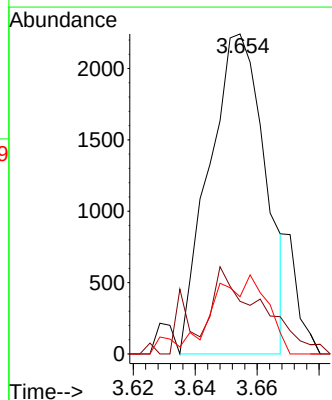
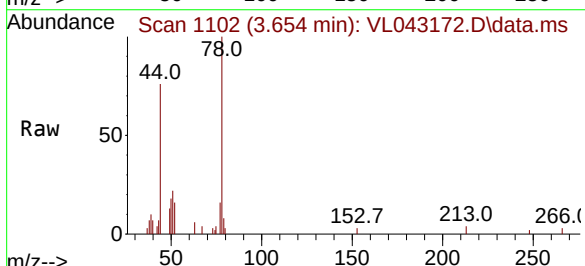
Tgt Ion: 78 Resp: 2816

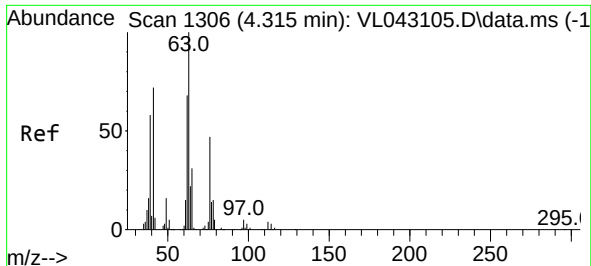
Ion Ratio Lower Upper

78 100

77 4.8 17.0 25.6#

50 15.7 14.6 22.0





#39

1,2-Dichloropropane

Concen: 7.495 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.363 min

Lab File: VL043172.D

Acq: 06 Nov 2025 17:35

Instrument :

MSVOA_L

ClientSampleId :

141-IA-1DL

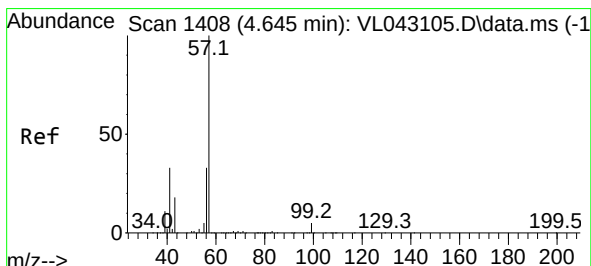
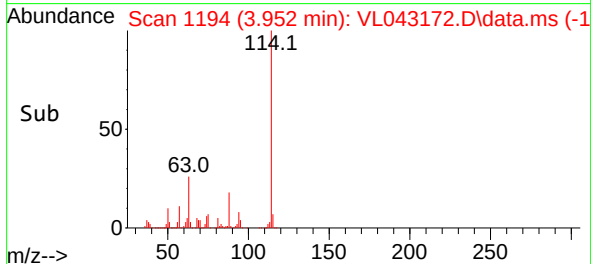
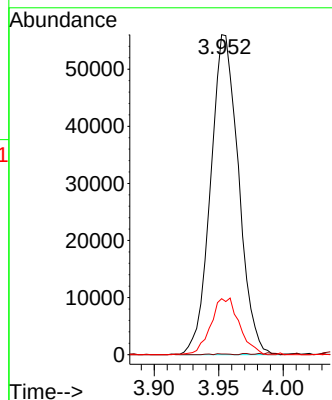
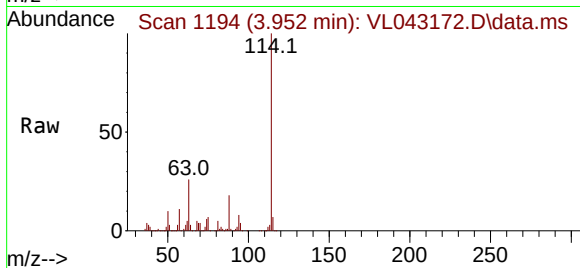
Tgt Ion: 63 Resp: 84302

Ion Ratio Lower Upper

63 100

41 0.2 58.0 87.0#

62 17.3 54.7 82.1#



#44

2,2,4-Trimethylpentane

Concen: 0.045 ppbv

RT: 4.632 min Scan# 1404

Delta R.T. -0.013 min

Lab File: VL043172.D

Acq: 06 Nov 2025 17:35

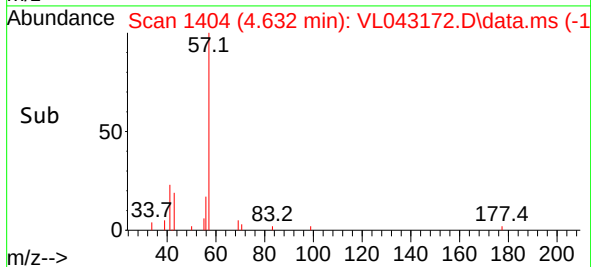
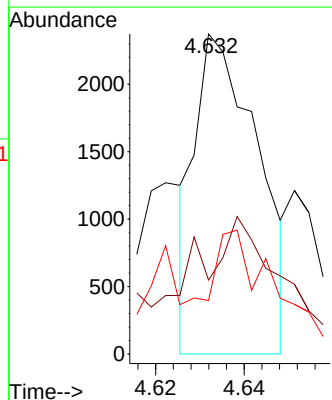
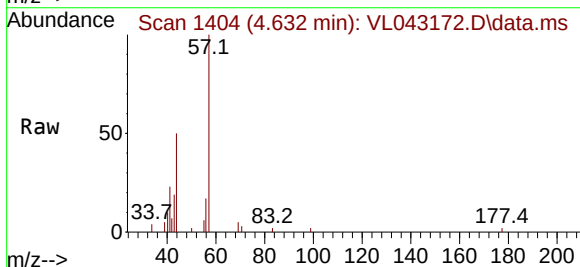
Tgt Ion: 57 Resp: 2333

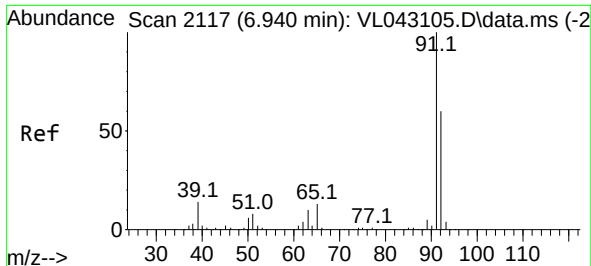
Ion Ratio Lower Upper

57 100

41 86.1 26.3 39.5#

56 76.5 25.9 38.9#

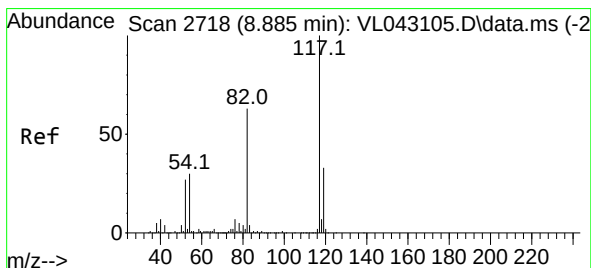
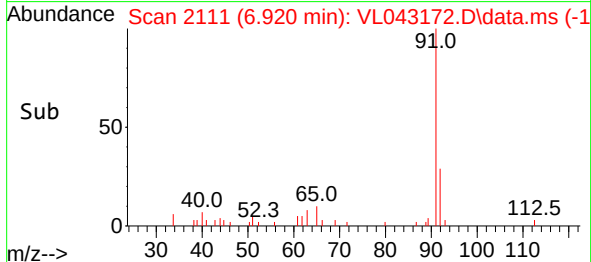
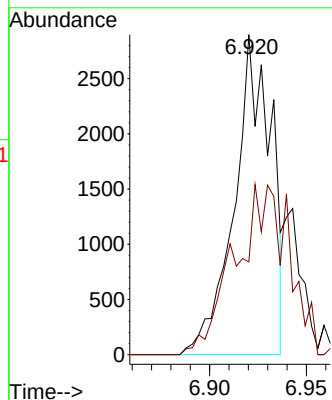
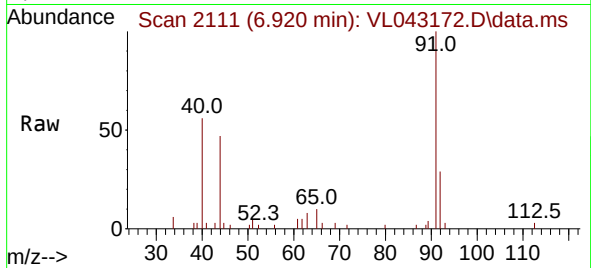




#53
Toluene
Concen: 0.105 ppbv
RT: 6.920 min Scan# 2117
Delta R.T. -0.020 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

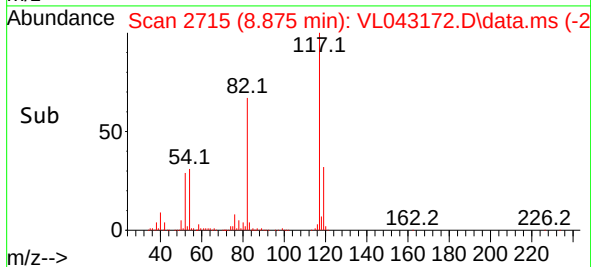
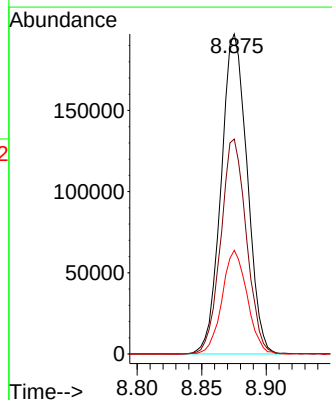
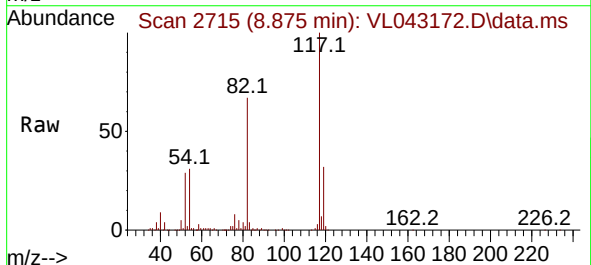
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1DL

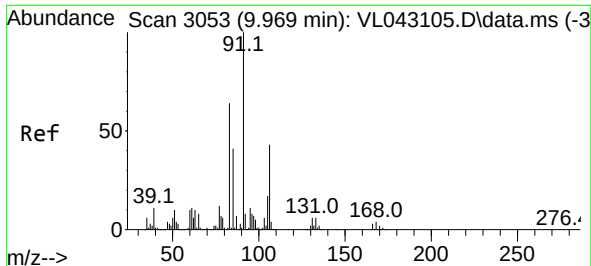
Tgt Ion: 91 Resp: 3828
Ion Ratio Lower Upper
91 100
92 78.6 48.8 73.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.010 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 117 Resp: 276195
Ion Ratio Lower Upper
117 100
82 66.3 53.8 80.8
119 31.3 25.4 38.0

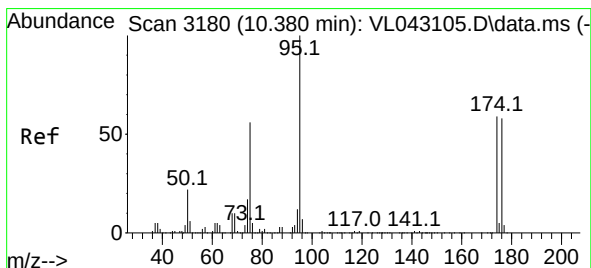
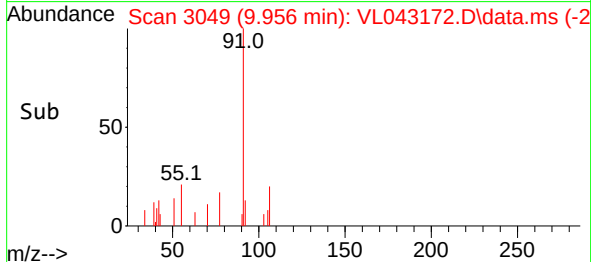
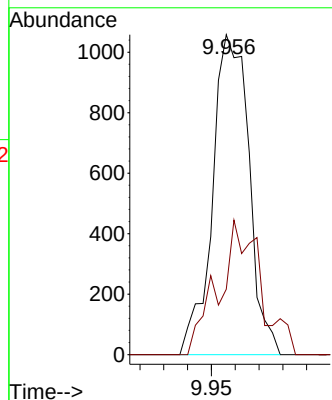
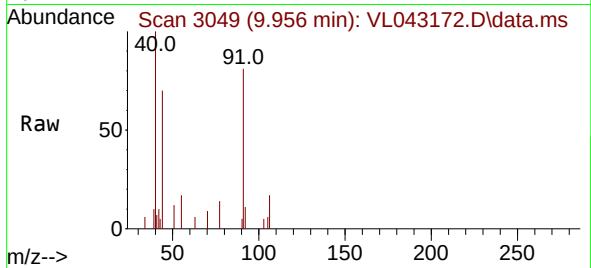




#60
o-Xylene
Concen: 0.030 ppbv
RT: 9.956 min Scan# 3053
Delta R.T. -0.013 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

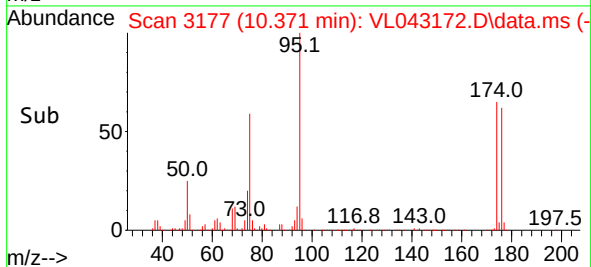
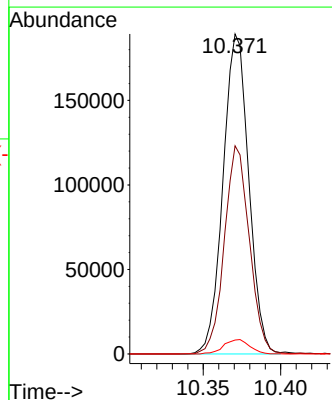
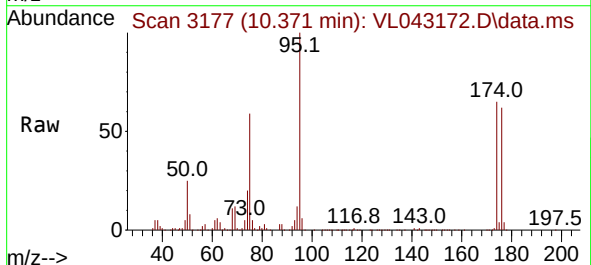
Instrument :
MSVOA_1
ClientSampleId :
141-IA-1DL

Tgt Ion: 91 Resp: 1125
Ion Ratio Lower Upper
91 100
106 48.4 21.9 65.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.173 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.010 min
Lab File: VL043172.D
Acq: 06 Nov 2025 17:35

Tgt Ion: 95 Resp: 218383
Ion Ratio Lower Upper
95 100
174 63.6 48.3 72.5
175 4.6 3.8 5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043177.D
 Acq On : 06 Nov 2025 20:35
 Operator : SY/MD
 Sample : Q3557-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-1

Quant Time: Nov 07 00:28:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	130758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	364794	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.872	117	304142	10.000	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	234974	9.940	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%

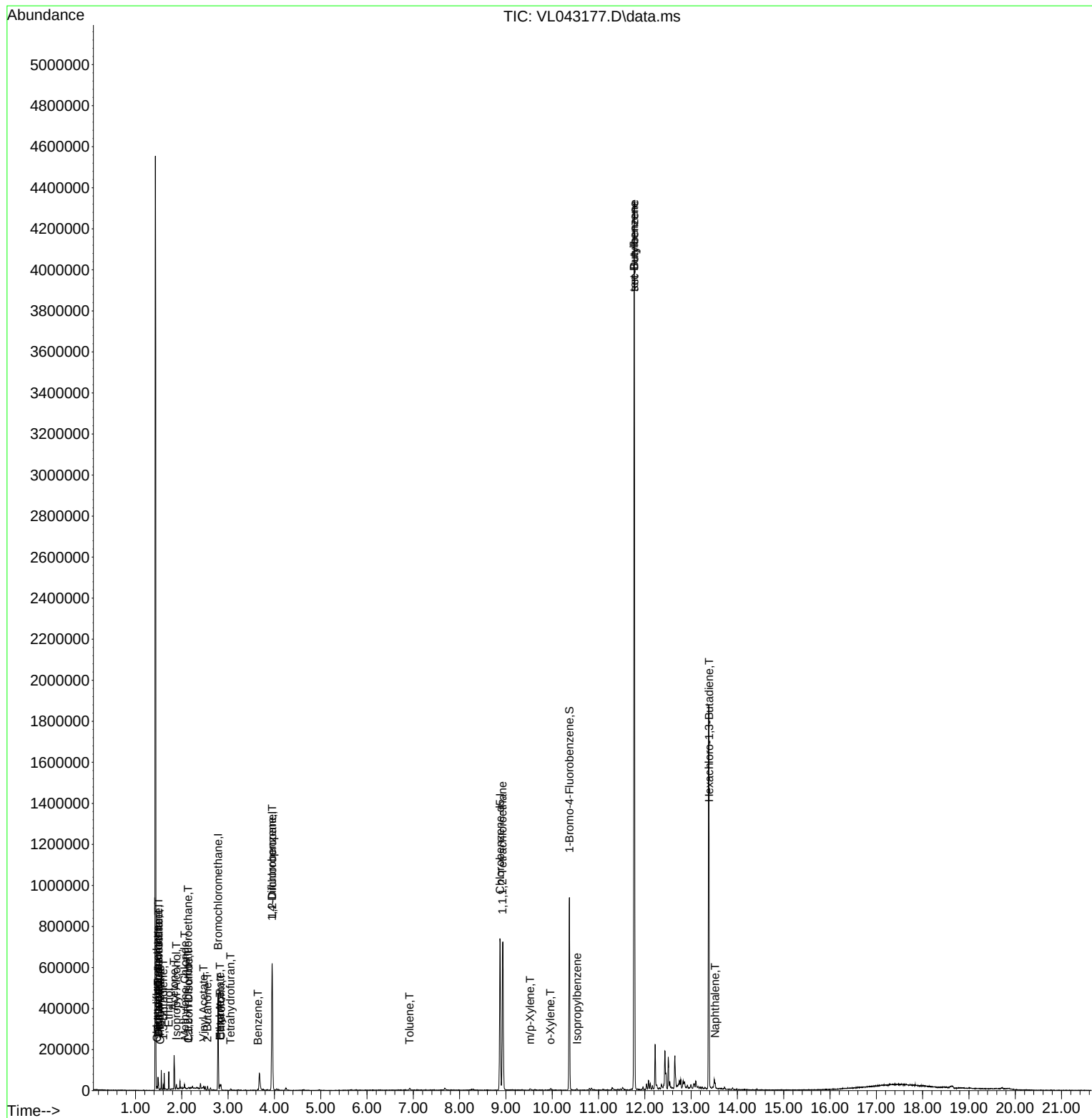
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	9913	0.533	ppbv	92
3) Chlorodifluoromethane	1.467	51	6585	0.327	ppbv #	78
4) Chloromethane	1.531	50	914	0.124	ppbv #	72
8) Dichlorotetrafluoroethane	1.496	85	9913	0.660	ppbv #	22
9) Propene	1.486	41	5549	0.622	ppbv	86
11) Trichlorofluoromethane	1.496	101	844	0.046	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.137	101	455	0.031	ppbv #	66
13) Ethanol	1.719	45	28888	8.755	ppbv	99
15) Acetone	1.832	43	79867	4.532	ppbv	99
16) 1,3-Butadiene	1.599	39	2521	0.300	ppbv #	24
19) Isopropyl Alcohol	1.884	45	8294	0.756	ppbv #	1
20) Methylene Chloride	2.062	84	3197	0.459	ppbv #	79
23) Vinyl Acetate	2.473	43	4609	0.179	ppbv #	46
25) Ethyl Acetate	2.823	43	4404	0.101	ppbv #	89
26) Hexane	2.823	57	5600	0.278	ppbv #	39
27) Carbon Disulfide	2.146	76	1875	0.102	ppbv #	1
29) Chloroform	2.846	83	10548	0.361	ppbv	93
34) 2-Butanone	2.554	43	12160	0.496	ppbv	94
36) Benzene	3.645	78	1388	0.040	ppbv #	86
39) 1,2-Dichloropropane	3.952	63	94079	7.490	ppbv #	25
41) Tetrahydrofuran	3.053	42	1213	0.088	ppbv #	58
53) Toluene	6.917	91	2339	0.057	ppbv #	20
56) 1,1,1,2-Tetrachloroethane	8.927	131	1187	0.062	ppbv #	1
59) m/p-Xylene	9.523	91	1545	0.037	ppbv #	1
60) o-Xylene	9.963	91	1244	0.030	ppbv	92
62) Isopropylbenzene	10.536	105	3096	0.042	ppbv	96
65) tert-Butylbenzene	11.769	119	34809	0.531	ppbv #	31
67) sec-Butylbenzene	11.772	105	9420	0.101	ppbv #	1
78) Hexachloro-1,3-Butadiene	13.387	225	704	0.035	ppbv #	19
79) Naphthalene	13.517	128	2556	0.052	ppbv #	90

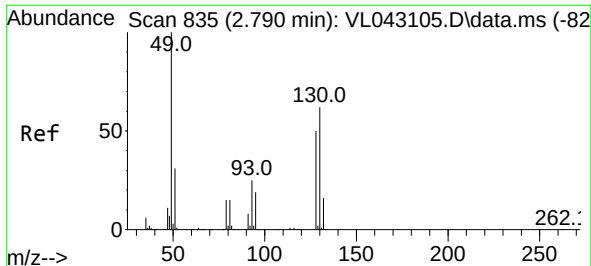
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043177.D
Acq On : 06 Nov 2025 20:35
Operator : SY/MD
Sample : Q3557-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
141-SG-1

Quant Time: Nov 07 00:28:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

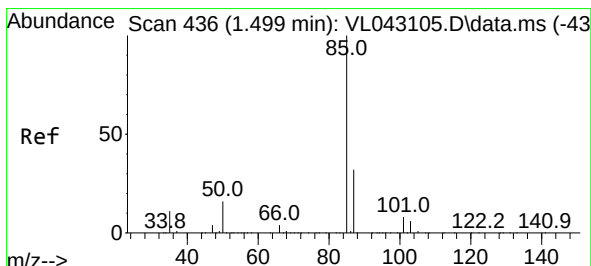
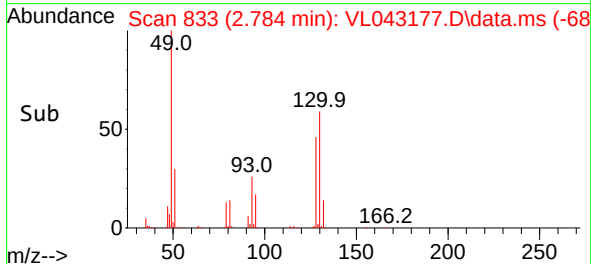
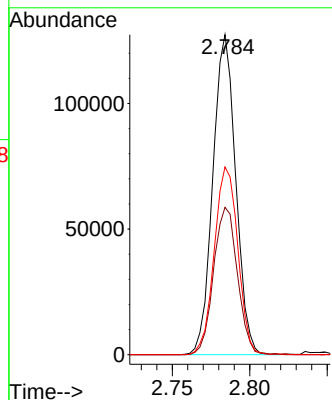
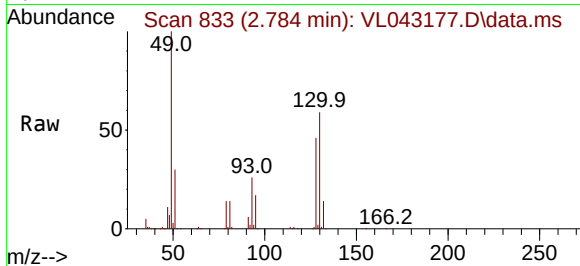




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

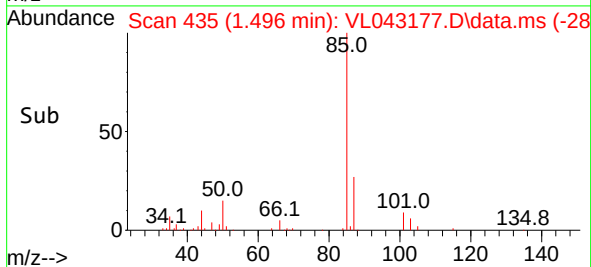
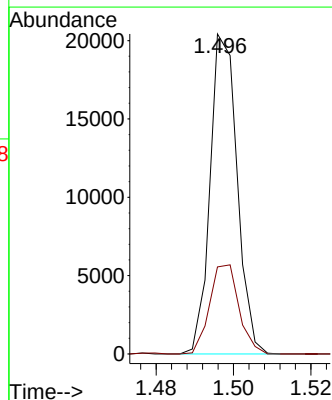
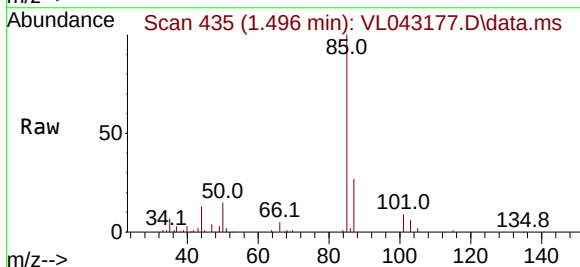
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1

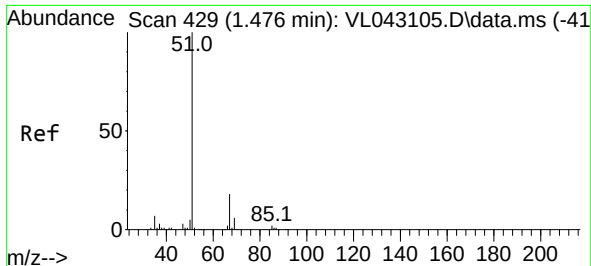
Tgt Ion: 49 Resp: 130758
Ion Ratio Lower Upper
49 100
128 47.9 24.4 73.4
130 60.5 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.533 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion: 85 Resp: 9913
Ion Ratio Lower Upper
85 100
87 27.2 25.3 37.9

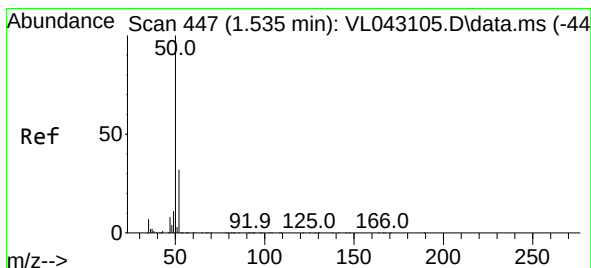
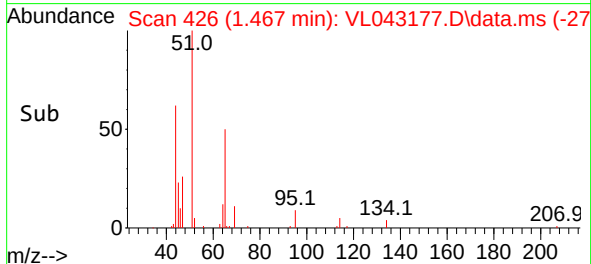
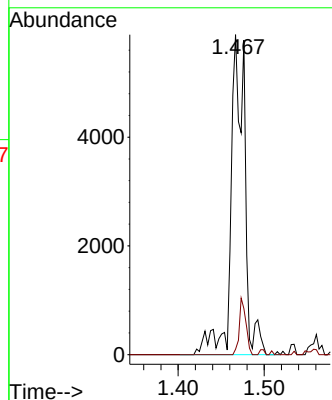
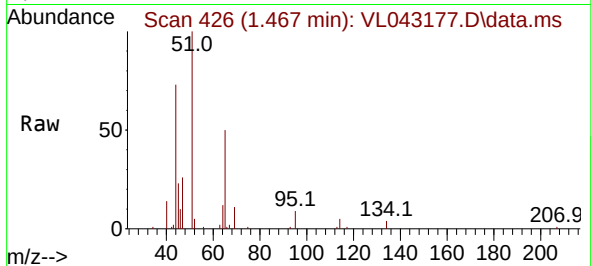




#3
Chlorodifluoromethane
Concen: 0.327 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

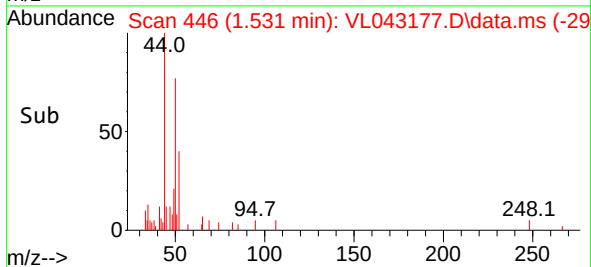
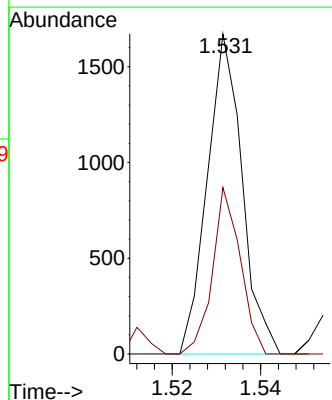
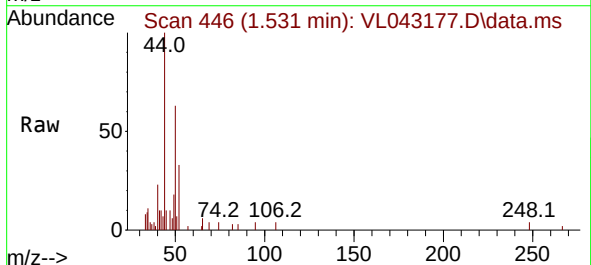
Instrument :
MSVOA_1
ClientSampleId :
141-SG-1

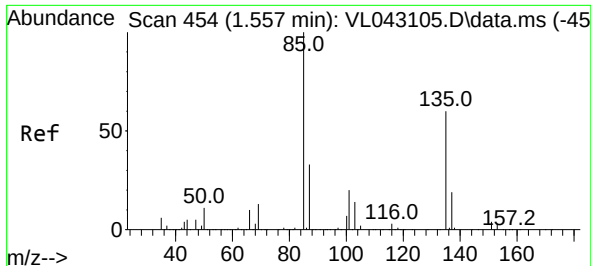
Tgt Ion: 51 Resp: 6585
Ion Ratio Lower Upper
51 100
67 9.2 15.1 22.7#



#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion: 50 Resp: 914
Ion Ratio Lower Upper
50 100
52 46.8 25.2 37.8#

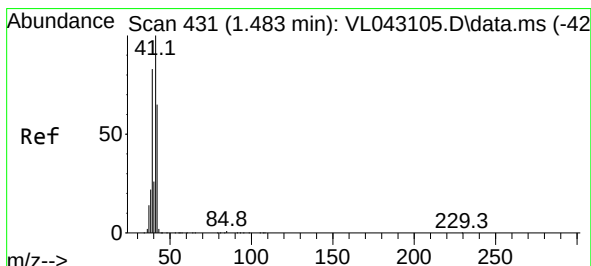
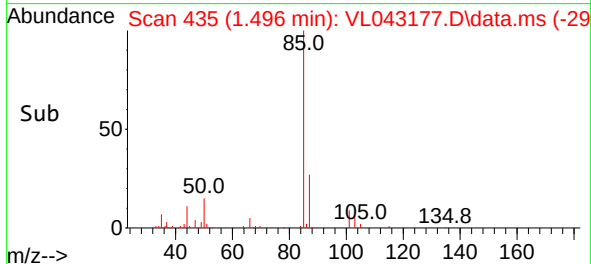
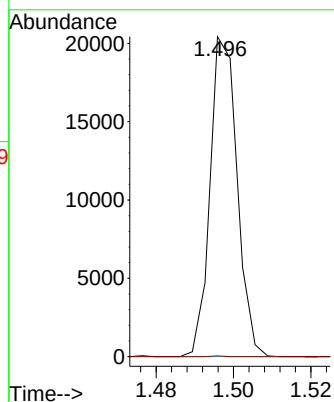
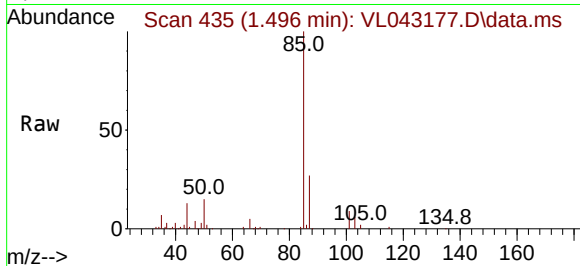




#8
Dichlorotetrafluoroethane
Concen: 0.660 ppbv
RT: 1.496 min Scan# 411
Delta R.T. -0.061 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

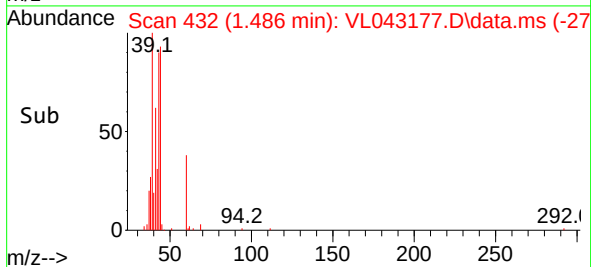
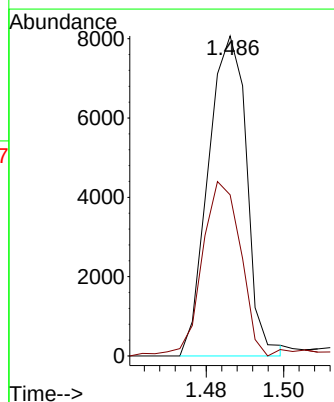
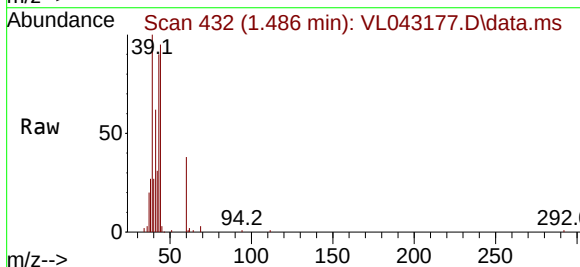
Instrument :
MSVOA_1
ClientSampleId :
141-SG-1

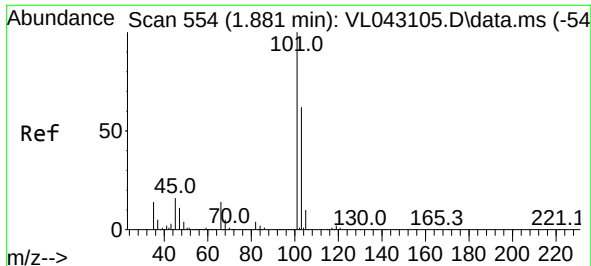
Tgt Ion: 85 Resp: 9913
Ion Ratio Lower Upper
85 100
135 1.5 48.2 72.4#



#9
Propene
Concen: 0.622 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion: 41 Resp: 5549
Ion Ratio Lower Upper
41 100
42 57.3 55.1 82.7

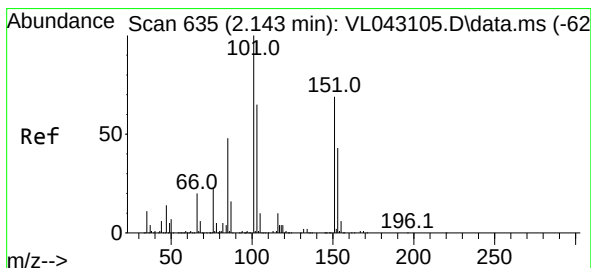
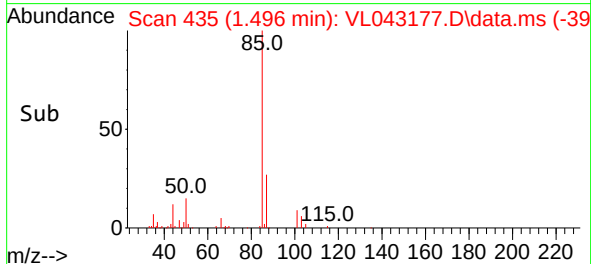
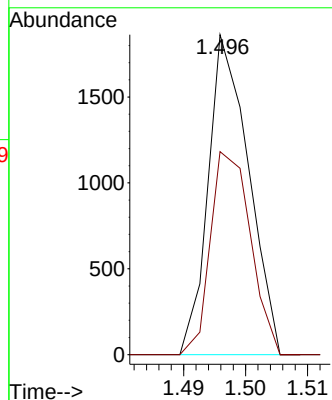
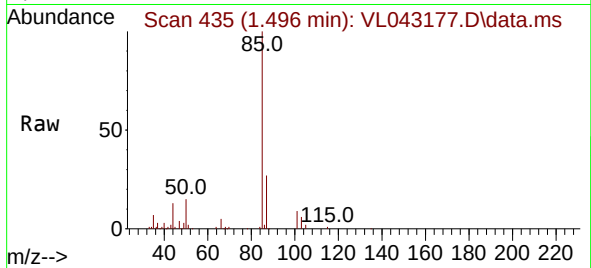




#11
 Trichlorofluoromethane
 Concen: 0.046 ppbv
 RT: 1.496 min Scan# 41
 Delta R.T. -0.385 min
 Lab File: VL043177.D
 Acq: 06 Nov 2025 20:35

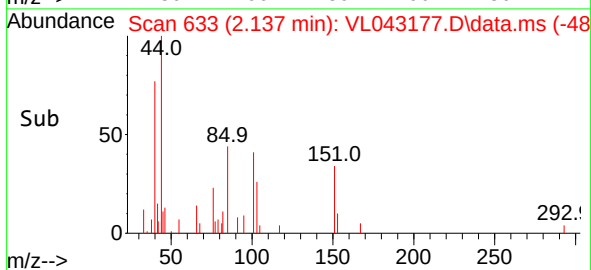
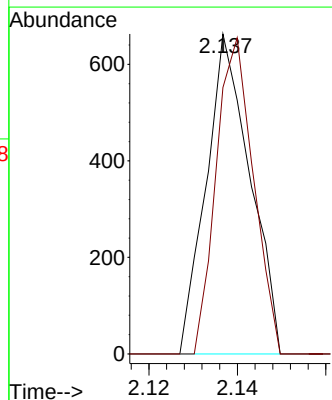
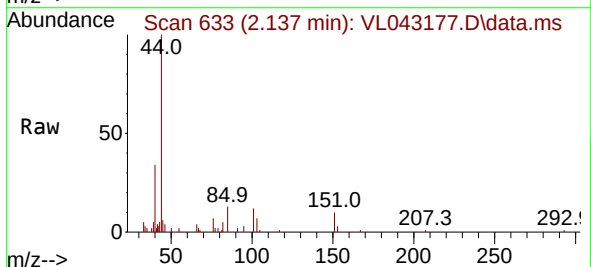
Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-1

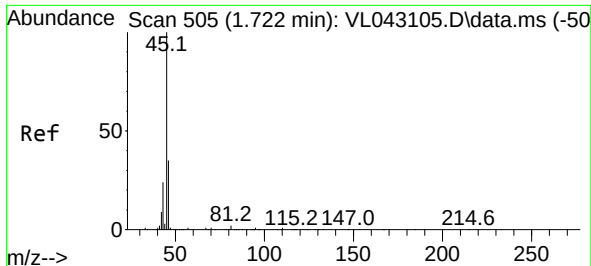
Tgt Ion:101 Resp: 844
 Ion Ratio Lower Upper
 101 100
 103 63.4 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.031 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. -0.006 min
 Lab File: VL043177.D
 Acq: 06 Nov 2025 20:35

Tgt Ion:101 Resp: 455
 Ion Ratio Lower Upper
 101 100
 151 95.6 54.7 82.1#

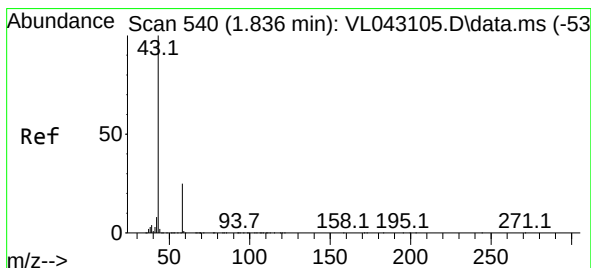
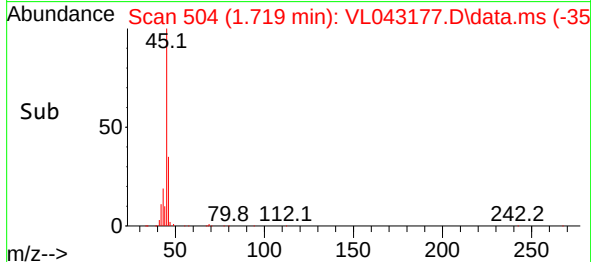
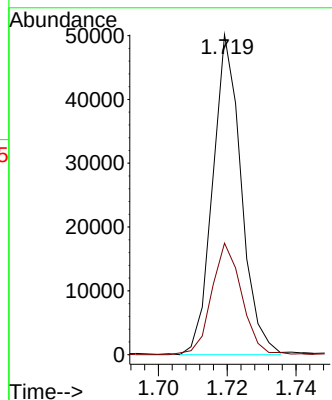
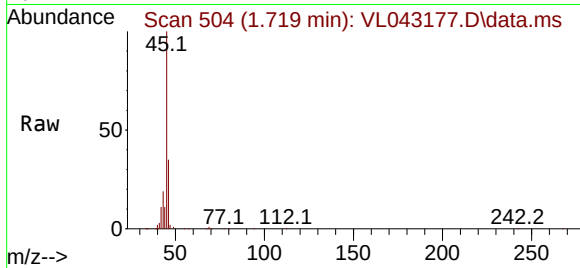




#13
Ethanol
Concen: 8.755 ppbv
RT: 1.719 min Scan# 505
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

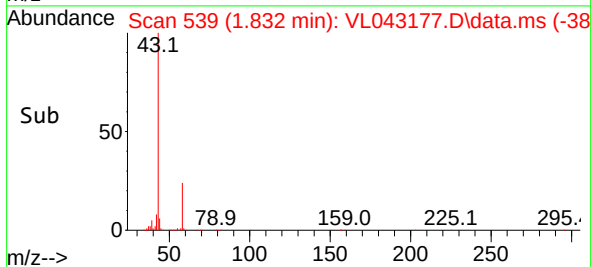
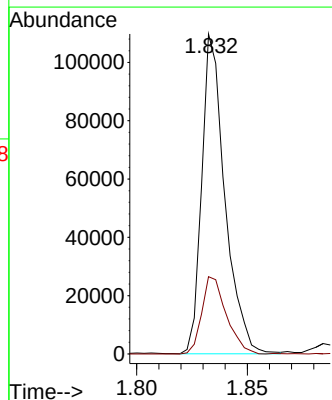
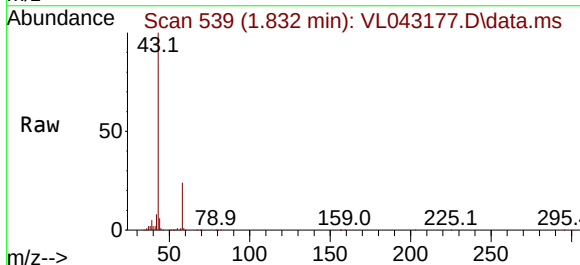
Instrument :
MSVOA_1
ClientSampleId :
141-SG-1

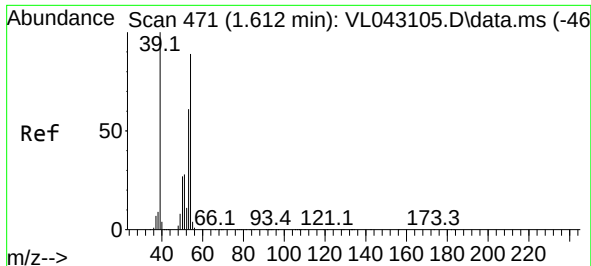
Tgt Ion: 45 Resp: 28888
Ion Ratio Lower Upper
45 100
46 37.4 14.7 58.9



#15
Acetone
Concen: 4.532 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion: 43 Resp: 79867
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2





#16

1,3-Butadiene

Concen: 0.300 ppbv

RT: 1.599 min Scan# 4

Delta R.T. -0.013 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_1

ClientSampleId :

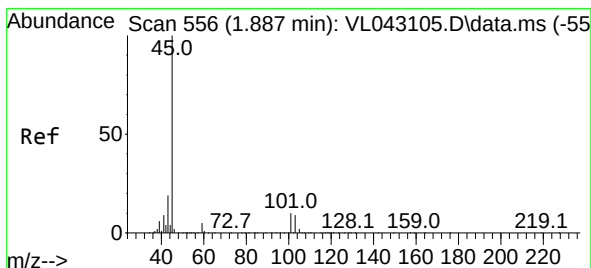
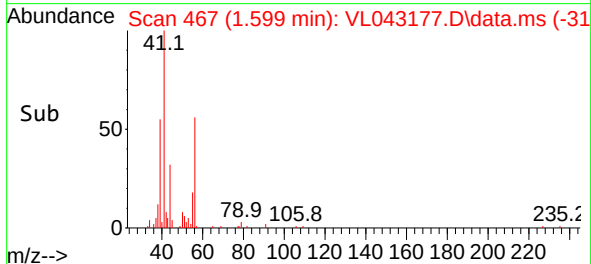
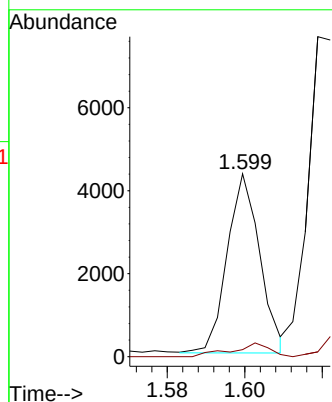
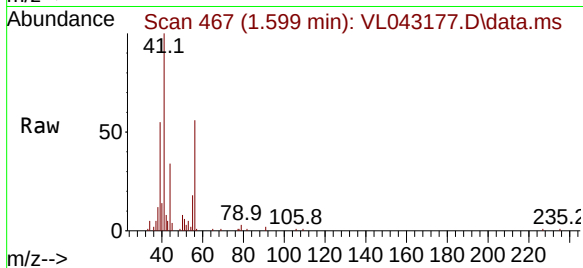
141-SG-1

Tgt Ion: 39 Resp: 2521

Ion Ratio Lower Upper

39 100

54 9.2 59.0 88.4#



#19

Isopropyl Alcohol

Concen: 0.756 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.003 min

Lab File: VL043177.D

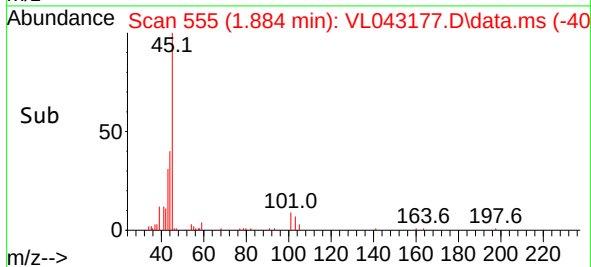
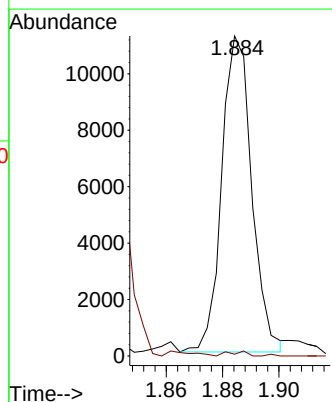
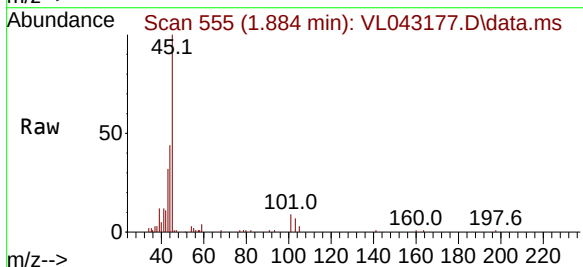
Acq: 06 Nov 2025 20:35

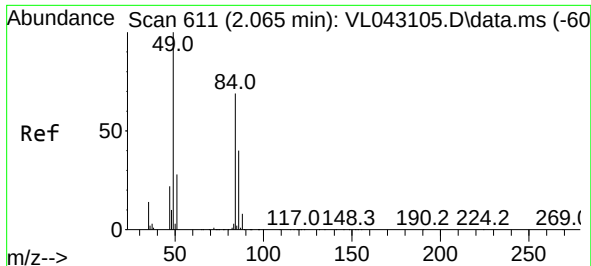
Tgt Ion: 45 Resp: 8294

Ion Ratio Lower Upper

45 100

58 248.3 31.3 46.9#





#20

Methylene Chloride

Concen: 0.459 ppbv

RT: 2.062 min Scan# 611

Delta R.T. -0.003 min

Lab File: VL043177.D

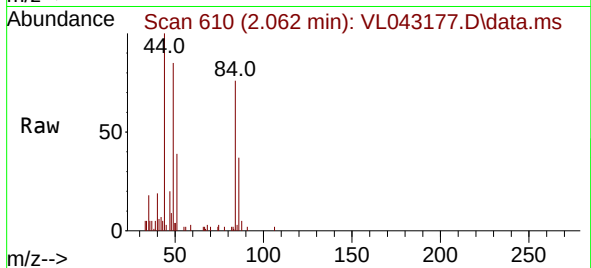
Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_1

ClientSampleId :

141-SG-1



Tgt Ion: 84 Resp: 3197

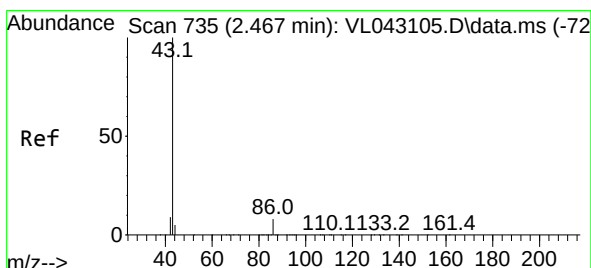
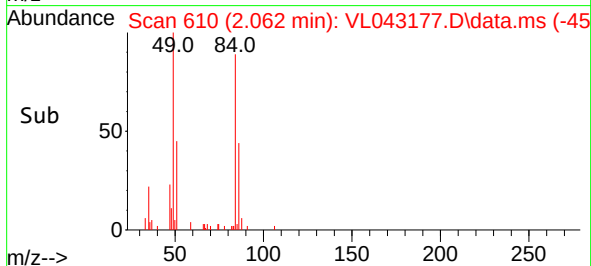
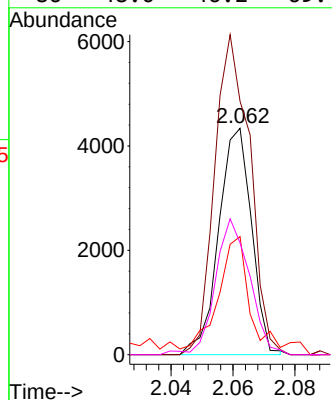
Ion Ratio Lower Upper

84 100

49 111.9 116.6 175.0#

51 49.6 34.8 52.2

86 48.0 46.2 69.4



#23

Vinyl Acetate

Concen: 0.179 ppbv

RT: 2.473 min Scan# 737

Delta R.T. 0.007 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Tgt Ion: 43 Resp: 4609

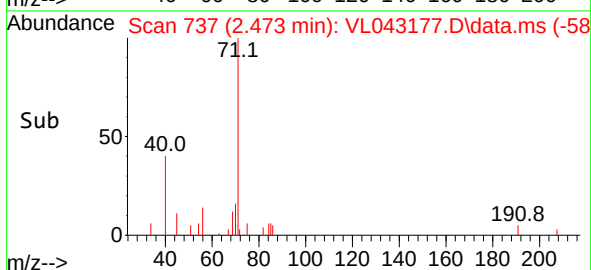
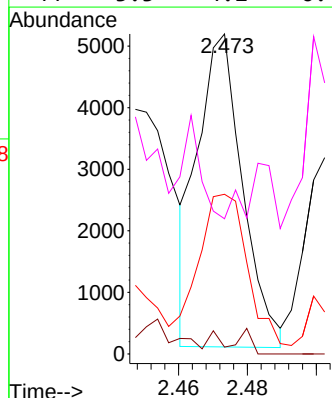
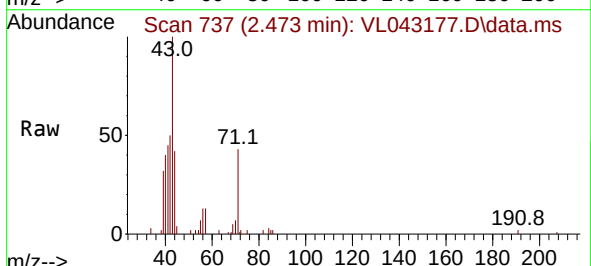
Ion Ratio Lower Upper

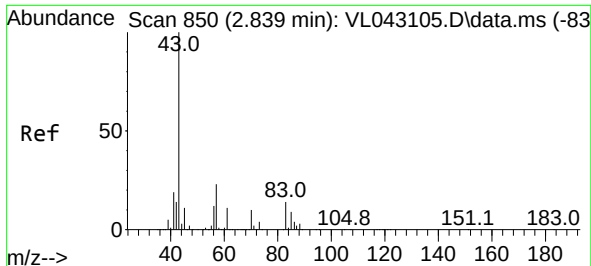
43 100

86 2.3 6.2 9.2#

42 50.7 7.6 11.4#

44 3.3 4.2 6.4#

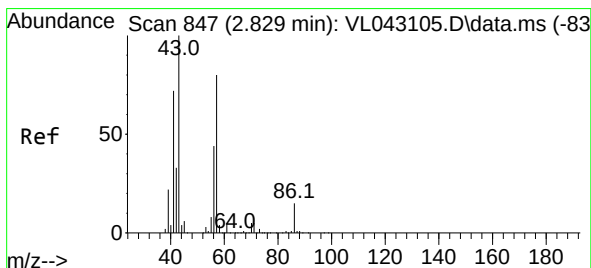
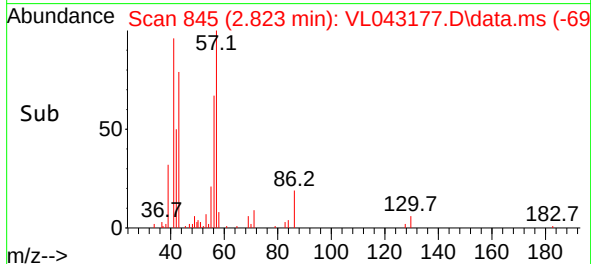
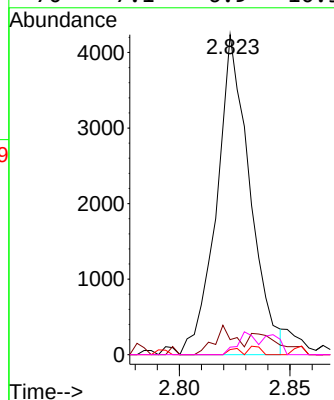
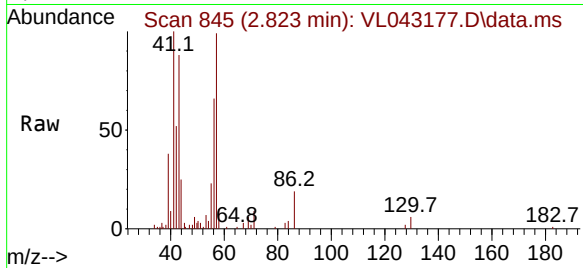




#25
Ethyl Acetate
Concen: 0.101 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.016 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

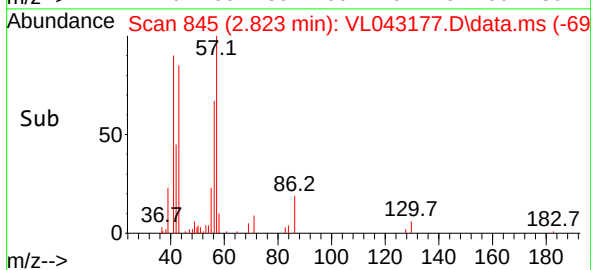
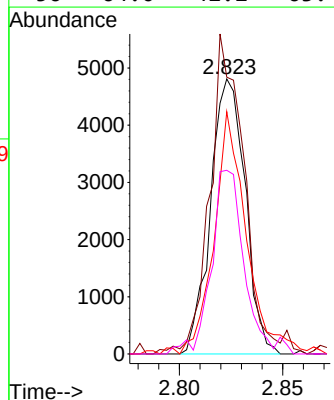
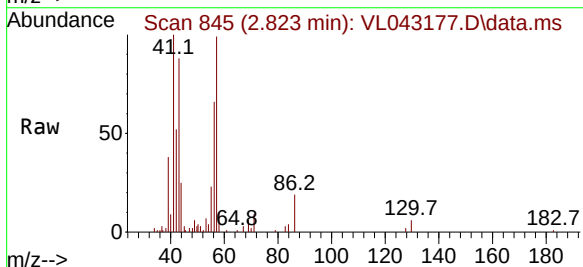
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1

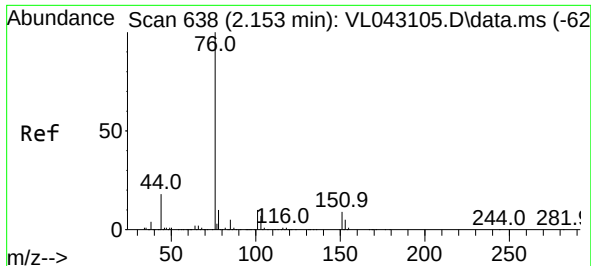
Tgt Ion:	43	Resp:	4404
Ion	Ratio	Lower	Upper
43	100		
45	12.0	7.8	11.8#
61	0.5	7.0	10.6#
70	7.1	6.9	10.3



#26
Hexane
Concen: 0.278 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.006 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion:	57	Resp:	5600
Ion	Ratio	Lower	Upper
57	100		
41	115.3	71.4	107.0#
43	84.3	178.5	267.7#
56	64.0	42.2	63.4#





#27

Carbon Disulfide

Concen: 0.102 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.006 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

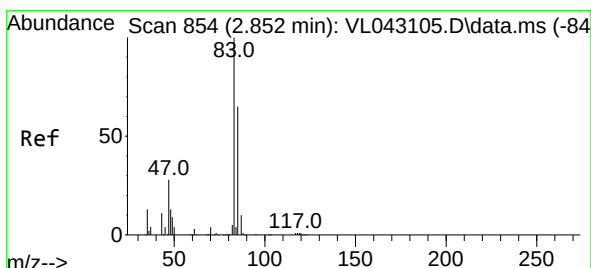
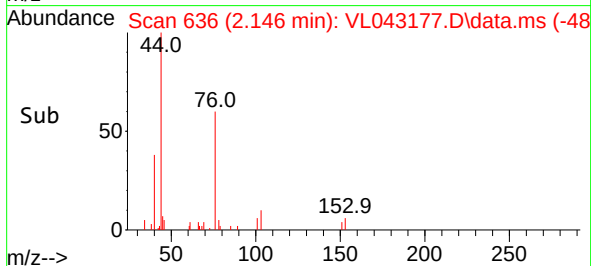
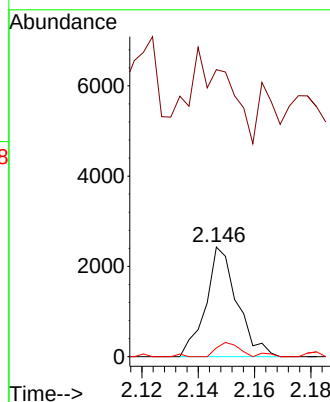
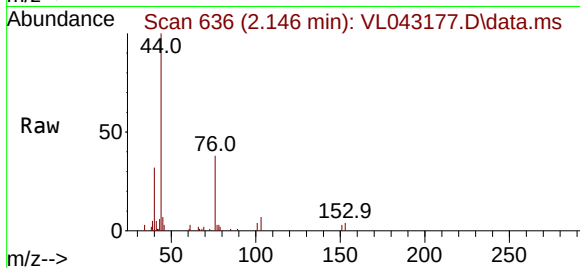
Instrument :

MSVOA_L

ClientSampleId :

141-SG-1

Tgt Ion: 76	Resp: 1875
Ion Ratio	Lower Upper
76	100
44	1391.8 16.7 25.1#
78	11.1 9.3 13.9



#29

Chloroform

Concen: 0.361 ppbv

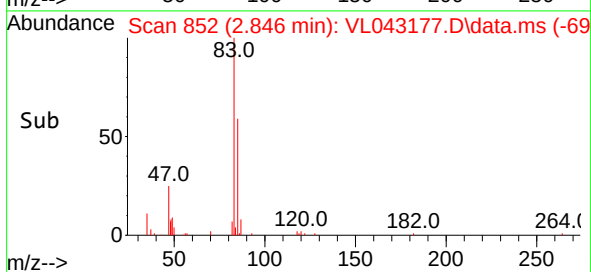
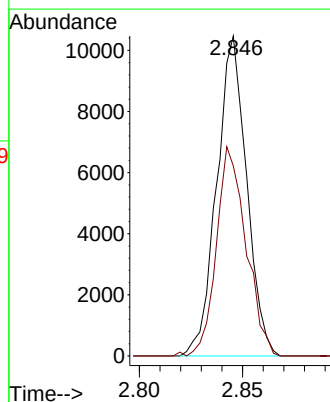
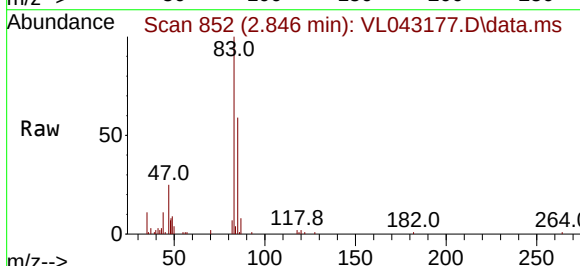
RT: 2.846 min Scan# 852

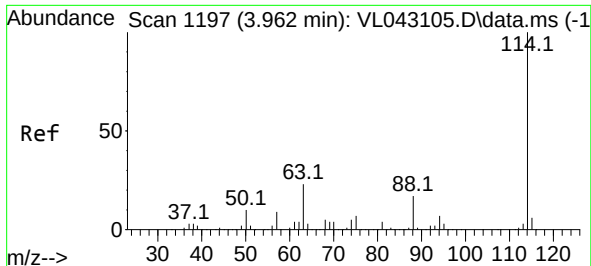
Delta R.T. -0.006 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Tgt Ion: 83	Resp: 10548
Ion Ratio	Lower Upper
83	100
85	59.4 51.8 77.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.013 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_1

ClientSampleId :

141-SG-1

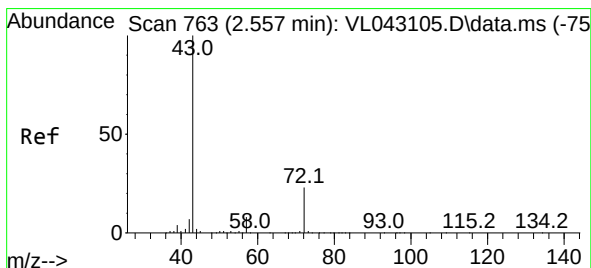
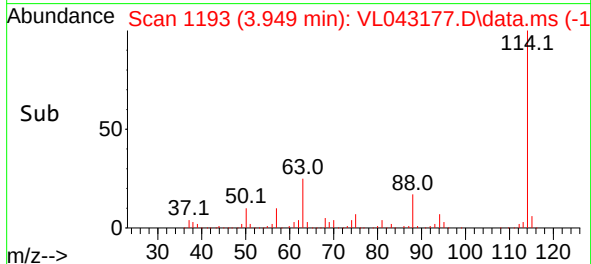
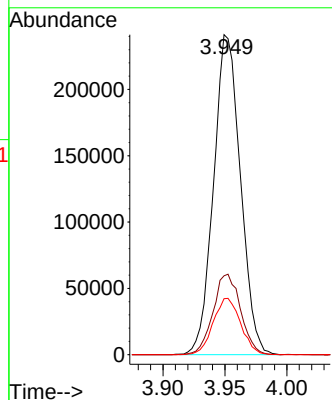
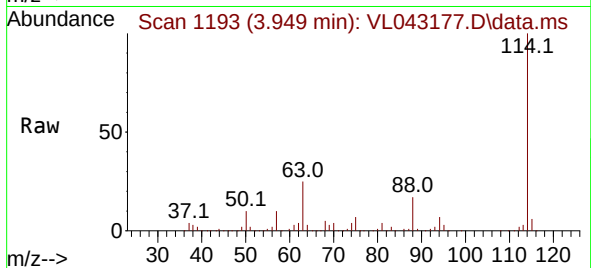
Tgt Ion:114 Resp: 364794

Ion Ratio Lower Upper

114 100

63 25.8 19.3 28.9

88 18.0 13.9 20.9



#34

2-Butanone

Concen: 0.496 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.003 min

Lab File: VL043177.D

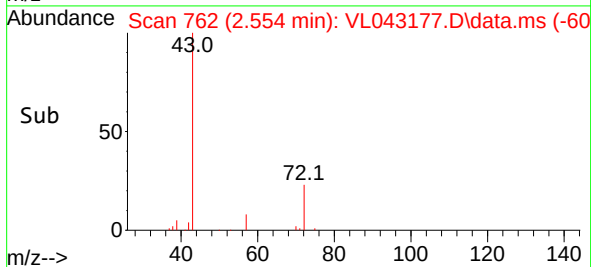
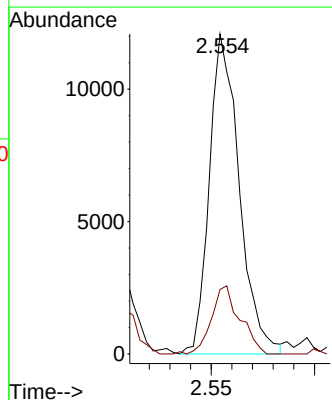
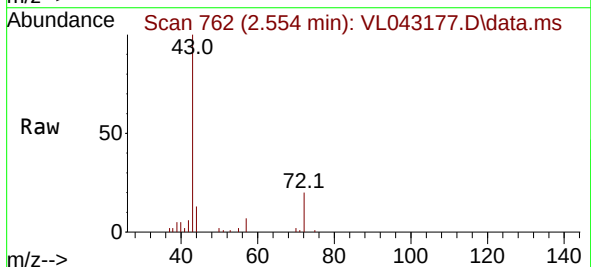
Acq: 06 Nov 2025 20:35

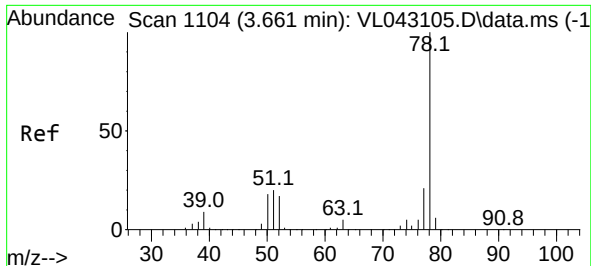
Tgt Ion: 43 Resp: 12160

Ion Ratio Lower Upper

43 100

72 20.2 18.4 27.6





#36

Benzene

Concen: 0.040 ppbv

RT: 3.645 min Scan# 1104

Delta R.T. -0.016 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

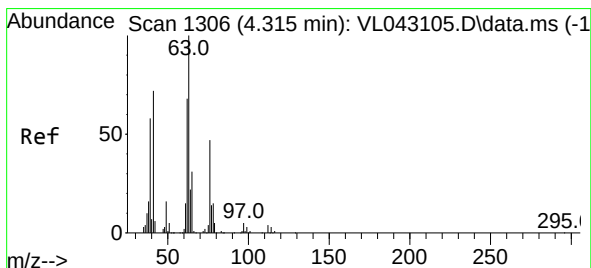
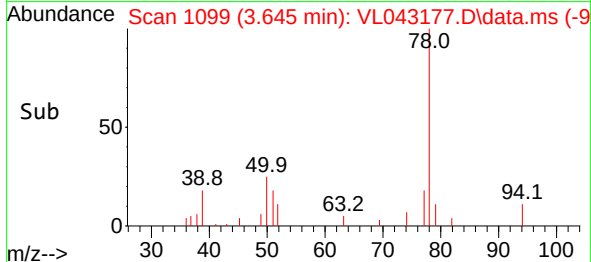
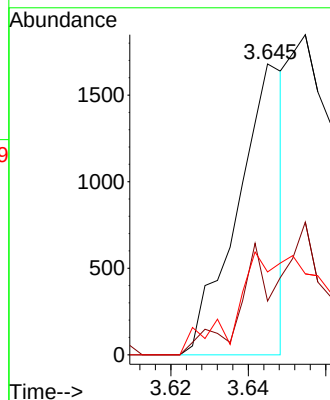
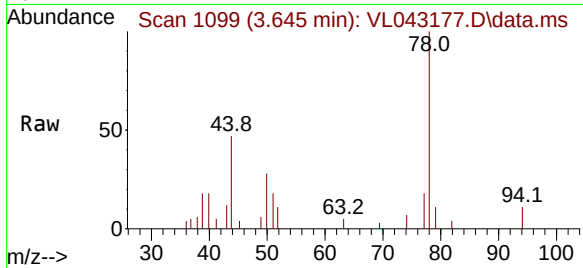
MSVOA_L

ClientSampleId :

141-SG-1

Tgt Ion: 78 Resp: 1388

Ion	Ratio	Lower	Upper
78	100		
77	18.5	17.0	25.6
50	28.5	14.6	22.0#



#39

1,2-Dichloropropane

Concen: 7.490 ppbv

RT: 3.952 min Scan# 1194

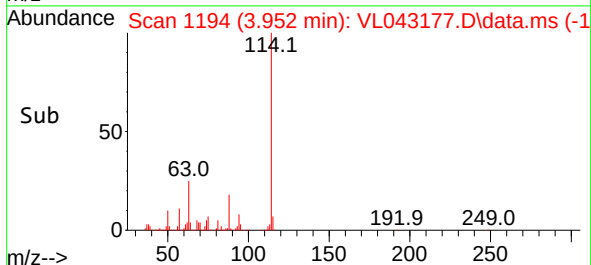
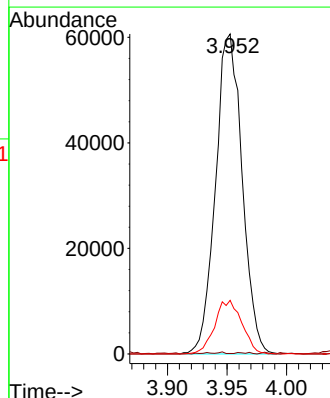
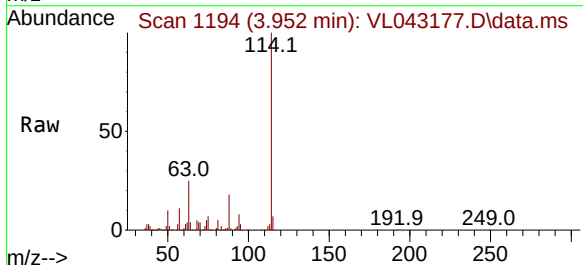
Delta R.T. -0.362 min

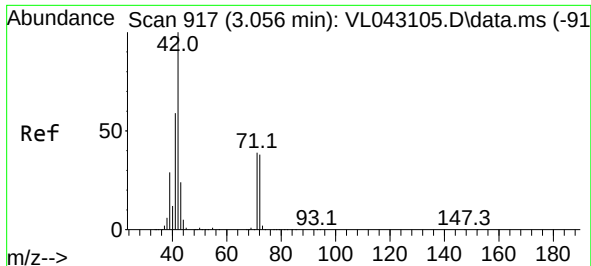
Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Tgt Ion: 63 Resp: 94079

Ion	Ratio	Lower	Upper
63	100		
41	0.1	58.0	87.0#
62	16.8	54.7	82.1#

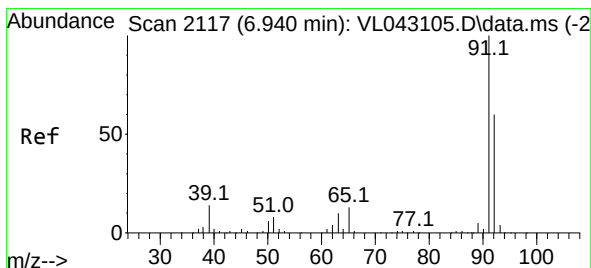
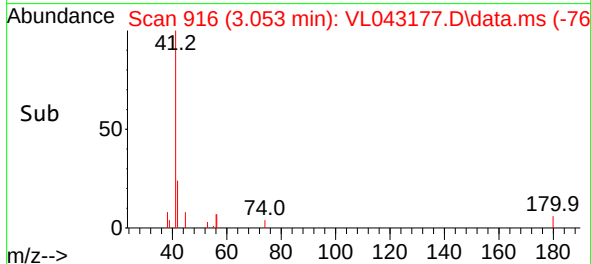
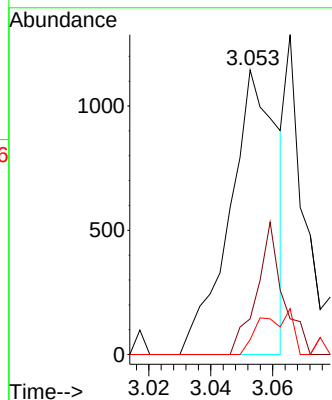
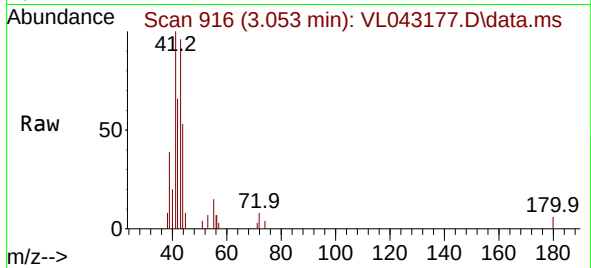




#41
Tetrahydrofuran
Concen: 0.088 ppbv
RT: 3.053 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

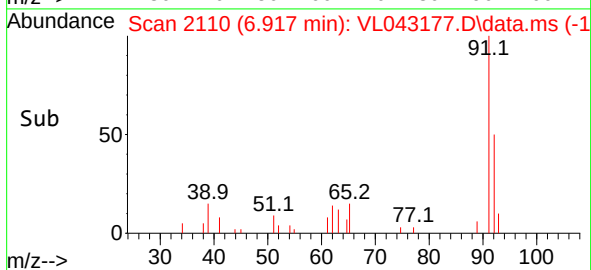
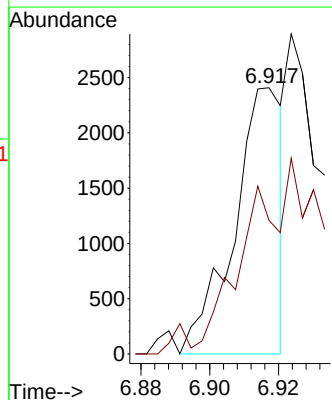
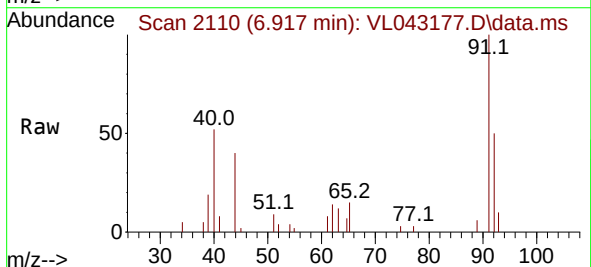
Instrument :
MSVOA_1
ClientSampleId :
141-SG-1

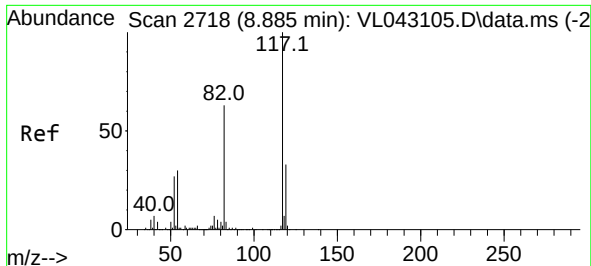
Tgt Ion: 42 Resp: 1213
Ion Ratio Lower Upper
42 100
72 26.0 31.3 46.9#
71 0.0 30.4 45.6#



#53
Toluene
Concen: 0.057 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.023 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion: 91 Resp: 2339
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2#

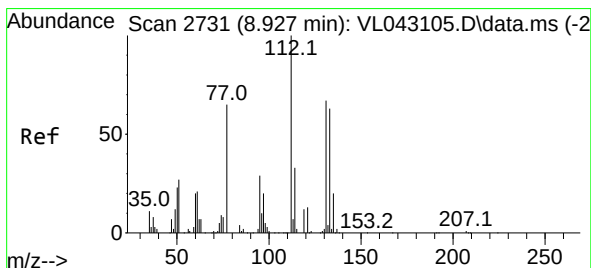
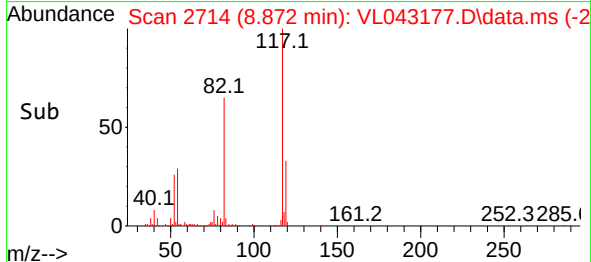
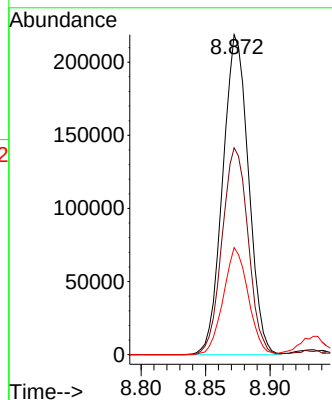
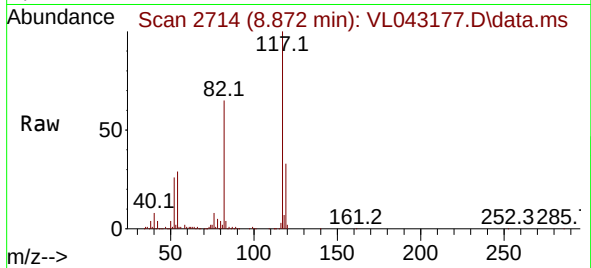




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.013 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

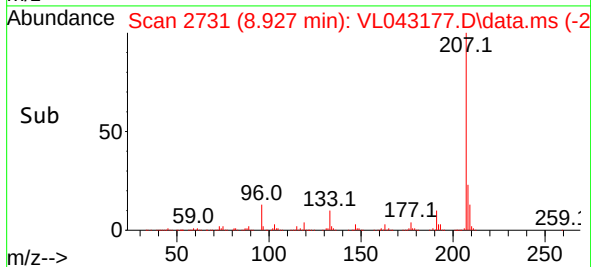
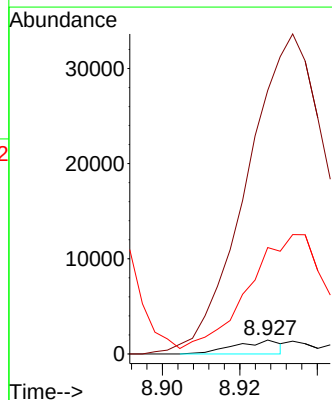
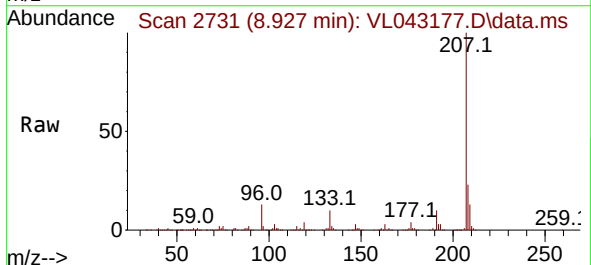
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1

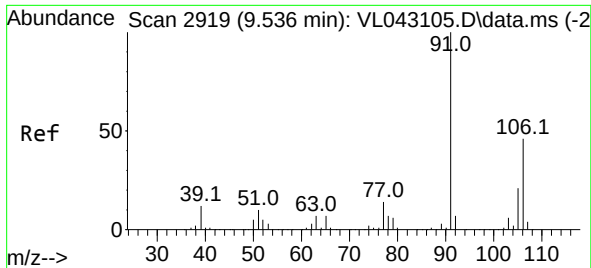
Tgt Ion:117 Resp: 304142
Ion Ratio Lower Upper
117 100
82 65.3 53.8 80.8
119 32.3 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.062 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion:131 Resp: 1187
Ion Ratio Lower Upper
131 100
133 0.0 75.7 113.5#
119 8271.9 50.6 76.0#

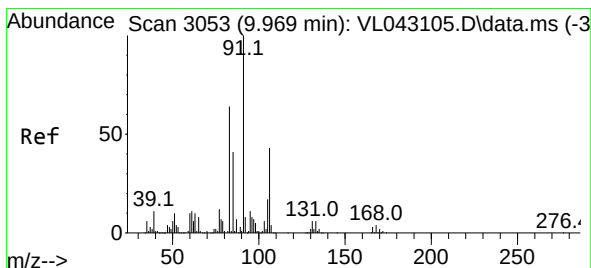
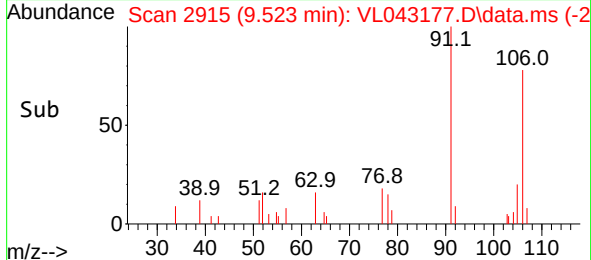
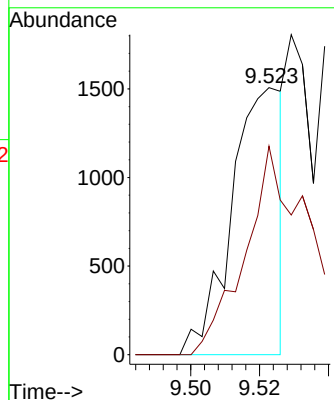
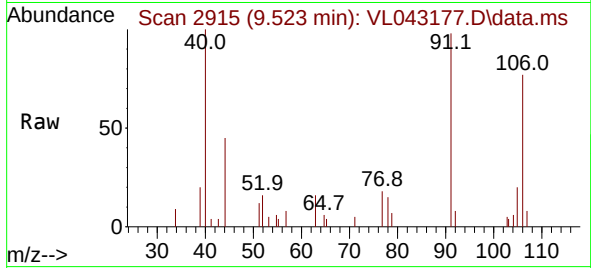




#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 9.523 min Scan# 2915
Delta R.T. -0.013 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

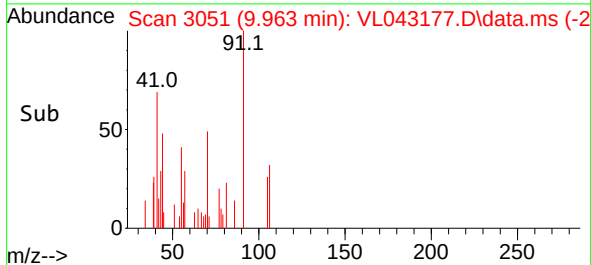
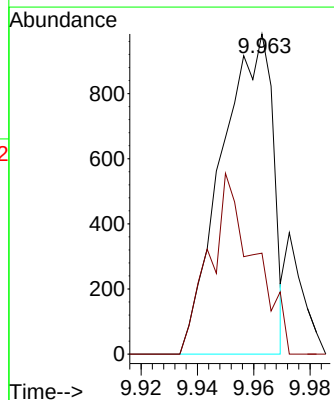
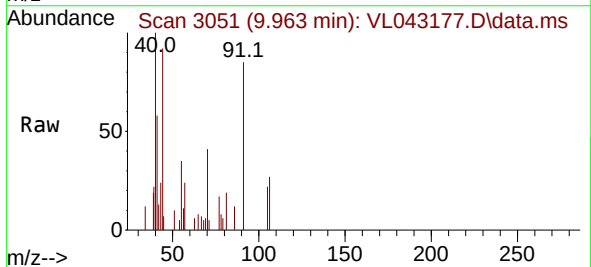
Instrument :
MSVOA_1
ClientSampleId :
141-SG-1

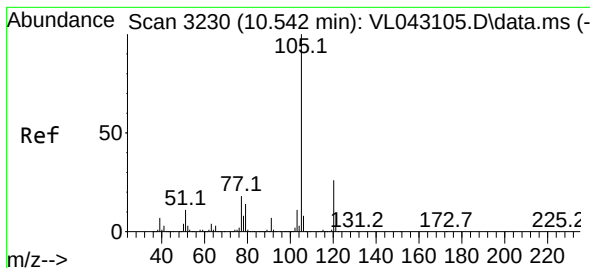
Tgt Ion: 91 Resp: 1545
Ion Ratio Lower Upper
91 100
106 121.6 38.0 57.0#



#60
o-Xylene
Concen: 0.030 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion: 91 Resp: 1244
Ion Ratio Lower Upper
91 100
106 49.0 21.9 65.8





#62

Isopropylbenzene

Concen: 0.042 ppbv

RT: 10.536 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_1

ClientSampleId :

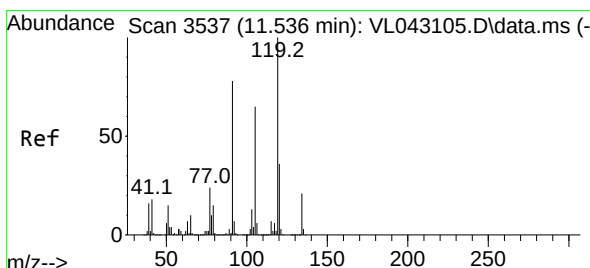
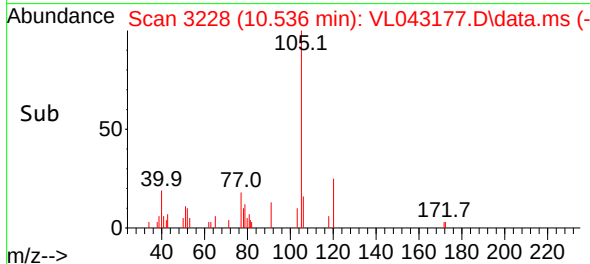
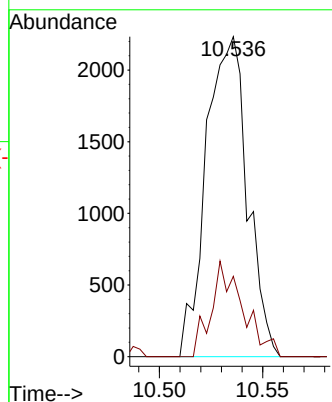
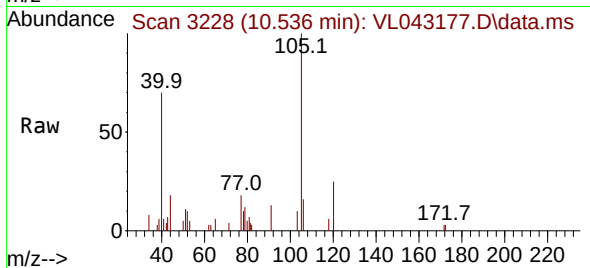
141-SG-1

Tgt Ion:105 Resp: 3096

Ion Ratio Lower Upper

105 100

120 23.2 20.2 30.4



#65

tert-Butylbenzene

Concen: 0.531 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. 0.233 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

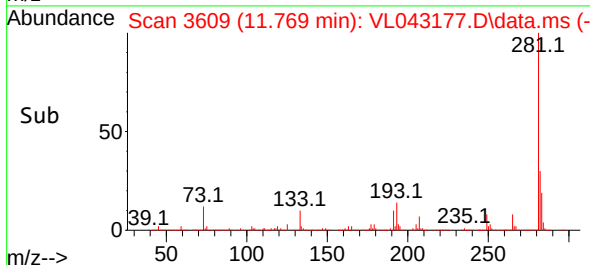
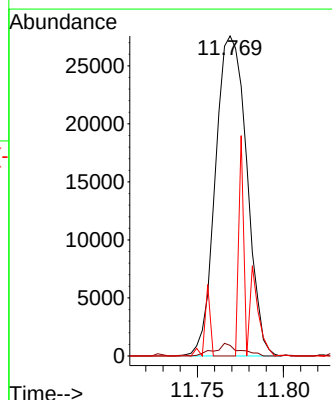
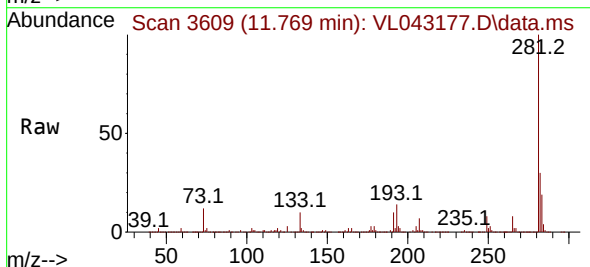
Tgt Ion:119 Resp: 34809

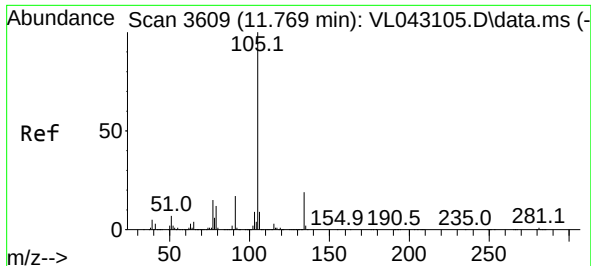
Ion Ratio Lower Upper

119 100

91 3.3 63.4 95.0#

134 18.4 17.3 25.9





#67

sec-Butylbenzene

Concen: 0.101 ppbv

RT: 11.772 min Scan# 3177

Delta R.T. 0.003 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_1

ClientSampleId :

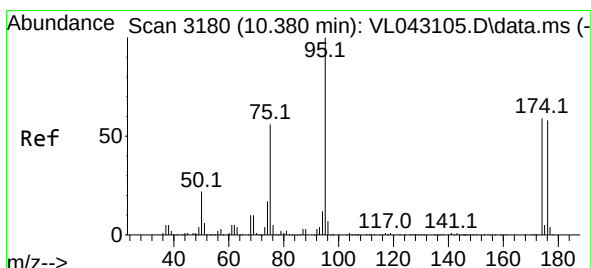
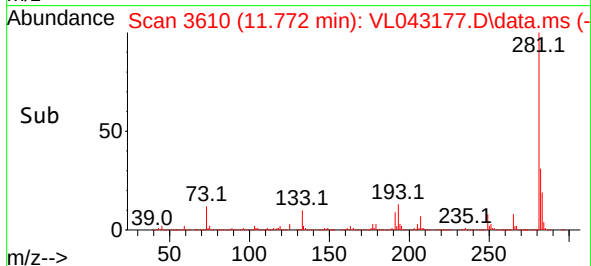
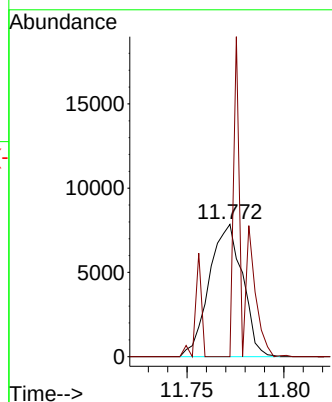
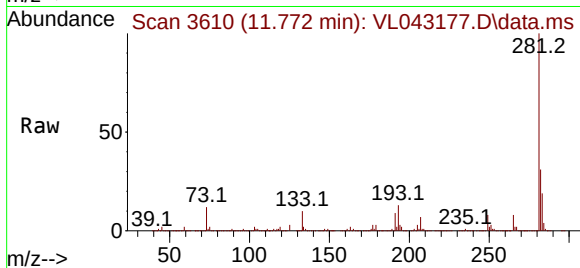
141-SG-1

Tgt Ion:105 Resp: 9420

Ion Ratio Lower Upper

105 100

134 81.9 15.5 23.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.940 ppbv

RT: 10.371 min Scan# 3177

Delta R.T. -0.010 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

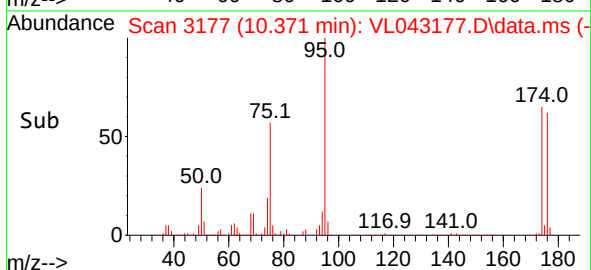
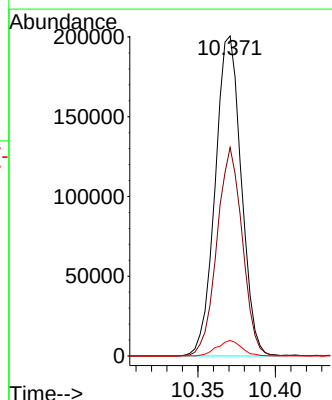
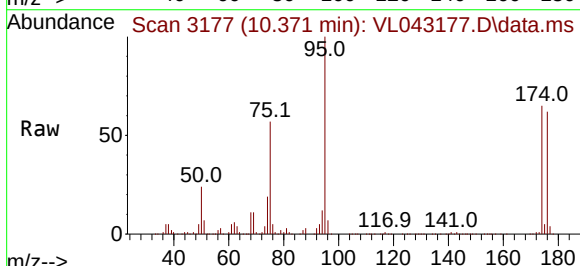
Tgt Ion: 95 Resp: 234974

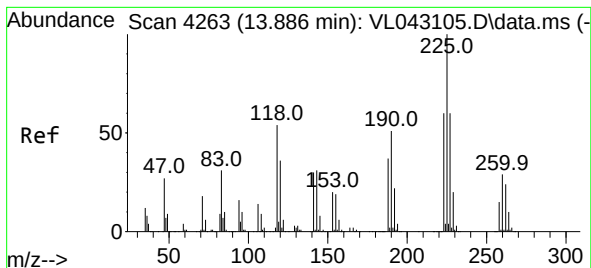
Ion Ratio Lower Upper

95 100

174 63.6 48.3 72.5

175 4.6 3.8 5.8





#78

Hexachloro-1,3-Butadiene

Concen: 0.035 ppbv

RT: 13.387 min Scan# 4109

Delta R.T. -0.498 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_1

ClientSampleId :

141-SG-1

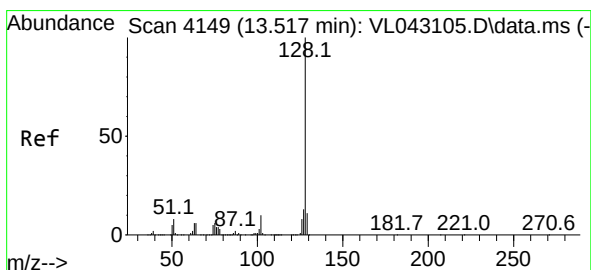
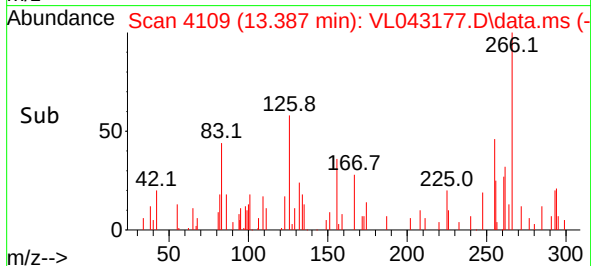
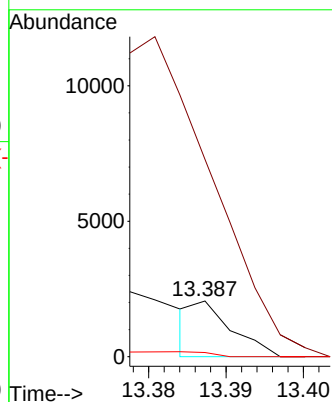
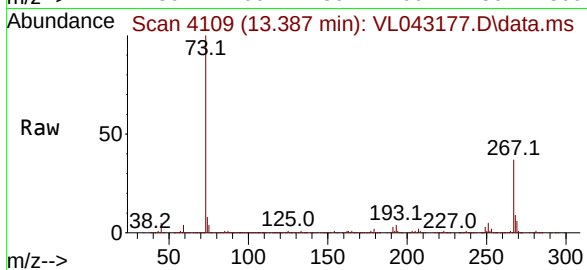
Tgt Ion:225 Resp: 704

Ion Ratio Lower Upper

225 100

223 0.0 50.2 75.4#

227 0.0 49.6 74.4#



#79

Naphthalene

Concen: 0.052 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

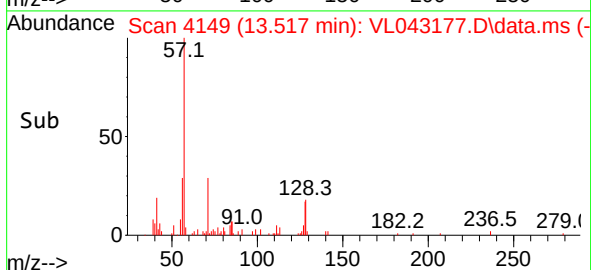
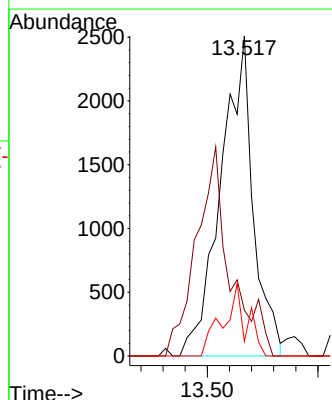
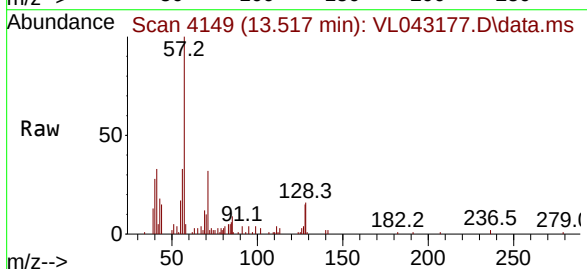
Tgt Ion:128 Resp: 2556

Ion Ratio Lower Upper

128 100

127 14.4 10.5 15.7

129 4.6 9.1 13.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043178.D
 Acq On : 06 Nov 2025 21:08
 Operator : SY/MD
 Sample : Q3557-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-2

Quant Time: Nov 07 00:29:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	131405	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	358615	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	303524	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	236795	10.037	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%

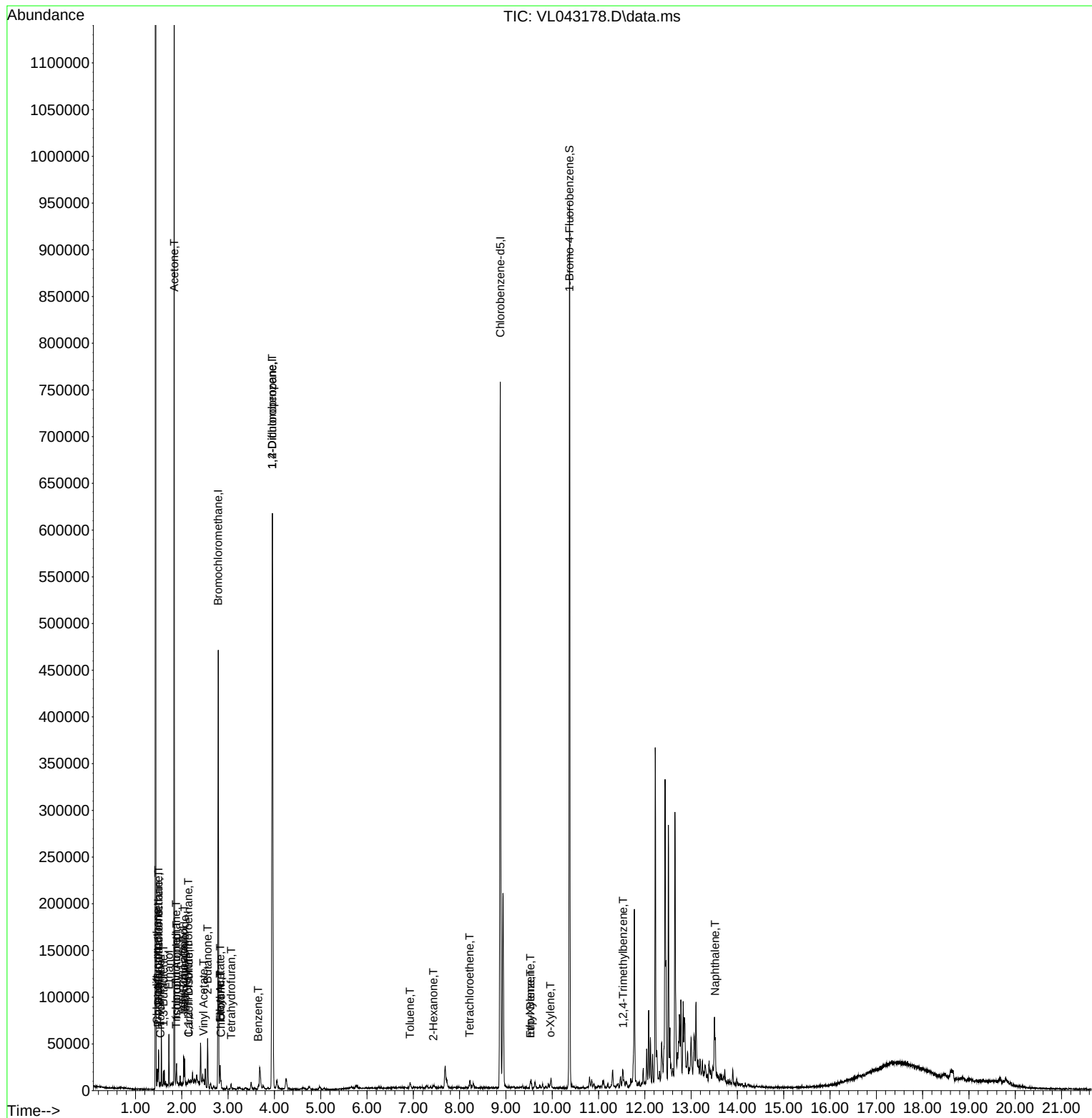
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9907	0.530	ppbv	99
3) Chlorodifluoromethane	1.466	51	7458	0.369	ppbv #	76
4) Chloromethane	1.534	50	719	0.097	ppbv #	81
8) Dichlorotetrafluoroethane	1.499	85	9907	0.656	ppbv #	20
9) Propene	1.486	41	2376	0.265	ppbv #	15
11) Trichlorofluoromethane	1.877	101	2805	0.154	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.140	101	497	0.034	ppbv #	51
13) Ethanol	1.722	45	18184	5.484	ppbv	92
15) Acetone	1.835	43	595518	33.623	ppbv	99
16) 1,3-Butadiene	1.602	39	2090	0.248	ppbv #	28
17) tert-Butyl alcohol	2.039	59	12433	0.511	ppbv #	94
19) Isopropyl Alcohol	1.887	45	8050	0.730	ppbv #	36
20) Methylene Chloride	2.062	84	3877	0.554	ppbv #	89
21) Allyl Chloride	2.039	41	3797	0.291	ppbv #	74
23) Vinyl Acetate	2.473	43	1109	0.043	ppbv #	41
25) Ethyl Acetate	2.829	43	4243	0.097	ppbv #	81
26) Hexane	2.826	57	5694	0.281	ppbv #	42
27) Carbon Disulfide	2.153	76	941	0.051	ppbv #	1
29) Chloroform	2.848	83	2672	0.091	ppbv #	72
34) 2-Butanone	2.557	43	32842	1.362	ppbv	98
36) Benzene	3.651	78	2082	0.062	ppbv #	82
39) 1,2-Dichloropropane	3.955	63	92451	7.487	ppbv #	25
41) Tetrahydrofuran	3.065	42	1517	0.113	ppbv #	86
51) 2-Hexanone	7.435	43	993	0.040	ppbv #	27
52) Tetrachloroethene	8.215	164	781	0.064	ppbv #	57
53) Toluene	6.930	91	3470	0.087	ppbv	95
58) Ethyl Benzene	9.526	91	1965	0.038	ppbv	93
59) m/p-Xylene	9.526	91	1965	0.047	ppbv #	55
60) o-Xylene	9.963	91	1551	0.038	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	3023	0.065	ppbv #	52
79) Naphthalene	13.516	128	1855	0.038	ppbv #	23

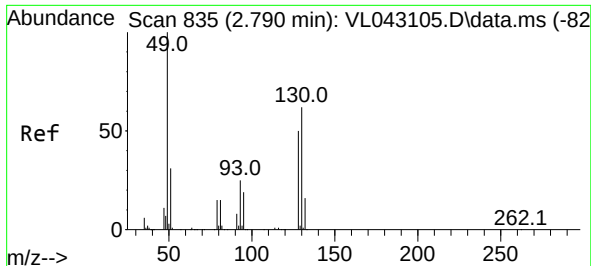
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043178.D
Acq On : 06 Nov 2025 21:08
Operator : SY/MD
Sample : Q3557-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
141-SG-2

Quant Time: Nov 07 00:29:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

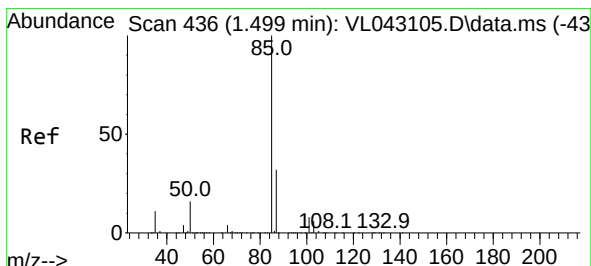
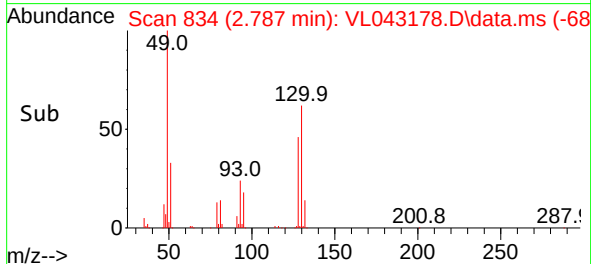
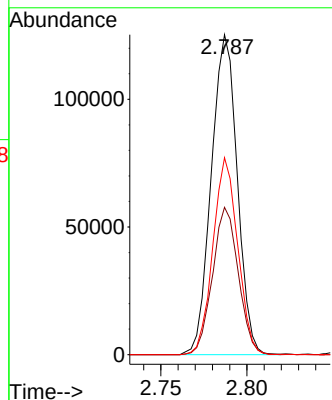
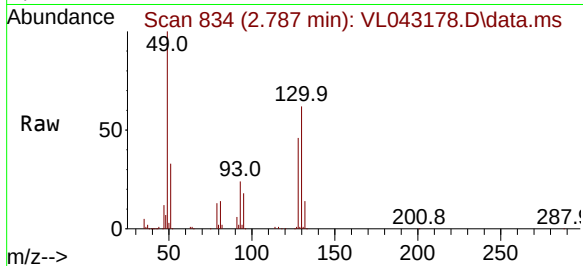




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

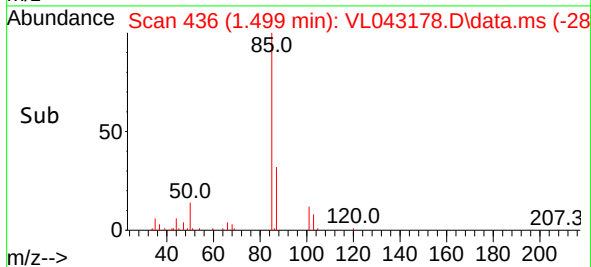
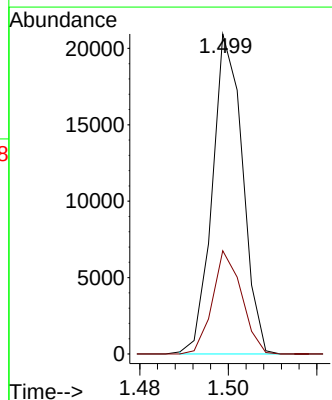
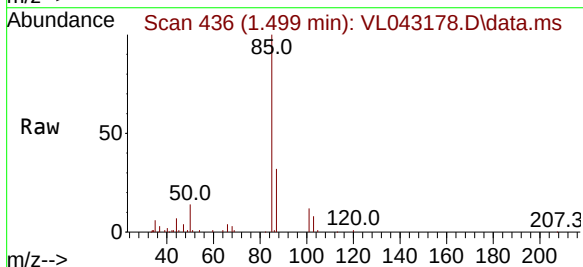
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

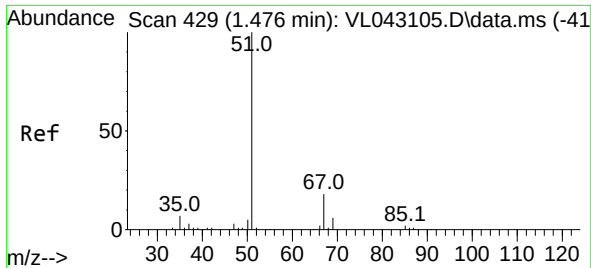
Tgt Ion: 49 Resp: 131405
Ion Ratio Lower Upper
49 100
128 45.8 24.4 73.4
130 58.7 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.530 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 85 Resp: 9907
Ion Ratio Lower Upper
85 100
87 32.3 25.3 37.9

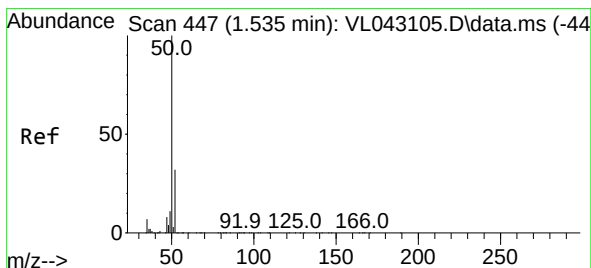
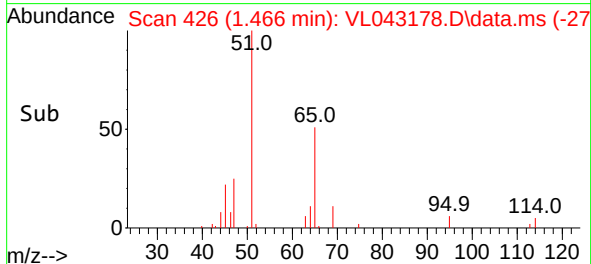
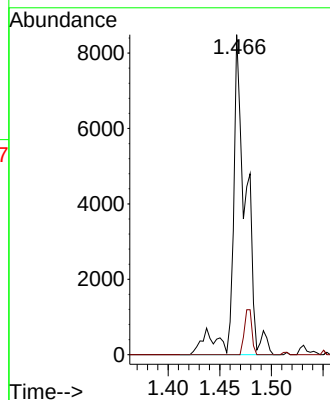
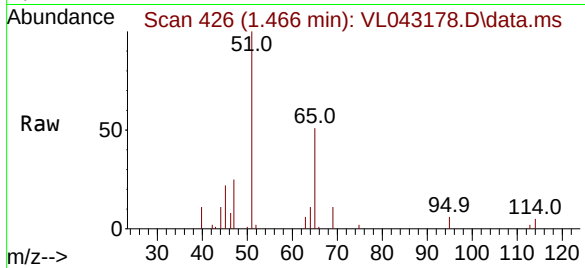




#3
Chlorodifluoromethane
Concen: 0.369 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

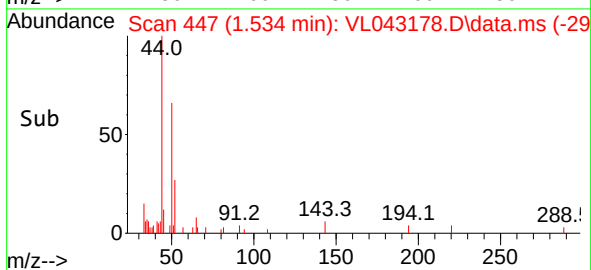
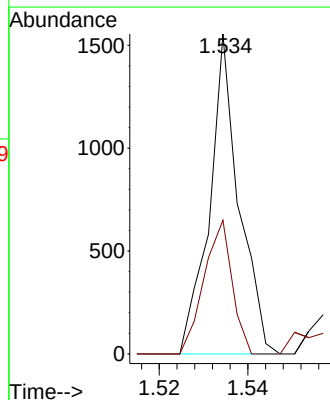
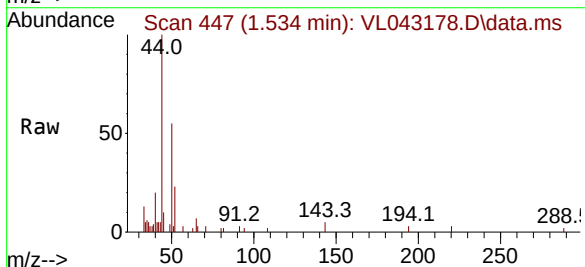
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

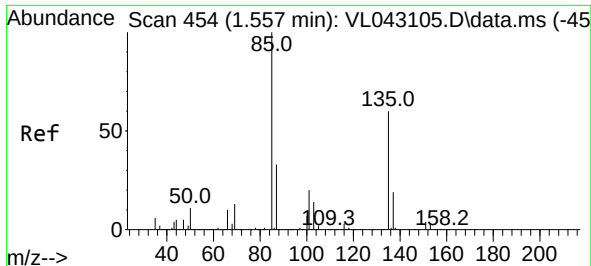
Tgt Ion: 51 Resp: 7458
Ion Ratio Lower Upper
51 100
67 8.0 15.1 22.7#



#4
Chloromethane
Concen: 0.097 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 50 Resp: 719
Ion Ratio Lower Upper
50 100
52 41.8 25.2 37.8#

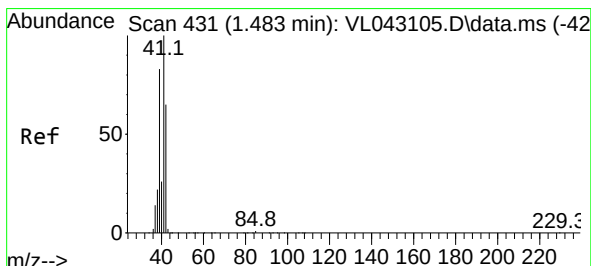
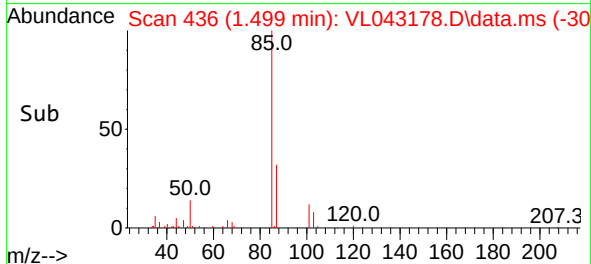
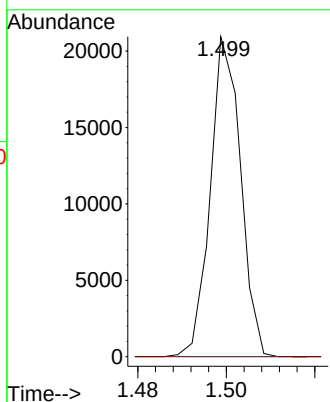
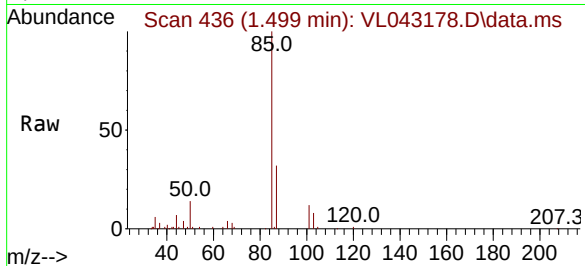




#8
 Dichlorotetrafluoroethane
 Concen: 0.656 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.058 min
 Lab File: VL043178.D
 Acq: 06 Nov 2025 21:08

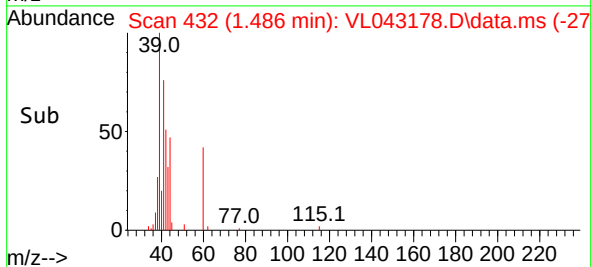
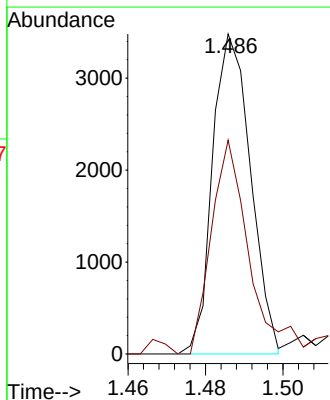
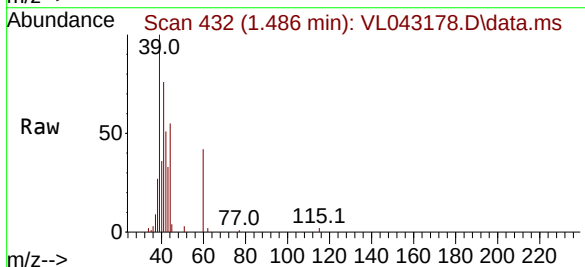
Instrument :
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 ClientSampleId :
 141-SG-2

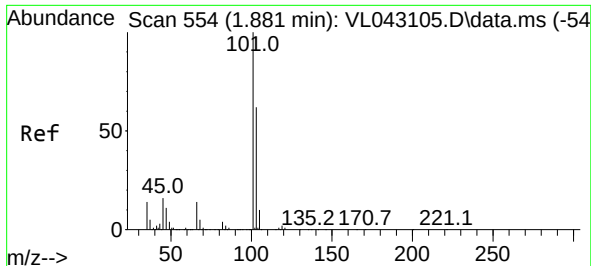
Tgt Ion: 85 Resp: 9907
 Ion Ratio Lower Upper
 85 100
 135 0.0 48.2 72.4#



#9
 Propene
 Concen: 0.265 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.003 min
 Lab File: VL043178.D
 Acq: 06 Nov 2025 21:08

Tgt Ion: 41 Resp: 2376
 Ion Ratio Lower Upper
 41 100
 42 0.0 55.1 82.7#

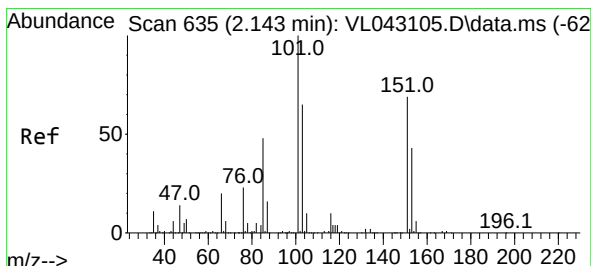
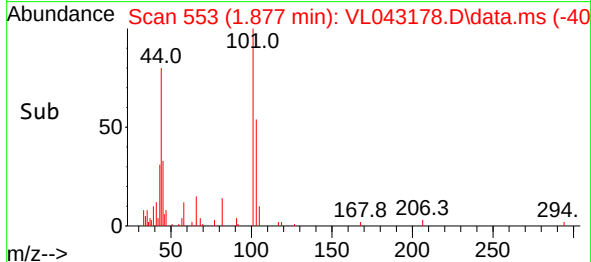
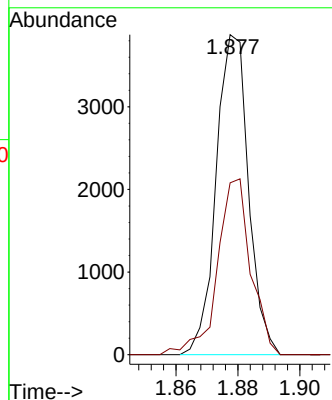
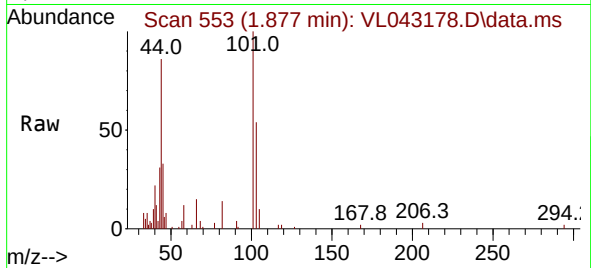




#11
Trichlorofluoromethane
Concen: 0.154 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

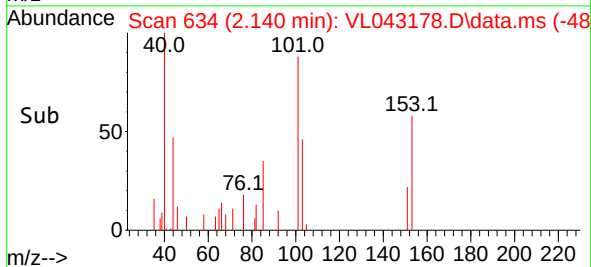
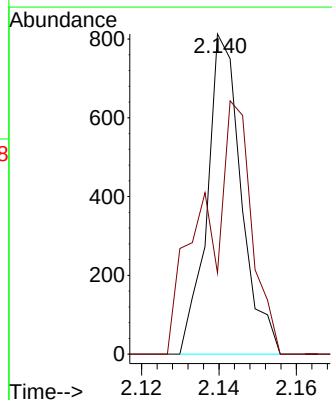
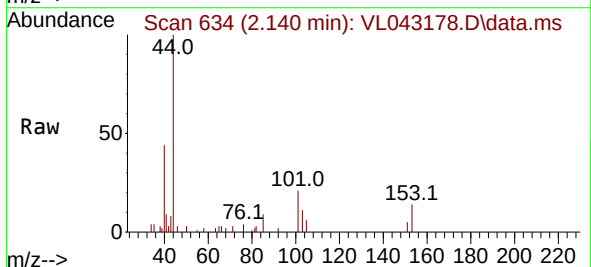
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

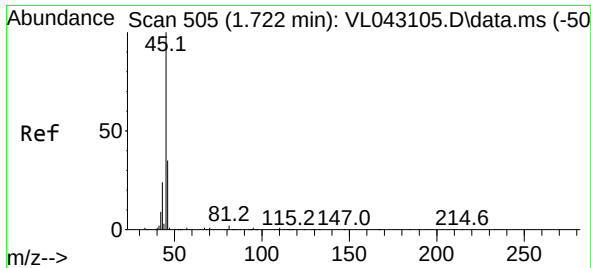
Tgt Ion:101 Resp: 2805
Ion Ratio Lower Upper
101 100
103 53.7 49.3 73.9



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.034 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion:101 Resp: 497
Ion Ratio Lower Upper
101 100
151 108.0 54.7 82.1#

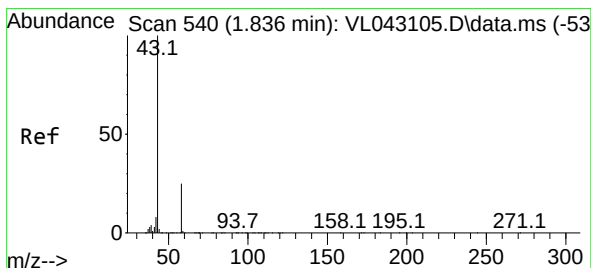
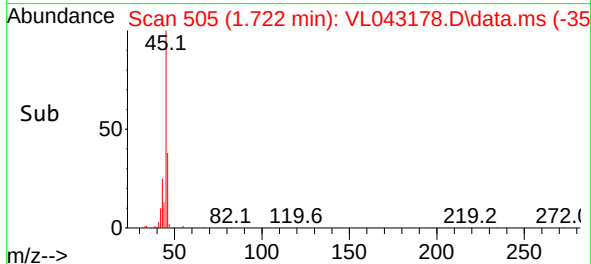
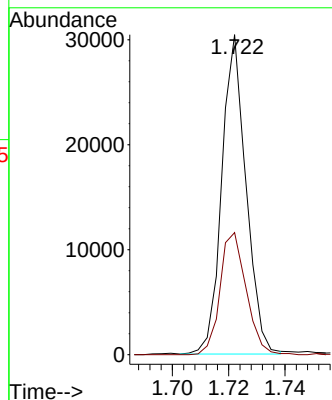
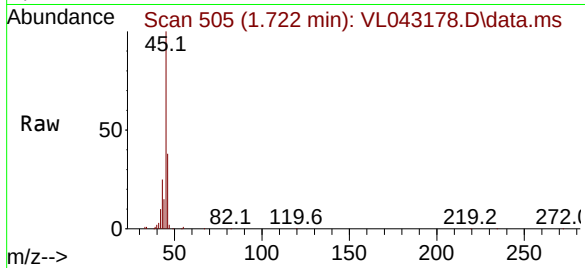




#13
Ethanol
Concen: 5.484 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

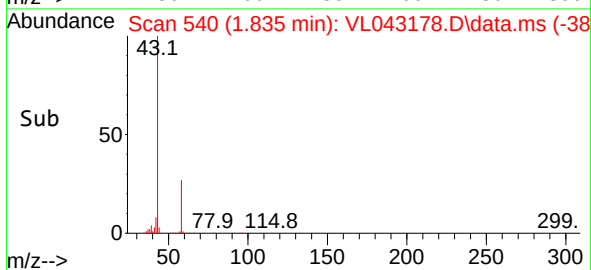
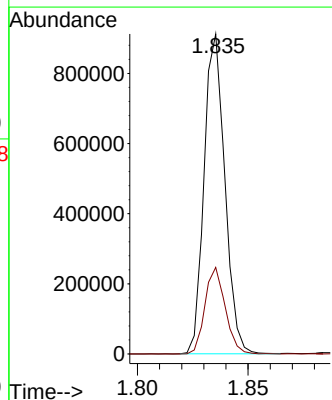
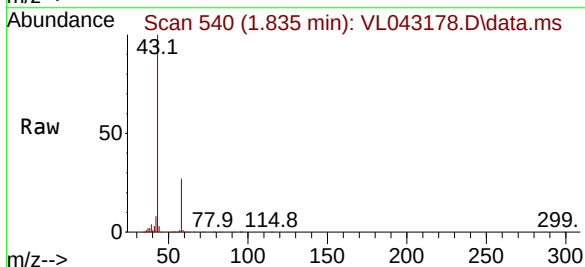
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

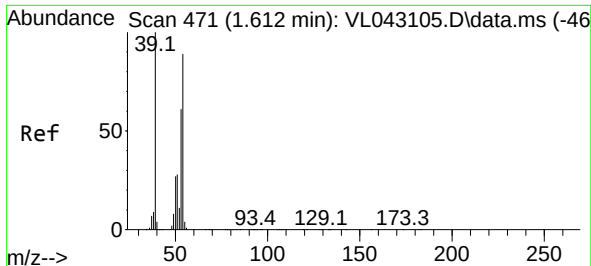
Tgt Ion: 45 Resp: 18184
Ion Ratio Lower Upper
45 100
46 41.4 14.7 58.9



#15
Acetone
Concen: 33.623 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 43 Resp: 595518
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2

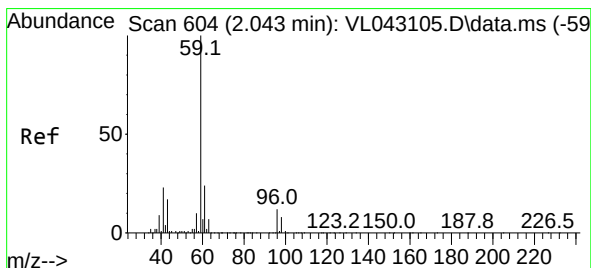
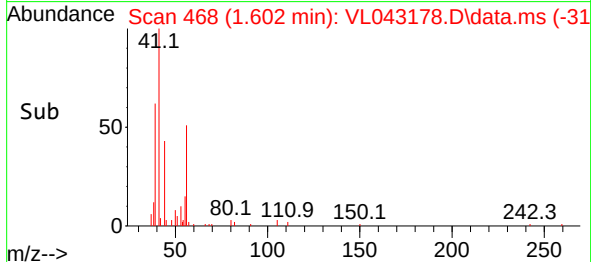
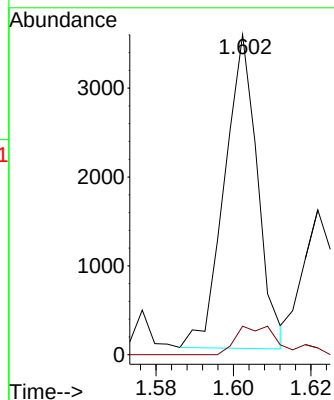
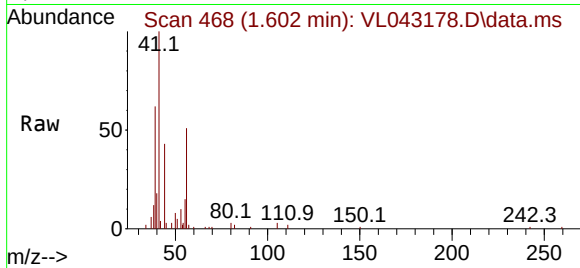




#16
1,3-Butadiene
Concen: 0.248 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

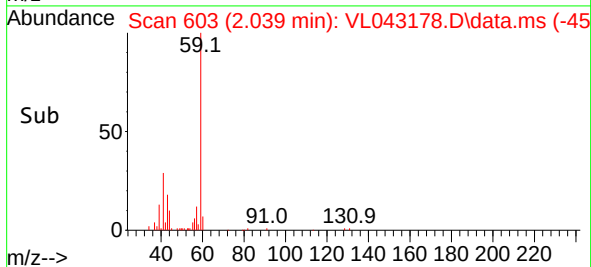
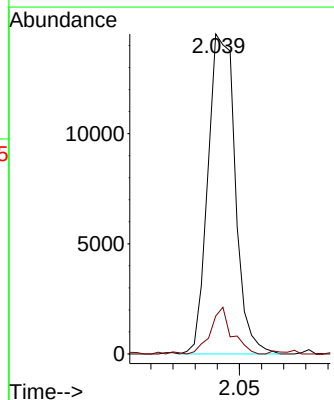
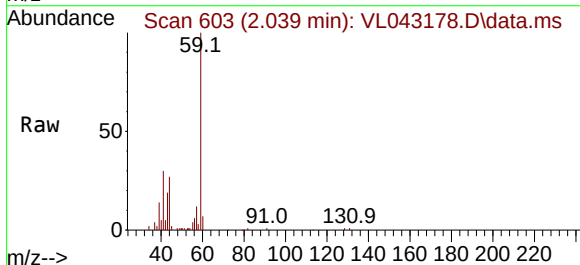
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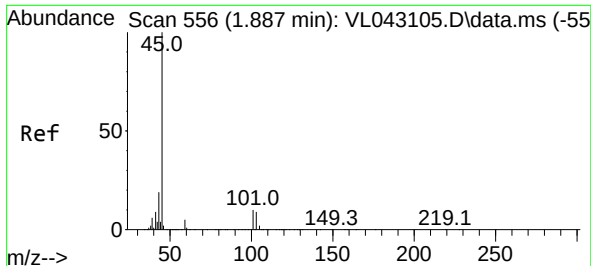
Tgt Ion: 39 Resp: 2090
Ion Ratio Lower Upper
39 100
54 12.6 59.0 88.4#



#17
tert-Butyl alcohol
Concen: 0.511 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 59 Resp: 12433
Ion Ratio Lower Upper
59 100
57 12.6 8.2 12.4#

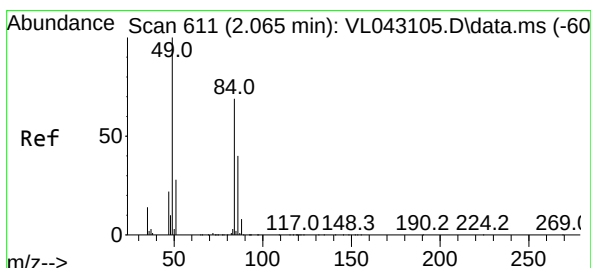
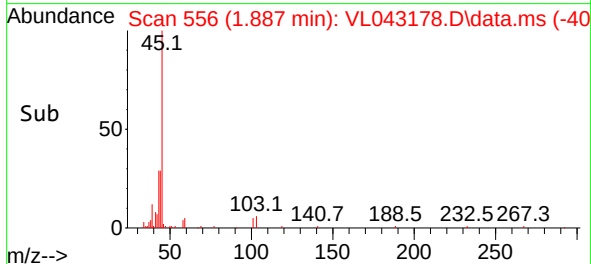
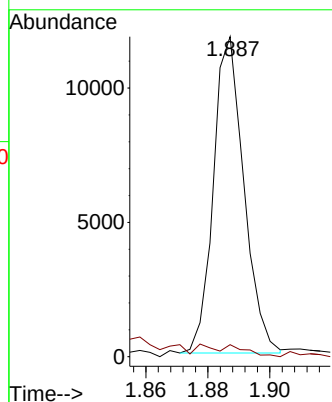
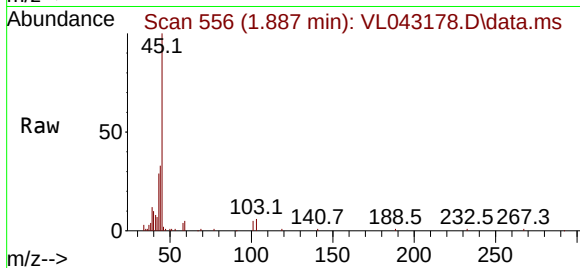




#19
Isopropyl Alcohol
Concen: 0.730 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

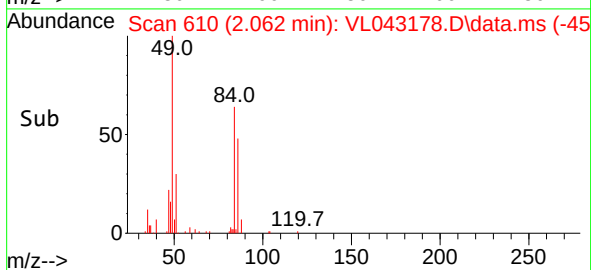
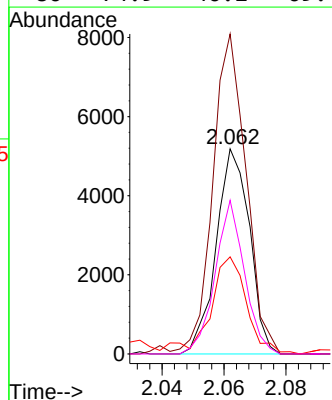
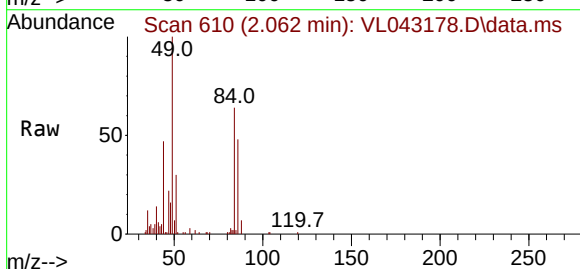
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

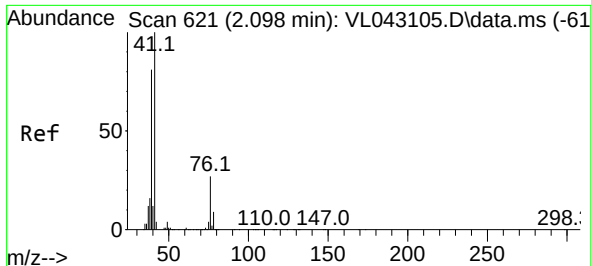
Tgt Ion: 45 Resp: 8050
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9#



#20
Methylene Chloride
Concen: 0.554 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 84 Resp: 3877
Ion Ratio Lower Upper
84 100
49 156.0 116.6 175.0
51 46.3 34.8 52.2
86 74.9 46.2 69.4#

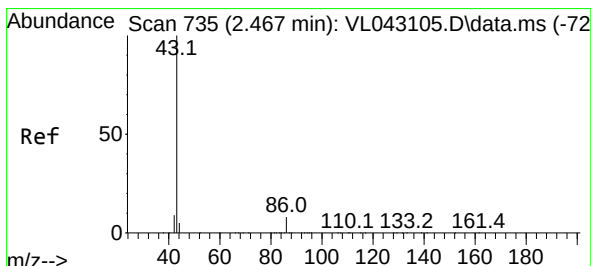
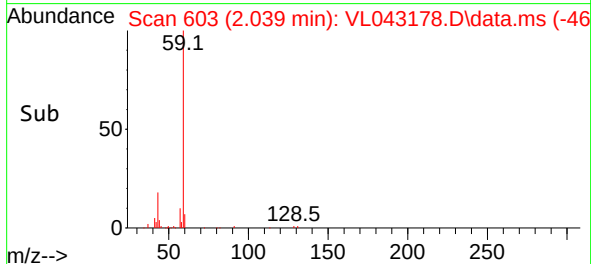
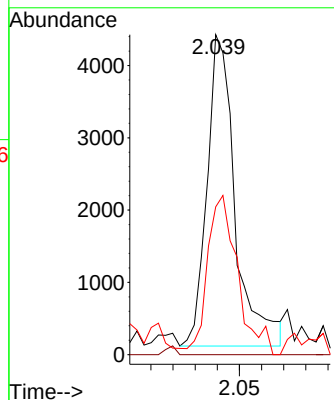
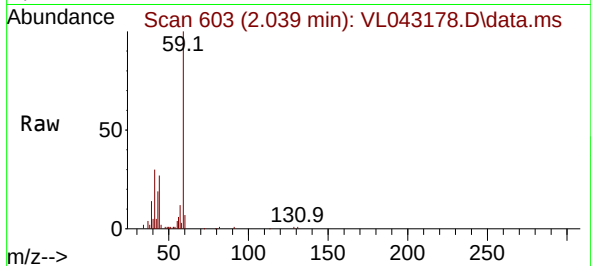




#21
 Allyl Chloride
 Concen: 0.291 ppbv
 RT: 2.039 min Scan# 603
 Delta R.T. -0.058 min
 Lab File: VL043178.D
 Acq: 06 Nov 2025 21:08

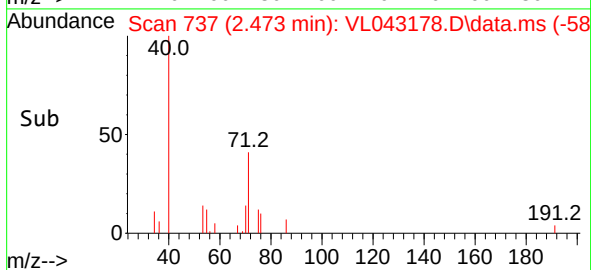
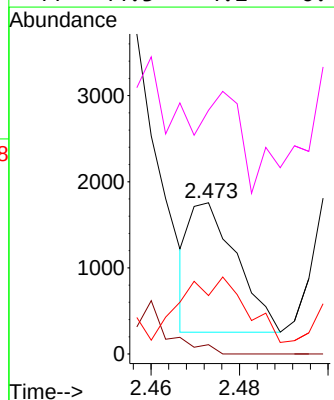
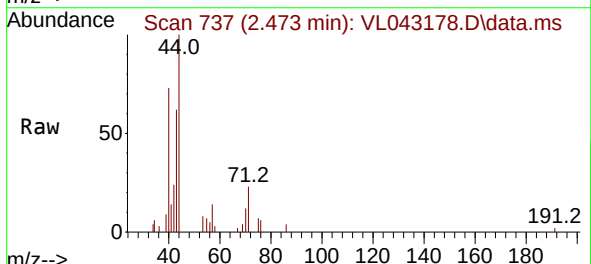
Instrument :
 MSVOA_1
 ClientSampleId :
 141-SG-2

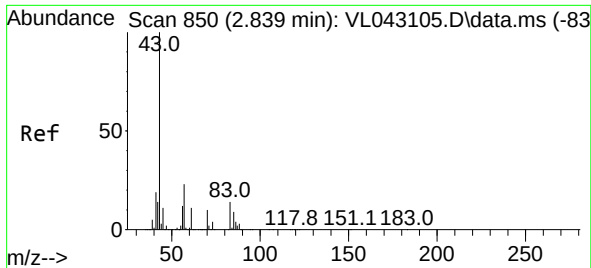
Tgt Ion: 41	Resp: 3797
Ion Ratio	Lower Upper
41 100	
76 0.0	21.5 32.3#
39 62.0	60.8 91.2



#23
 Vinyl Acetate
 Concen: 0.043 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.006 min
 Lab File: VL043178.D
 Acq: 06 Nov 2025 21:08

Tgt Ion: 43	Resp: 1109
Ion Ratio	Lower Upper
43 100	
86 7.2	6.2 9.2
42 36.2	7.6 11.4#
44 44.3	4.2 6.4#

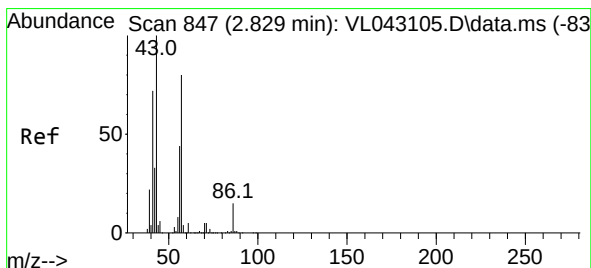
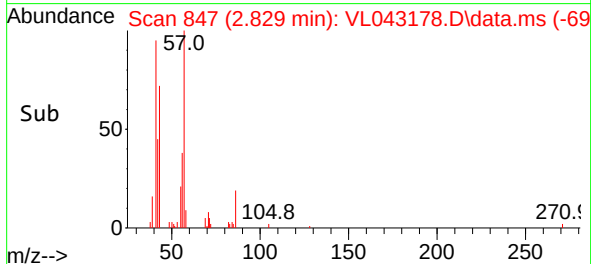
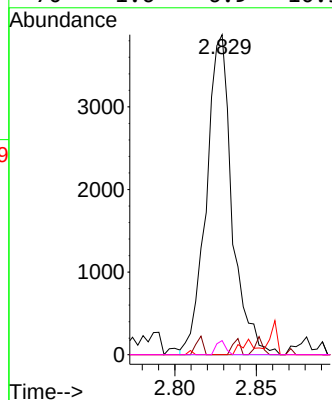
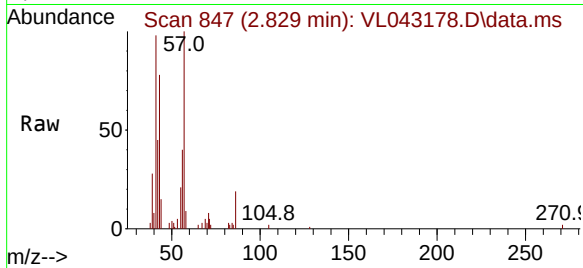




#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.010 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

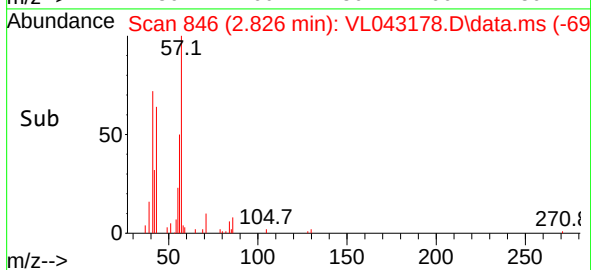
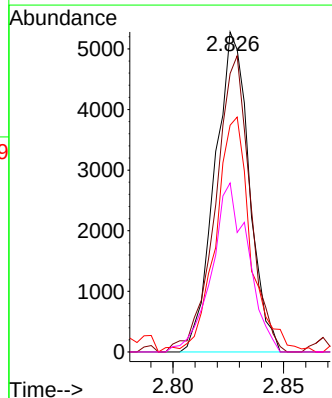
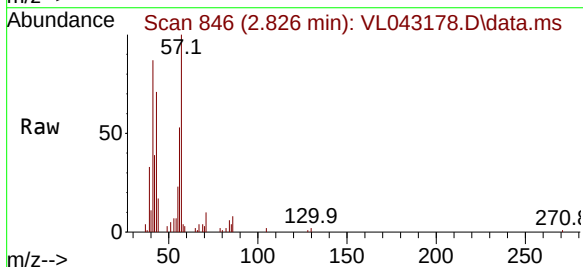
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

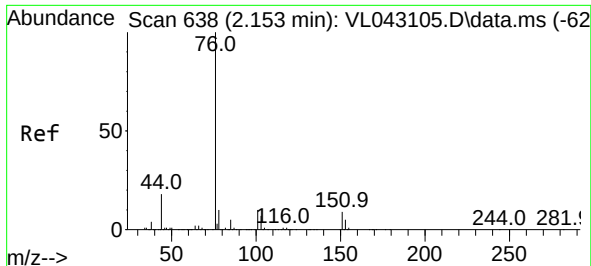
Tgt Ion:	43	Resp:	4243
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	5.6	7.0	10.6#
70	1.6	6.9	10.3#



#26
Hexane
Concen: 0.281 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion:	57	Resp:	5694
Ion	Ratio	Lower	Upper
57	100		
41	95.1	71.4	107.0
43	75.2	178.5	267.7#
56	55.9	42.2	63.4





#27

Carbon Disulfide

Concen: 0.051 ppbv

RT: 2.153 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

Instrument :

MSVOA_L

ClientSampleId :

141-SG-2

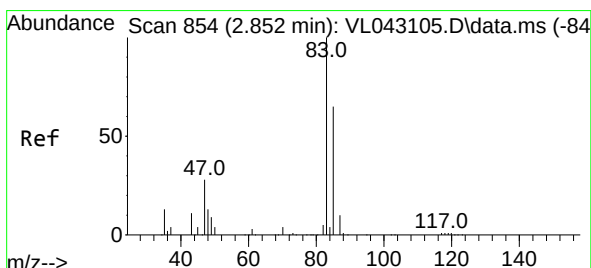
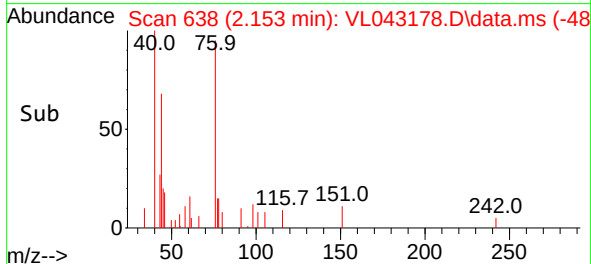
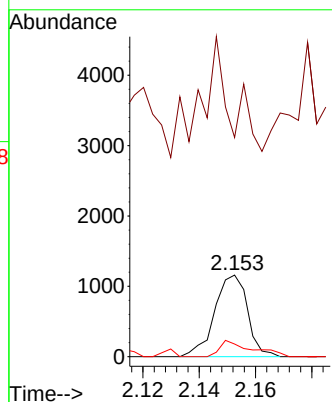
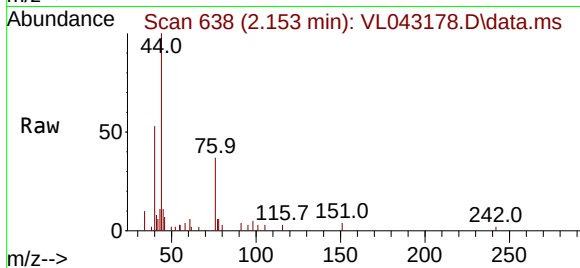
Tgt Ion: 76 Resp: 941

Ion Ratio Lower Upper

76 100

44 522.5 16.7 25.1#

78 19.3 9.3 13.9#



#29

Chloroform

Concen: 0.091 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.003 min

Lab File: VL043178.D

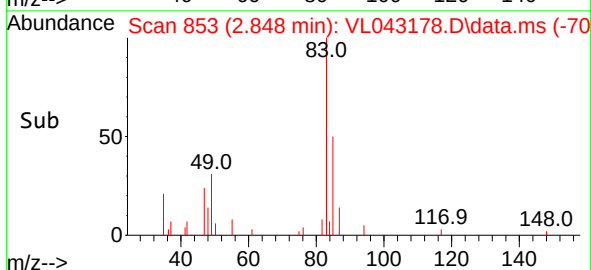
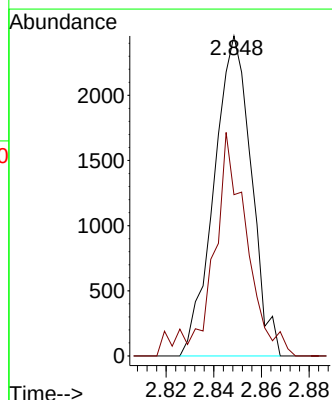
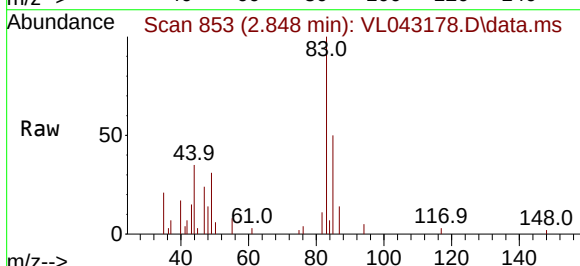
Acq: 06 Nov 2025 21:08

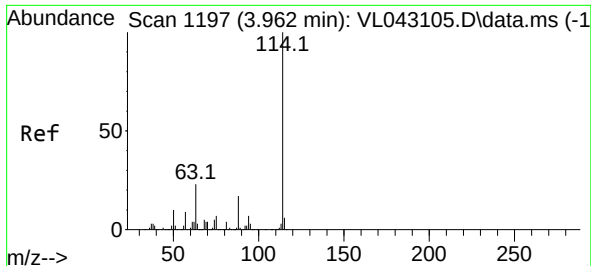
Tgt Ion: 83 Resp: 2672

Ion Ratio Lower Upper

83 100

85 42.8 51.8 77.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

Instrument :

MSVOA_1

ClientSampleId :

141-SG-2

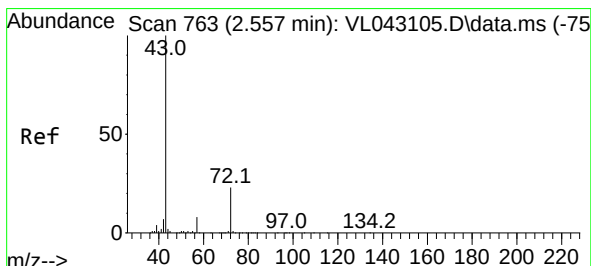
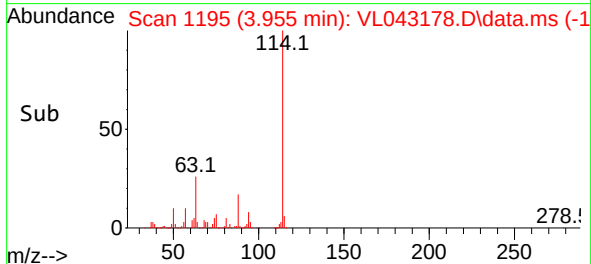
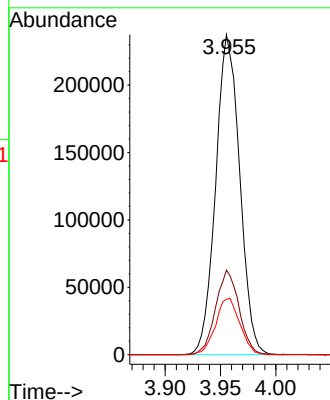
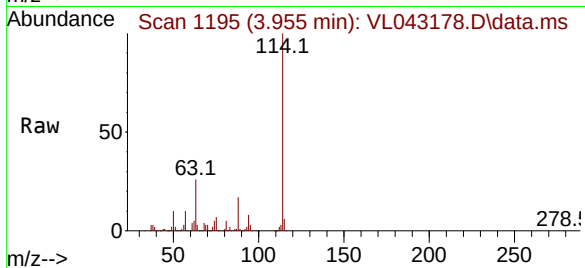
Tgt Ion:114 Resp: 358615

Ion Ratio Lower Upper

114 100

63 25.8 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 1.362 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043178.D

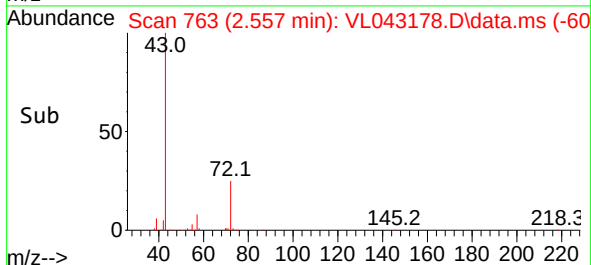
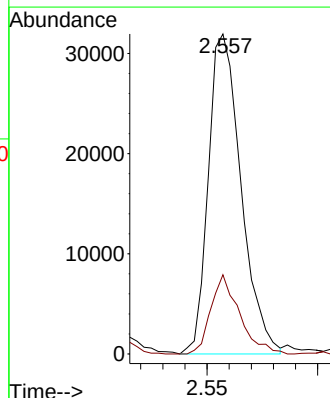
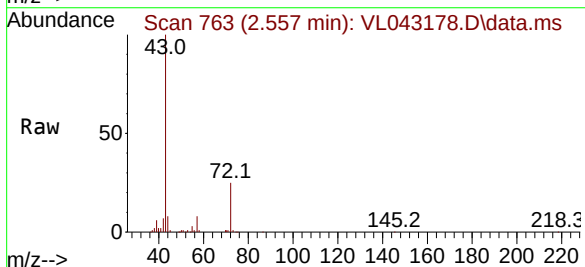
Acq: 06 Nov 2025 21:08

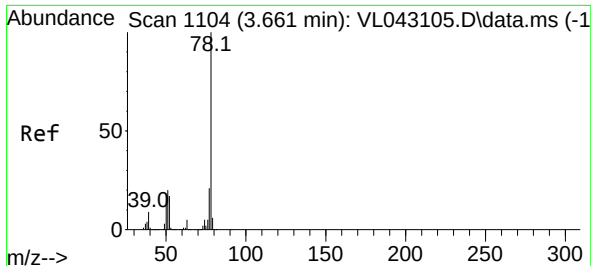
Tgt Ion: 43 Resp: 32842

Ion Ratio Lower Upper

43 100

72 22.0 18.4 27.6

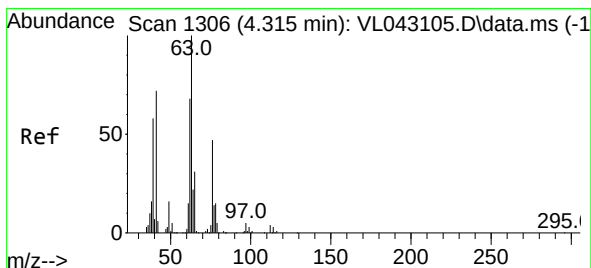
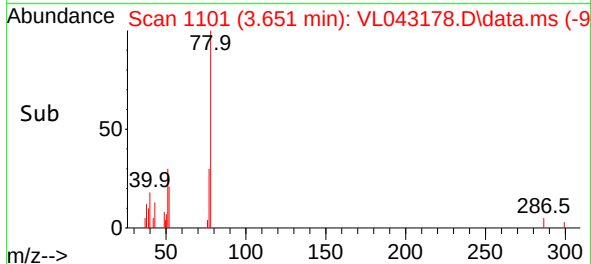
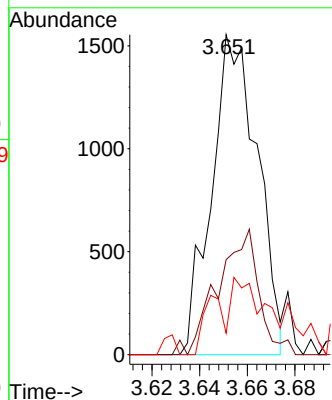
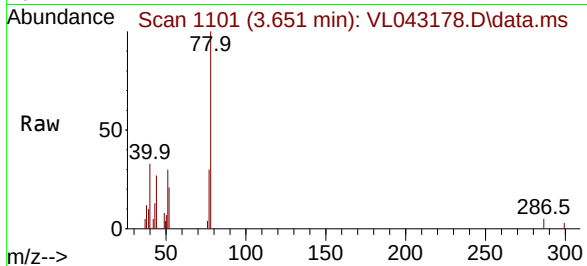




#36
Benzene
Concen: 0.062 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

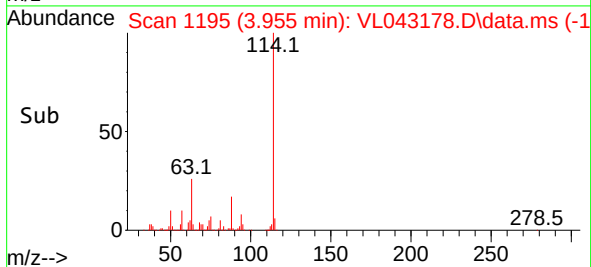
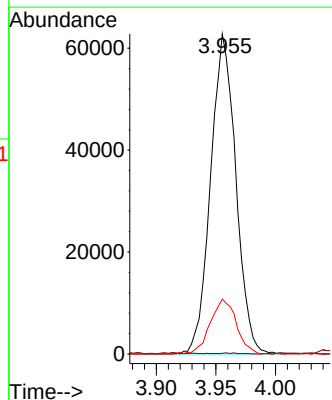
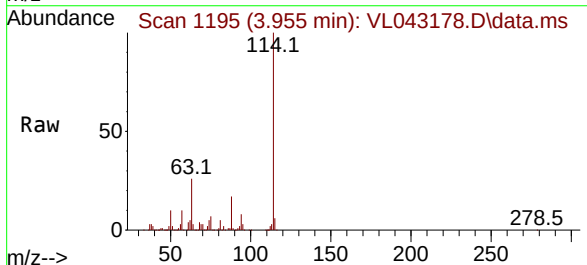
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

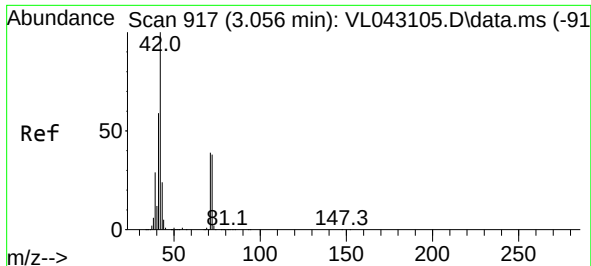
Tgt Ion: 78 Resp: 2082
Ion Ratio Lower Upper
78 100
77 26.1 17.0 25.6#
50 6.7 14.6 22.0#



#39
1,2-Dichloropropane
Concen: 7.487 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.360 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 63 Resp: 92451
Ion Ratio Lower Upper
63 100
41 0.0 58.0 87.0#
62 17.0 54.7 82.1#





#41

Tetrahydrofuran

Concen: 0.113 ppbv

RT: 3.065 min Scan# 91

Delta R.T. 0.009 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

Instrument :

MSVOA_1

ClientSampleId :

141-SG-2

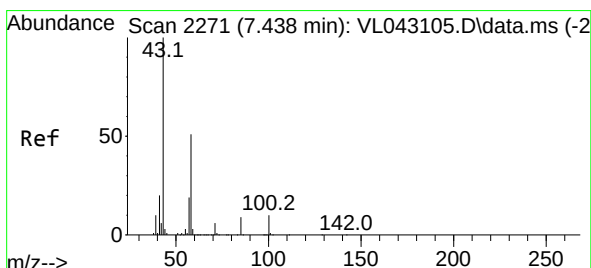
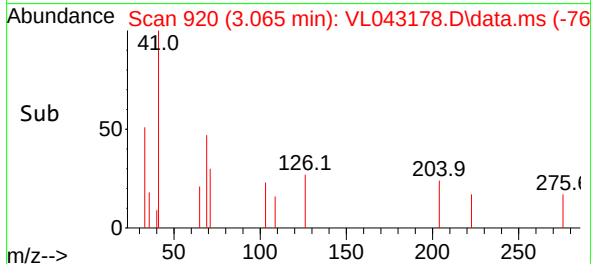
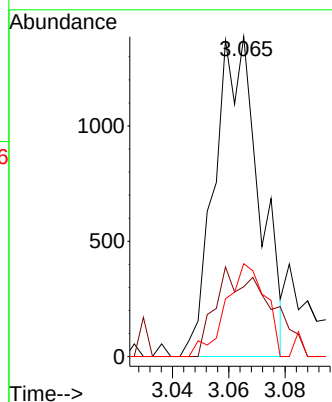
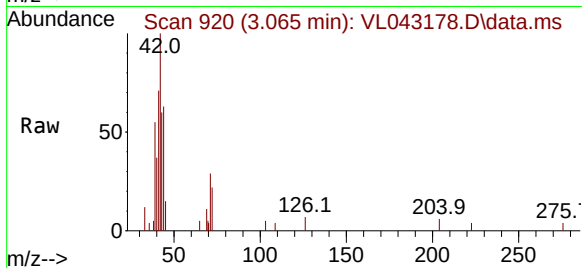
Tgt Ion: 42 Resp: 1517

Ion Ratio Lower Upper

42 100

72 33.4 31.3 46.9

71 27.2 30.4 45.6#



#51

2-Hexanone

Concen: 0.040 ppbv

RT: 7.435 min Scan# 2270

Delta R.T. -0.003 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

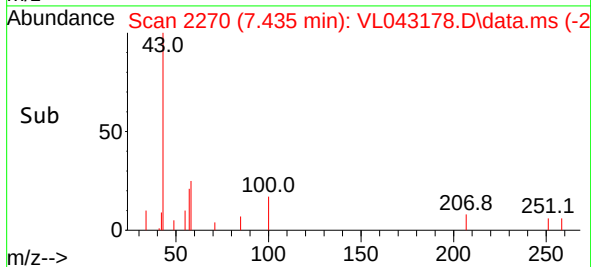
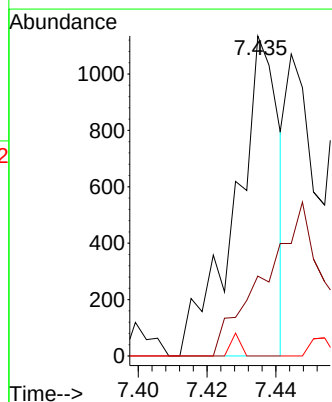
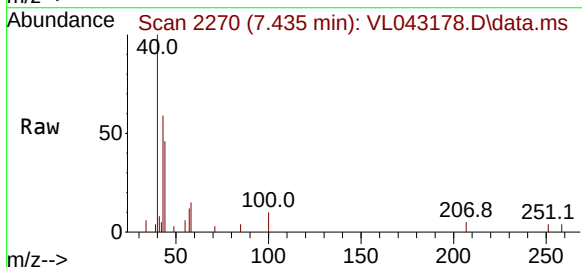
Tgt Ion: 43 Resp: 993

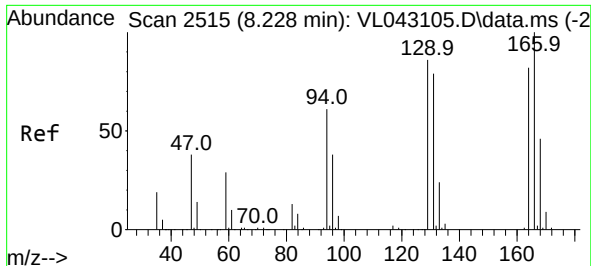
Ion Ratio Lower Upper

43 100

58 0.0 40.4 60.6#

98 0.0 0.1 0.1#

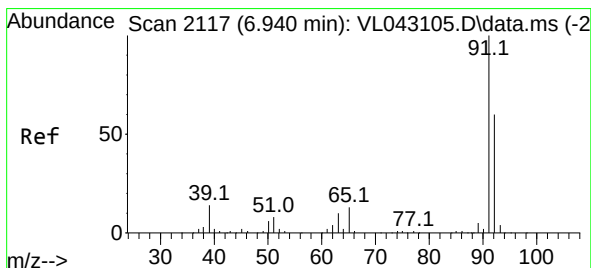
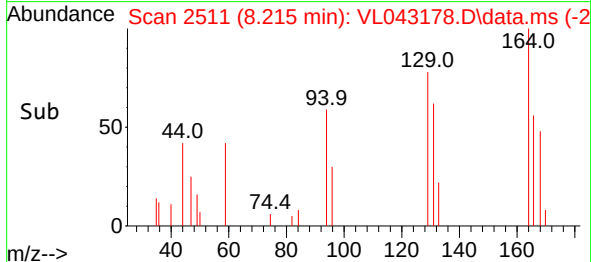
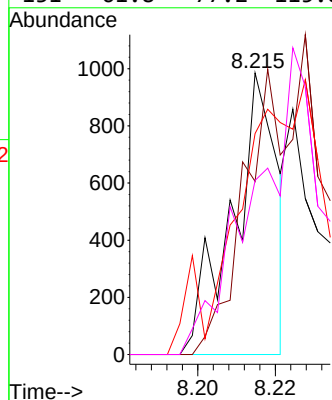
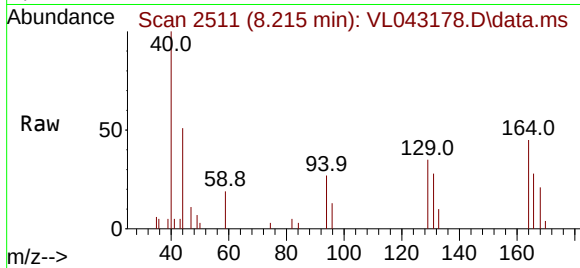




#52
Tetrachloroethene
Concen: 0.064 ppbv
RT: 8.215 min Scan# 2115
Delta R.T. -0.013 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

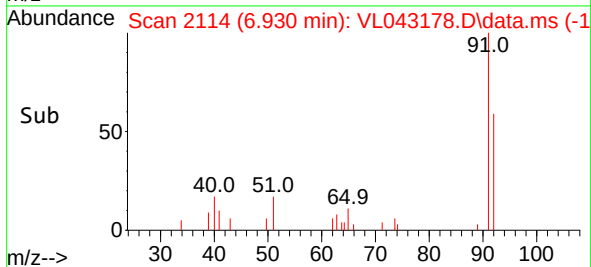
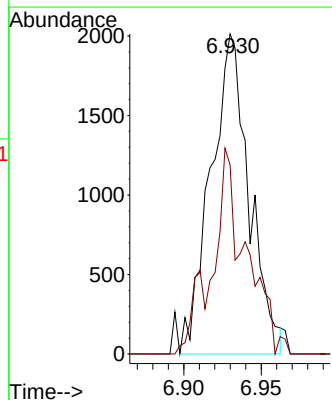
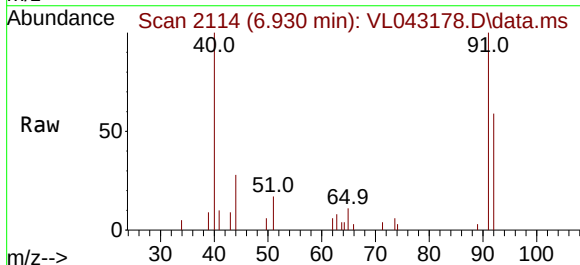
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2

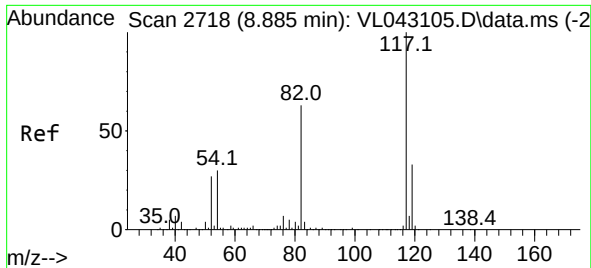
Tgt Ion:164 Resp: 781
Ion Ratio Lower Upper
164 100
166 61.5 97.6 146.4#
129 67.5 84.5 126.7#
131 61.8 77.2 115.8#



#53
Toluene
Concen: 0.087 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.010 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 91 Resp: 3470
Ion Ratio Lower Upper
91 100
92 57.2 48.8 73.2

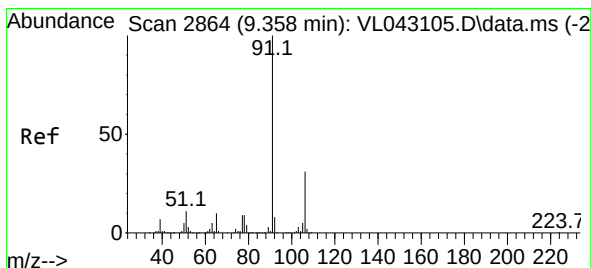
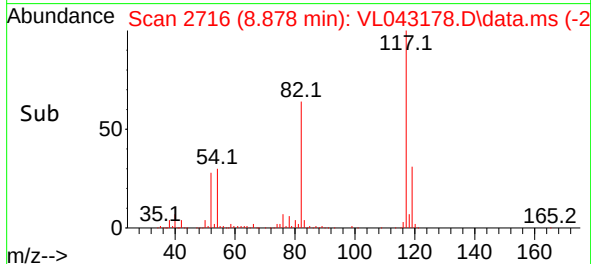
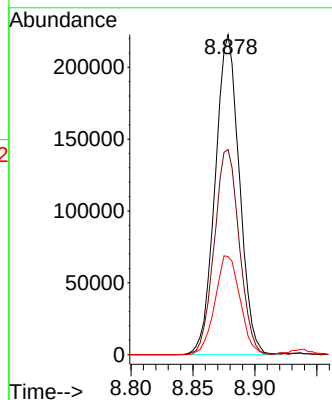
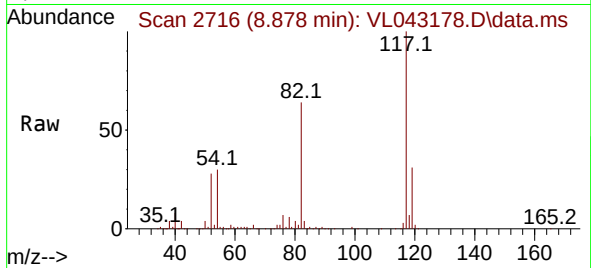




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

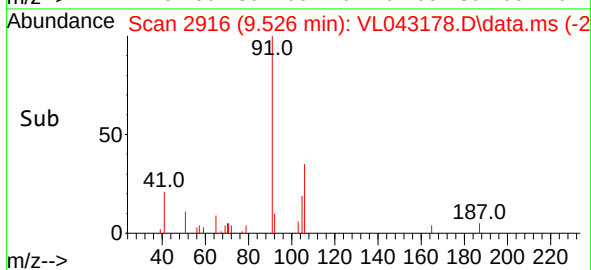
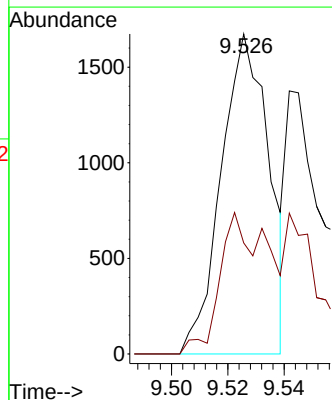
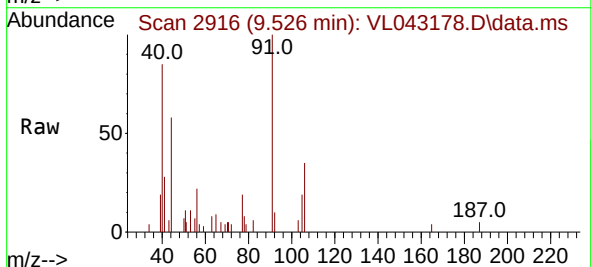
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

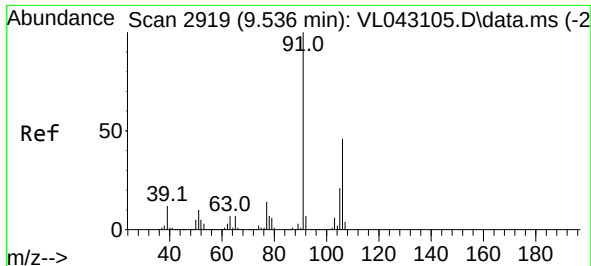
Tgt Ion:117 Resp: 303524
Ion Ratio Lower Upper
117 100
82 66.5 53.8 80.8
119 32.1 25.4 38.0



#58
Ethyl Benzene
Concen: 0.038 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. 0.168 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 91 Resp: 1965
Ion Ratio Lower Upper
91 100
106 34.7 24.8 37.2

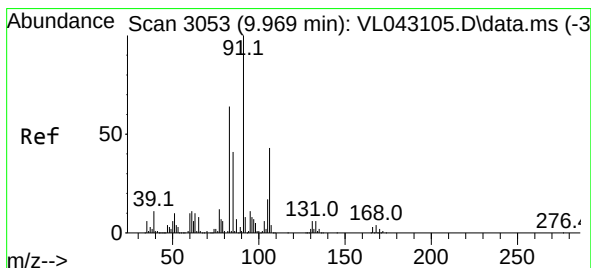
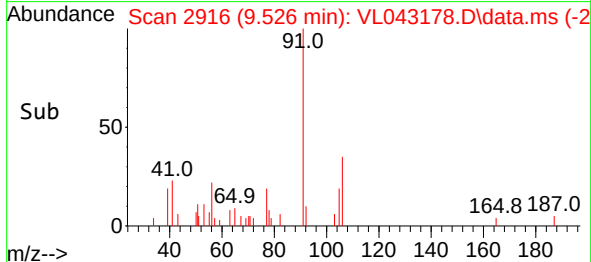
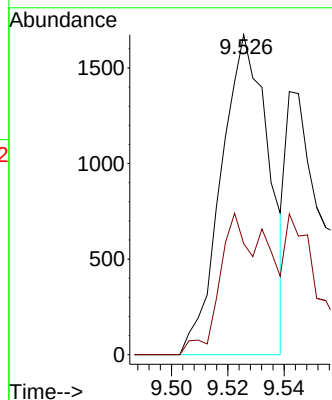
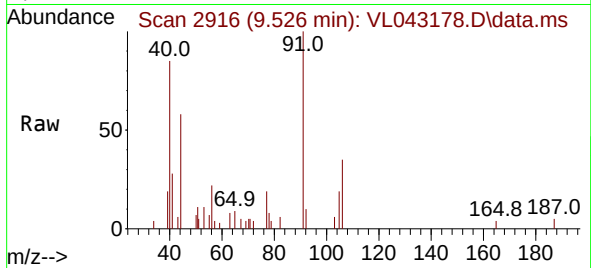




#59
m/p-Xylene
Concen: 0.047 ppbv
RT: 9.526 min Scan# 2919
Delta R.T. -0.010 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

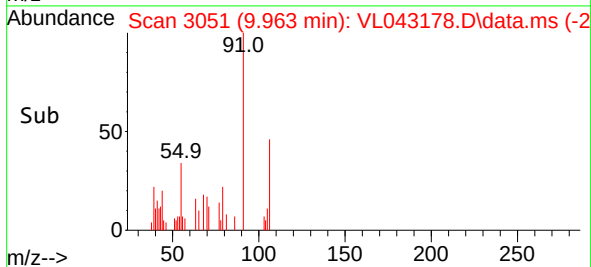
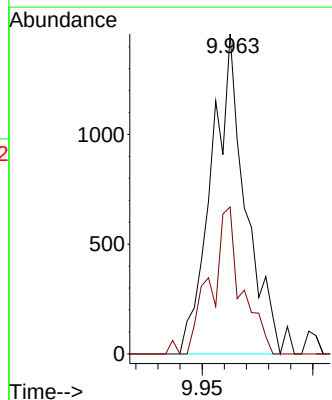
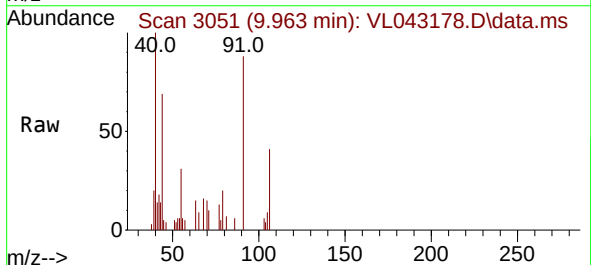
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

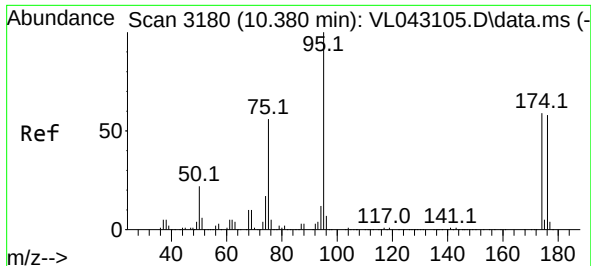
Tgt Ion: 91 Resp: 1965
Ion Ratio Lower Upper
91 100
106 77.5 38.0 57.0#



#60
o-Xylene
Concen: 0.038 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 91 Resp: 1551
Ion Ratio Lower Upper
91 100
106 42.2 21.9 65.8

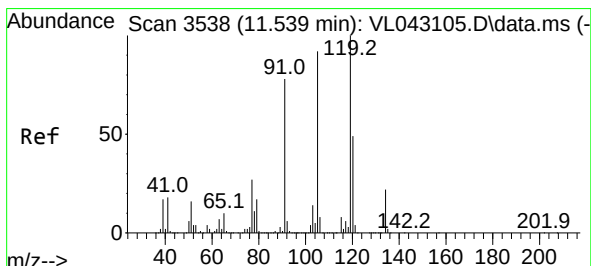
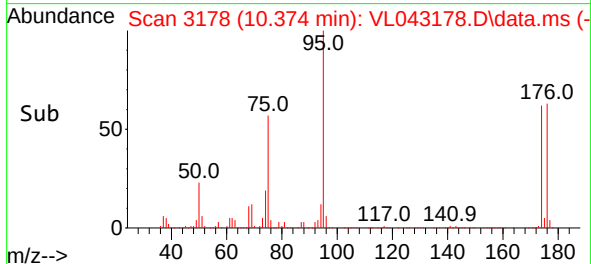
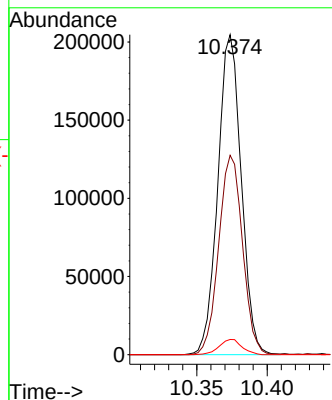
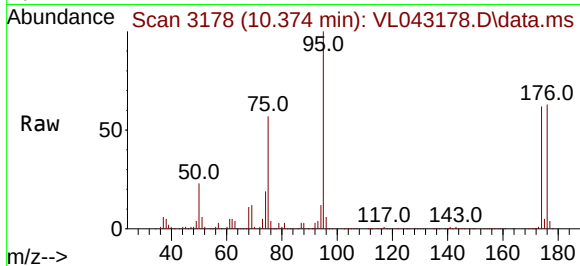




#68
1-Bromo-4-Fluorobenzene
Concen: 10.037 ppbv
RT: 10.374 min Scan# 3180
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

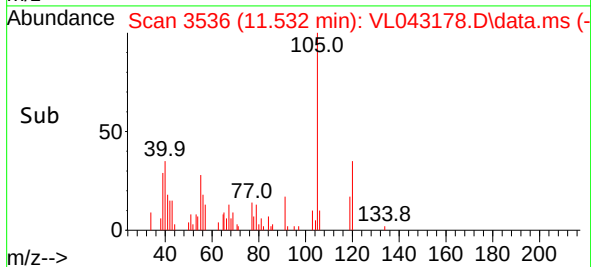
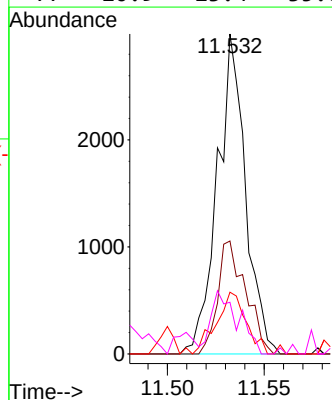
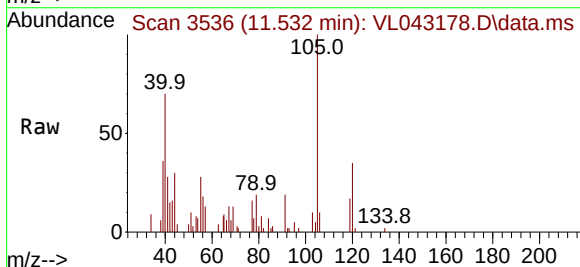
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2

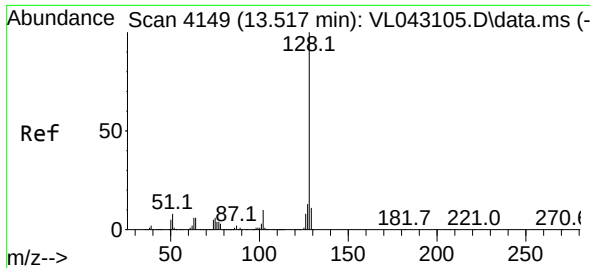
Tgt Ion: 95 Resp: 236795
Ion Ratio Lower Upper
95 100
174 63.5 48.3 72.5
175 4.6 3.8 5.8



#74
1,2,4-Trimethylbenzene
Concen: 0.065 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 105 Resp: 3023
Ion Ratio Lower Upper
105 100
120 35.3 42.8 64.2#
91 19.3 68.3 102.5#
77 20.9 23.4 35.0#





#79

Naphthalene

Concen: 0.038 ppbv

RT: 13.516 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043178.D

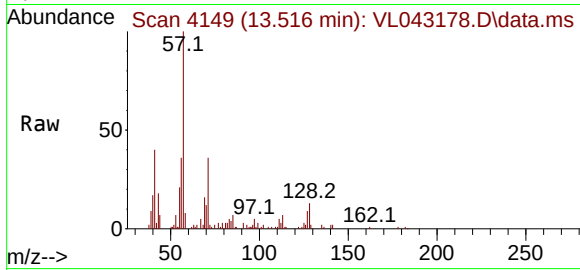
Acq: 06 Nov 2025 21:08

Instrument :

MSVOA_1

ClientSampleId :

141-SG-2



Tgt Ion:	128	Resp:	1855
Ion	Ratio	Lower	Upper
128	100		
127	68.0	10.5	15.7#
129	13.7	9.1	13.7#

