

Cover Page

Order ID : Q3696

Project ID : 90-73 Sutphin Blvd Jamaica, NY

Client : GFE LLC

Lab Sample Number

Q3696-01
Q3696-02
Q3696-03
Q3696-04
Q3696-05
Q3696-06
Q3696-07

Client Sample Number

SV1
IA1
SV2
IA2
SV3
IA3
OA1

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

Signature : _____

Date: 11/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information						Bottle Order ID : B2511028				Courier : <u>F Galdun</u>				1 of 7 COCs					
Client ID : GFEL01 Project ID : All Projects						Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis				Matrix					
Customer GFE LLC Name : Address : 58 Nokomis Ave						Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
						Phone Number : 646-542-3465													
						Fax Number : 973-334-1692													
						Site Details: <u>90-73 SURPHIN BLVD. JAMAICA, NY</u>													
City : Lake Hiawatha						Analysis Turnaround Time <u>7 DAY</u>				Data Package Type : <u>RESULTS ONLY</u>									
State : NJ						Standard : 10 business days OR													
Zip Code : 07034						Rush (Specify): <u>7</u> Days				EDD Type : <u>PDF</u>									
Country :																			
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	<u>TO-15</u>			Indoor/Ambient Air	Soil Gas
<u>SVI</u>	<u>11/19/25</u>	<u>10:19</u>	<u>12:19</u>	<u>0.850</u>	<u>3.5</u>	<u>55</u>	<u>55</u>	<u>-30</u>	<u>-4.7</u>	<u>10617</u>	<u>10329</u>	<u>6 L</u>	<u>50</u>	<u>VL043135.D</u>	<u>1</u>				<u>1</u>
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <u>[Signature]</u>									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST</u> Please follow the instructions on the back of this COC.									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																			
Sampling site (State):																			
Quick Connector required : <u>No</u>																			
Canisters Shipped by: <u>[Signature]</u>					Date/Time: <u>11/14/15</u>					Canisters Received by: <u>CR</u>					Date/Time: <u>11/20/25 12:07</u>				
Samples Relinquished by: <u>[Signature]</u>					Date/Time: <u>11/20/25</u>					Received by:					Date/Time:				
Relinquished by:					Date/Time:					Received by:					Date/Time:				

Client Contact Information				Bottle Order ID : B2511028				Courier : <u>FGALDUN</u>				<u>2</u> of <u>7</u> COCs							
Client ID : GFEL01 Project ID : All Projects				Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis				Matrix							
Customer GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified											
				Phone Number : 646-542-3465															
				Fax Number : 973-334-1692															
City : Lake Hiawatha				Site Details: <u>90-73 SURPHIN BLVD JAMAICA, NY</u>															
State : NJ				Analysis Turnaround Time <u>7</u>															
Zip Code : 07034				Standard : <u>10 business days</u> OR															
Country :				Rush (Specify): <u>7</u> Days				Data Package Type : <u>RESULTS ONLY</u>				EDD Type : <u>PDF</u>							
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	<u>TO-15</u>			<u>Indoor/Ambient Air</u>	<u>Soil Gas</u>
<u>IA1</u>	<u>11/14/25</u>	<u>12:20</u>	<u>30</u>	<u>5.5</u>	<u>5.5</u>	<u>5.5</u>		<u>-29</u>	<u>-4.3</u>	<u>10479</u>	<u>10598</u>	<u>6 L</u>	<u>50</u>	<u>VL043135.D</u>	<u>1</u>			<u>1</u>	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <u>Sid</u>									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY. THOSE ANALYTES ON THE ATTACHED LIST</u> Please follow the instructions on the back of this COC.									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium <u>Low</u> PID Readings <u>0.0</u>																			
Sampling site (State):																			
Quick Connector required : <u>Yes</u>																			
Canisters Shipped by: <u>Sgt</u>					Date/Time: <u>11/14/25</u>					Canisters Received by: <u>cl</u>					Date/Time: <u>11/20/25 1207</u>				
Samples Relinquished by: <u>Frank</u>					Date/Time: <u>11/20/25</u>					Received by:					Date/Time:				
Relinquished by:					Date/Time:					Received by:					Date/Time:				

Client Contact Information				Bottle Order ID : B2511028				Courier : FGALDUN				3 of 7 COCs					
Client ID : GFEL01 Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
Site Details: 90-73 SURPHIN BLD. JAMAICA, NJ																	
City : Lake Hiawatha				Analysis Turnaround Time 7													
State : NJ				Standard : 10-business days OR				Data Package Type : RESULTS ONLY									
Zip Code : 07034				Rush (Specify): 7 Days				EDD Type : PDE									
Country :																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SU2	11/19/25	10:44	12:44	9.5	5.5	55	55	-29	-5.5	10226	10439	6 L	50	VL043135.D			
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTICS ON THE ATTACHED LIST Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: FGM				Date/Time: 11/14/25				Canisters Received by: ch				Date/Time: 11/20/25 12:07				B2511028 - 6	
Samples Relinquished by: FGM				Date/Time: 11/20/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2511028				Courier : FGALDUN				4 of 7 COCs			
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 90-73 Sutphin Blvd. JAMAICA, NY											
City : Lake Hiawatha				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10 business days OR				EDD Type : PDF							
Zip Code : 07034				Rush (Specify): 7 Days											
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
IAZ	11/19/25	10:42	12:42	over 30	6	55	55	-30	-5.1	10218	10445	6 L	50	VL043135.D			

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15)
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.
	Ambient	Maximum	Minimum		
Start					
Stop					

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO			
Canisters Shipped by: SEM	Date/Time: 11/14/25	Canisters Received by: CR	Date/Time: 11/20/25 (2:07)
Samples Relinquished by: FGALDUN	Date/Time: 11/20/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2511028 - 7

Client Contact Information				Bottle Order ID : B2511028				Courier : FGALDUN				5 of 7 COCs					
Client ID : GFEL01 Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 90-73 SUTPH IN BLD JAMAICA, NY													
City : Lake Hiawatha				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY									
State : NJ				Standard : 10 Business days OR													
Zip Code : 07034				Rush (Specify): 7 Days				EDD Type : PDF									
Country :																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SU3	11/19/25	10:57	12:57	30	5.5	55	55	-29.5	-5.5	10585	10334	6 L	50	VL043135.D	1		1
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. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings:																	
Sampling site (State):																	
Quick Connector required : No																	
Canisters Shipped by: FRANK				Date/Time: 11/14/25				Canisters Received by: CP				Date/Time: 11/20/25 ROF				B2511028 - 5	
Samples Relinquished by: FRANK				Date/Time: 11/20/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2511028				Courier : FGALDUN				6 of 7 COCs					
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 90-73 SUTRAIN BLVD Jamaica, NY													
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY									
				Standard : 10 business days OR				EDD Type : PDE									
Rush (Specify): 2 Days																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
IA3	11/19/25	11:30	1:30	OVER 30		55	55	-30	-2.2	10547	10053	6 L	50	VL043135.D	1	1	
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: 11/14/24				Canisters Received by: [Signature]				Date/Time: 11/20/25 1207				B2511028 - 1	
Samples Relinquished by:				Date/Time:				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2511028				Courier : F Galdun				2 of 7 COCs																
Client ID : GFEL01 Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																				
				Phone Number : 646-542-3465																								
				Fax Number : 973-334-1692																								
				Site Details: 90-73 Sutphin Blvd. JAMAICA, NY																								
Analysis Turnaround Time 7 DAY				Standard : 10-business days OR				Data Package Type : RESULTS ONLY																				
Rush (Specify): 7 Days				EDD Type : FDE																								
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												
DA1	11/19/25	10:25	12:25	30	0	55	55	-30	-2.2	10625	10602	6 L	50	VL043135.D	1	1												
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 						
	Ambient	Maximum	Minimum																									
Start																												
Stop																												
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.						
	Ambient	Maximum	Minimum																									
Start																												
Stop																												
Special Instructions/QC Requirements & Comments :																												
Suspected Contamination: High Medium Low PID Readings:																												
Sampling site (State):																												
Quick Connector required : NO																												
Canisters Shipped by:				Date/Time: 11/14/25				Canisters Received by:				Date/Time: 11/20/25 1207																
Samples Relinquished by:				Date/Time: 11/20/25				Received by:				Date/Time:																
Relinquished by:				Date/Time:				Received by:				Date/Time:																

REQUESTED ANALYTE LIST:

PCE
TCE
cis-1,2-DCE
1,1,1-TCA
1,1-DCE
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane

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

NABE:

Title: Sample Custodian

Field Sample Seal No. Q3696

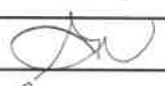
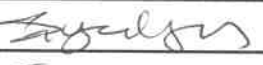
Date Broken: 11/13/2025

Military Time Seal Broken: 12:07:00

Case No.: 90-73 Sutphin Blvd Jamaica

Analytical Parameter/Fraction: OCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3696-01	SV1		
Q3696-02	IA1		
Q3696-03	SV2		
Q3696-04	IA2		
Q3696-05	SV3		
Q3696-06	IA3		
Q3696-07	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/20	1410	Signature 	Signature 	
		Printed Name <u>George N.</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy



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

CASE NARRATIVE

GFE LLC

Project Name: 90-73 Sutphin Blvd Jamaica, NY

Project # N/A

Order ID # Q3696

Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:

7 Air samples were received on 11/20/2025.

B. Parameters

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

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of VOCMS Group2 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD for {Q3696-02DUP} with File ID: VL043282.D met criteria except for o-Xylene[200%] due to difference in results of original and DUP.

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 SV1, SV2 and SV3 were initially diluted.

E. Additional Comments:

The package has been revised due to parameter list updated.

The Samples #SV1 and #IA1, have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

F. Manual Integration Comments:



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

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 #: Q3696

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAHESH PATEL

Date: 11/26/2025

LAB CHRONICLE

OrderID:	Q3696	OrderDate:	11/20/2025 1:36:00 PM
Client:	GFE LLC	Project:	90-73 Sutphin Blvd Jamaica, NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3696-01	SV1	Air	VOCMS Group2	TO-15	11/19/25		11/24/25	11/20/25
Q3696-02	IA1	Air	VOCMS Group2	TO-15	11/19/25		11/24/25	11/20/25
Q3696-03	SV2	Air	VOCMS Group2	TO-15	11/19/25		11/24/25	11/20/25
Q3696-04	IA2	Air	VOCMS Group2	TO-15	11/19/25		11/24/25	11/20/25
Q3696-05	SV3	Air	VOCMS Group2	TO-15	11/19/25		11/24/25	11/20/25
Q3696-06	IA3	Air	VOCMS Group2	TO-15	11/19/25		11/24/25	11/20/25
Q3696-07	OA1	Air	VOCMS Group2	TO-15	11/19/25		11/24/25	11/20/25

Hit Summary Sheet
SW-846

SDG No.: Q3696
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q3696-01	SV1	Air	Cyclohexane	10.3		3.03	6.88	ug/m3
Q3696-01	SV1	Air	Trichloroethene	0.75		0.54	0.64	ug/m3
Q3696-01	SV1	Air	Toluene	52.4		2.41	7.54	ug/m3
Q3696-01	SV1	Air	Tetrachloroethene	156		0.41	0.81	ug/m3
Q3696-01	SV1	Air	m/p-Xylene	7.82	J	6.95	17.4	ug/m3
Q3696-01	SV1	Air	o-Xylene	4.78	J	3.65	8.69	ug/m3
Q3696-01	SV1	Air	1,2,4-Trimethylbenzene	4.62	J	3.54	9.83	ug/m3
Q3696-01	SV1	Air	Hexane	3.52	J	2.26	7.05	ug/m3
Total Voc :				240				
Total Concentration:				240				
Client ID:	IA1							
Q3696-02	IA1	Air	2,2,4-Trimethylpentane	1.26	J	0.65	2.34	ug/m3
Q3696-02	IA1	Air	Benzene	1.21	J	0.26	1.60	ug/m3
Q3696-02	IA1	Air	Toluene	1.85	J	0.60	1.88	ug/m3
Q3696-02	IA1	Air	Tetrachloroethene	0.88		0.14	0.20	ug/m3
Q3696-02	IA1	Air	m/p-Xylene	2.74	J	1.78	4.34	ug/m3
Q3696-02	IA1	Air	o-Xylene	0.91	J	0.91	2.17	ug/m3
Q3696-02	IA1	Air	Hexane	2.40		0.56	1.76	ug/m3
Total Voc :				11.3				
Total Concentration:				11.3				
Client ID:	SV2							
Q3696-03	SV2	Air	1,1,1-Trichloroethane	1.36		0.33	0.65	ug/m3
Q3696-03	SV2	Air	Trichloroethene	1.29		0.54	0.64	ug/m3
Q3696-03	SV2	Air	Toluene	3.58	J	2.41	7.54	ug/m3
Q3696-03	SV2	Air	Tetrachloroethene	21.0		0.41	0.81	ug/m3
Total Voc :				27.3				
Total Concentration:				27.3				
Client ID:	IA2							
Q3696-04	IA2	Air	2,2,4-Trimethylpentane	1.17	J	0.65	2.34	ug/m3
Q3696-04	IA2	Air	Benzene	1.09	J	0.26	1.60	ug/m3
Q3696-04	IA2	Air	Trichloroethene	0.21		0.11	0.16	ug/m3
Q3696-04	IA2	Air	Toluene	1.58	J	0.60	1.88	ug/m3
Q3696-04	IA2	Air	Tetrachloroethene	1.08		0.14	0.20	ug/m3
Q3696-04	IA2	Air	Hexane	1.80		0.56	1.76	ug/m3
Total Voc :				6.93				
Total Concentration:				6.93				
Client ID:	SV3							

Hit Summary Sheet
SW-846

SDG No.: Q3696

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3696-05	SV3	Air	Benzene	2.59	J	1.02	6.39	ug/m3
Q3696-05	SV3	Air	Trichloroethene	79.0		0.54	0.64	ug/m3
Q3696-05	SV3	Air	Bromodichloromethane	9.38	J	1.67	13.4	ug/m3
Q3696-05	SV3	Air	Toluene	4.52	J	2.41	7.54	ug/m3
Q3696-05	SV3	Air	Tetrachloroethene	231		0.41	0.81	ug/m3
Q3696-05	SV3	Air	Hexane	4.93	J	2.26	7.05	ug/m3
Total Voc :				332				
Total Concentration:				332				
Client ID:	IA3							
Q3696-06	IA3	Air	Benzene	0.67	J	0.26	1.60	ug/m3
Q3696-06	IA3	Air	Trichloroethene	0.27		0.11	0.16	ug/m3
Q3696-06	IA3	Air	Tetrachloroethene	0.54		0.14	0.20	ug/m3
Q3696-06	IA3	Air	Hexane	1.76		0.56	1.76	ug/m3
Total Voc :				3.24				
Total Concentration:				3.24				
Client ID:	OA1							
Q3696-07	OA1	Air	2,2,4-Trimethylpentane	0.89	J	0.65	2.34	ug/m3
Q3696-07	OA1	Air	Benzene	0.70	J	0.26	1.60	ug/m3
Q3696-07	OA1	Air	Toluene	1.02	J	0.60	1.88	ug/m3
Q3696-07	OA1	Air	Tetrachloroethene	0.47		0.14	0.20	ug/m3
Q3696-07	OA1	Air	Hexane	4.58		0.56	1.76	ug/m3
Total Voc :				7.66				
Total Concentration:				7.66				



QC SUMMARY

Surrogate Summary

SDG No.: Q3696

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3696-01	SV1	1-Bromo-4-Fluorobenzene	10	9.94	99		65	135
Q3696-02	IA1	1-Bromo-4-Fluorobenzene	10	9.99	100		65	135
Q3696-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
Q3696-03	SV2	1-Bromo-4-Fluorobenzene	10	9.68	97		65	135
Q3696-04	IA2	1-Bromo-4-Fluorobenzene	10	9.72	97		65	135
Q3696-05	SV3	1-Bromo-4-Fluorobenzene	10	9.83	98		65	135
Q3696-06	IA3	1-Bromo-4-Fluorobenzene	10	9.42	94		65	135
Q3696-07	OA1	1-Bromo-4-Fluorobenzene	10	9.66	97		65	135
VL1124ABL01	VL1124ABL01	1-Bromo-4-Fluorobenzene	10	9.85	98		65	135
VL1124ABS01	VL1124ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3696</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL043280.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1124ABS01	Vinyl Chloride	10	9.40	ppbv	94			70	130	
	Heptane	10	9.30	ppbv	93			70	130	
	1,1-Dichloroethane	10	10.8	ppbv	108			70	130	
	Cyclohexane	10	10.1	ppbv	101			70	130	
	cis-1,2-Dichloroethene	10	10.4	ppbv	104			70	130	
	1,1,1-Trichloroethane	10	11.2	ppbv	112			70	130	
	2,2,4-Trimethylpentane	10	10.2	ppbv	102			70	130	
	Benzene	10	10.7	ppbv	107			70	130	
	Trichloroethene	10	11.0	ppbv	110			70	130	
	Toluene	10	10.2	ppbv	102			70	130	
	Tetrachloroethene	10	10.6	ppbv	106			70	130	
	Ethyl Benzene	10	10.6	ppbv	106			70	130	
	m/p-Xylene	20	21.8	ppbv	109			70	130	
	o-Xylene	10	10.8	ppbv	108			70	130	
	1,3,5-Trimethylbenzene	10	10.7	ppbv	107			70	130	
	1,2,4-Trimethylbenzene	10	10.9	ppbv	109			70	130	
	Naphthalene	10	10.1	ppbv	101			70	130	
	Hexane	10	9.80	ppbv	98			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q3696-02DUP	Q3696-02
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL043282.D	VL043281.D
Anal Date & Time :	11/24/2025 15:00	11/24/2025 14:26

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0.25	0.27	7.7
Benzene	0.35	0.38	8.2
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexane	0.72	0.68	5.7
m/p-Xylene	0.58	0.63	8.3
Naphthalene	0	0	0
o-Xylene	0	0.21	200 *
Tetrachloroethene	0.13	0.13	0
Toluene	0.47	0.49	4.2
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3696

Lab File ID: VL043282.D

Lab Sample ID: Q3696-02DUP

Date Analyzed: 11/24/2025

Time Analyzed: 15:00

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	Q3696-02DUP	VL043282.D	11/24/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL1124ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3696

Lab File ID: VL043279.D

Lab Sample ID: VL1124ABL01

Date Analyzed: 11/24/2025

Time Analyzed: 13:11

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
VL1124ABS01	VL1124ABS01	VL043280.D	11/24/2025
IA1	Q3696-02	VL043281.D	11/24/2025
IA2	Q3696-04	VL043283.D	11/24/2025
IA3	Q3696-06	VL043284.D	11/24/2025
OA1	Q3696-07	VL043285.D	11/24/2025
SV1	Q3696-01	VL043286.D	11/24/2025
SV2	Q3696-03	VL043287.D	11/24/2025
SV3	Q3696-05	VL043288.D	11/24/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3696

Lab File ID: VL043202.D

BFB Injection Date: 11/18/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:46

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.1
75	30.0 - 66.0% of mass 95	55.6
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	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.6
175	4.0 - 9.0% of mass 174	5 (7.8) 1
176	93.0 - 101.0% of mass 174	60.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4 (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
VSTDICC0.5	VSTDICC0.5	VL043203.D	11/18/2025	09:29
VSTDICCC010	VSTDICCC010	VL043204.D	11/18/2025	10:02
VSTDICC002	VSTDICC002	VL043205.D	11/18/2025	10:37
VSTDICC001	VSTDICC001	VL043206.D	11/18/2025	11:10
VSTDICC0.1	VSTDICC0.1	VL043208.D	11/18/2025	12:16
VSTDICC0.03	VSTDICC0.03	VL043209.D	11/18/2025	12:49
VSTDICC015	VSTDICC015	VL043210.D	11/18/2025	13:24

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3696

Lab File ID: VL043277.D

BFB Injection Date: 11/24/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:53

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.3
75	30.0 - 66.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	64.5
175	4.0 - 9.0% of mass 174	4.7 (7.3) 1
176	93.0 - 101.0% of mass 174	62.2 (96.3) 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	VL043278.D	11/24/2025	12:27
VL1124ABL01	VL1124ABL01	VL043279.D	11/24/2025	13:11
VL1124ABS01	VL1124ABS01	VL043280.D	11/24/2025	13:52
IA1	Q3696-02	VL043281.D	11/24/2025	14:26
IA1DUP	Q3696-02DUP	VL043282.D	11/24/2025	15:00
IA2	Q3696-04	VL043283.D	11/24/2025	15:35
IA3	Q3696-06	VL043284.D	11/24/2025	16:09
OA1	Q3696-07	VL043285.D	11/24/2025	16:43
SV1	Q3696-01	VL043286.D	11/24/2025	17:15
SV2	Q3696-03	VL043287.D	11/24/2025	17:47
SV3	Q3696-05	VL043288.D	11/24/2025	18:20

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
Lab Code: ACE SDG NO.: Q3696
Lab File ID: VL043278.D Date Analyzed: 11/24/2025
Instrument ID: MSVOA_L Time Analyzed: 12:27
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	107061	2.78	275969	3.95	215083	8.87
UPPER LIMIT	149885	3.11	386357	4.28	301116	9.20
LOWER LIMIT	64236.6	2.45	165581	3.62	129050	8.54
EPA SAMPLE NO.						
SV1	108054	2.78	273893	3.95	213852	8.87
IA1	107070	2.78	286434	3.95	213639	8.87
IA1DUP	105549	2.78	279590	3.95	213658	8.87
SV2	110236	2.78	285613	3.95	215025	8.87
IA2	106409	2.78	274861	3.95	210706	8.87
SV3	115982	2.79	303381	3.96	230111	8.87
IA3	109479	2.78	279354	3.95	212021	8.87
OA1	106827	2.78	272263	3.95	212048	8.87
VL1124ABL01	106137	2.78	277570	3.95	209566	8.88
VL1124ABS01	105147	2.78	272854	3.95	221036	8.87

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

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

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



SAMPLE DATA

Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: SV1
Lab Sample ID: Q3696-01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/19/25
Date Received: 11/20/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/24/25 17:15	VL112425
142-82-5	Heptane	0.68	2.79	U	4	2.79	8.20	11/24/25 17:15	VL112425
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/24/25 17:15	VL112425
110-82-7	Cyclohexane	3.00	10.3		4	3.03	6.88	11/24/25 17:15	VL112425
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/24/25 17:15	VL112425
71-55-6	1,1,1-Trichloroethane	0.060	0.33	U	4	0.33	0.65	11/24/25 17:15	VL112425
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	U	4	2.62	9.34	11/24/25 17:15	VL112425
71-43-2	Benzene	0.32	1.02	U	4	1.02	6.39	11/24/25 17:15	VL112425
79-01-6	Trichloroethene	0.14	0.75		4	0.54	0.64	11/24/25 17:15	VL112425
108-88-3	Toluene	13.9	52.4		4	2.41	7.54	11/24/25 17:15	VL112425
127-18-4	Tetrachloroethene	23.0	156		4	0.41	0.81	11/24/25 17:15	VL112425
100-41-4	Ethyl Benzene	0.76	3.30	U	4	3.30	8.69	11/24/25 17:15	VL112425
179601-23-1	m/p-Xylene	1.80	7.82	J	4	6.95	17.4	11/24/25 17:15	VL112425
95-47-6	o-Xylene	1.10	4.78	J	4	3.65	8.69	11/24/25 17:15	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/24/25 17:15	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.94	4.62	J	4	3.54	9.83	11/24/25 17:15	VL112425
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/24/25 17:15	VL112425
110-54-3	Hexane	1.00	3.52	J	4	2.26	7.05	11/24/25 17:15	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.90				65 - 135	99% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	108000							
540-36-3	1,4-Difluorobenzene	274000							
3114-55-4	Chlorobenzene-d5	214000							

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\VL112425\
 Data File : VL043286.D
 Acq On : 24 Nov 2025 17:15
 Operator : SY/MD
 Sample : Q3696-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:42:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	108054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	273893	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	213852	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	155789	9.938	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2235	0.147	ppbv	95
4) Chloromethane	1.531	50	1475	0.259	ppbv	98
9) Propene	1.486	41	22248	3.496	ppbv #	1
11) Trichlorofluoromethane	1.874	101	5557	0.376	ppbv	99
13) Ethanol	1.719	45	4366	1.951	ppbv #	38
15) Acetone	1.832	43	169885	11.316	ppbv	99
17) tert-Butyl alcohol	2.033	59	922575	46.819	ppbv	99
19) Isopropyl Alcohol	1.881	45	19756	2.329	ppbv #	1
26) Hexane	2.823	57	3588	0.253	ppbv #	46
30) Cyclohexane	3.849	84	8784m	0.738	ppbv	
34) 2-Butanone	2.554	43	5298	0.274	ppbv	98
38) Trichloroethene	4.545	130	354m	0.034	ppbv	
52) Tetrachloroethene	8.212	164	56018	5.741	ppbv	91
53) Toluene	6.917	91	107585	3.464	ppbv	98
58) Ethyl Benzene	9.341	91	6269	0.152	ppbv	93
59) m/p-Xylene	9.519	91	14570	0.442	ppbv	100
60) o-Xylene	9.956	91	8900	0.270	ppbv	97
74) 1,2,4-Trimethylbenzene	11.526	105	8604	0.234	ppbv #	45

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

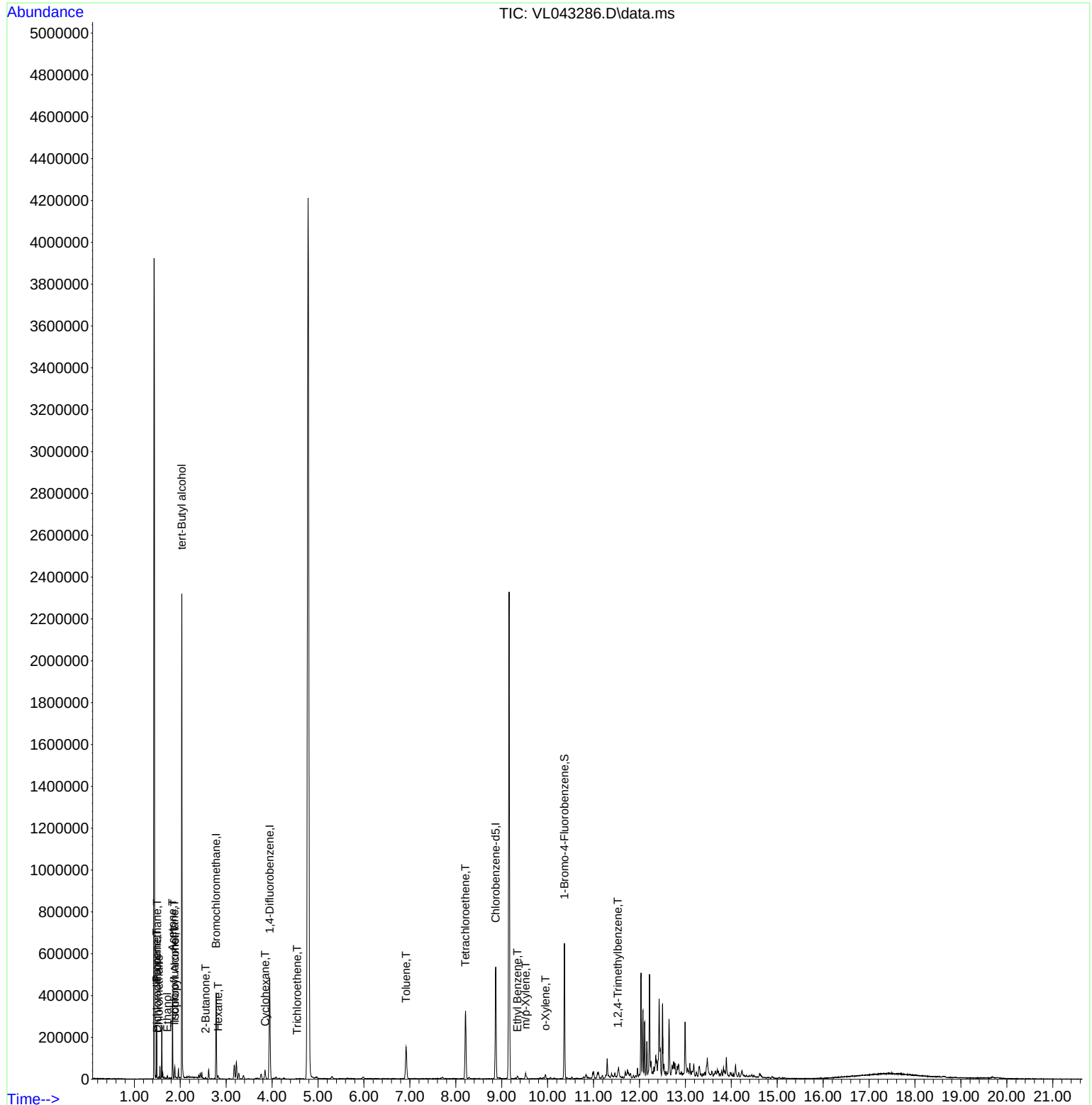
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043286.D
Acq On : 24 Nov 2025 17:15
Operator : SY/MD
Sample : Q3696-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

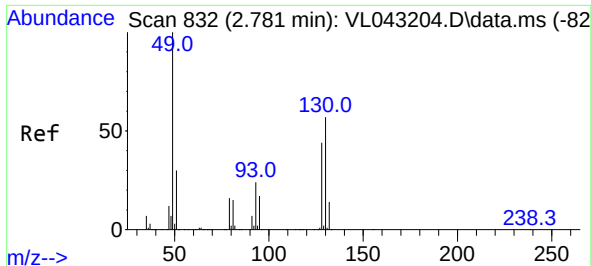
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 24 23:42:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025





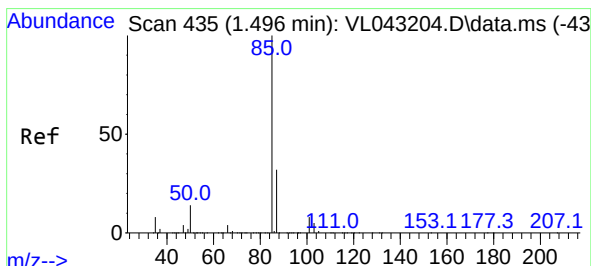
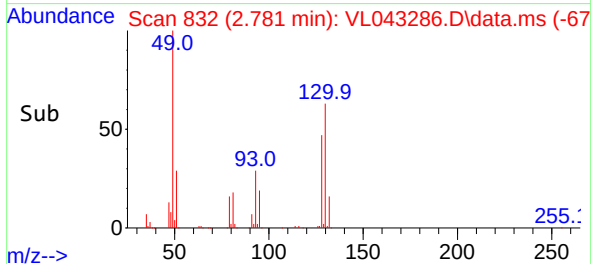
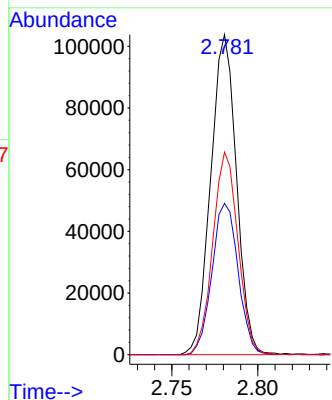
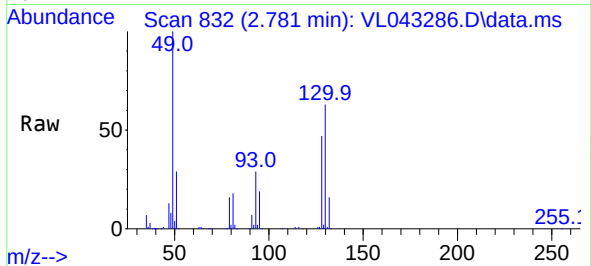
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 108054
Ion Ratio Lower Upper
49 100
128 48.1 23.0 69.0
130 62.1 29.9 89.7

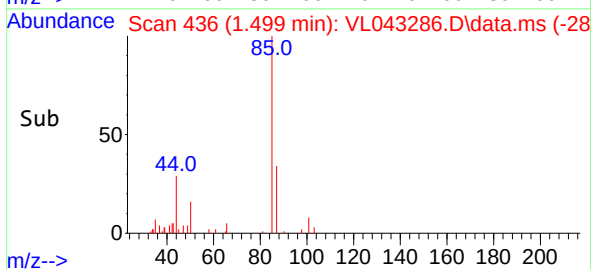
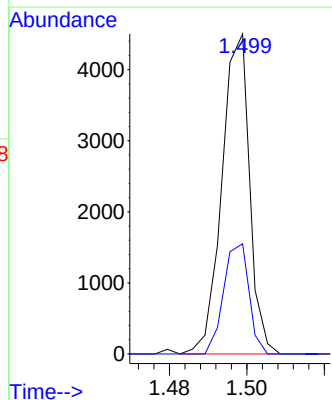
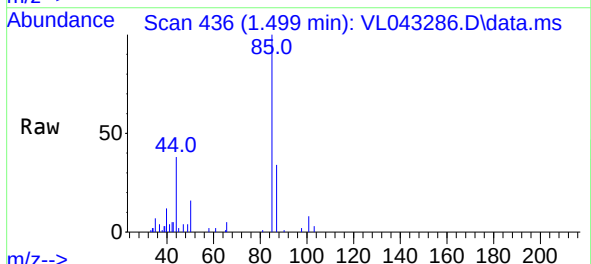
Manual Integrations
APPROVED

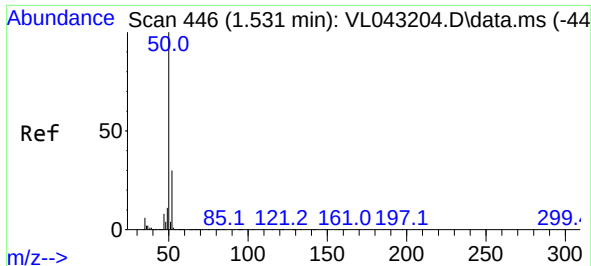
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.147 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

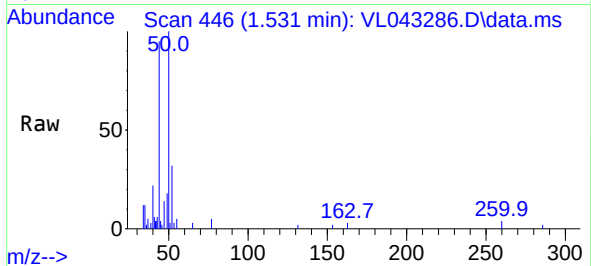
Tgt Ion: 85 Resp: 2235
Ion Ratio Lower Upper
85 100
87 34.5 25.4 38.2





#4
Chloromethane
Concen: 0.259 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

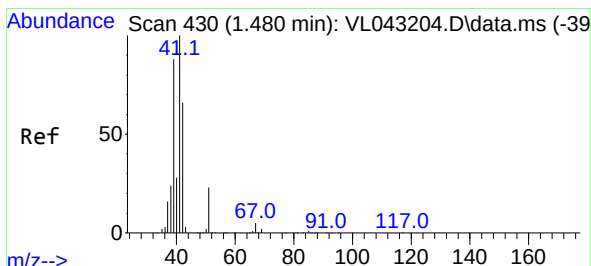
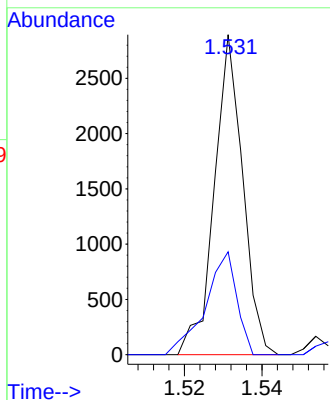
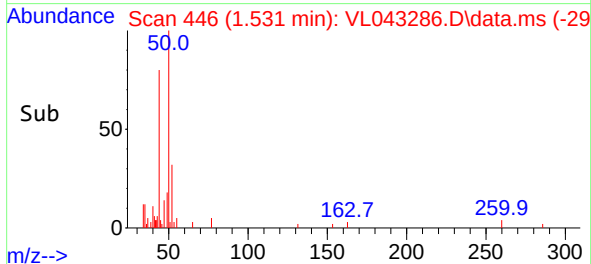
Instrument :
MSVOA_L
ClientSampleId :
SV1



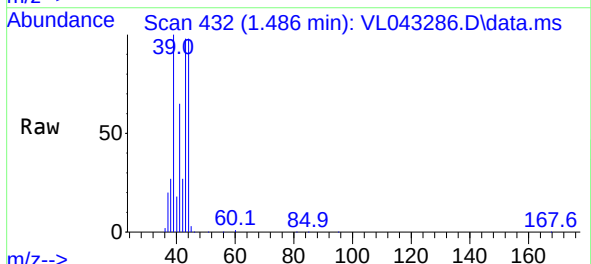
Tgt Ion: 50 Resp: 1475
Ion Ratio Lower Upper
50 100
52 31.3 24.1 36.1

Manual Integrations
APPROVED

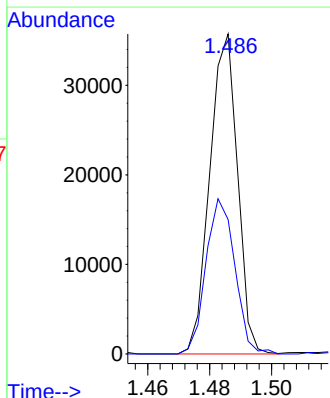
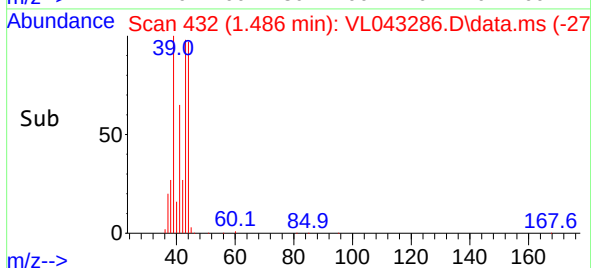
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

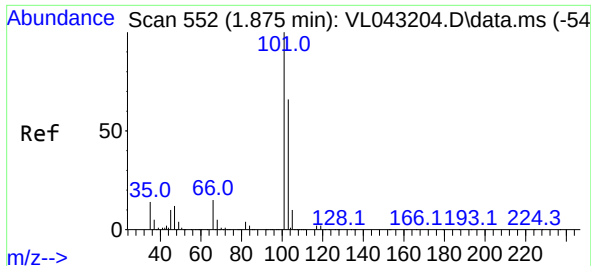


#9
Propene
Concen: 3.496 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



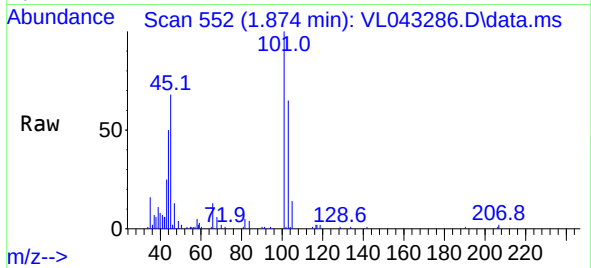
Tgt Ion: 41 Resp: 22248
Ion Ratio Lower Upper
41 100
42 53.2 3.7 5.5#





#11
Trichlorofluoromethane
Concen: 0.376 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

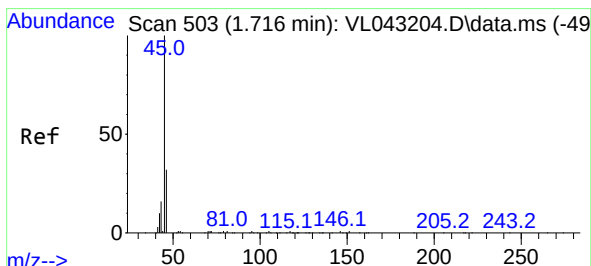
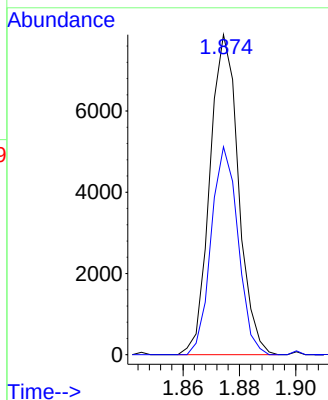
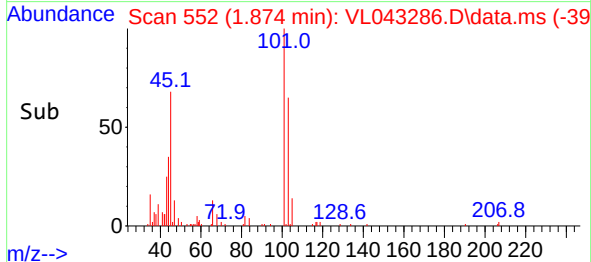
Instrument :
MSVOA_L
ClientSampleId :
SV1



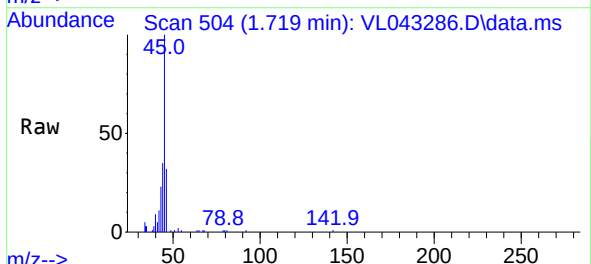
Tgt Ion:101 Resp: 555
Ion Ratio Lower Upper
101 100
103 65.0 52.6 79.0

Manual Integrations
APPROVED

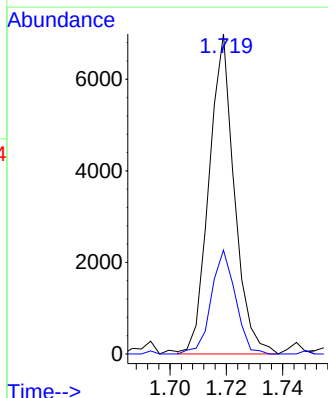
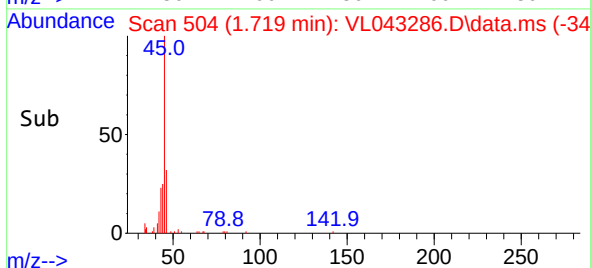
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

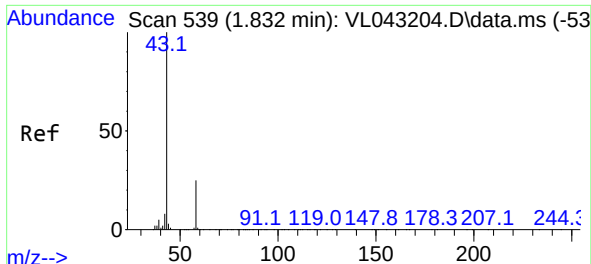


#13
Ethanol
Concen: 1.951 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



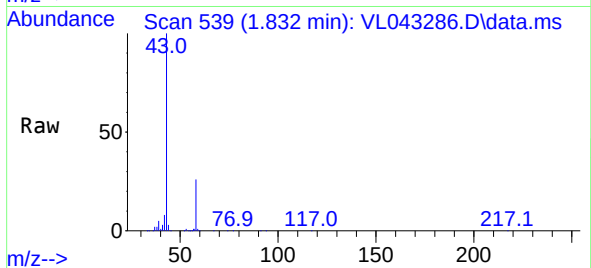
Tgt Ion: 45 Resp: 4366
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8#





#15
Acetone
Concen: 11.316 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

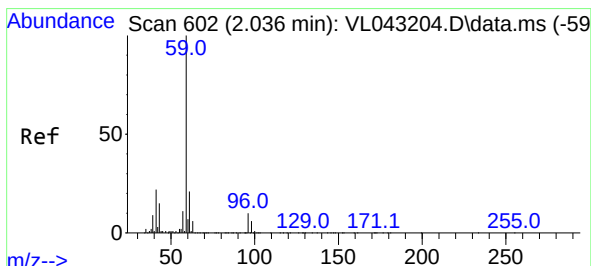
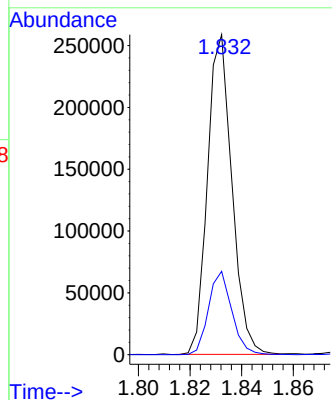
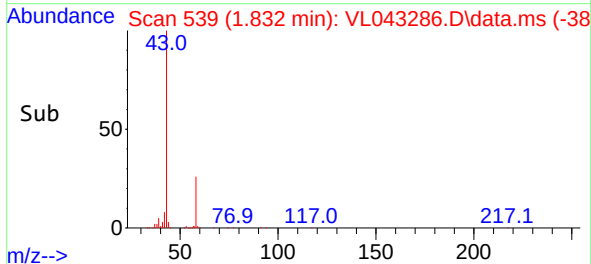
Instrument :
MSVOA_L
ClientSampleId :
SV1



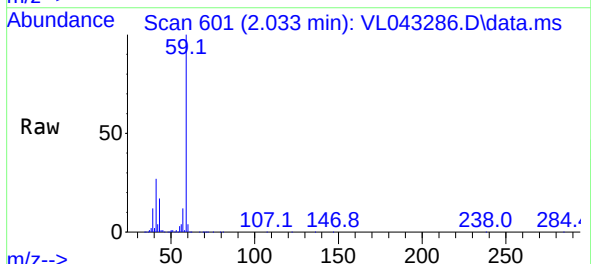
Tgt Ion: 43 Resp: 169885
Ion Ratio Lower Upper
43 100
58 25.2 20.7 31.1

Manual Integrations
APPROVED

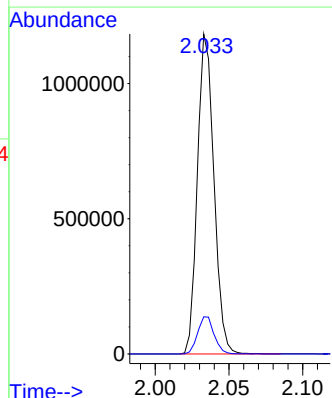
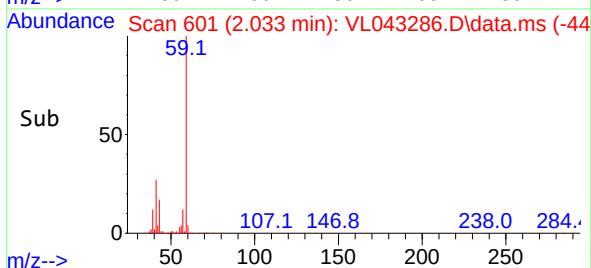
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

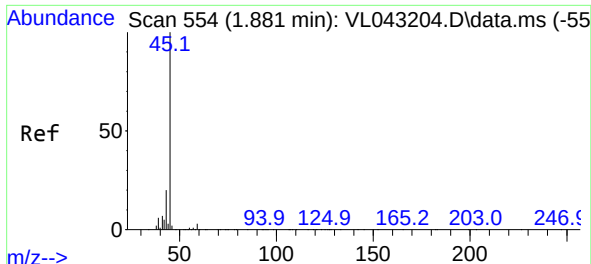


#17
tert-Butyl alcohol
Concen: 46.819 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



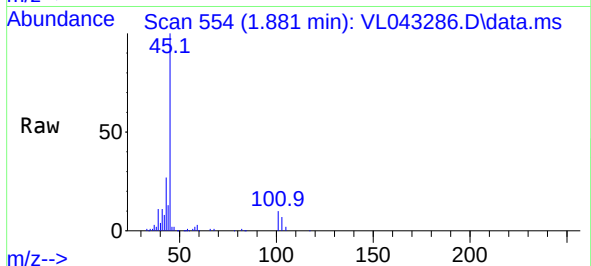
Tgt Ion: 59 Resp: 922575
Ion Ratio Lower Upper
59 100
57 11.6 9.0 13.4





#19
Isopropyl Alcohol
Concen: 2.329 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

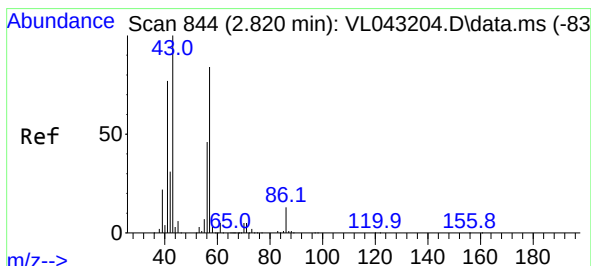
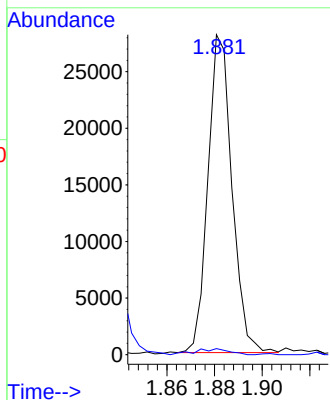
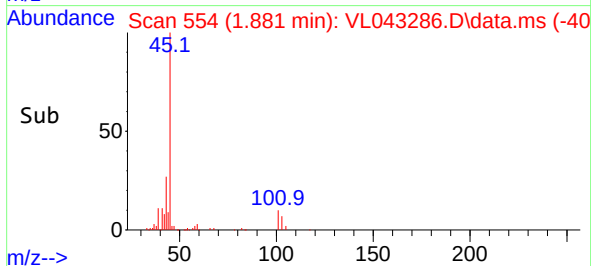
Instrument :
MSVOA_L
ClientSampleId :
SV1



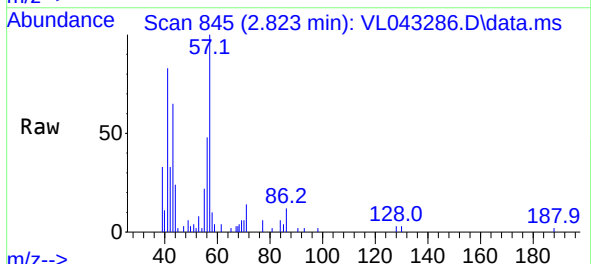
Tgt Ion: 45 Resp: 19750
Ion Ratio Lower Upper
45 100
58 217.0 31.3 46.9

Manual Integrations
APPROVED

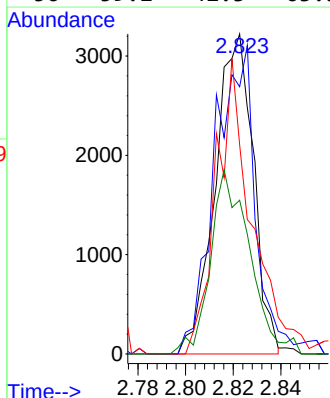
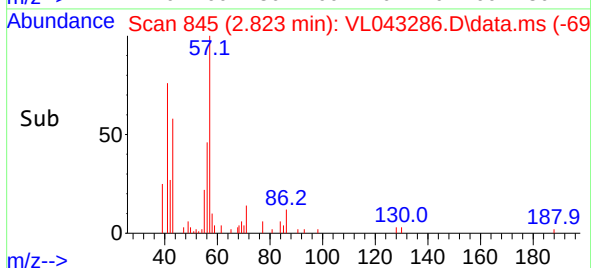
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

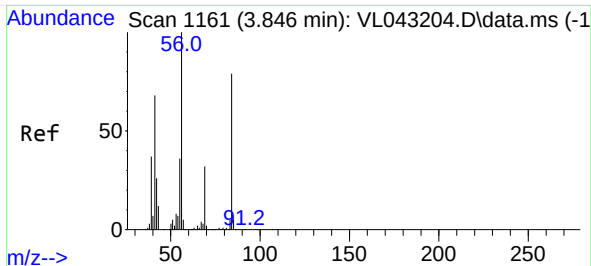


#26
Hexane
Concen: 0.253 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



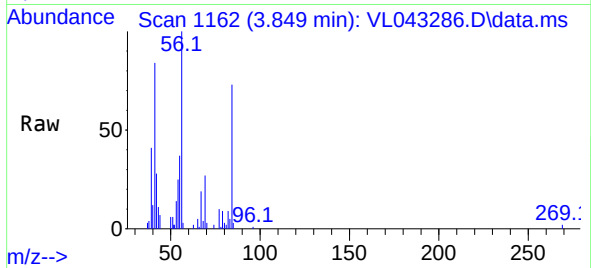
Tgt Ion: 57 Resp: 3588
Ion Ratio Lower Upper
57 100
41 105.4 74.6 111.8
43 89.5 179.0 268.4#
56 59.2 42.3 63.5





#30
Cyclohexane
Concen: 0.738 ppbv m
RT: 3.849 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

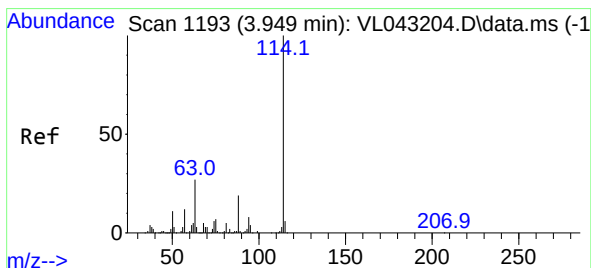
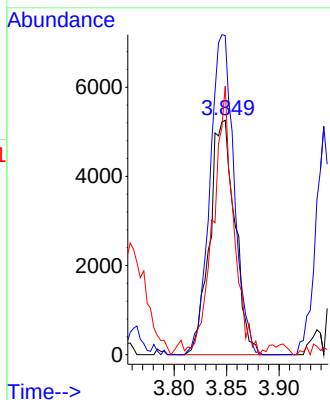
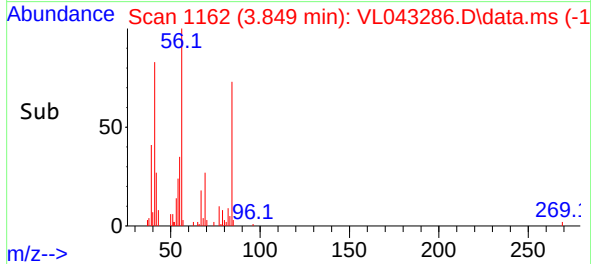
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 8784
Ion Ratio Lower Upper
84 100
56 130.9 104.7 157.1
41 95.3 69.0 103.6

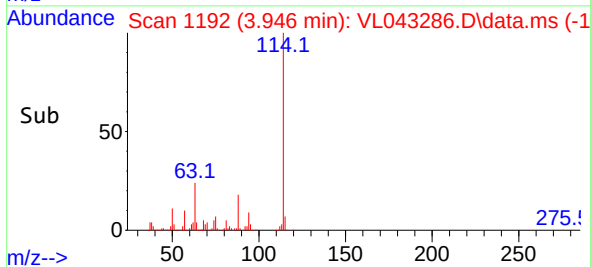
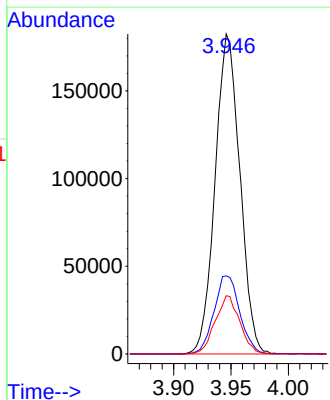
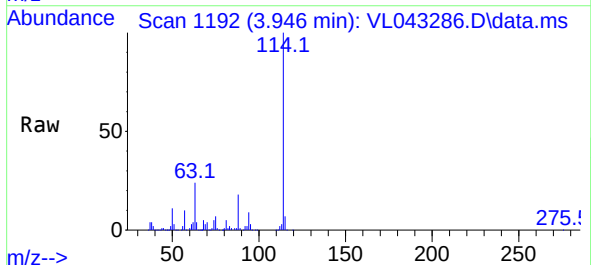
Manual Integrations
APPROVED

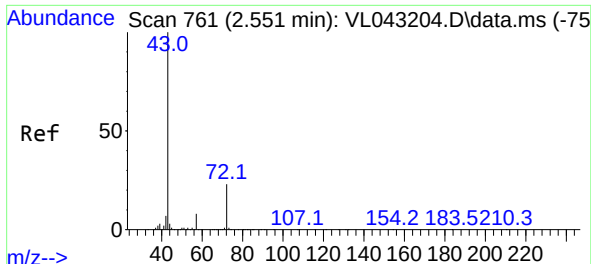
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Tgt Ion:114 Resp: 273893
Ion Ratio Lower Upper
114 100
63 25.5 21.0 31.6
88 18.0 14.9 22.3





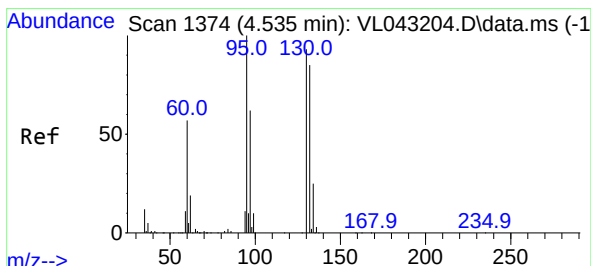
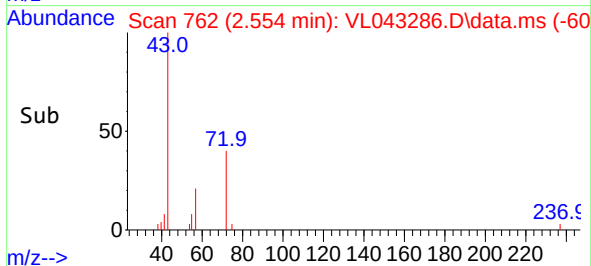
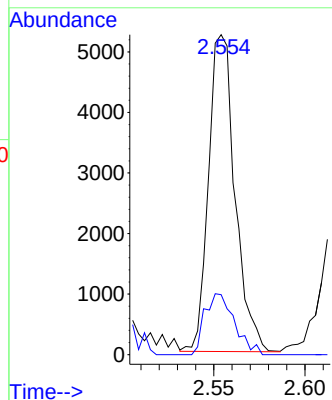
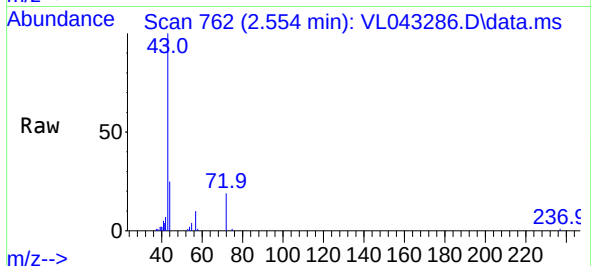
#34
2-Butanone
Concen: 0.274 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 5298
Ion Ratio Lower Upper
43 100
72 21.6 18.1 27.1

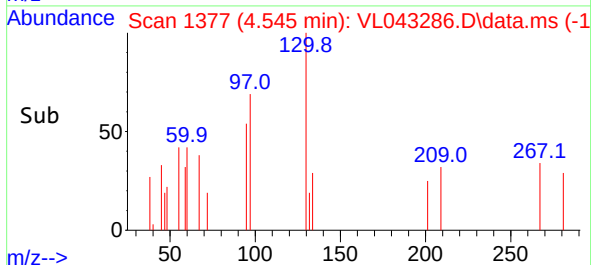
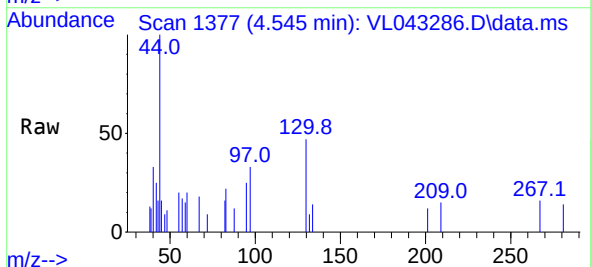
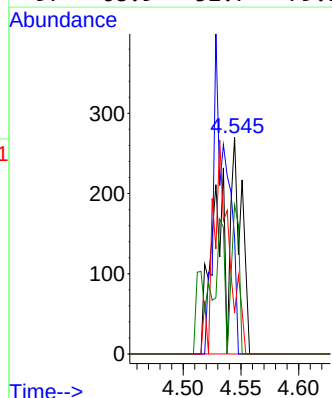
Manual Integrations
APPROVED

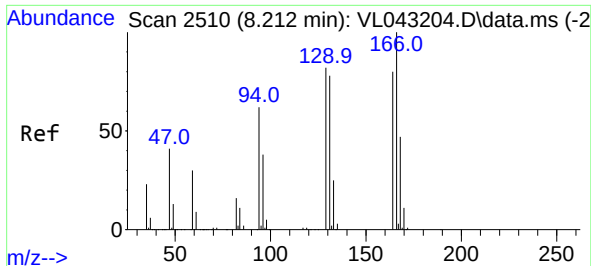
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 4.545 min Scan# 1377
Delta R.T. 0.010 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

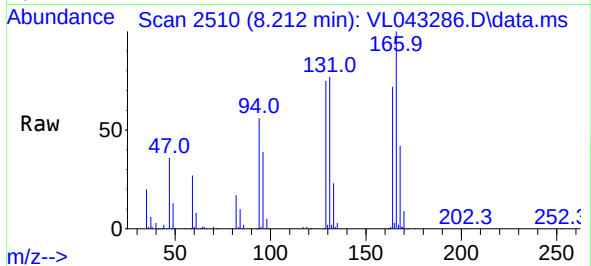
Tgt Ion:130 Resp: 354
Ion Ratio Lower Upper
130 100
95 53.7 85.7 128.5#
132 18.9 73.4 110.0#
97 68.9 52.7 79.1





#52
Tetrachloroethene
Concen: 5.741 ppbv
RT: 8.212 min Scan# 2110
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

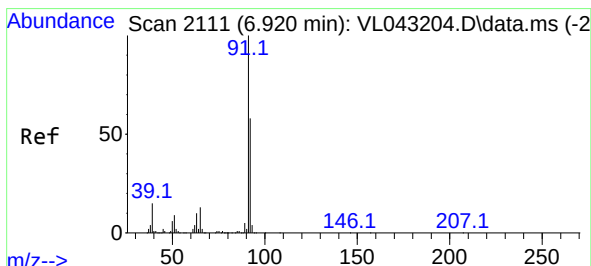
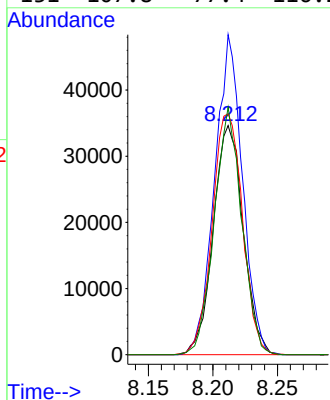
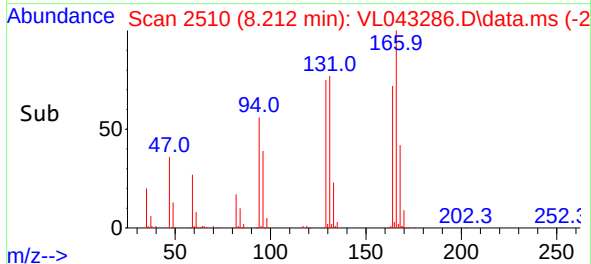
Instrument :
MSVOA_L
ClientSampleId :
SV1



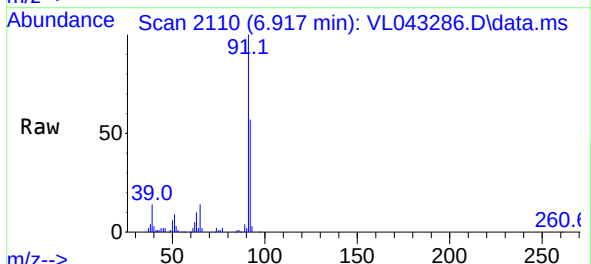
Tgt Ion:164 Resp: 56018
Ion Ratio Lower Upper
164 100
166 139.7 99.4 149.2
129 105.0 81.8 122.8
131 107.8 77.4 116.2

Manual Integrations
APPROVED

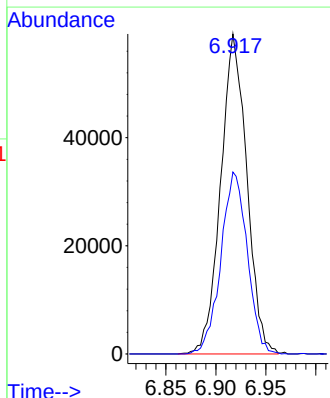
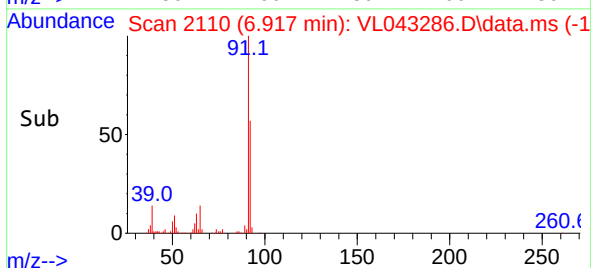
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

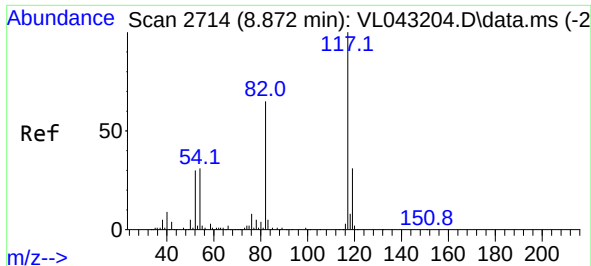


#53
Toluene
Concen: 3.464 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



Tgt Ion: 91 Resp: 107585
Ion Ratio Lower Upper
91 100
92 57.5 47.4 71.0





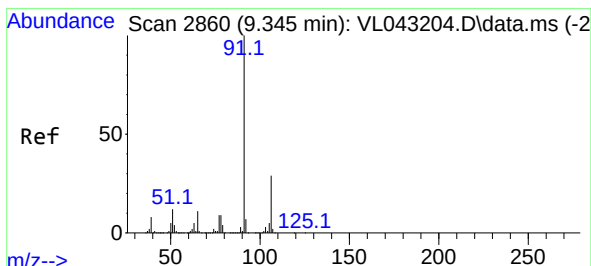
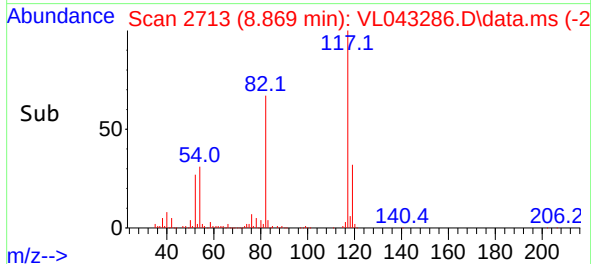
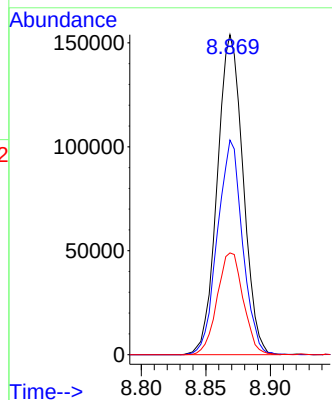
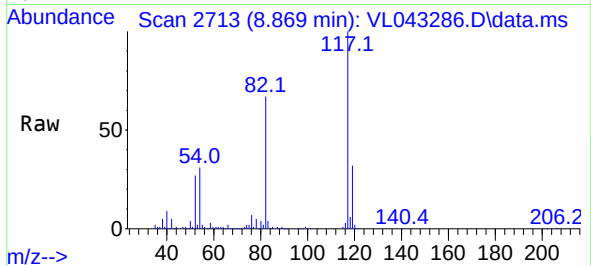
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21385
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 117 Resp: 21385
Ion Ratio Lower Upper
117 100
82 65.3 56.1 84.1
119 32.1 25.0 37.6

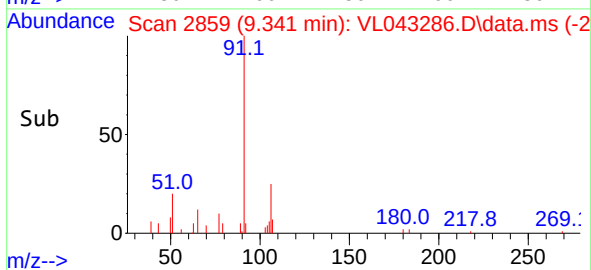
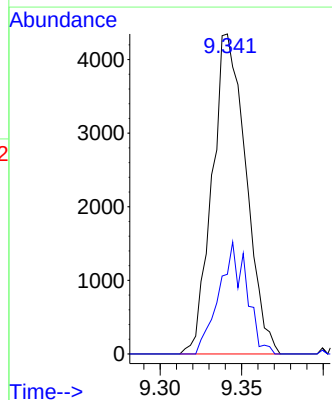
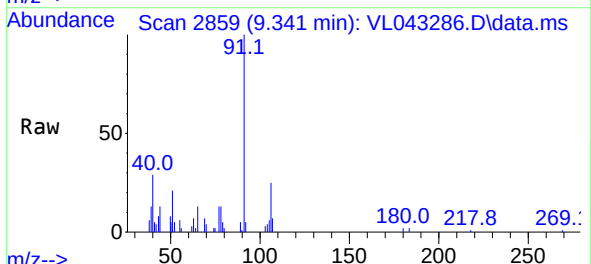
Manual Integrations
APPROVED

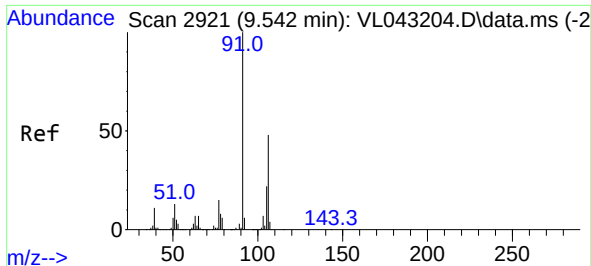
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#58
Ethyl Benzene
Concen: 0.152 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Tgt Ion: 91 Resp: 6269
Ion Ratio Lower Upper
91 100
106 24.9 22.8 34.2





#59

m/p-Xylene

Concen: 0.442 ppbv

RT: 9.519 min Scan# 2914

Delta R.T. -0.023 min

Lab File: VL043286.D

Acq: 24 Nov 2025 17:15

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 14570

Ion Ratio Lower Upper

91 100

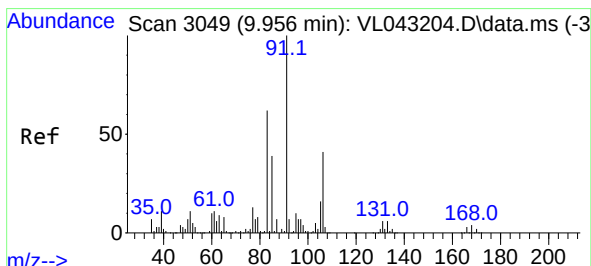
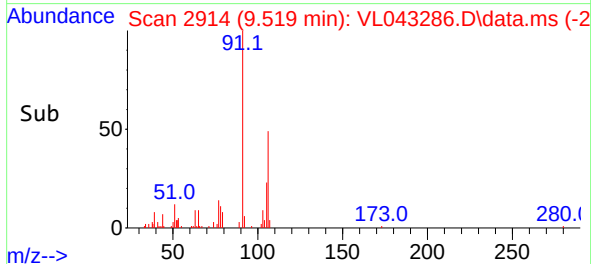
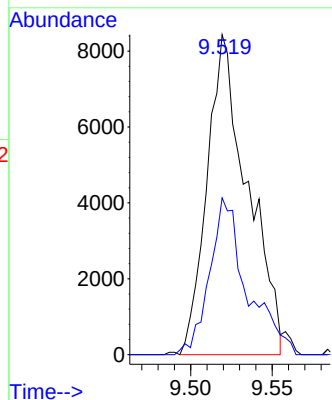
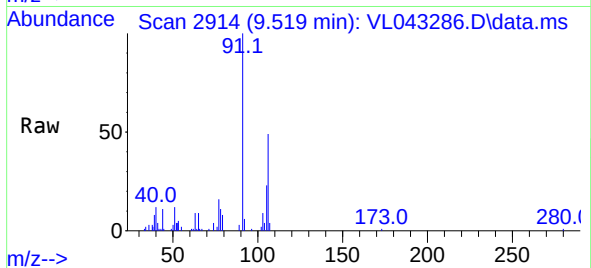
106 45.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#60

o-Xylene

Concen: 0.270 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.000 min

Lab File: VL043286.D

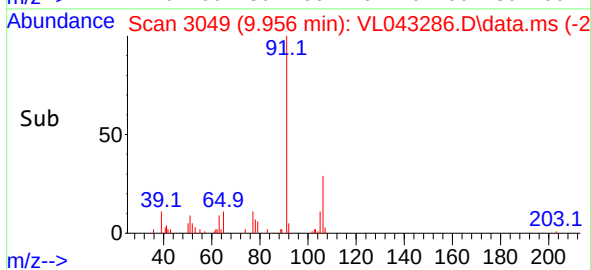
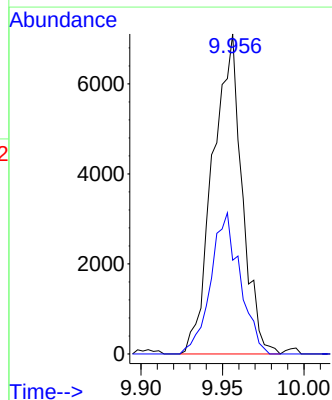
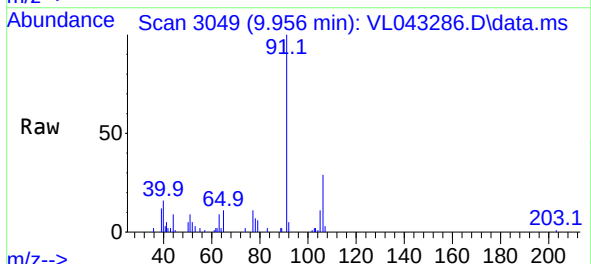
Acq: 24 Nov 2025 17:15

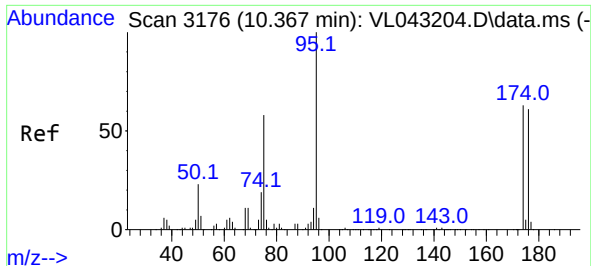
Tgt Ion: 91 Resp: 8900

Ion Ratio Lower Upper

91 100

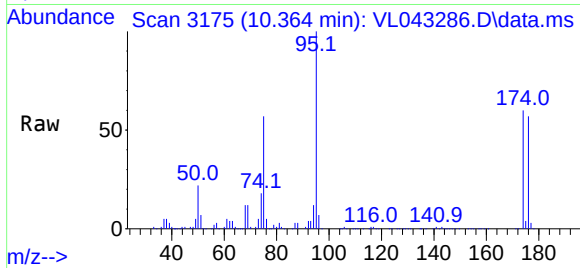
106 44.0 20.9 62.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.938 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

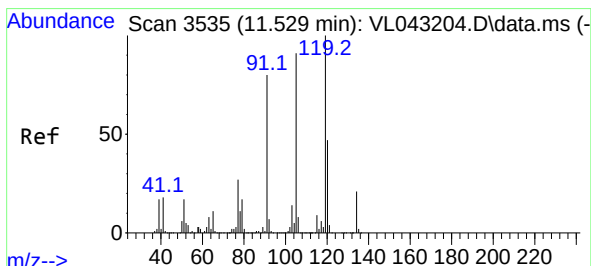
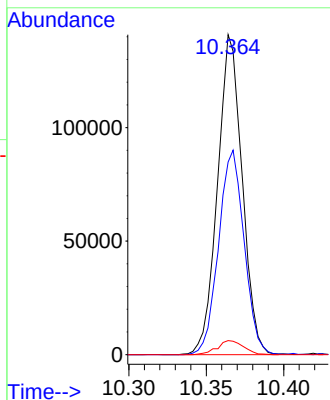
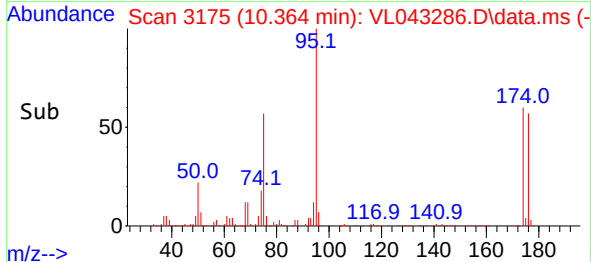
Instrument :
MSVOA_L
ClientSampleId :
SV1



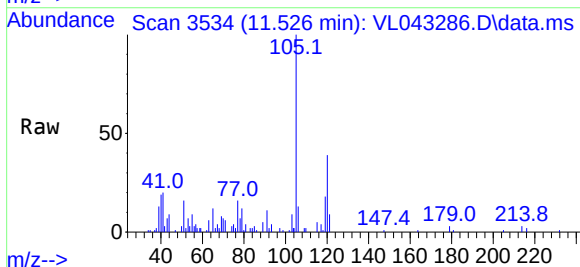
Tgt Ion: 95 Resp: 155789
Ion Ratio Lower Upper
95 100
174 66.7 50.2 75.2
175 4.7 4.1 6.1

Manual Integrations
APPROVED

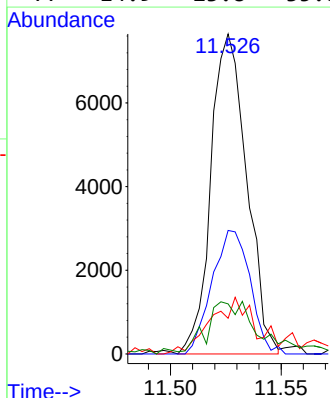
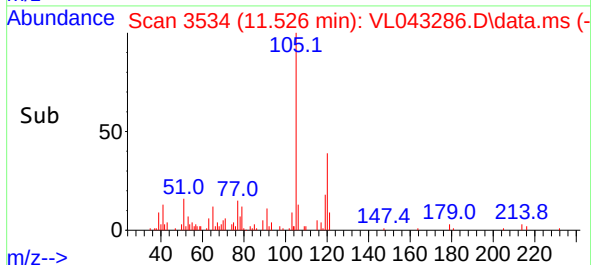
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.234 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



Tgt Ion:105 Resp: 8604
Ion Ratio Lower Upper
105 100
120 38.6 41.7 62.5#
91 8.9 70.0 105.0#
77 14.9 23.8 35.8#



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: IA1
Lab Sample ID: Q3696-02
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/19/25
Date Received: 11/20/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/24/25 14:26	VL112425
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/24/25 14:26	VL112425
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/24/25 14:26	VL112425
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/24/25 14:26	VL112425
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/24/25 14:26	VL112425
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/24/25 14:26	VL112425
540-84-1	2,2,4-Trimethylpentane	0.27	1.26	J	1	0.65	2.34	11/24/25 14:26	VL112425
71-43-2	Benzene	0.38	1.21	J	1	0.26	1.60	11/24/25 14:26	VL112425
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/24/25 14:26	VL112425
108-88-3	Toluene	0.49	1.85	J	1	0.60	1.88	11/24/25 14:26	VL112425
127-18-4	Tetrachloroethene	0.13	0.88		1	0.14	0.20	11/24/25 14:26	VL112425
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/24/25 14:26	VL112425
179601-23-1	m/p-Xylene	0.63	2.74	J	1	1.78	4.34	11/24/25 14:26	VL112425
95-47-6	o-Xylene	0.21	0.91	J	1	0.91	2.17	11/24/25 14:26	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 14:26	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 14:26	VL112425
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/24/25 14:26	VL112425
110-54-3	Hexane	0.68	2.40		1	0.56	1.76	11/24/25 14:26	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.0				65 - 135	100% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	107000							
540-36-3	1,4-Difluorobenzene	286000							
3114-55-4	Chlorobenzene-d5	214000							

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\VL112425\
 Data File : VL043281.D
 Acq On : 24 Nov 2025 14:26
 Operator : SY/MD
 Sample : Q3696-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	107070	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	286434	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	213639	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	156431	9.989	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8110	0.537	ppbv	100
3) Chlorodifluoromethane	1.470	51	4263m	0.287	ppbv	
4) Chloromethane	1.531	50	3550	0.629	ppbv	97
9) Propene	1.486	41	8650	1.372	ppbv #	1
10) Heptane	4.969	43	2495m	0.133	ppbv	
11) Trichlorofluoromethane	1.878	101	4727m	0.323	ppbv	
13) Ethanol	1.719	45	45204	20.384	ppbv	100
15) Acetone	1.836	43	72977	4.906	ppbv	93
19) Isopropyl Alcohol	1.884	45	17025	2.025	ppbv #	8
20) Methylene Chloride	2.062	84	7532	1.013	ppbv #	84
26) Hexane	2.823	57	9567	0.680	ppbv #	68
30) Cyclohexane	3.849	84	1664m	0.141	ppbv	
34) 2-Butanone	2.557	43	10274	0.508	ppbv	93
35) Carbon Tetrachloride	3.755	117	1876m	0.086	ppbv	
36) Benzene	3.651	78	10334	0.377	ppbv	96
41) Tetrahydrofuran	3.056	42	4214m	0.377	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	12506	0.265	ppbv #	85
52) Tetrachloroethene	8.212	164	1283m	0.126	ppbv	
53) Toluene	6.927	91	16036m	0.494	ppbv	
58) Ethyl Benzene	9.348	91	7478	0.182	ppbv	96
59) m/p-Xylene	9.526	91	20727	0.629	ppbv	99
60) o-Xylene	9.953	91	6764	0.205	ppbv	96
74) 1,2,4-Trimethylbenzene	11.526	105	5120	0.139	ppbv #	52

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

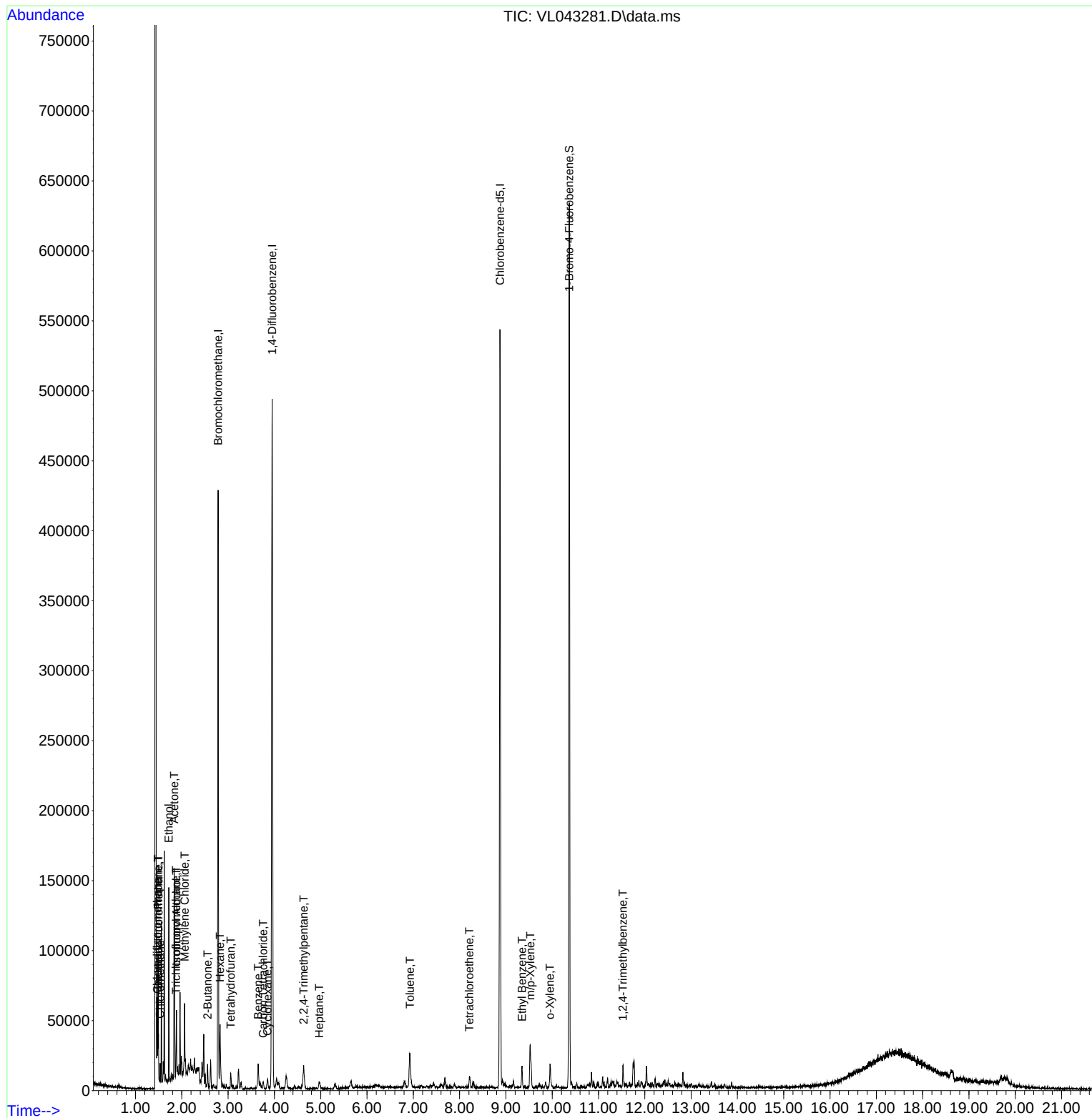
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043281.D
Acq On : 24 Nov 2025 14:26
Operator : SY/MD
Sample : Q3696-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

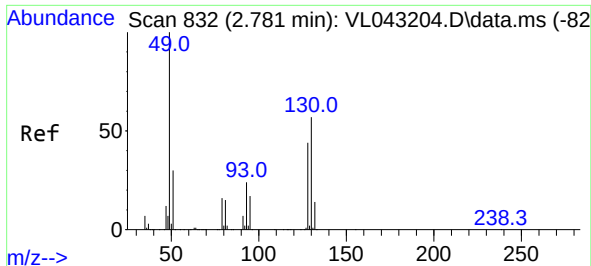
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Nov 24 23:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2025
Supervised By : Mahesh Dadoda 11/25/2025





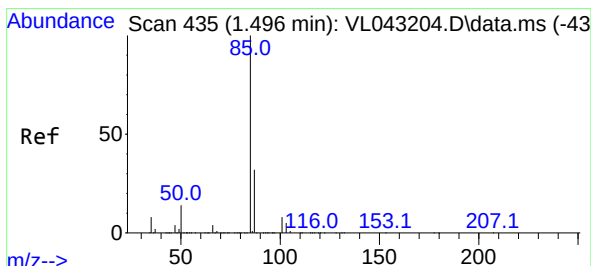
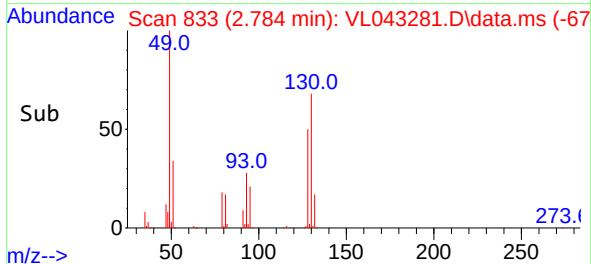
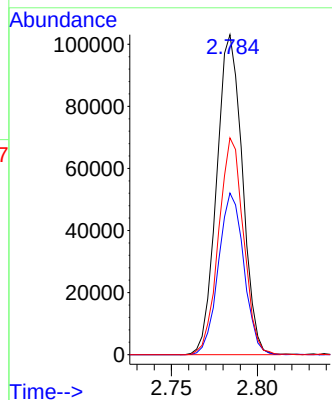
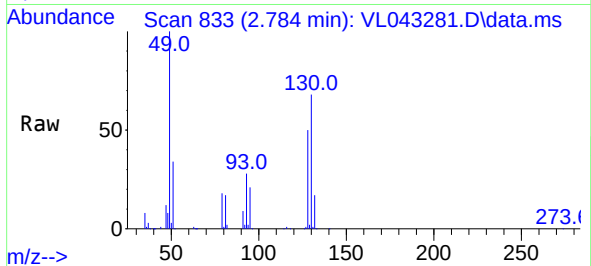
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 107070
Ion Ratio Lower Upper
49 100
128 50.1 23.0 69.0
130 65.9 29.9 89.7

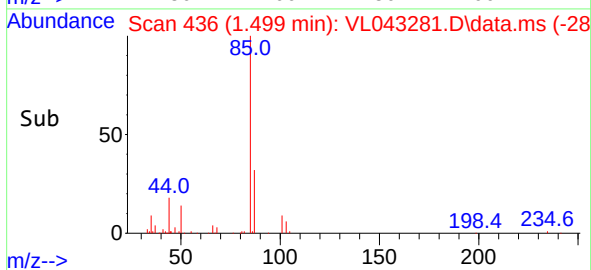
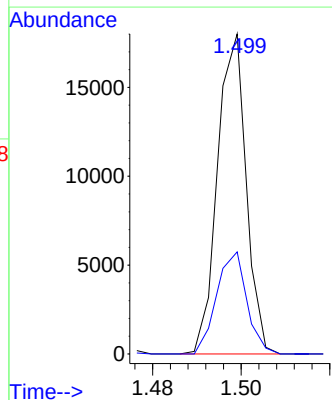
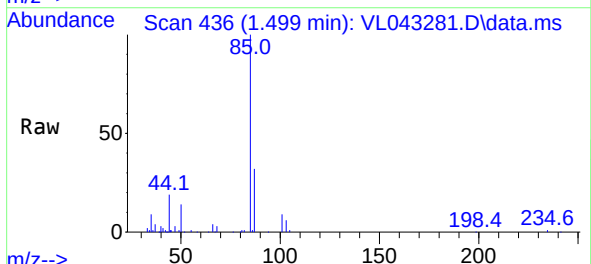
Manual Integrations
APPROVED

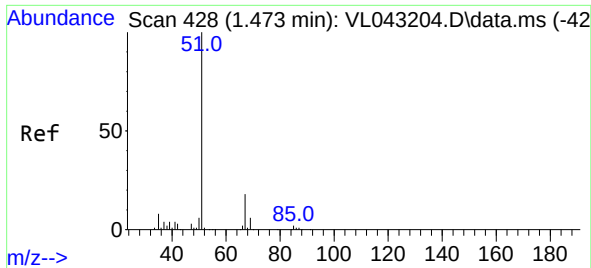
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.537 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Tgt Ion: 85 Resp: 8110
Ion Ratio Lower Upper
85 100
87 31.9 25.4 38.2





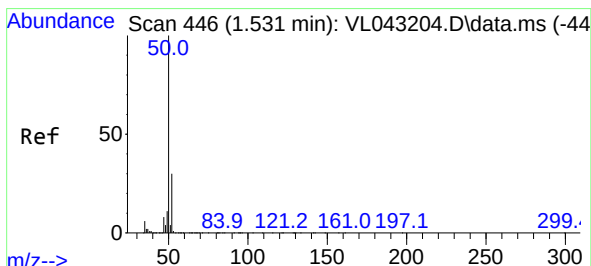
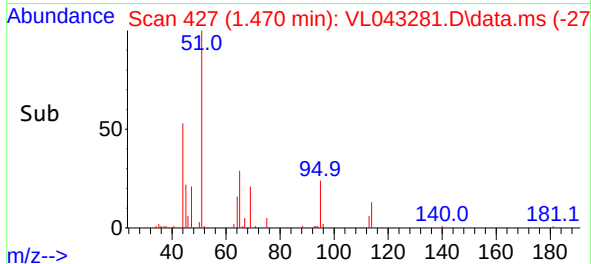
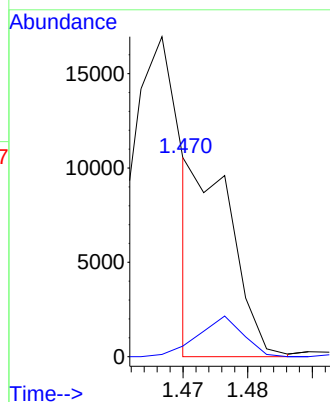
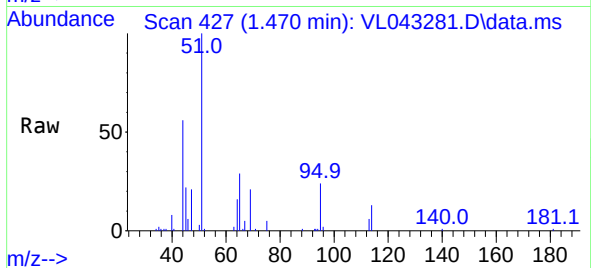
#3
Chlorodifluoromethane
Concen: 0.287 ppbv m
RT: 1.470 min Scan# 426
Delta R.T. -0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 426
Ion Ratio Lower Upper
51 100
67 2.9 14.9 22.3

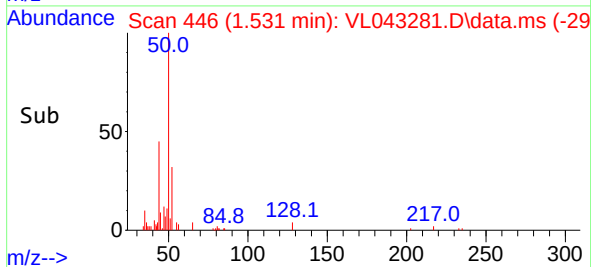
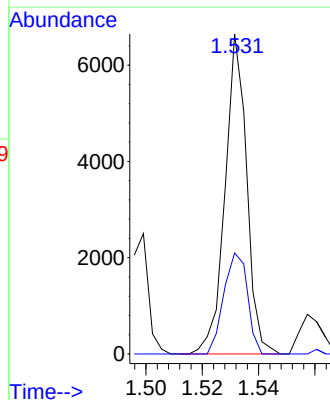
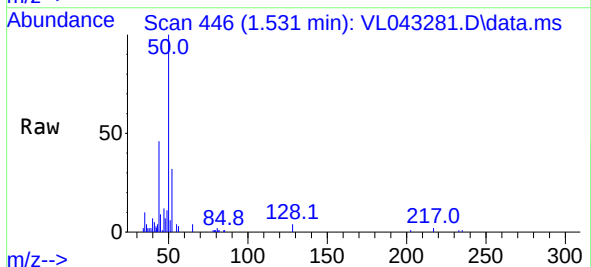
Manual Integrations
APPROVED

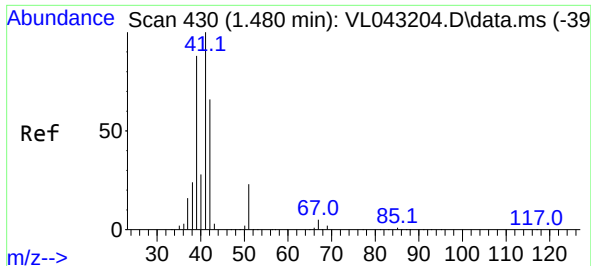
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#4
Chloromethane
Concen: 0.629 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Tgt Ion: 50 Resp: 3550
Ion Ratio Lower Upper
50 100
52 31.6 24.1 36.1





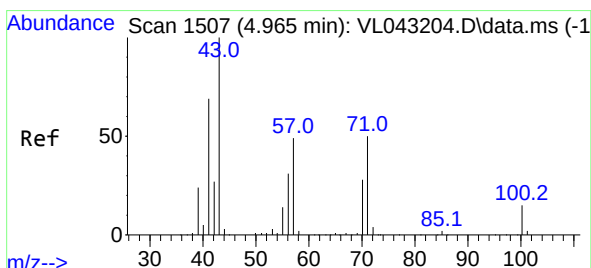
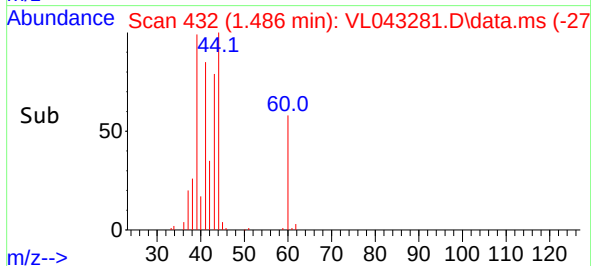
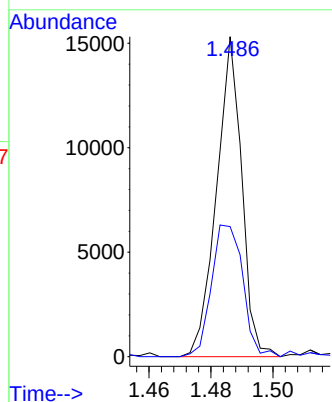
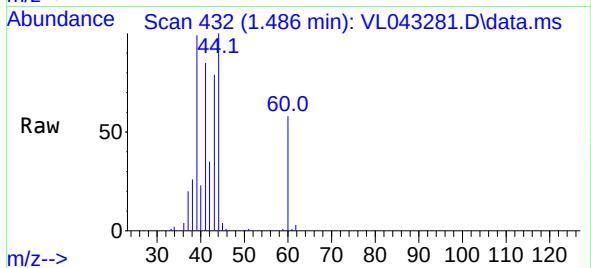
#9
 Propene
 Concen: 1.372 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL043281.D
 Acq: 24 Nov 2025 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 41 Resp: 8650
 Ion Ratio Lower Upper
 41 100
 42 53.6 3.7 5.5

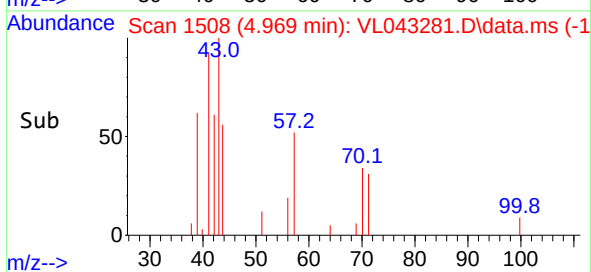
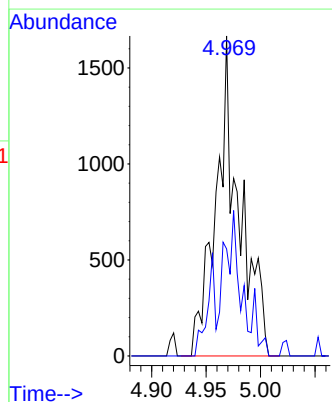
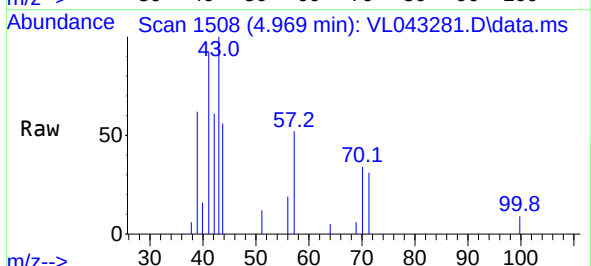
Manual Integrations
 APPROVED

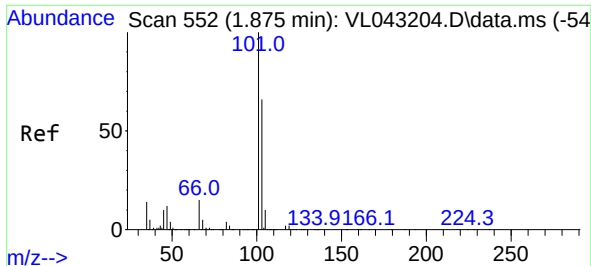
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



#10
 Heptane
 Concen: 0.133 ppbv m
 RT: 4.969 min Scan# 1508
 Delta R.T. 0.003 min
 Lab File: VL043281.D
 Acq: 24 Nov 2025 14:26

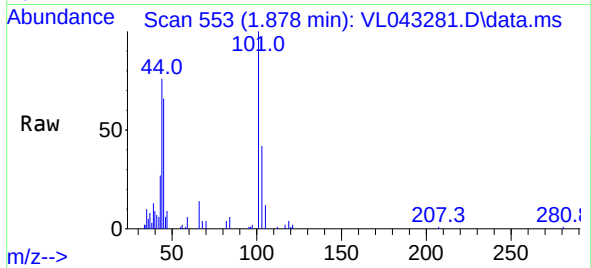
Tgt Ion: 43 Resp: 2495
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.323 ppbv m
RT: 1.878 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

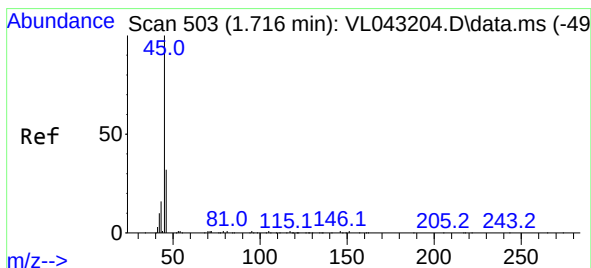
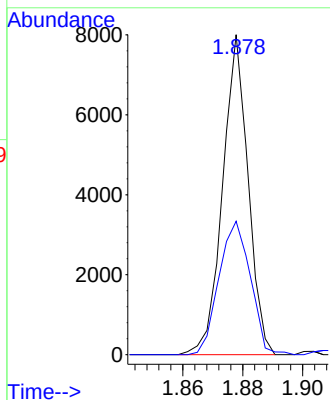
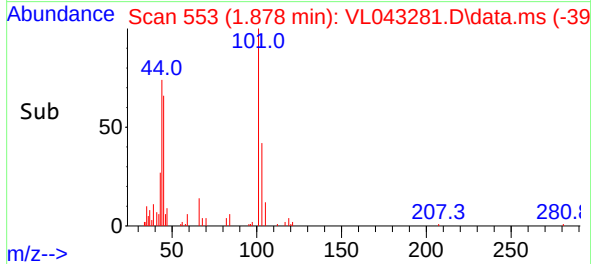
Instrument :
MSVOA_L
ClientSampleId :
IA1



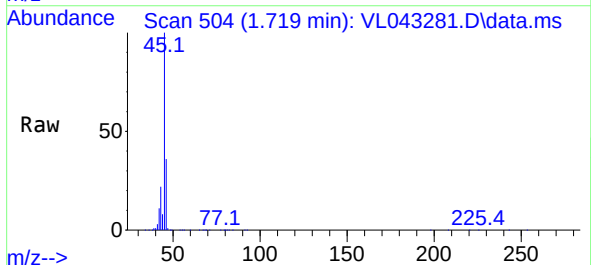
Tgt Ion:101 Resp: 472
Ion Ratio Lower Upper
101 100
103 41.7 52.6 79.0

Manual Integrations
APPROVED

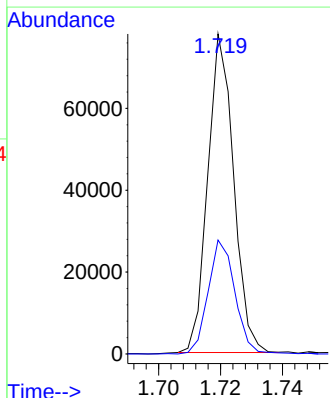
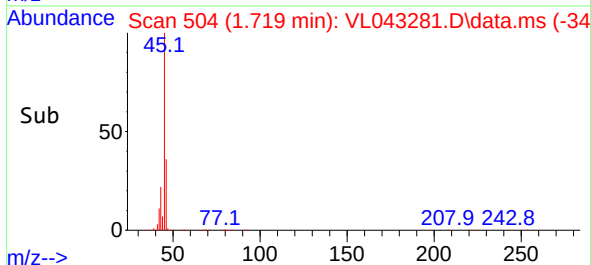
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

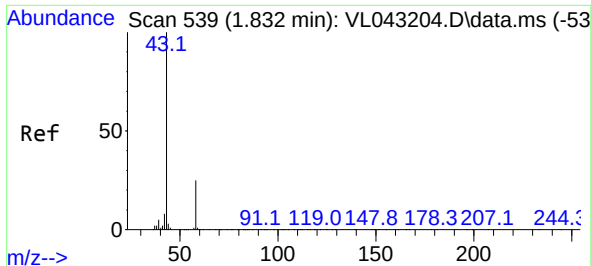


#13
Ethanol
Concen: 20.384 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



Tgt Ion: 45 Resp: 45204
Ion Ratio Lower Upper
45 100
46 37.2 15.0 59.8





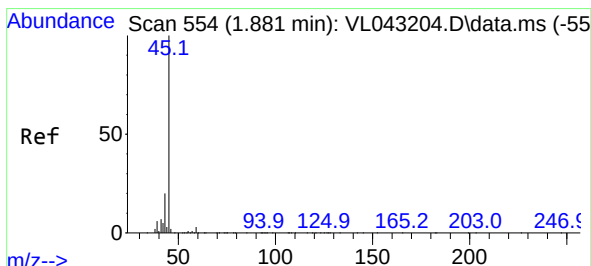
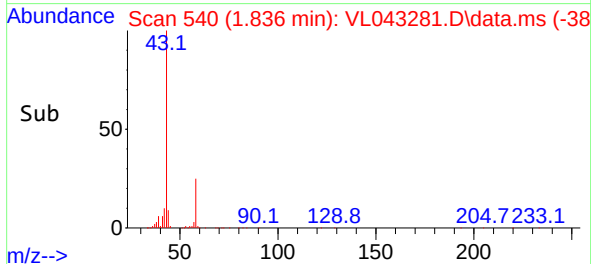
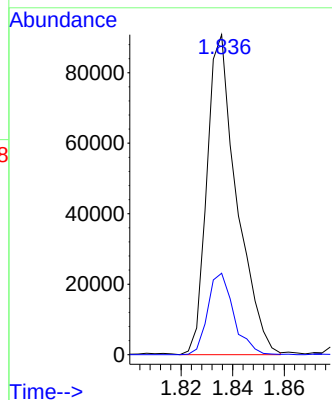
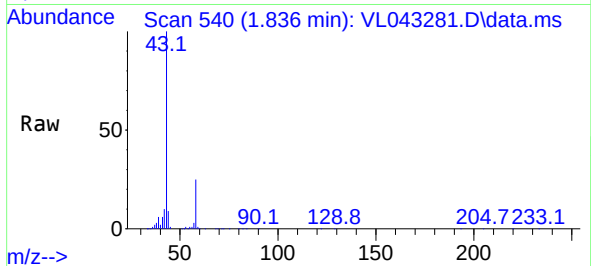
#15
Acetone
Concen: 4.906 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 7297
Ion Ratio Lower Upper
43 100
58 22.2 20.7 31.1

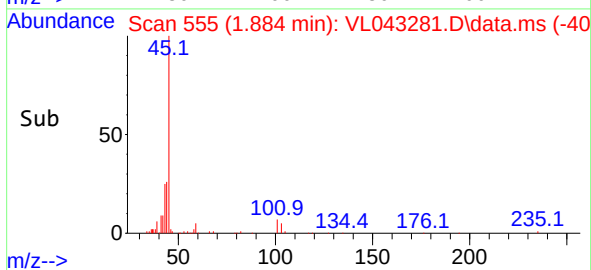
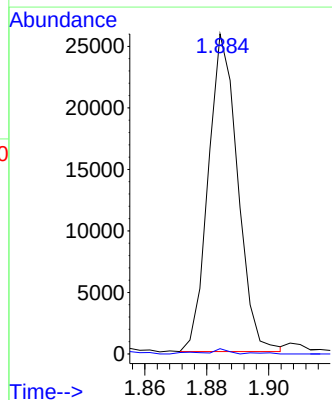
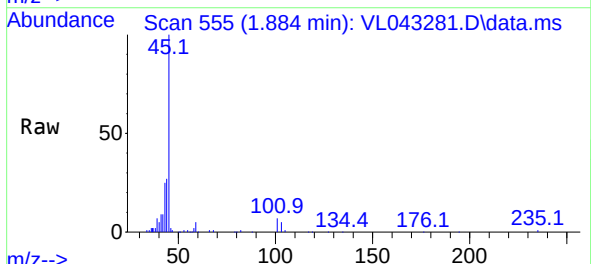
Manual Integrations
APPROVED

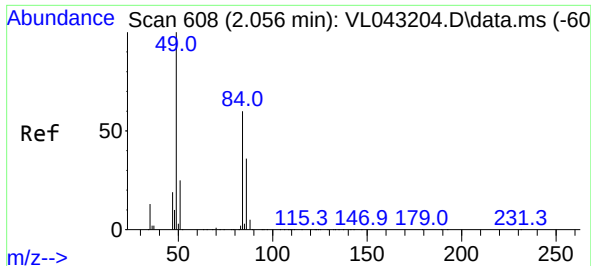
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#19
Isopropyl Alcohol
Concen: 2.025 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

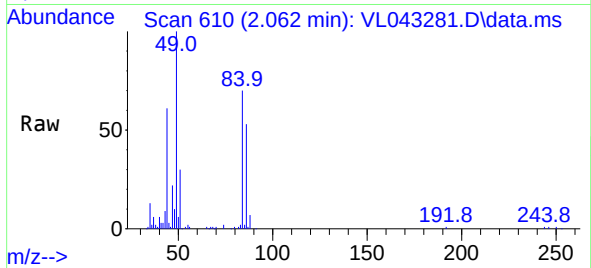
Tgt Ion: 45 Resp: 17025
Ion Ratio Lower Upper
45 100
58 95.1 31.3 46.9#





#20
Methylene Chloride
Concen: 1.013 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

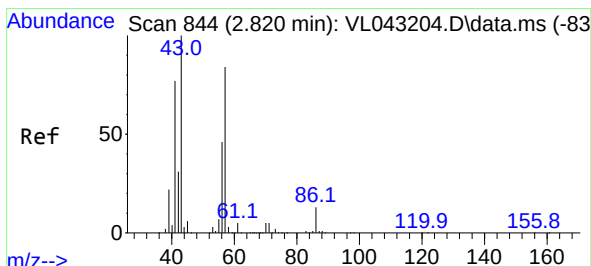
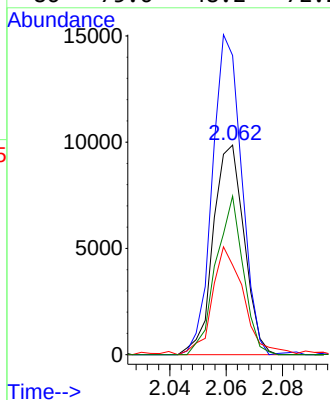
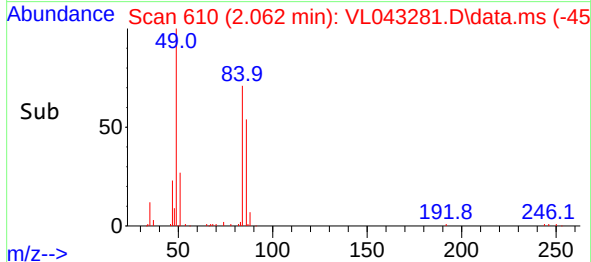
Instrument :
MSVOA_L
ClientSampleId :
IA1



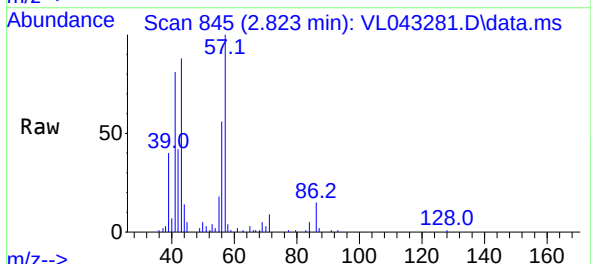
Tgt Ion: 84 Resp: 753
Ion Ratio Lower Upper
84 100
49 142.7 132.9 199.3
51 42.2 34.8 52.2
86 75.6 48.2 72.2#

Manual Integrations
APPROVED

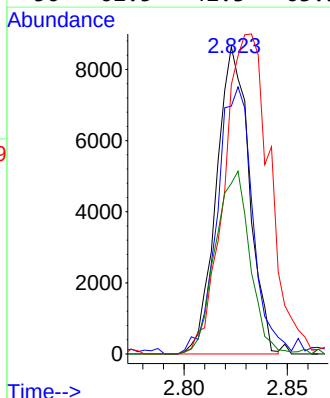
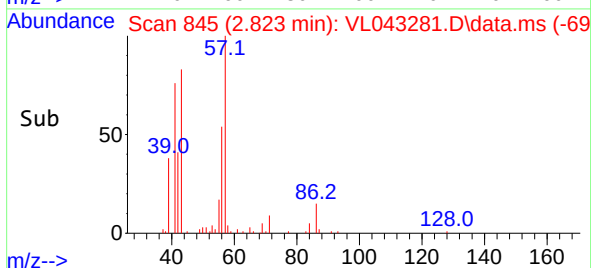
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

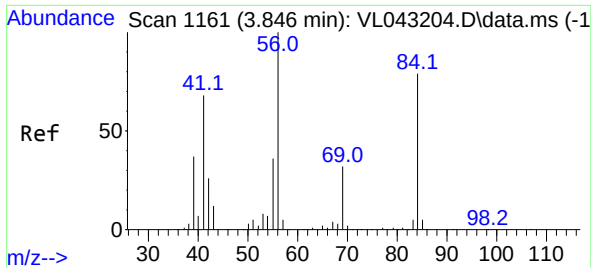


#26
Hexane
Concen: 0.680 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



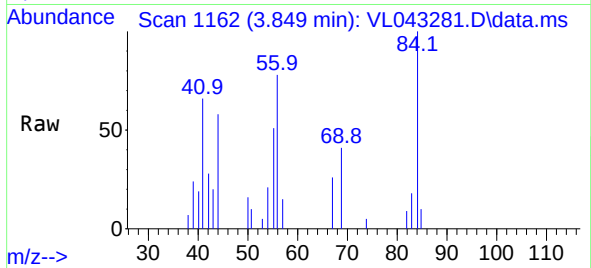
Tgt Ion: 57 Resp: 9567
Ion Ratio Lower Upper
57 100
41 97.8 74.6 111.8
43 145.5 179.0 268.4#
56 62.5 42.3 63.5





#30
Cyclohexane
Concen: 0.141 ppbv m
RT: 3.849 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

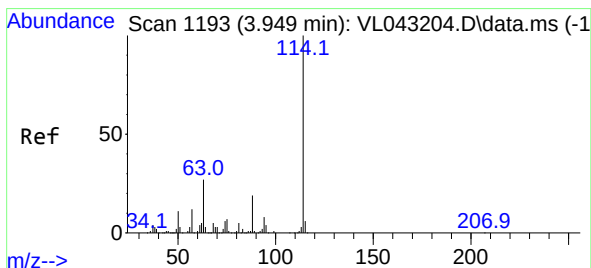
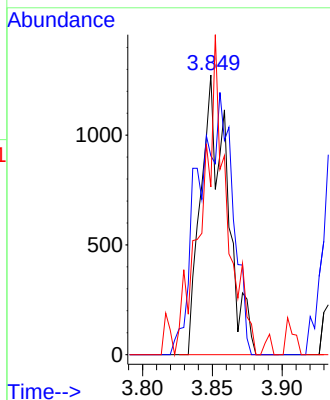
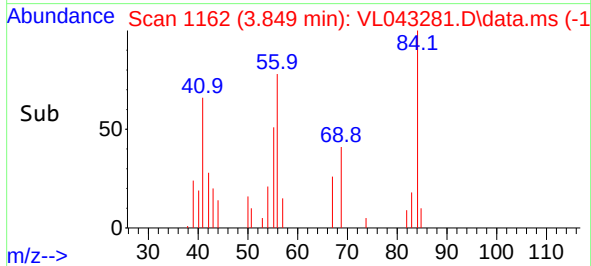
Instrument :
MSVOA_L
ClientSampleId :
IA1



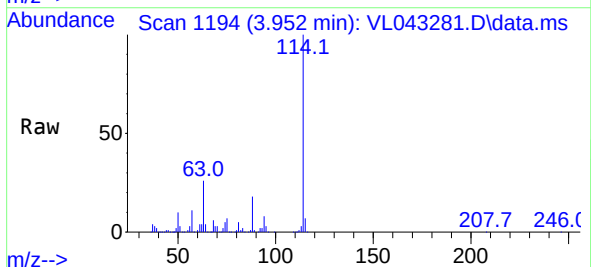
Tgt Ion: 84 Resp: 1664
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1
41 0.0 69.0 103.6

Manual Integrations
APPROVED

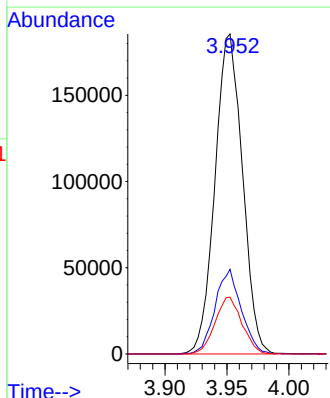
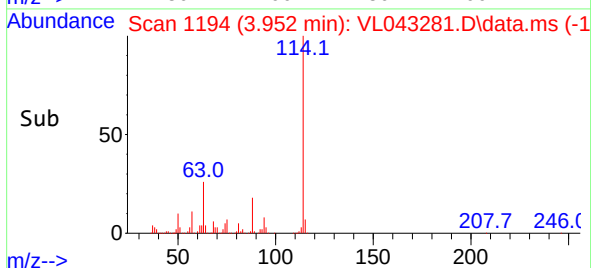
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

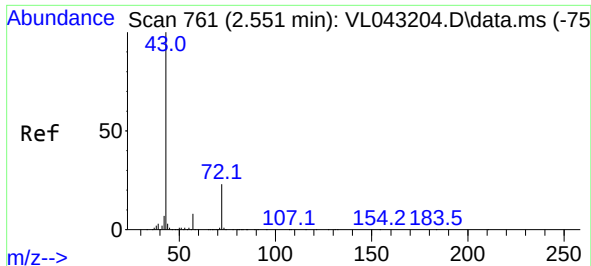


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



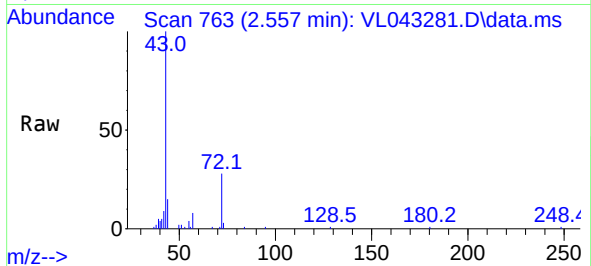
Tgt Ion:114 Resp: 286434
Ion Ratio Lower Upper
114 100
63 25.4 21.0 31.6
88 17.4 14.9 22.3





#34
2-Butanone
Concen: 0.508 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.007 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

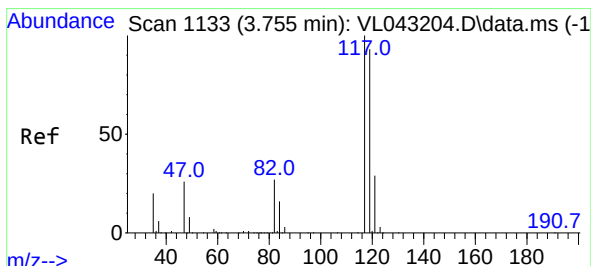
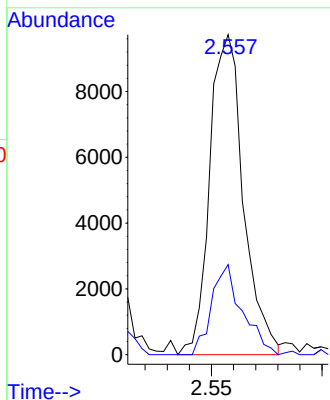
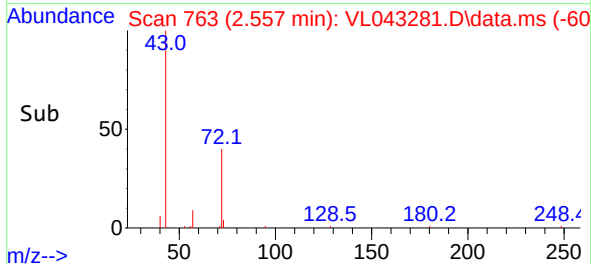
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 10274
Ion Ratio Lower Upper
43 100
72 26.2 18.1 27.1

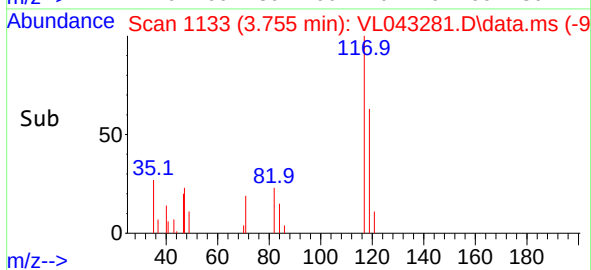
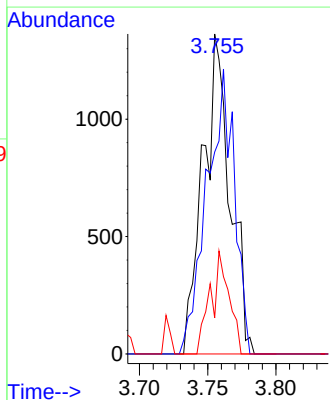
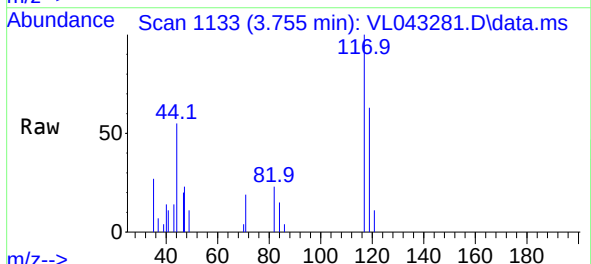
Manual Integrations
APPROVED

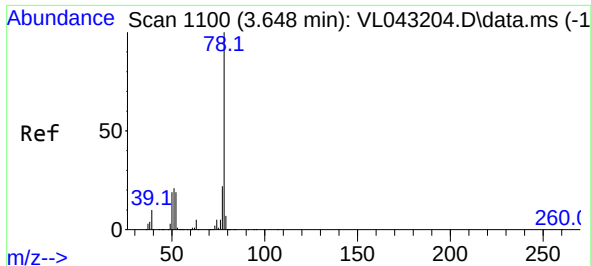
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#35
Carbon Tetrachloride
Concen: 0.086 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

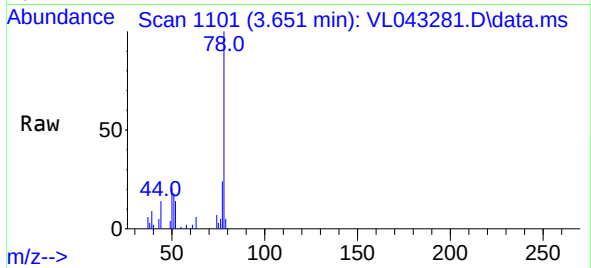
Tgt Ion:117 Resp: 1876
Ion Ratio Lower Upper
117 100
119 63.1 74.6 112.0#
121 11.2 23.2 34.8#





#36
Benzene
Concen: 0.377 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

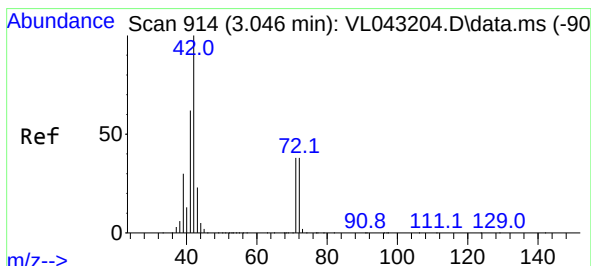
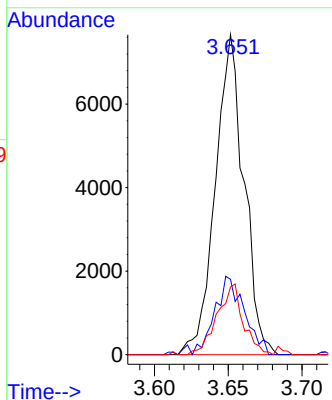
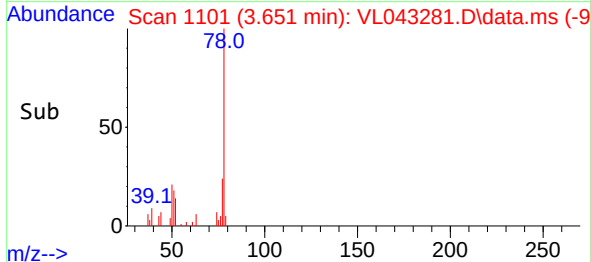
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 78 Resp: 10334
Ion Ratio Lower Upper
78 100
77 23.6 17.5 26.3
50 21.2 15.5 23.3

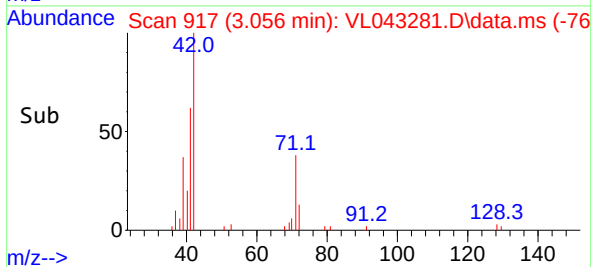
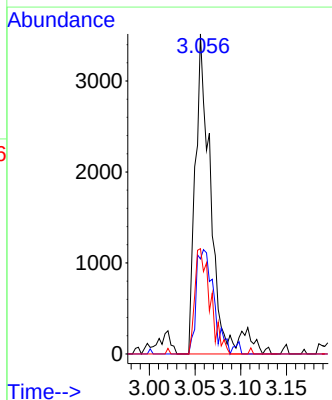
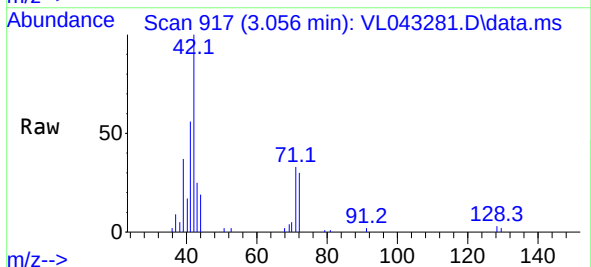
Manual Integrations
APPROVED

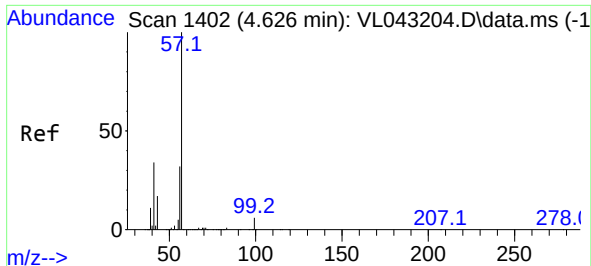
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#41
Tetrahydrofuran
Concen: 0.377 ppbv m
RT: 3.056 min Scan# 917
Delta R.T. 0.010 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

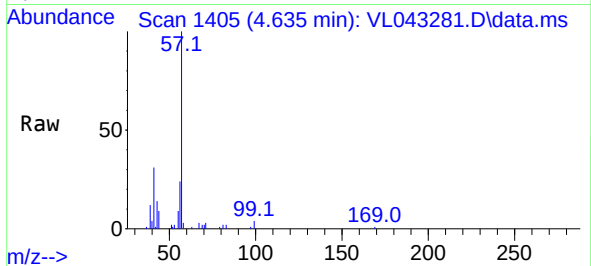
Tgt Ion: 42 Resp: 4214
Ion Ratio Lower Upper
42 100
72 0.0 30.6 46.0#
71 0.0 30.5 45.7#





#44
2,2,4-Trimethylpentane
Concen: 0.265 ppbv
RT: 4.635 min Scan# 1402
Delta R.T. 0.010 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

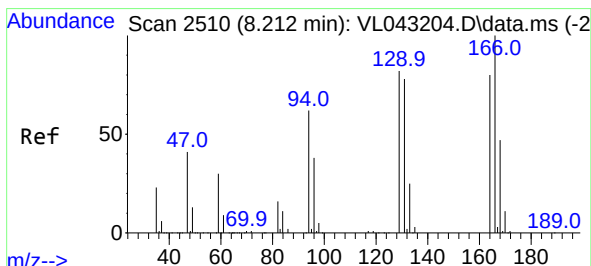
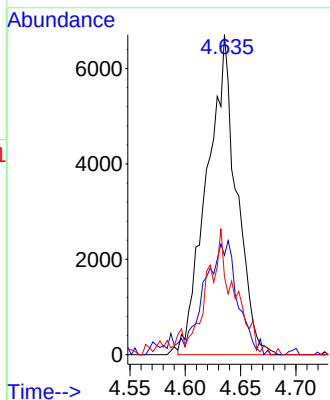
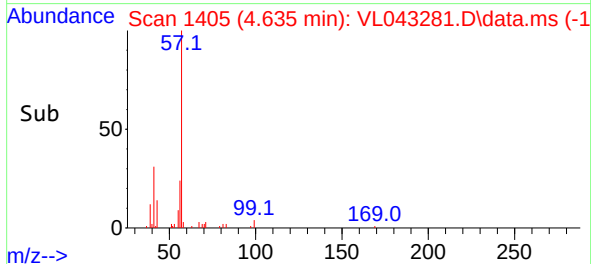
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 12500
Ion Ratio Lower Upper
57 100
41 43.5 28.0 42.0
56 40.3 25.6 38.4

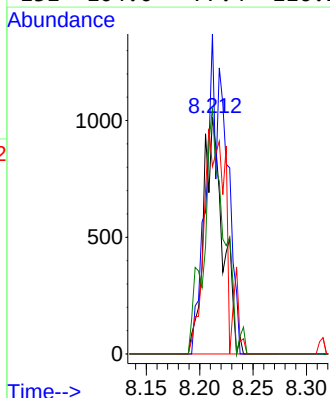
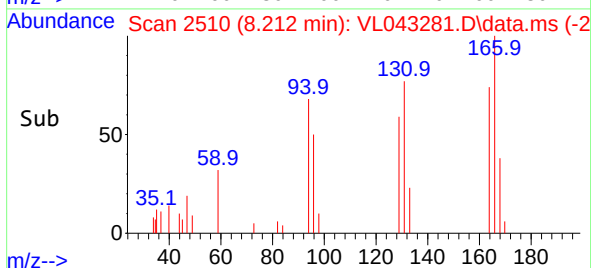
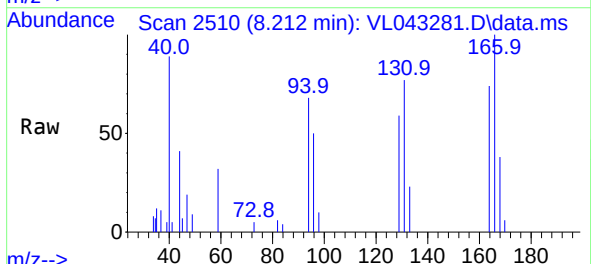
Manual Integrations
APPROVED

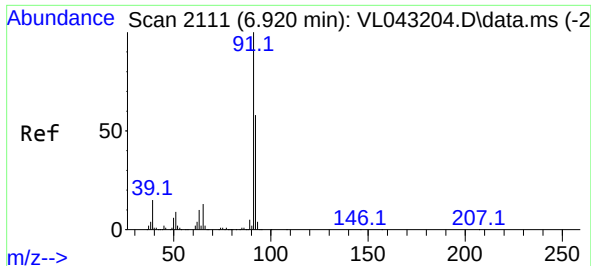
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#52
Tetrachloroethene
Concen: 0.126 ppbv m
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

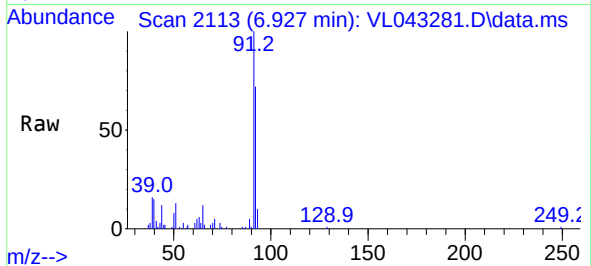
Tgt Ion:164 Resp: 1283
Ion Ratio Lower Upper
164 100
166 135.3 99.4 149.2
129 79.3 81.8 122.8
131 104.0 77.4 116.2





#53
Toluene
Concen: 0.494 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

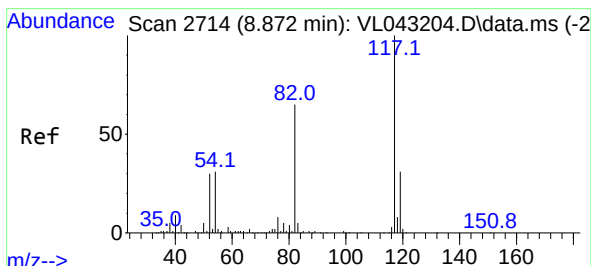
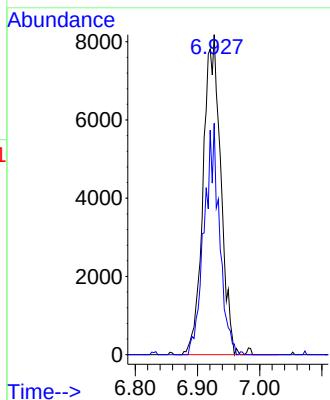
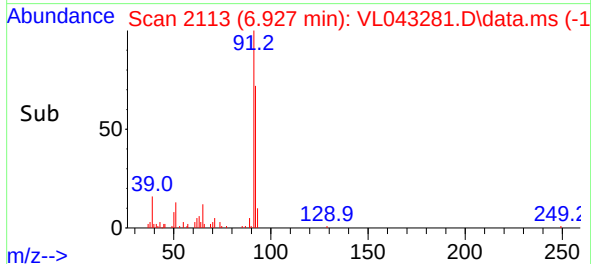
Instrument :
MSVOA_L
ClientSampleId :
IA1



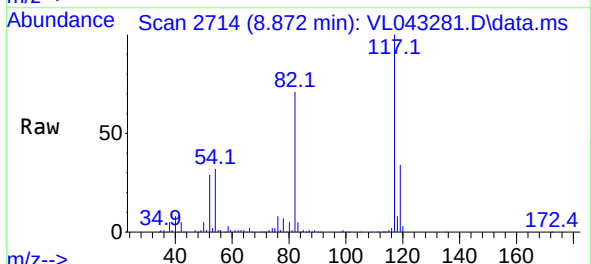
Tgt Ion: 91 Resp: 16030
Ion Ratio Lower Upper
91 100
92 63.0 47.4 71.0

Manual Integrations
APPROVED

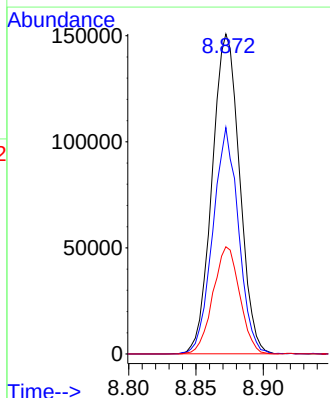
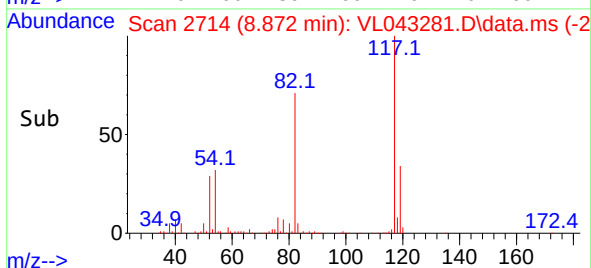
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

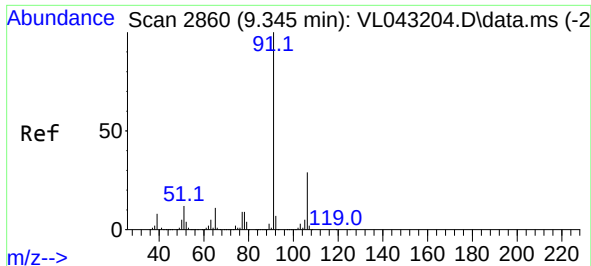


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



Tgt Ion:117 Resp: 213639
Ion Ratio Lower Upper
117 100
82 66.4 56.1 84.1
119 32.7 25.0 37.6





#58

Ethyl Benzene

Concen: 0.182 ppbv

RT: 9.348 min Scan# 2860

Delta R.T. 0.003 min

Lab File: VL043281.D

Acq: 24 Nov 2025 14:26

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 7478

Ion Ratio Lower Upper

91 100

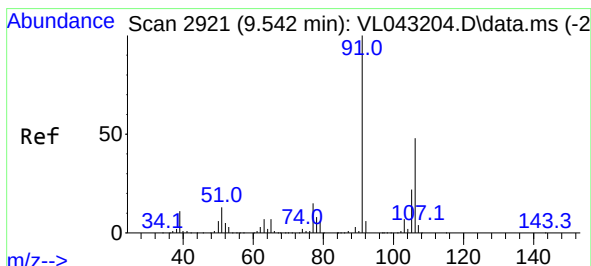
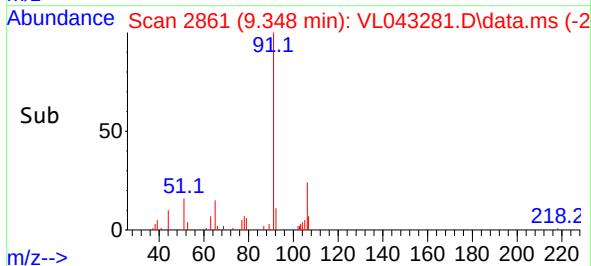
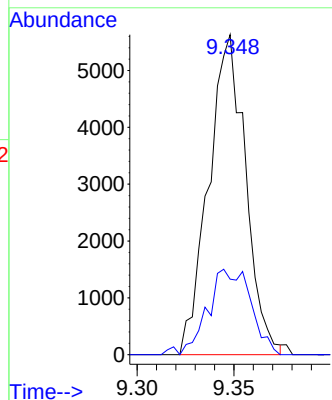
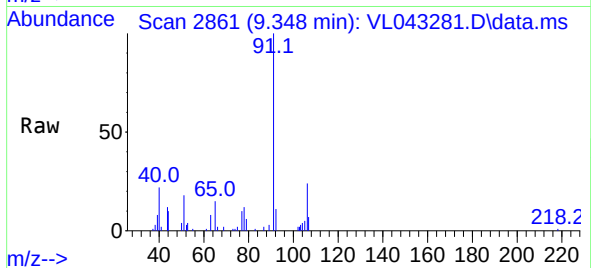
106 30.8 22.8 34.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#59

m/p-Xylene

Concen: 0.629 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.016 min

Lab File: VL043281.D

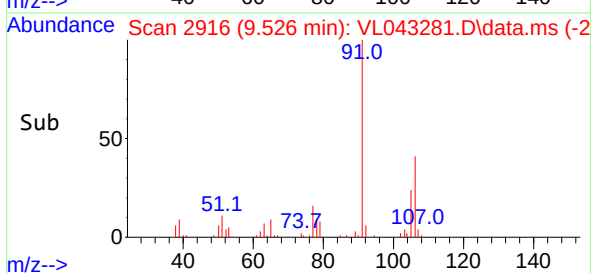
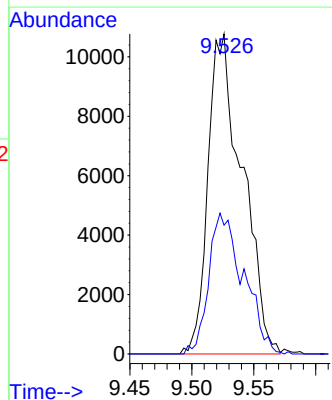
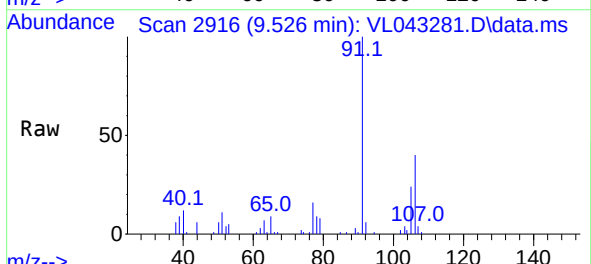
Acq: 24 Nov 2025 14:26

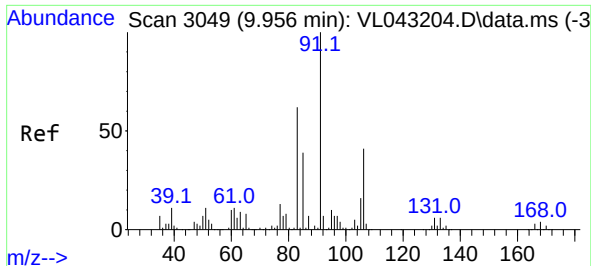
Tgt Ion: 91 Resp: 20727

Ion Ratio Lower Upper

91 100

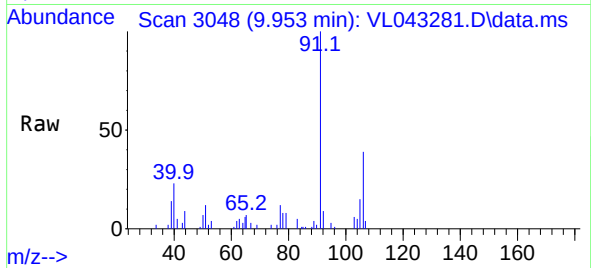
106 44.8 36.1 54.1





#60
o-Xylene
Concen: 0.205 ppbv
RT: 9.953 min Scan# 3049
Delta R.T. -0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

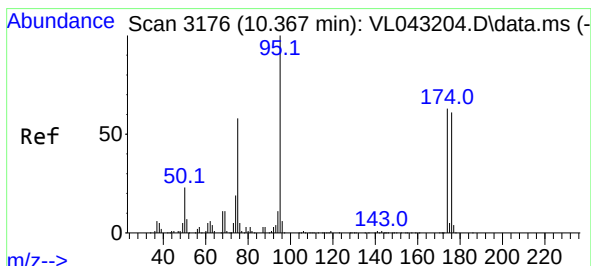
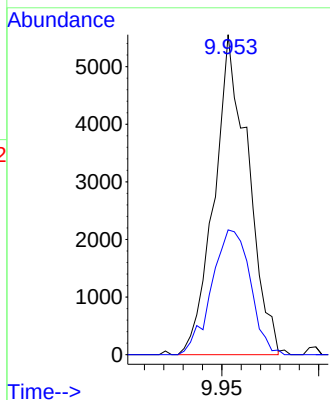
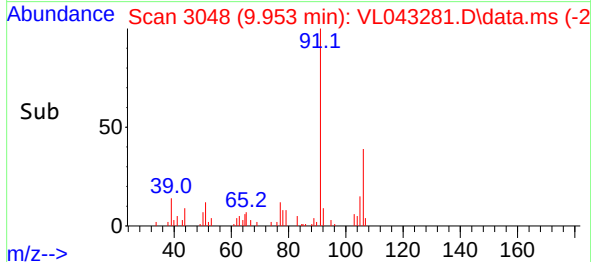
Instrument :
MSVOA_L
ClientSampleId :
IA1



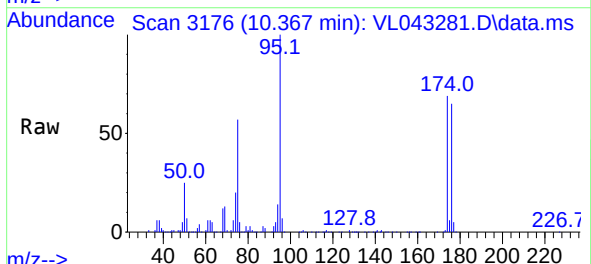
Tgt Ion: 91 Resp: 6764
Ion Ratio Lower Upper
91 100
106 44.3 20.9 62.8

Manual Integrations
APPROVED

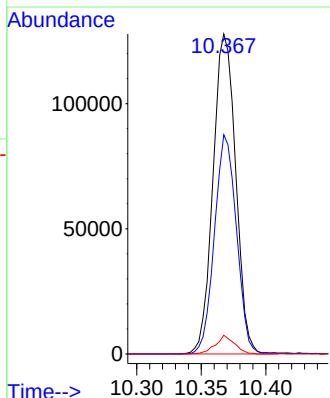
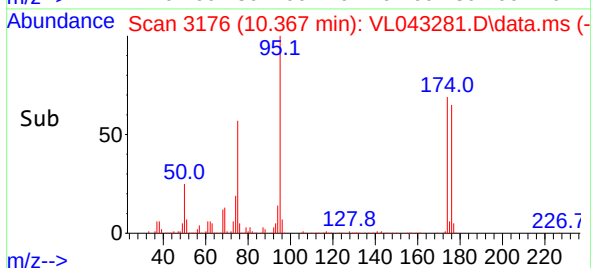
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

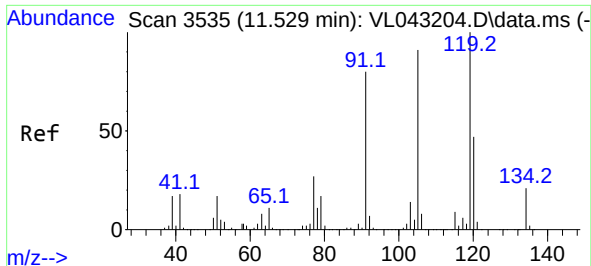


#68
1-Bromo-4-Fluorobenzene
Concen: 9.989 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



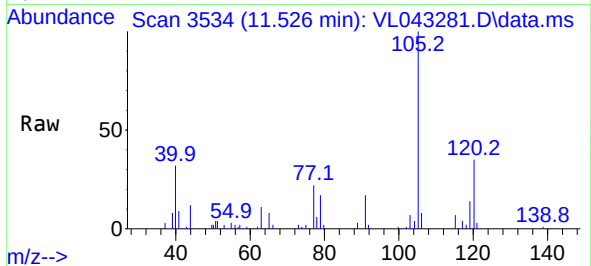
Tgt Ion: 95 Resp: 156431
Ion Ratio Lower Upper
95 100
174 66.8 50.2 75.2
175 4.9 4.1 6.1





#74
1,2,4-Trimethylbenzene
Concen: 0.139 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

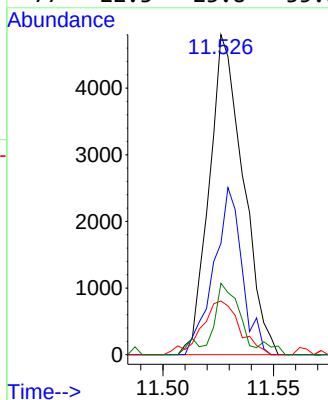
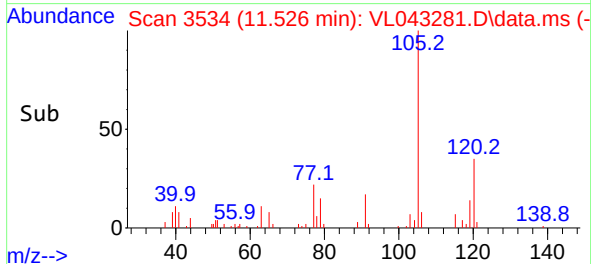
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:	105	Resp:	5120
Ion	Ratio	Lower	Upper
105	100		
120	34.8	41.7	62.5
91	18.6	70.0	105.0
77	22.3	23.8	35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: SV2
Lab Sample ID: Q3696-03
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/19/25
Date Received: 11/20/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/24/25 17:47	VL112425
142-82-5	Heptane	0.68	2.79	U	4	2.79	8.20	11/24/25 17:47	VL112425
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/24/25 17:47	VL112425
110-82-7	Cyclohexane	0.88	3.03	U	4	3.03	6.88	11/24/25 17:47	VL112425
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/24/25 17:47	VL112425
71-55-6	1,1,1-Trichloroethane	0.25	1.36		4	0.33	0.65	11/24/25 17:47	VL112425
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	U	4	2.62	9.34	11/24/25 17:47	VL112425
71-43-2	Benzene	0.32	1.02	U	4	1.02	6.39	11/24/25 17:47	VL112425
79-01-6	Trichloroethene	0.24	1.29		4	0.54	0.64	11/24/25 17:47	VL112425
108-88-3	Toluene	0.95	3.58	J	4	2.41	7.54	11/24/25 17:47	VL112425
127-18-4	Tetrachloroethene	3.10	21.0		4	0.41	0.81	11/24/25 17:47	VL112425
100-41-4	Ethyl Benzene	0.76	3.30	U	4	3.30	8.69	11/24/25 17:47	VL112425
179601-23-1	m/p-Xylene	1.60	6.95	U	4	6.95	17.4	11/24/25 17:47	VL112425
95-47-6	o-Xylene	0.84	3.65	U	4	3.65	8.69	11/24/25 17:47	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/24/25 17:47	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/24/25 17:47	VL112425
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/24/25 17:47	VL112425
110-54-3	Hexane	0.64	2.26	U	4	2.26	7.05	11/24/25 17:47	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.70				65 - 135	97% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	110000							
540-36-3	1,4-Difluorobenzene	286000							
3114-55-4	Chlorobenzene-d5	215000							

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\VL112425\
 Data File : VL043287.D
 Acq On : 24 Nov 2025 17:47
 Operator : SY/MD
 Sample : Q3696-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:43:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	110236	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	285613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	215025	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	152555	9.679	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3980	0.256	ppbv	91
9) Propene	1.483	41	6307	0.971	ppbv #	1
11) Trichlorofluoromethane	1.875	101	4396	0.292	ppbv	97
13) Ethanol	1.719	45	13758	6.026	ppbv	93
15) Acetone	1.833	43	202668	13.233	ppbv	100
20) Methylene Chloride	2.062	84	4492	0.228	ppbv	84
26) Hexane	2.820	57	2082	0.144	ppbv #	49
27) Carbon Disulfide	2.147	76	3842	0.260	ppbv #	1
32) 1,1,1-Trichloroethane	3.367	97	1383m	0.063	ppbv	
34) 2-Butanone	2.554	43	7585	0.376	ppbv	98
38) Trichloroethene	4.538	130	629m	0.059	ppbv	
52) Tetrachloroethene	8.212	164	7855	0.772	ppbv	97
53) Toluene	6.917	91	7723m	0.238	ppbv	
59) m/p-Xylene	9.520	91	6508m	0.196	ppbv	
74) 1,2,4-Trimethylbenzene	11.526	105	5710	0.154	ppbv #	51

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

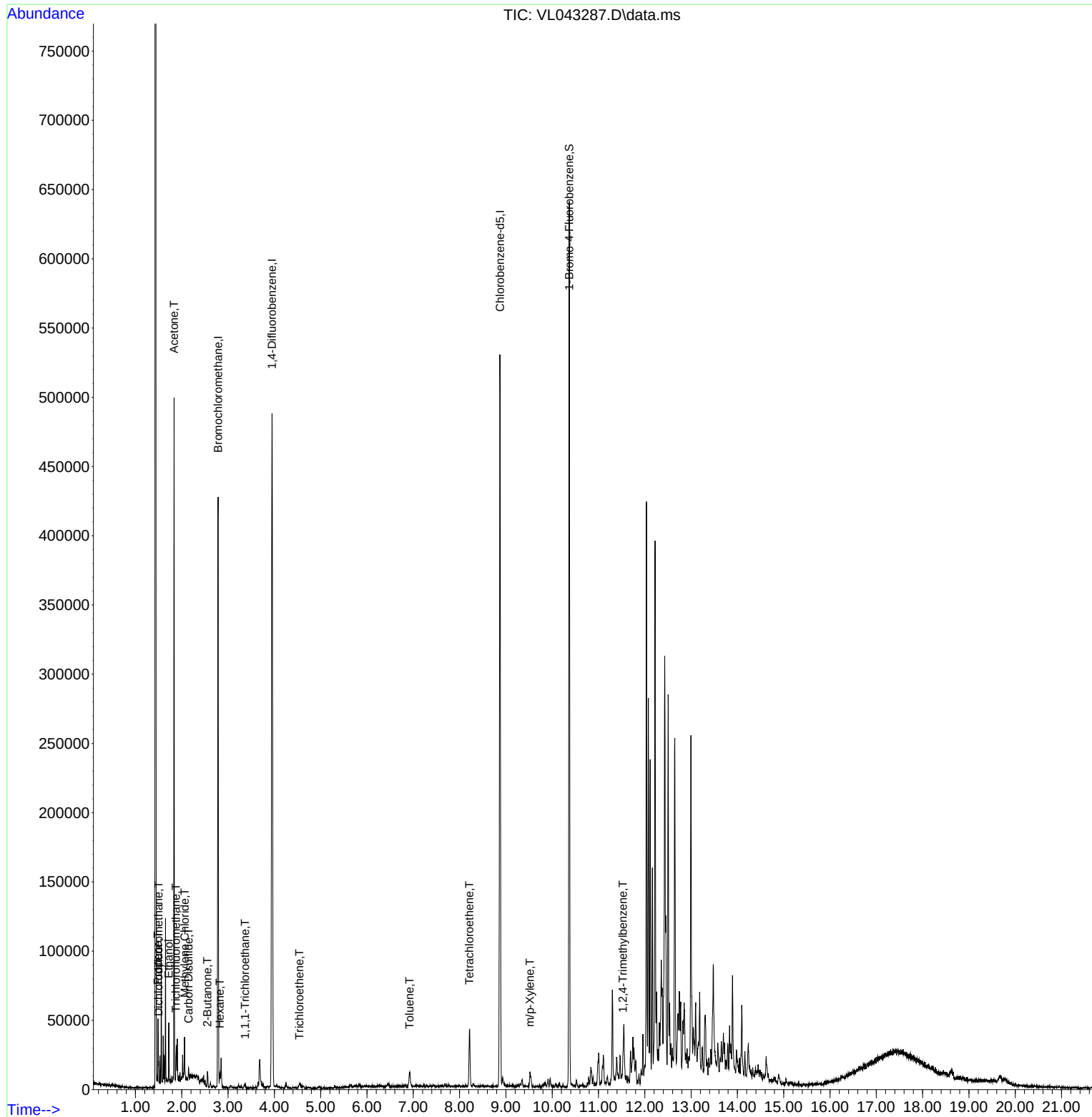
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043287.D
Acq On : 24 Nov 2025 17:47
Operator : SY/MD
Sample : Q3696-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

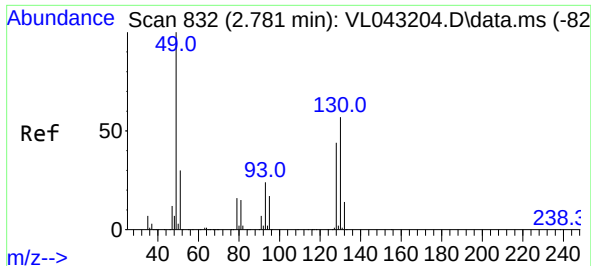
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Nov 24 23:43:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2025
Supervised By : Mahesh Dadoda 11/25/2025





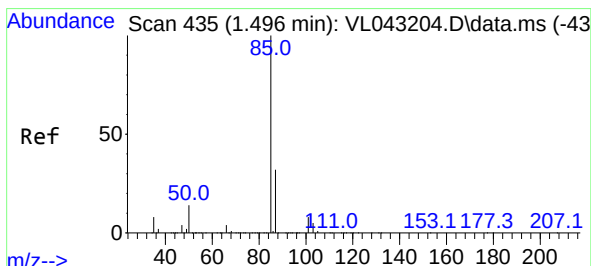
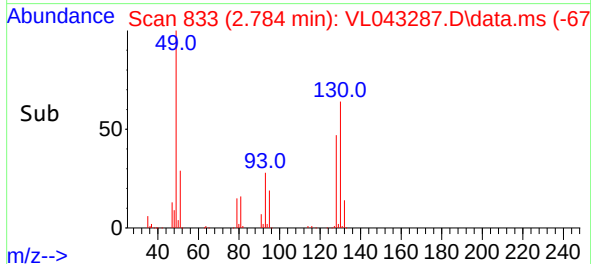
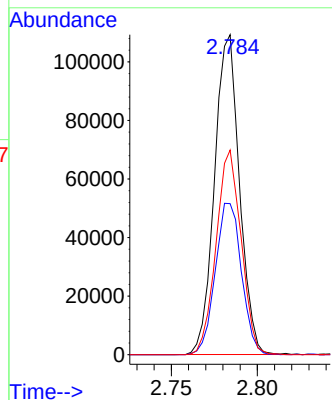
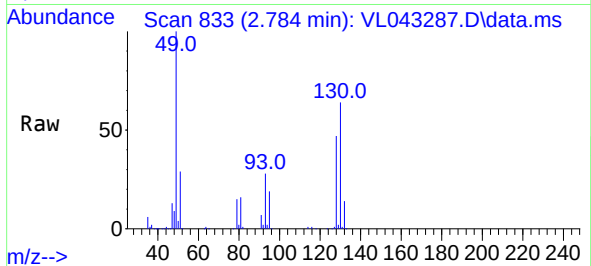
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 110230
Ion Ratio Lower Upper
49 100
128 49.8 23.0 69.0
130 64.1 29.9 89.7

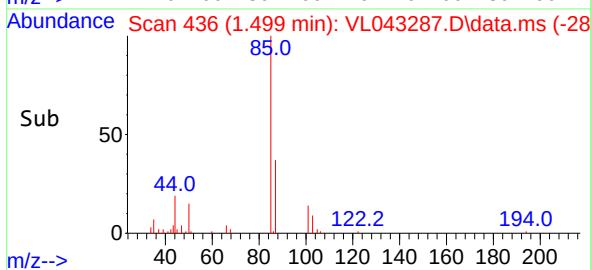
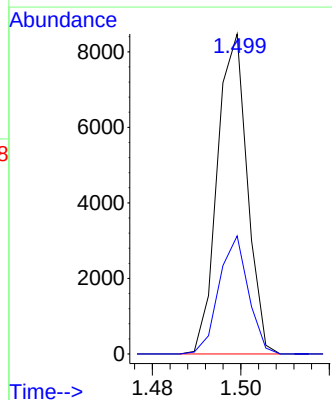
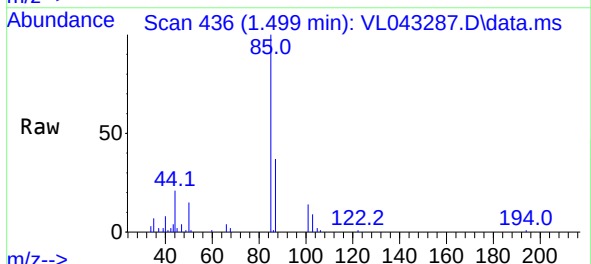
Manual Integrations
APPROVED

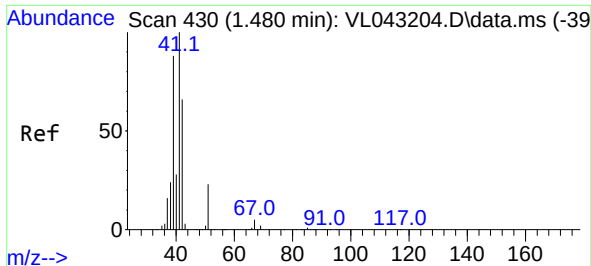
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.256 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

Tgt Ion: 85 Resp: 3980
Ion Ratio Lower Upper
85 100
87 36.9 25.4 38.2





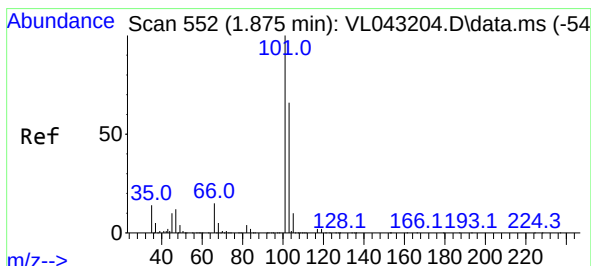
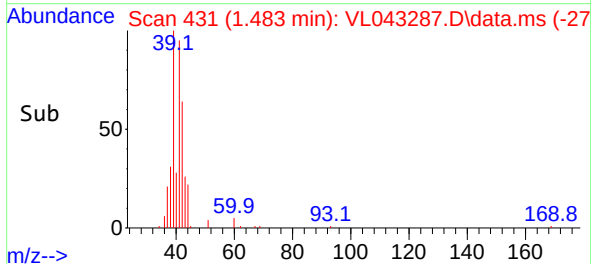
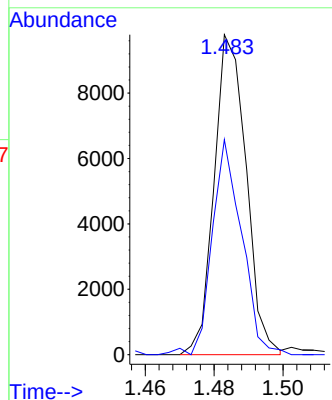
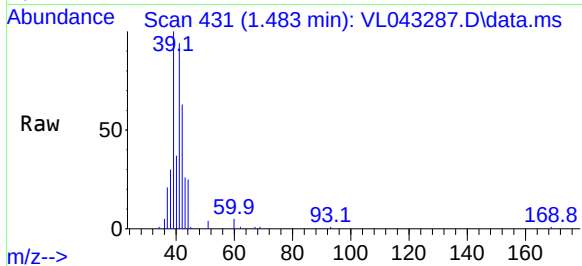
#9
Propene
Concen: 0.971 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 41 Resp: 630
Ion Ratio Lower Upper
41 100
42 61.9 3.7 5.5

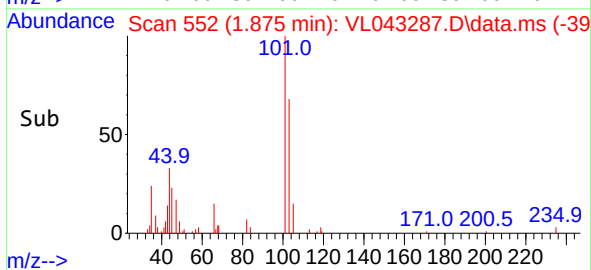
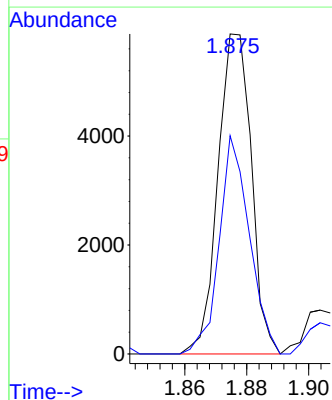
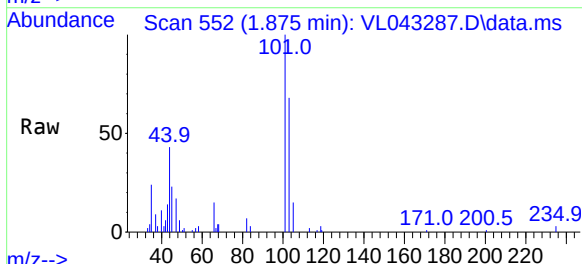
Manual Integrations
APPROVED

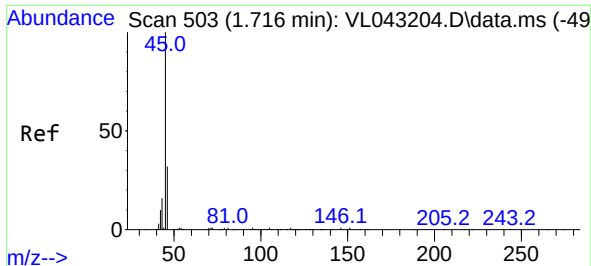
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#11
Trichlorofluoromethane
Concen: 0.292 ppbv
RT: 1.875 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

Tgt Ion:101 Resp: 4396
Ion Ratio Lower Upper
101 100
103 68.2 52.6 79.0





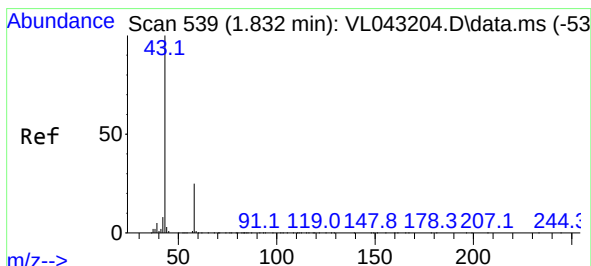
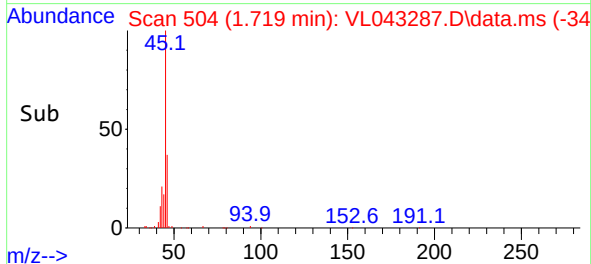
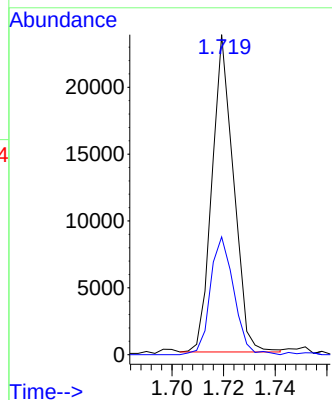
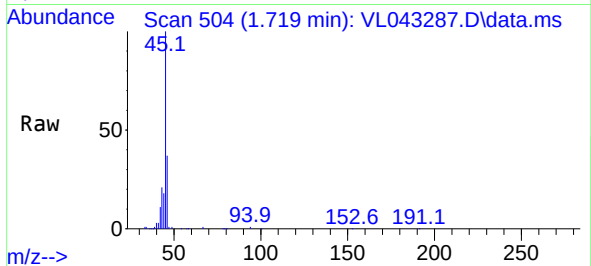
#13
Ethanol
Concen: 6.026 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 13758
Ion Ratio Lower Upper
45 100
46 41.3 15.0 59.8

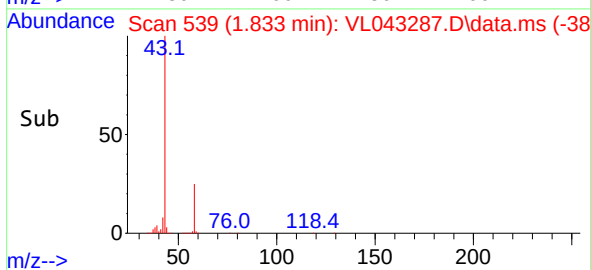
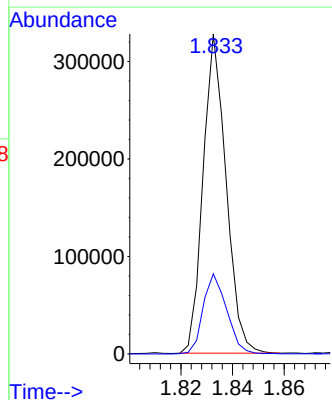
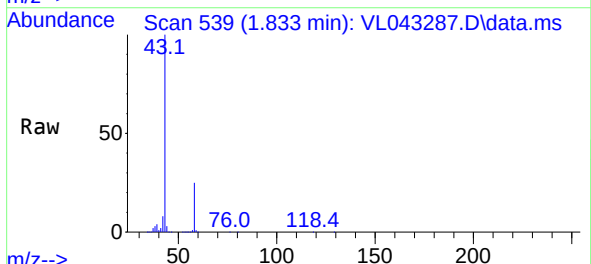
Manual Integrations
APPROVED

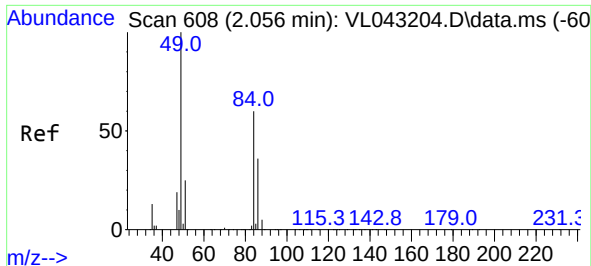
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#15
Acetone
Concen: 13.233 ppbv
RT: 1.833 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

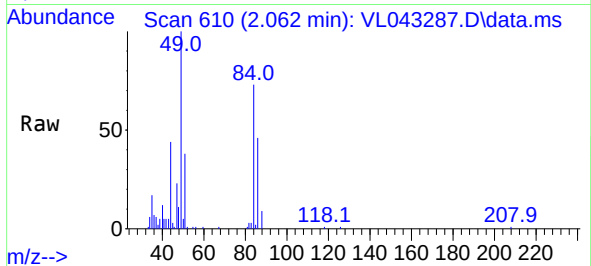
Tgt Ion: 43 Resp: 202668
Ion Ratio Lower Upper
43 100
58 25.9 20.7 31.1





#20
Methylene Chloride
Concen: 0.228 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

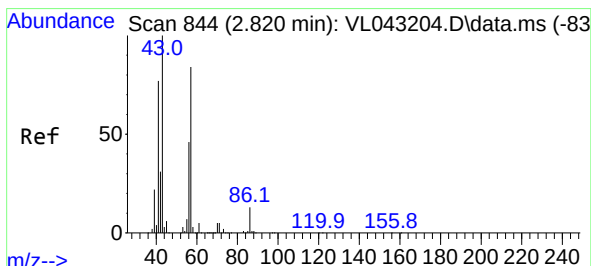
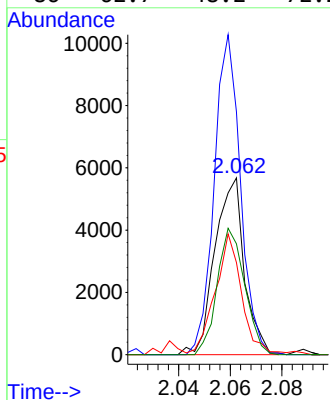
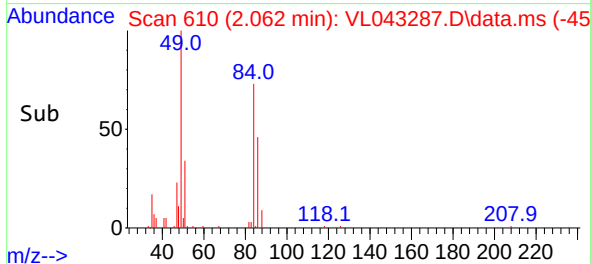
Instrument :
MSVOA_L
ClientSampleId :
SV2



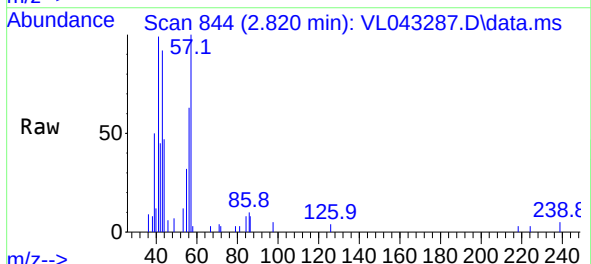
Tgt Ion: 84 Resp: 4492
Ion Ratio Lower Upper
84 100
49 137.4 132.9 199.3
51 50.5 34.8 52.2
86 62.7 48.2 72.2

Manual Integrations
APPROVED

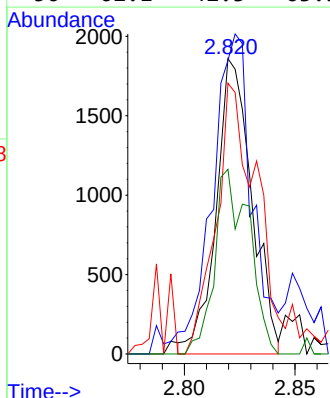
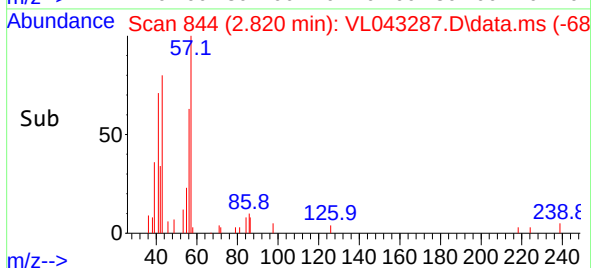
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

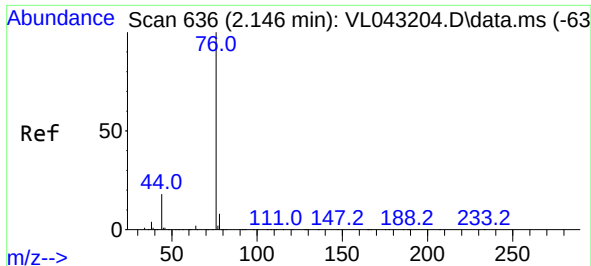


#26
Hexane
Concen: 0.144 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47



Tgt Ion: 57 Resp: 2082
Ion Ratio Lower Upper
57 100
41 145.3 74.6 111.8#
43 128.0 179.0 268.4#
56 62.1 42.3 63.5





#27

Carbon Disulfide

Concen: 0.260 ppbv

RT: 2.147 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL043287.D

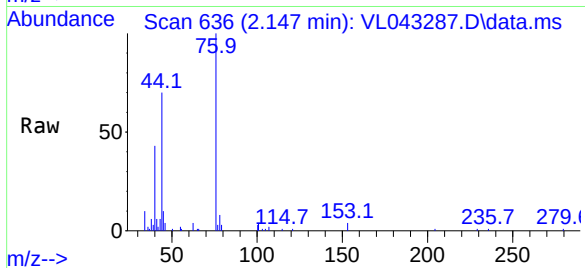
Acq: 24 Nov 2025 17:47

Instrument :

MSVOA_L

ClientSampleId :

SV2

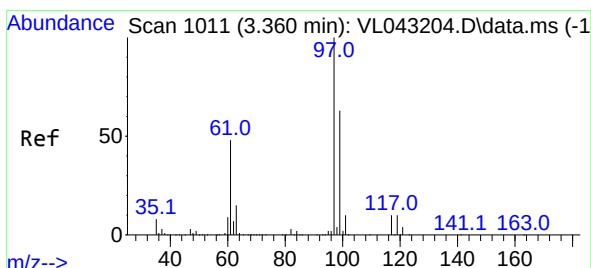
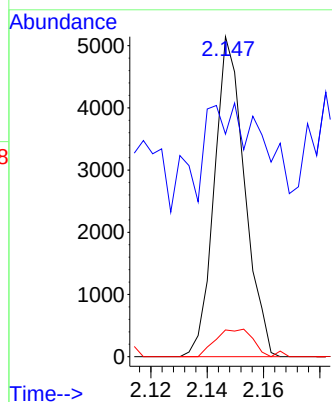
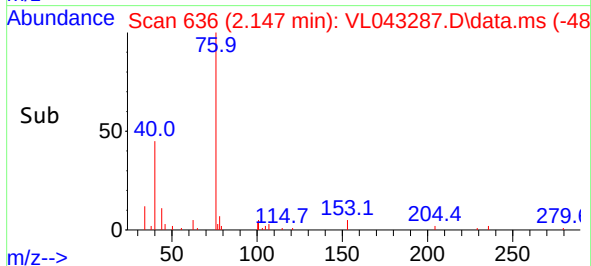


Tgt Ion:	76	Resp:	384
Ion	Ratio	Lower	Upper
76	100		
44	127.3	16.1	24.1
78	11.0	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#32

1,1,1-Trichloroethane

Concen: 0.063 ppbv m

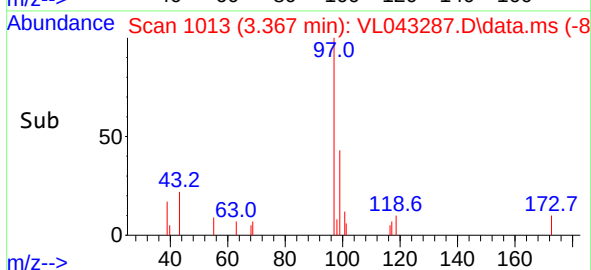
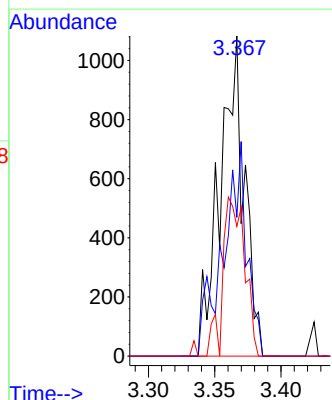
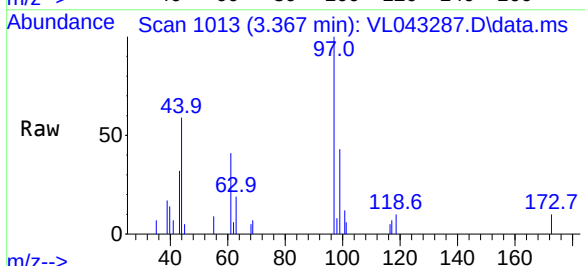
RT: 3.367 min Scan# 1013

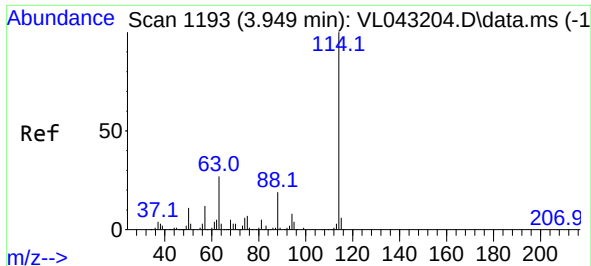
Delta R.T. 0.007 min

Lab File: VL043287.D

Acq: 24 Nov 2025 17:47

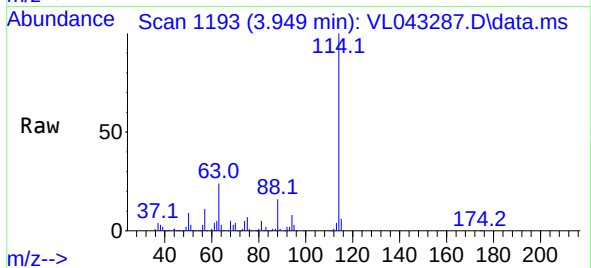
Tgt Ion:	97	Resp:	1383
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5
61	0.0	38.9	58.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

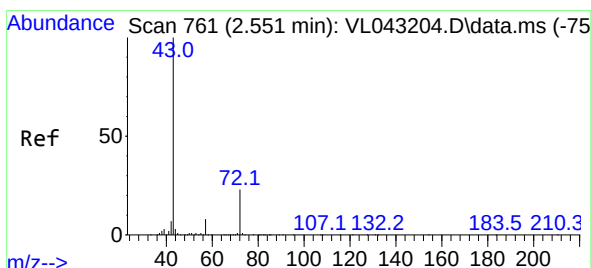
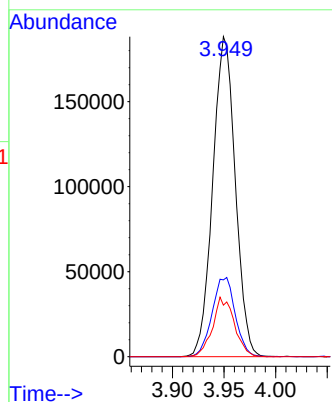
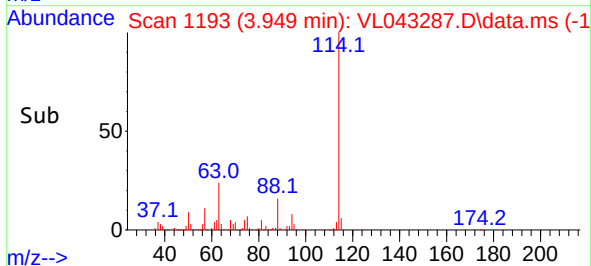
Instrument :
MSVOA_L
ClientSampleId :
SV2



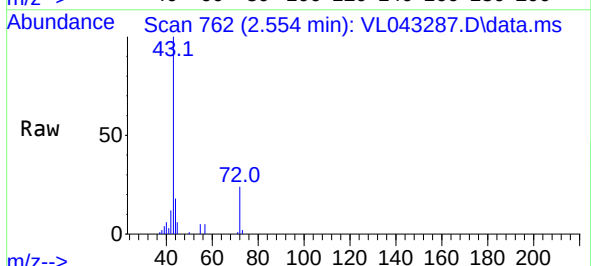
Tgt Ion:114 Resp: 28561
Ion Ratio Lower Upper
114 100
63 25.5 21.0 31.6
88 18.0 14.9 22.3

Manual Integrations
APPROVED

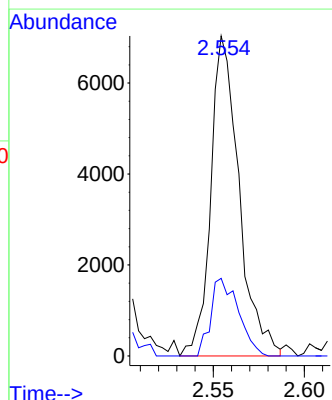
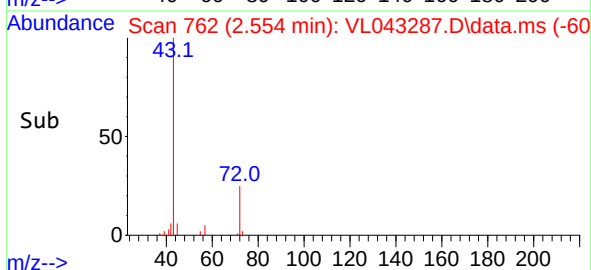
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

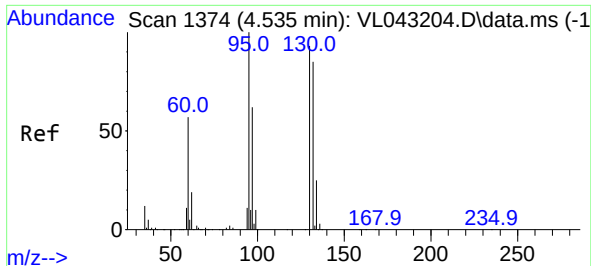


#34
2-Butanone
Concen: 0.376 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47



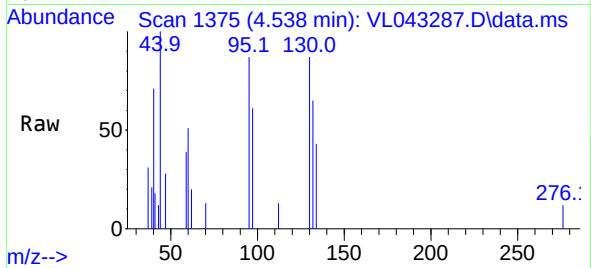
Tgt Ion: 43 Resp: 7585
Ion Ratio Lower Upper
43 100
72 23.7 18.1 27.1





#38
Trichloroethene
Concen: 0.059 ppbv m
RT: 4.538 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

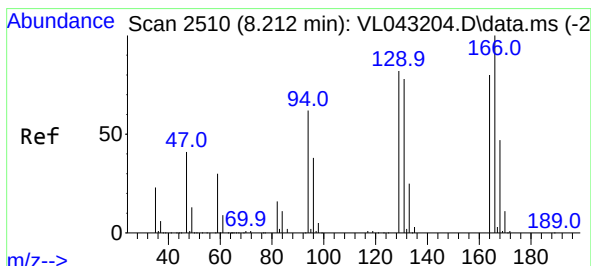
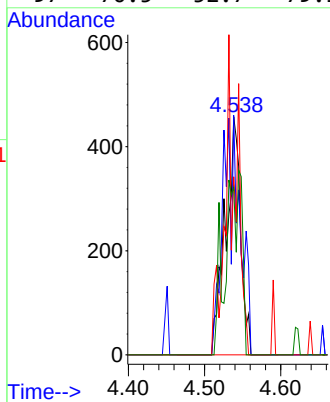
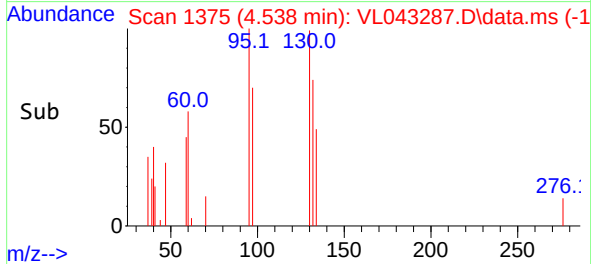
Instrument :
MSVOA_L
ClientSampleId :
SV2



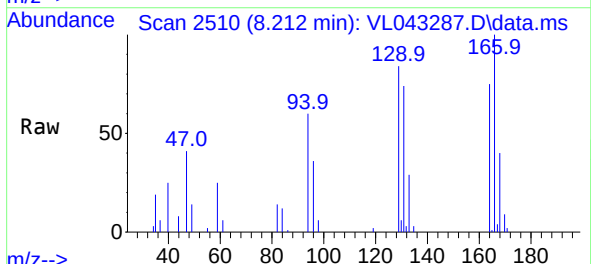
Tgt Ion:130 Resp: 629
Ion Ratio Lower Upper
130 100
95 100.7 85.7 128.5
132 74.8 73.4 110.0
97 70.5 52.7 79.1

Manual Integrations
APPROVED

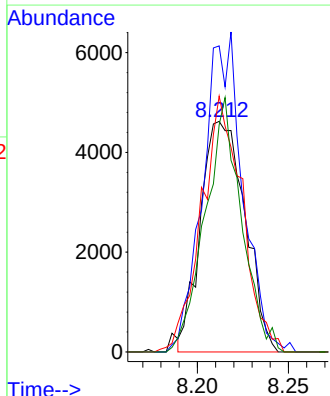
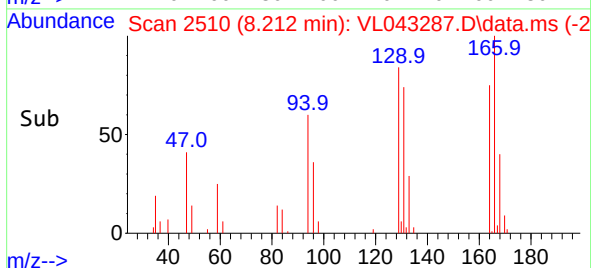
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

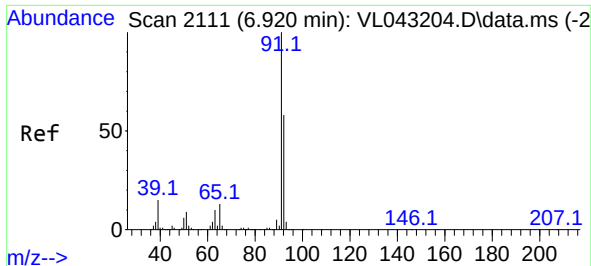


#52
Tetrachloroethene
Concen: 0.772 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47



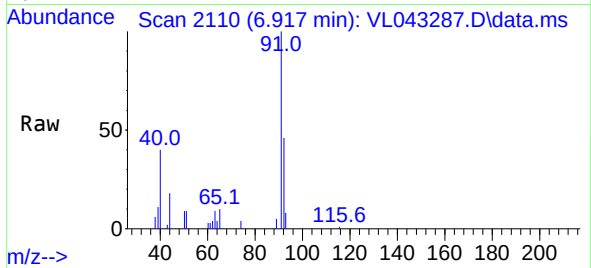
Tgt Ion:164 Resp: 7855
Ion Ratio Lower Upper
164 100
166 129.0 99.4 149.2
129 105.1 81.8 122.8
131 96.7 77.4 116.2





#53
Toluene
Concen: 0.238 ppbv m
RT: 6.917 min Scan# 2111
Delta R.T. -0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

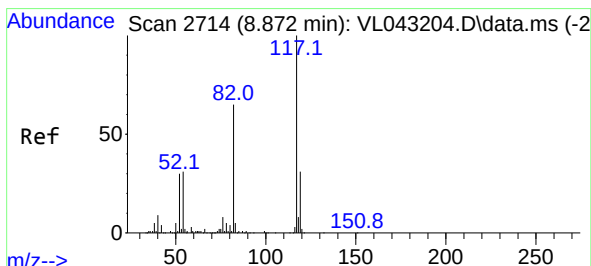
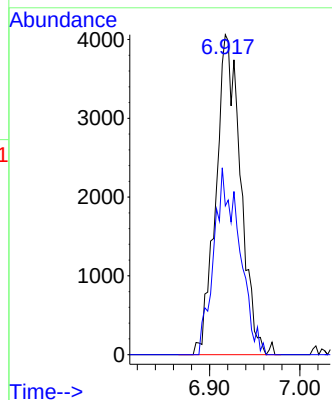
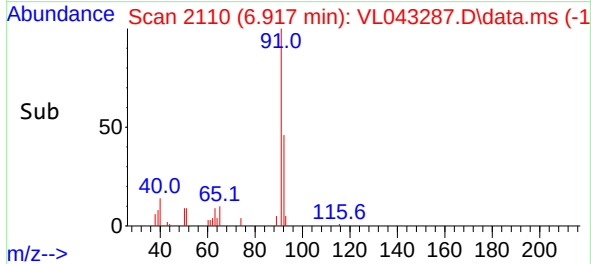
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 91 Resp: 772
Ion Ratio Lower Upper
91 100
92 60.1 47.4 71.0

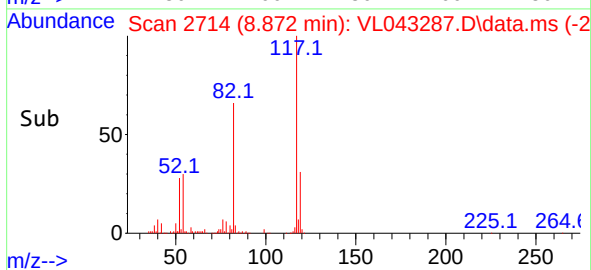
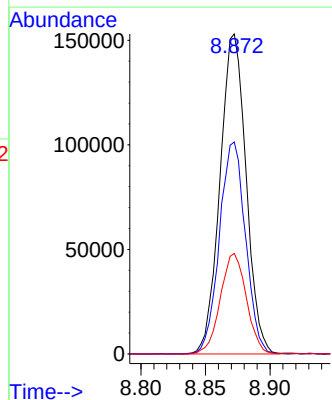
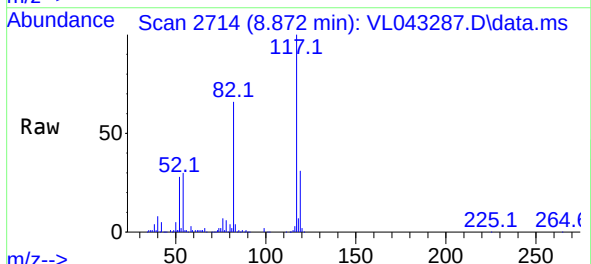
Manual Integrations
APPROVED

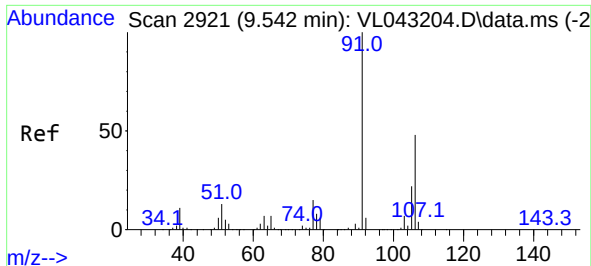
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

Tgt Ion:117 Resp: 215025
Ion Ratio Lower Upper
117 100
82 66.3 56.1 84.1
119 31.5 25.0 37.6





#59

m/p-Xylene

Concen: 0.196 ppbv m

RT: 9.520 min Scan# 2921

Delta R.T. -0.023 min

Lab File: VL043287.D

Acq: 24 Nov 2025 17:47

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 91 Resp: 6508

Ion Ratio Lower Upper

91 100

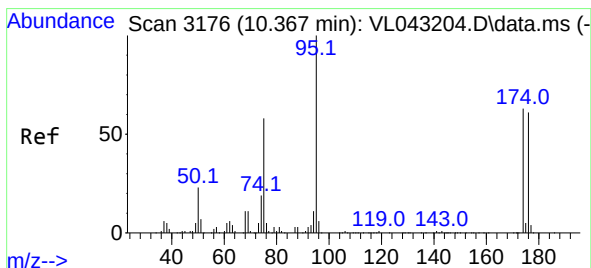
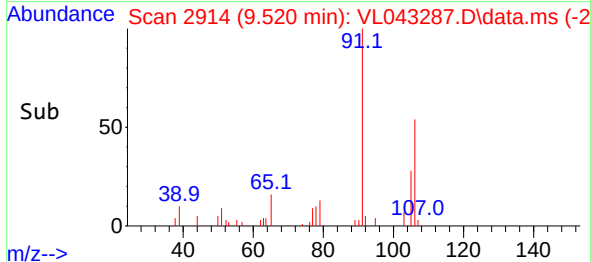
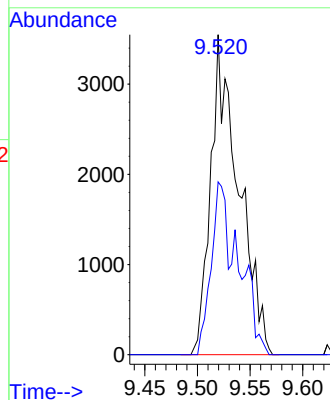
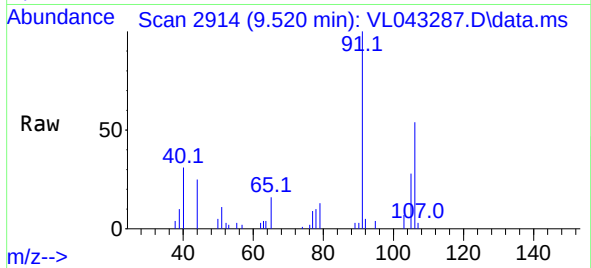
106 0.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.679 ppbv

RT: 10.368 min Scan# 3176

Delta R.T. 0.000 min

Lab File: VL043287.D

Acq: 24 Nov 2025 17:47

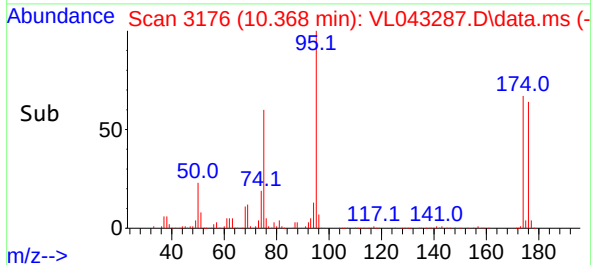
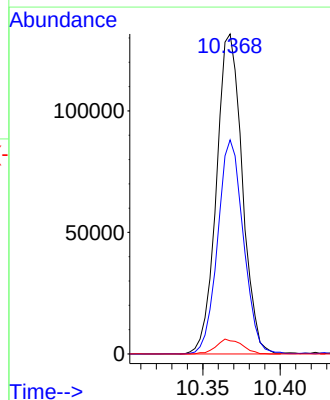
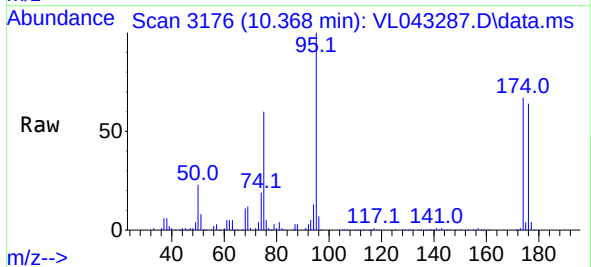
Tgt Ion: 95 Resp: 152555

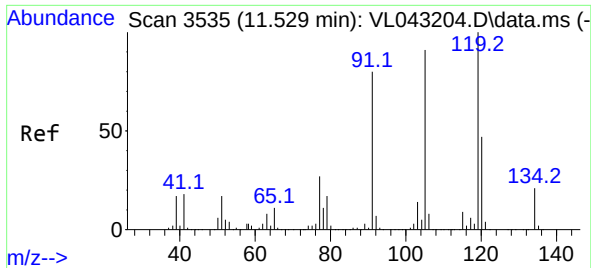
Ion Ratio Lower Upper

95 100

174 67.1 50.2 75.2

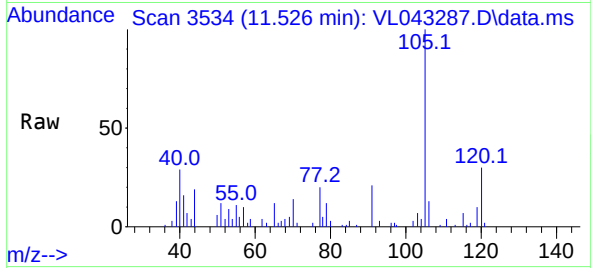
175 4.6 4.1 6.1





#74
1,2,4-Trimethylbenzene
Concen: 0.154 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043287.D
Acq: 24 Nov 2025 17:47

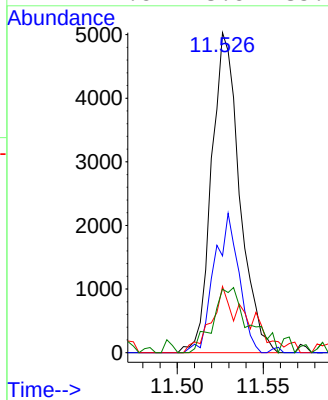
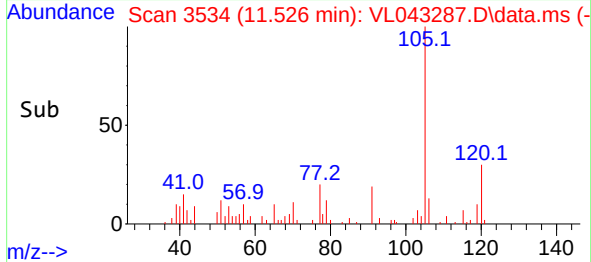
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:105 Resp: 5710
Ion Ratio Lower Upper
105 100
120 31.8 41.7 62.5
91 20.7 70.0 105.0
77 19.8 23.8 35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: IA2
Lab Sample ID: Q3696-04
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/19/25
Date Received: 11/20/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/24/25 15:35	VL112425
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/24/25 15:35	VL112425
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/24/25 15:35	VL112425
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/24/25 15:35	VL112425
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/24/25 15:35	VL112425
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/24/25 15:35	VL112425
540-84-1	2,2,4-Trimethylpentane	0.25	1.17	J	1	0.65	2.34	11/24/25 15:35	VL112425
71-43-2	Benzene	0.34	1.09	J	1	0.26	1.60	11/24/25 15:35	VL112425
79-01-6	Trichloroethene	0.040	0.21		1	0.11	0.16	11/24/25 15:35	VL112425
108-88-3	Toluene	0.42	1.58	J	1	0.60	1.88	11/24/25 15:35	VL112425
127-18-4	Tetrachloroethene	0.16	1.08		1	0.14	0.20	11/24/25 15:35	VL112425
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/24/25 15:35	VL112425
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/24/25 15:35	VL112425
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/24/25 15:35	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 15:35	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 15:35	VL112425
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/24/25 15:35	VL112425
110-54-3	Hexane	0.51	1.80		1	0.56	1.76	11/24/25 15:35	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.70				65 - 135	97% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	106000							
540-36-3	1,4-Difluorobenzene	275000							
3114-55-4	Chlorobenzene-d5	211000							

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\VL112425\
 Data File : VL043283.D
 Acq On : 24 Nov 2025 15:35
 Operator : SY/MD
 Sample : Q3696-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:41:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	106409	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	274861	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	210706	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	150182	9.724	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8095	0.539	ppbv	96
3) Chlorodifluoromethane	1.476	51	4016m	0.272	ppbv	
4) Chloromethane	1.531	50	3099	0.552	ppbv #	82
9) Propene	1.486	41	6479	1.034	ppbv #	1
10) Heptane	4.975	43	2623m	0.141	ppbv	
11) Trichlorofluoromethane	1.878	101	3821	0.263	ppbv	88
13) Ethanol	1.719	45	42829	19.433	ppbv	99
15) Acetone	1.835	43	79460	5.375	ppbv	94
19) Isopropyl Alcohol	1.884	45	22670	2.714	ppbv #	32
20) Methylene Chloride	2.062	84	5919	0.623	ppbv #	90
26) Hexane	2.823	57	7099	0.508	ppbv #	44
29) Chloroform	2.845	83	2804	0.141	ppbv	98
34) 2-Butanone	2.557	43	15932	0.821	ppbv	96
35) Carbon Tetrachloride	3.755	117	1729m	0.083	ppbv	
36) Benzene	3.651	78	8923	0.339	ppbv	93
38) Trichloroethene	4.535	130	451m	0.044	ppbv	
41) Tetrahydrofuran	3.056	42	6044	0.564	ppbv	96
44) 2,2,4-Trimethylpentane	4.629	57	11320m	0.250	ppbv	
52) Tetrachloroethene	8.212	164	1588m	0.162	ppbv	
53) Toluene	6.923	91	13011m	0.417	ppbv	
59) m/p-Xylene	9.526	91	6433m	0.198	ppbv	

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

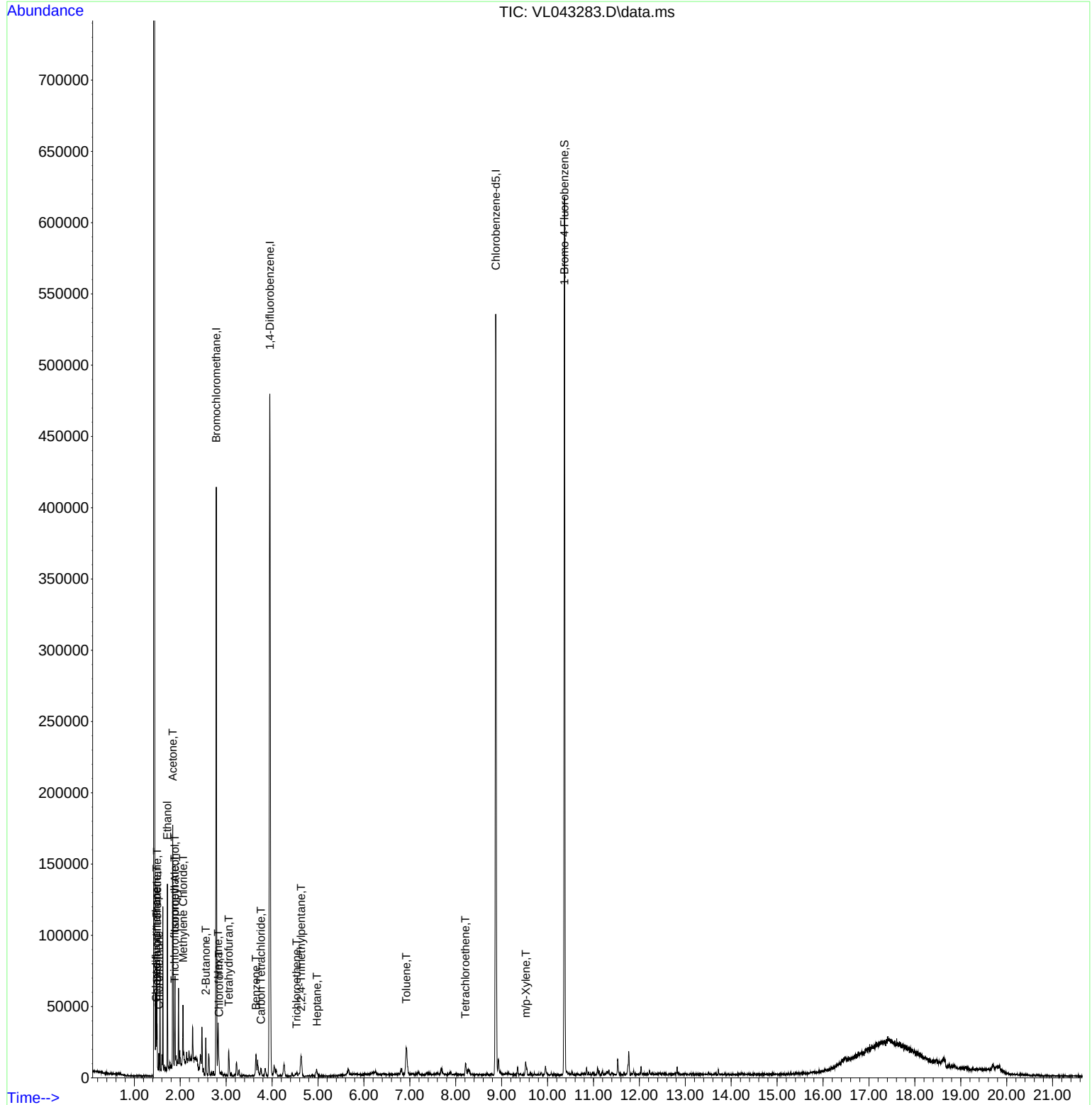
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043283.D
Acq On : 24 Nov 2025 15:35
Operator : SY/MD
Sample : Q3696-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

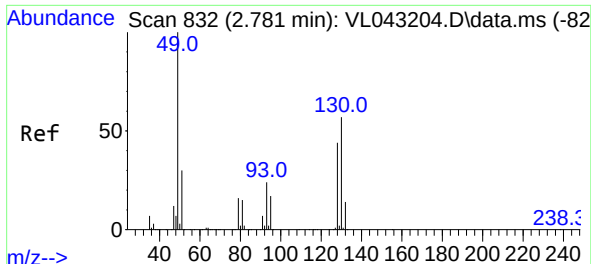
Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:41:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





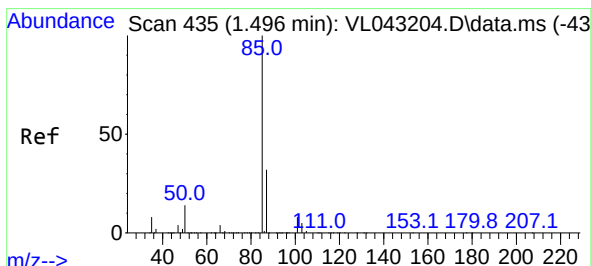
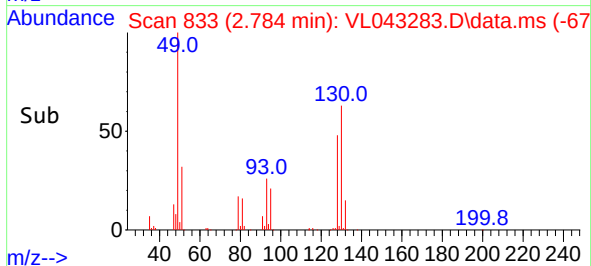
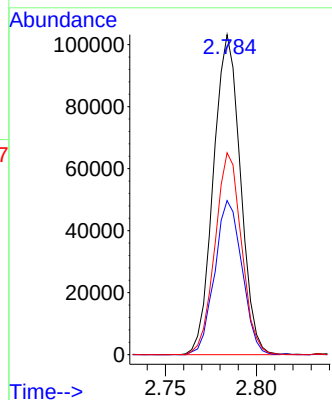
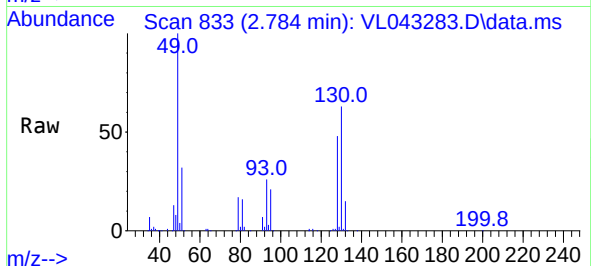
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 106409
Ion Ratio Lower Upper
49 100
128 48.8 23.0 69.0
130 62.0 29.9 89.7

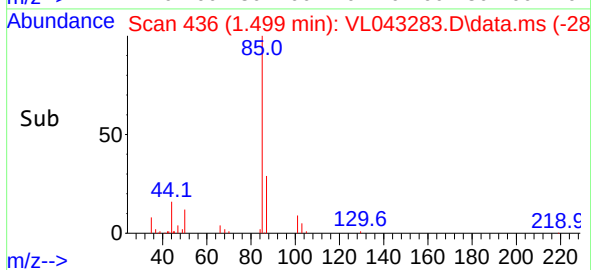
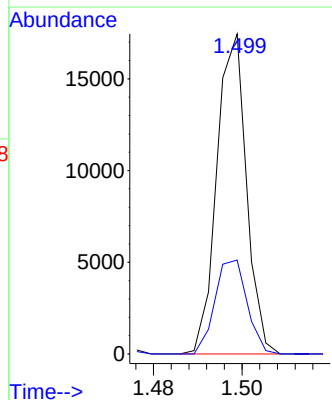
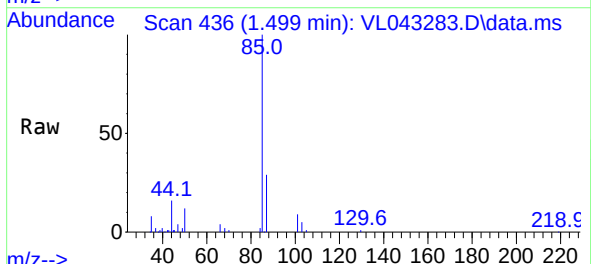
Manual Integrations
APPROVED

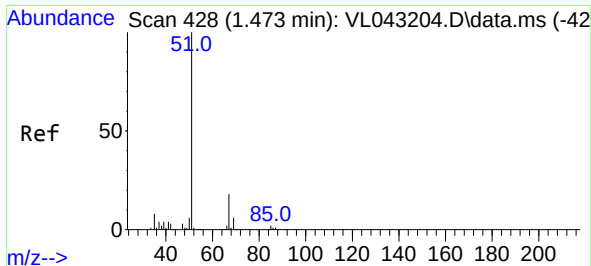
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.539 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Tgt Ion: 85 Resp: 8095
Ion Ratio Lower Upper
85 100
87 29.3 25.4 38.2





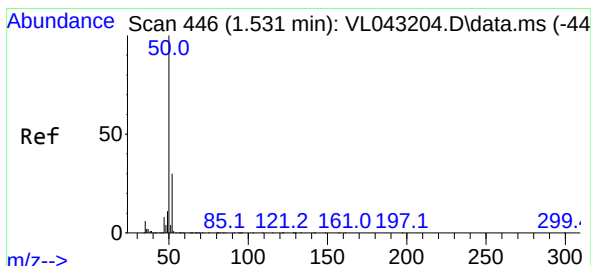
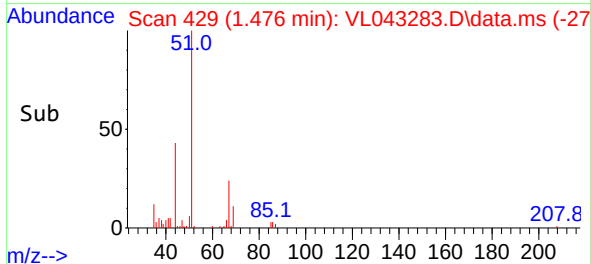
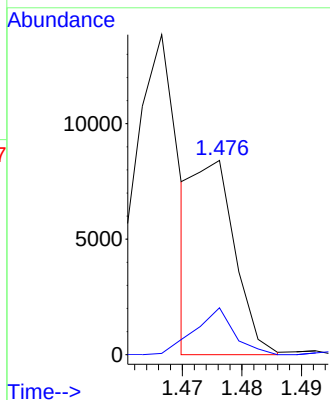
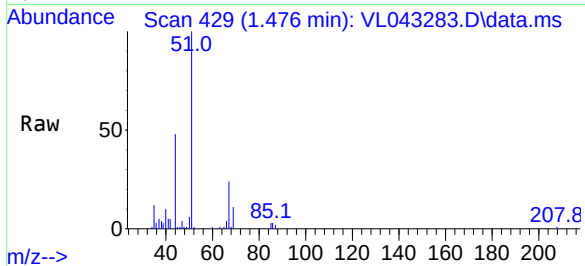
#3
Chlorodifluoromethane
Concen: 0.272 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 4010
Ion Ratio Lower Upper
51 100
67 4.1 14.9 22.3

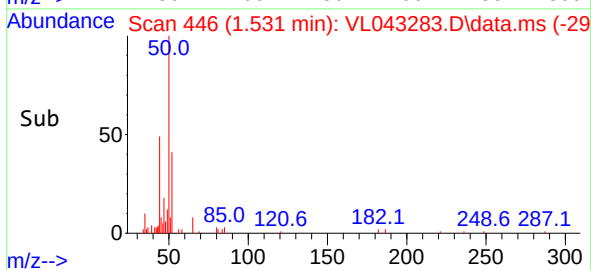
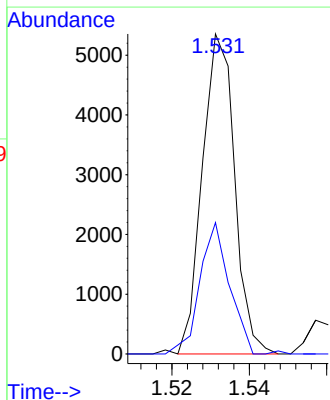
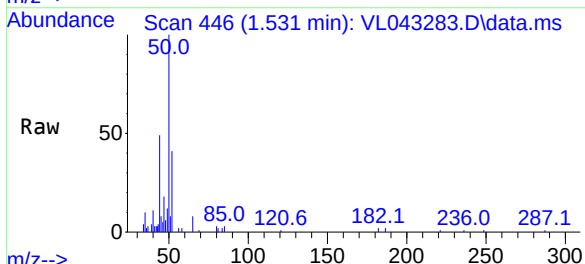
Manual Integrations
APPROVED

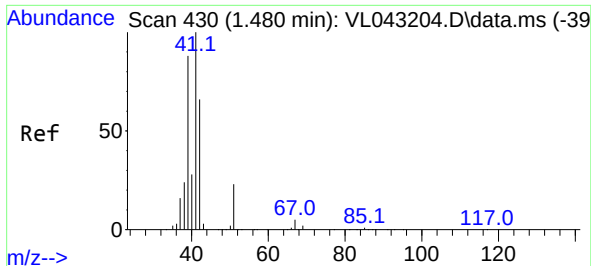
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#4
Chloromethane
Concen: 0.552 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Tgt Ion: 50 Resp: 3099
Ion Ratio Lower Upper
50 100
52 40.1 24.1 36.1





#9

Propene

Concen: 1.034 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043283.D

Acq: 24 Nov 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 41 Resp: 6479

Ion Ratio Lower Upper

41 100

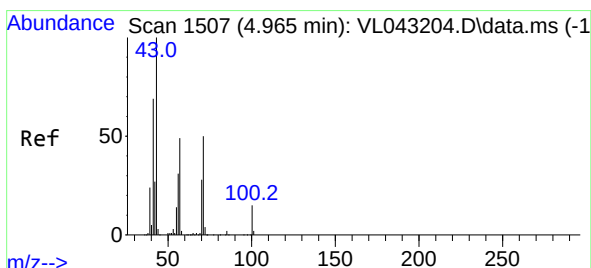
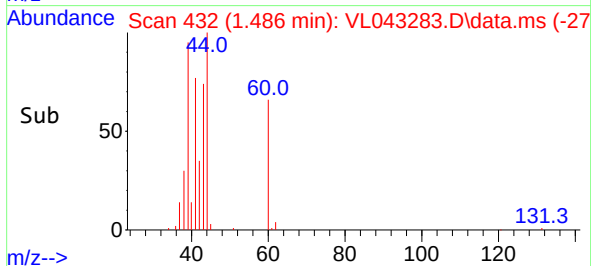
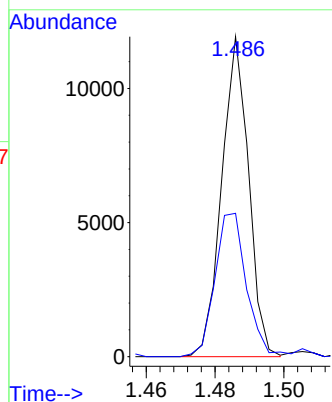
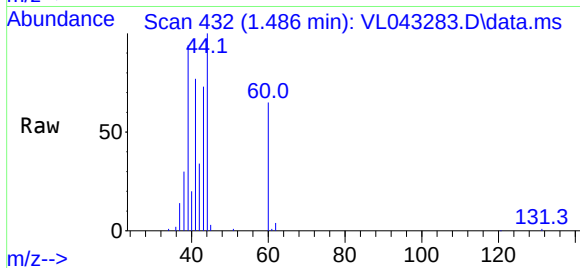
42 58.6 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#10

Heptane

Concen: 0.141 ppbv m

RT: 4.975 min Scan# 1510

Delta R.T. 0.010 min

Lab File: VL043283.D

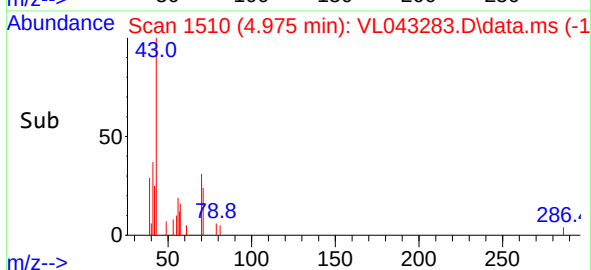
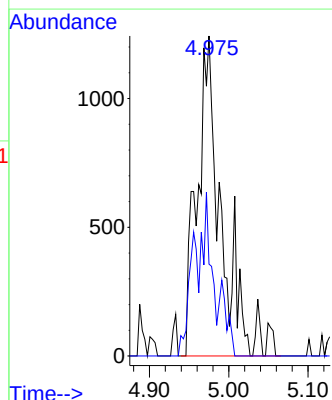
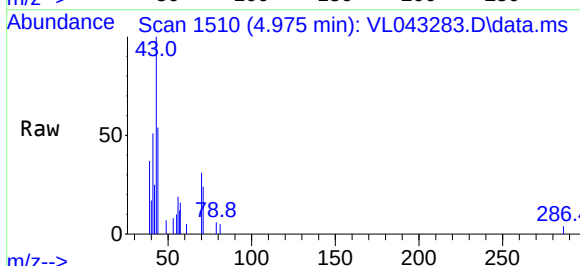
Acq: 24 Nov 2025 15:35

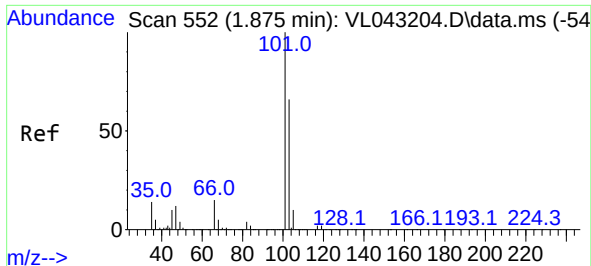
Tgt Ion: 43 Resp: 2623

Ion Ratio Lower Upper

43 100

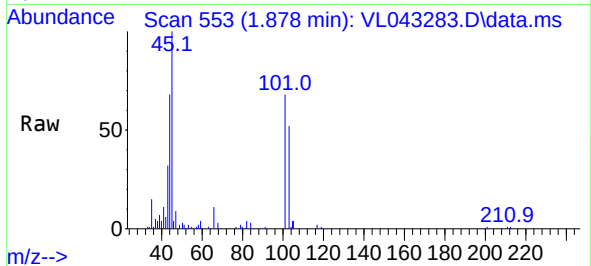
57 42.1 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.263 ppbv
RT: 1.878 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

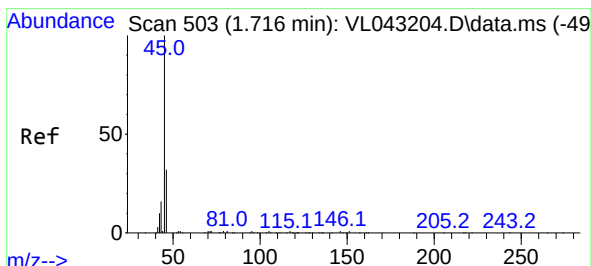
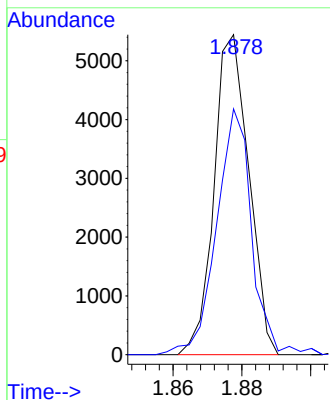
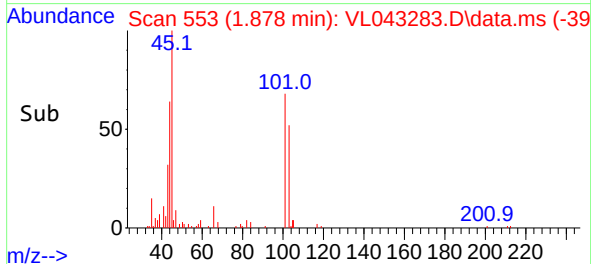
Instrument :
MSVOA_L
ClientSampleId :
IA2



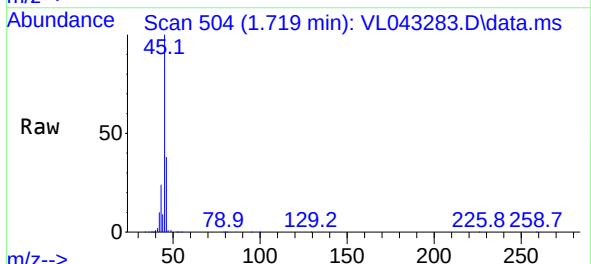
Tgt Ion:101 Resp: 382
Ion Ratio Lower Upper
101 100
103 75.7 52.6 79.0

Manual Integrations
APPROVED

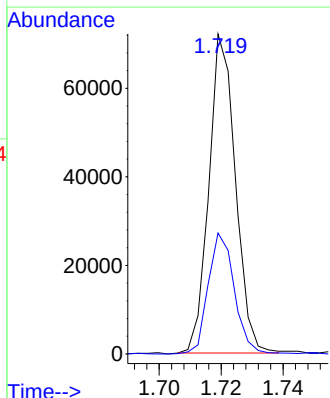
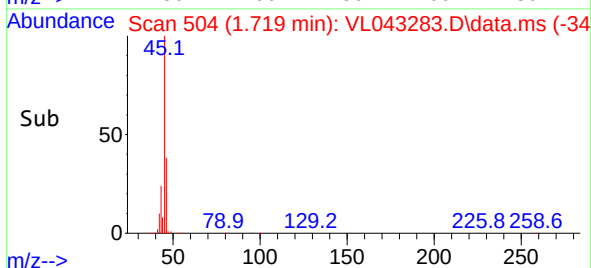
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

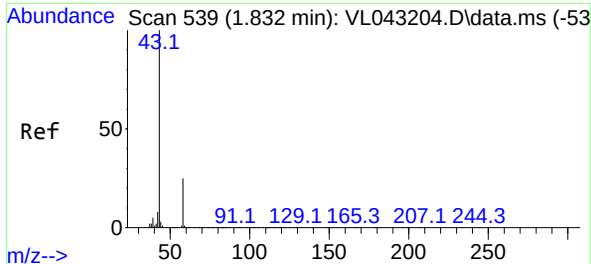


#13
Ethanol
Concen: 19.433 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35



Tgt Ion: 45 Resp: 42829
Ion Ratio Lower Upper
45 100
46 37.9 15.0 59.8





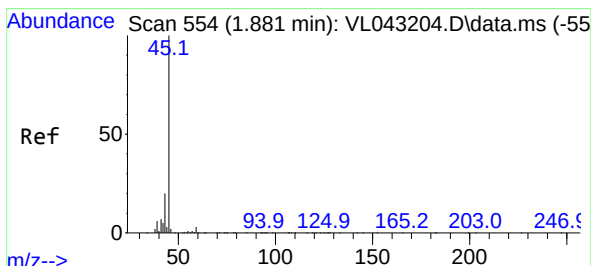
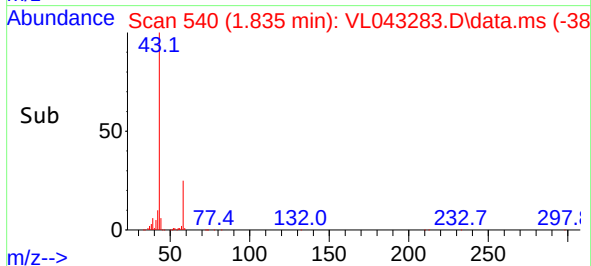
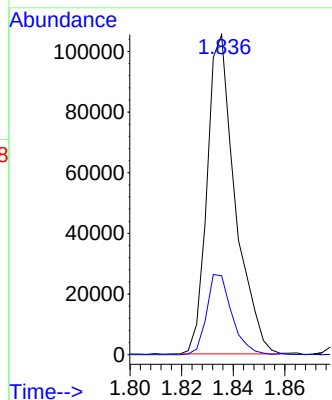
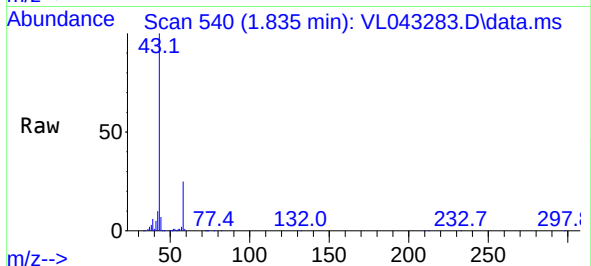
#15
Acetone
Concen: 5.375 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 79460
Ion Ratio Lower Upper
43 100
58 23.1 20.7 31.1

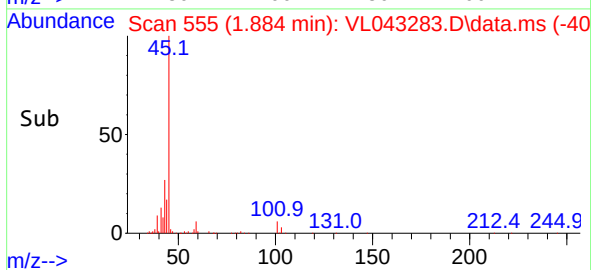
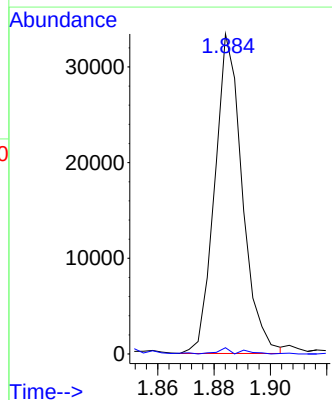
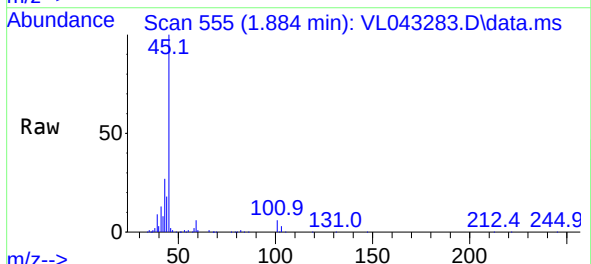
Manual Integrations
APPROVED

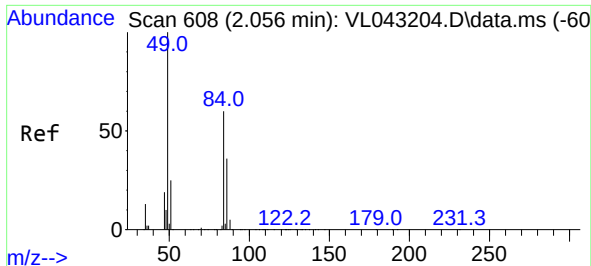
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#19
Isopropyl Alcohol
Concen: 2.714 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

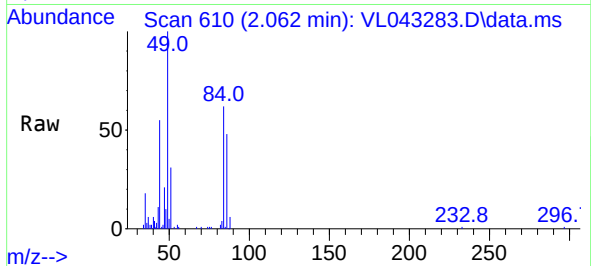
Tgt Ion: 45 Resp: 22670
Ion Ratio Lower Upper
45 100
58 80.8 31.3 46.9#





#20
Methylene Chloride
Concen: 0.623 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

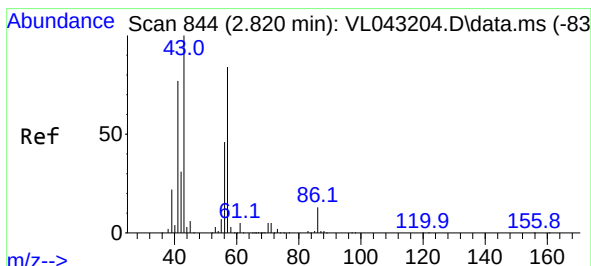
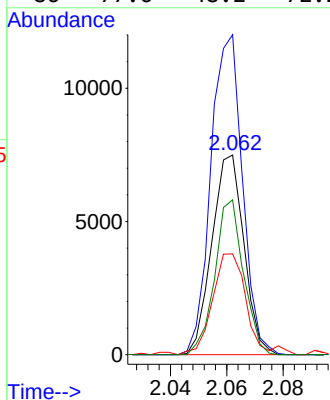
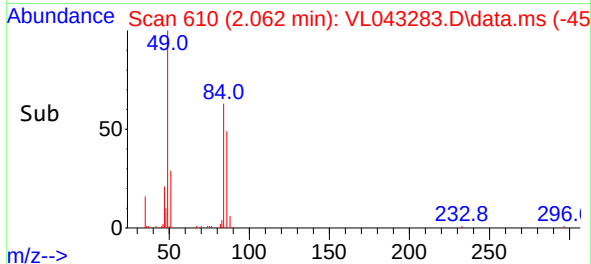
Instrument :
MSVOA_L
ClientSampleId :
IA2



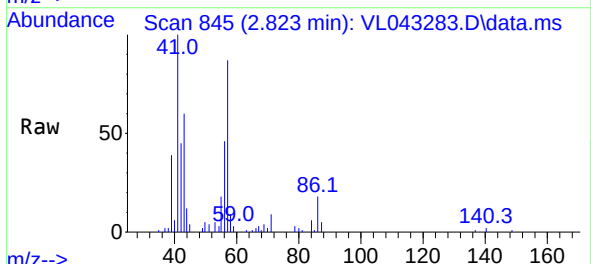
Tgt Ion: 84 Resp: 5919
Ion Ratio Lower Upper
84 100
49 160.2 132.9 199.3
51 50.5 34.8 52.2
86 77.6 48.2 72.2#

Manual Integrations
APPROVED

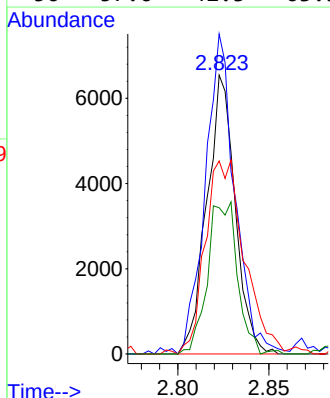
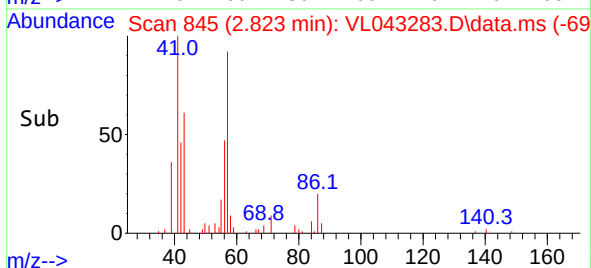
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

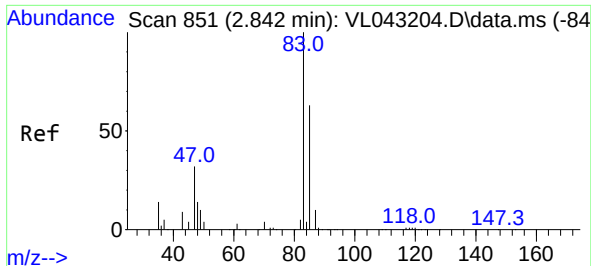


#26
Hexane
Concen: 0.508 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35



Tgt Ion: 57 Resp: 7099
Ion Ratio Lower Upper
57 100
41 124.5 74.6 111.8#
43 97.0 179.0 268.4#
56 57.6 42.3 63.5





#29

Chloroform

Concen: 0.141 ppbv

RT: 2.845 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL043283.D

Acq: 24 Nov 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 83 Resp: 2804

Ion Ratio Lower Upper

83 100

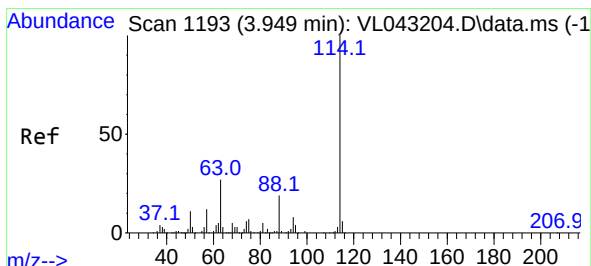
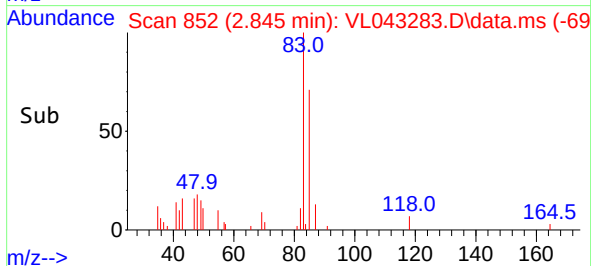
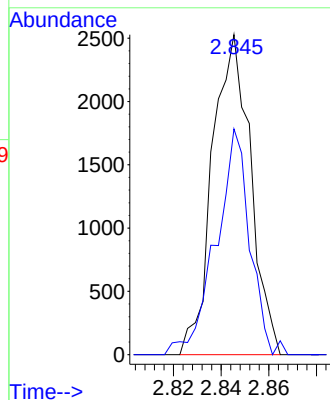
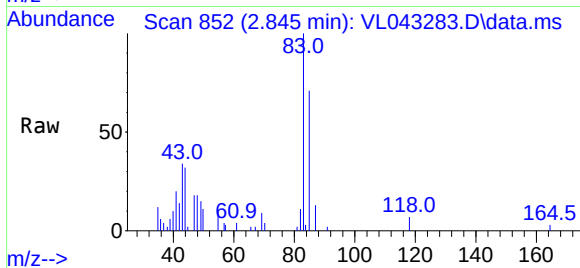
85 64.4 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL043283.D

Acq: 24 Nov 2025 15:35

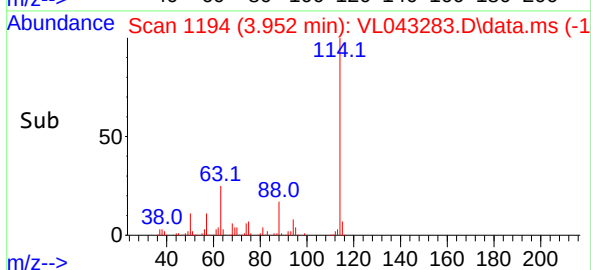
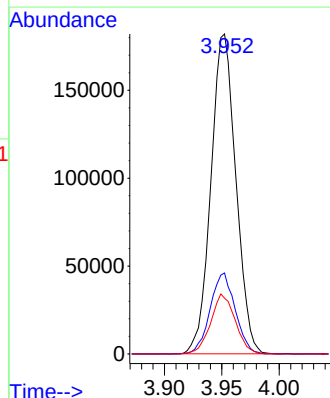
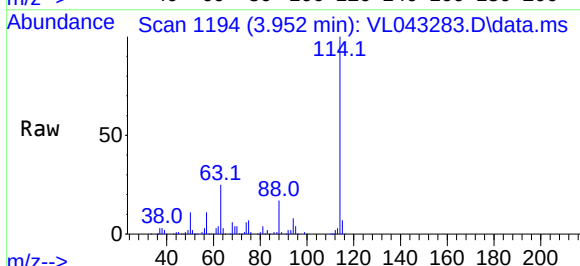
Tgt Ion:114 Resp: 274861

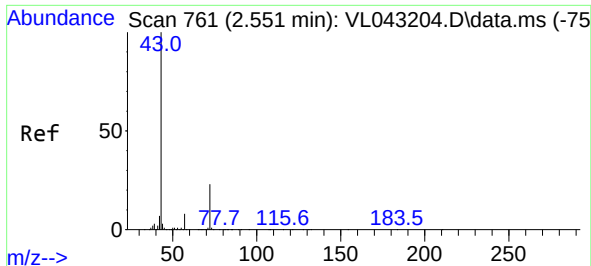
Ion Ratio Lower Upper

114 100

63 25.5 21.0 31.6

88 18.5 14.9 22.3





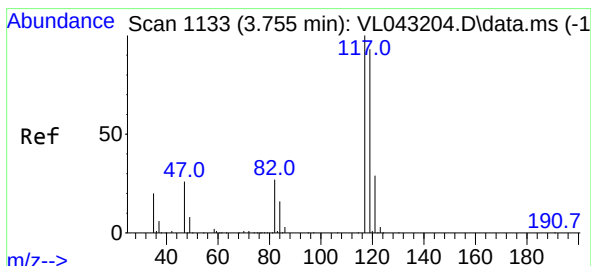
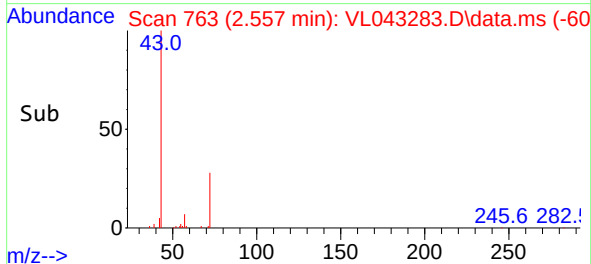
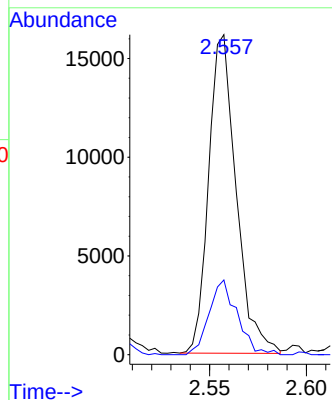
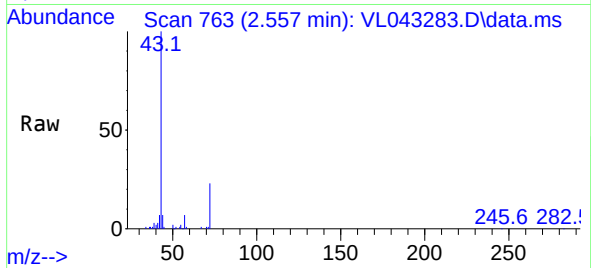
#34
2-Butanone
Concen: 0.821 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 1593
Ion Ratio Lower Upper
43 100
72 24.3 18.1 27.1

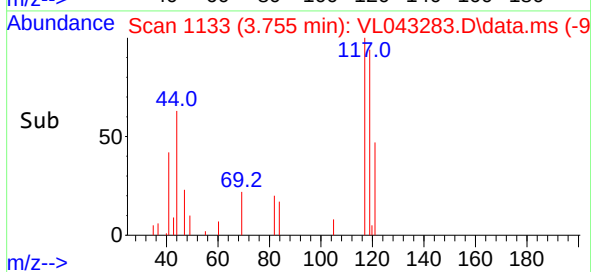
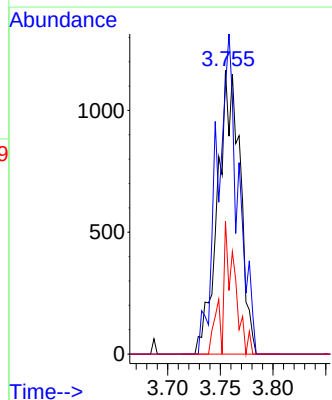
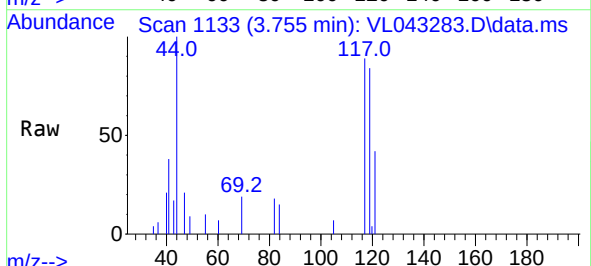
Manual Integrations
APPROVED

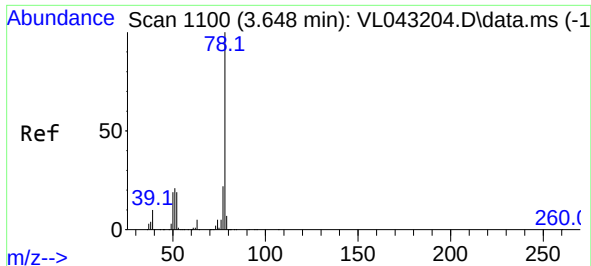
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

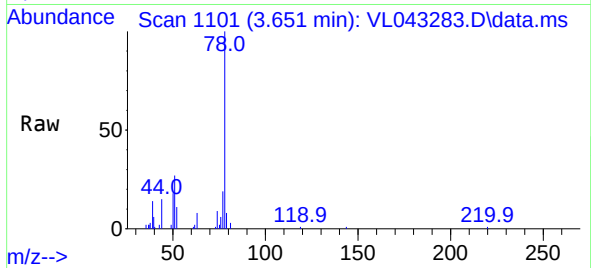
Tgt Ion:117 Resp: 1729
Ion Ratio Lower Upper
117 100
119 94.3 74.6 112.0
121 46.9 23.2 34.8#





#36
Benzene
Concen: 0.339 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

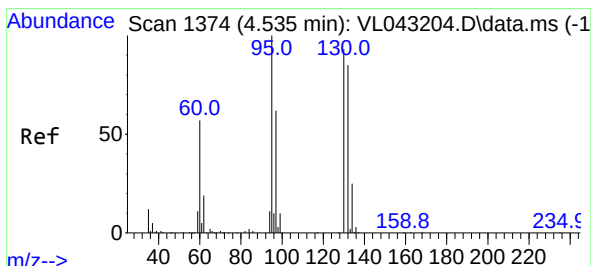
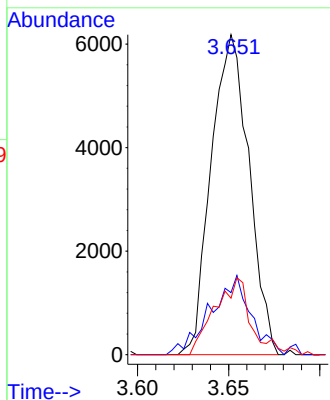
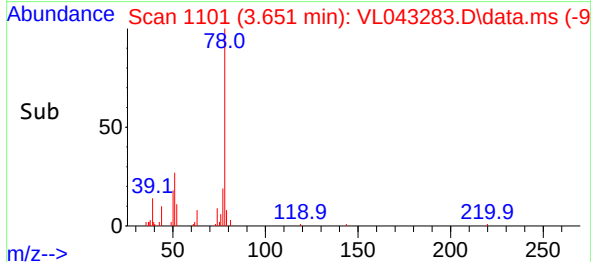
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 78 Resp: 892
Ion Ratio Lower Upper
78 100
77 17.5 17.5 26.3
50 17.6 15.5 23.3

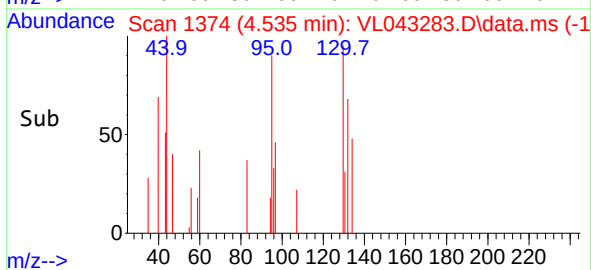
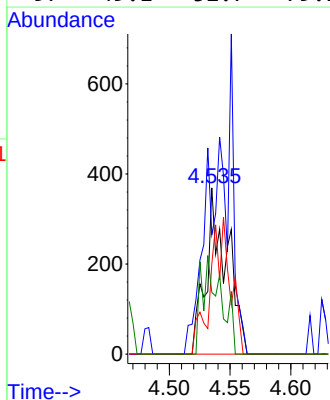
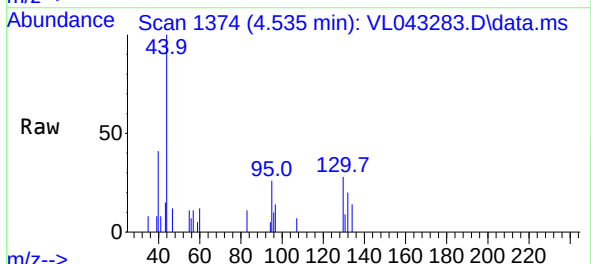
Manual Integrations
APPROVED

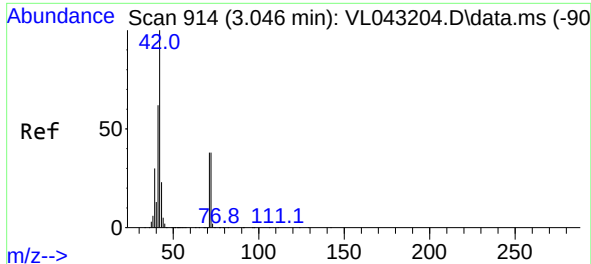
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 4.535 min Scan# 1374
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

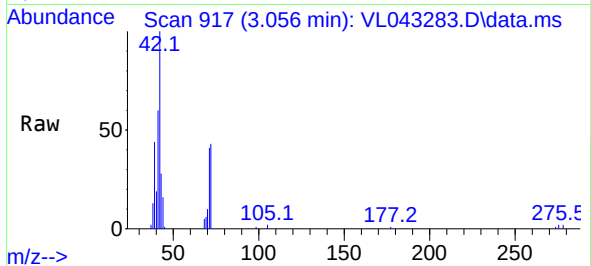
Tgt Ion:130 Resp: 451
Ion Ratio Lower Upper
130 100
95 95.0 85.7 128.5
132 71.7 73.4 110.0#
97 49.1 52.7 79.1#





#41
Tetrahydrofuran
Concen: 0.564 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

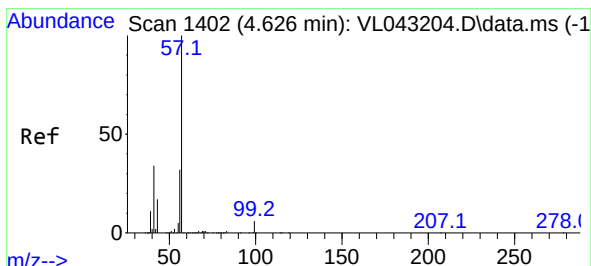
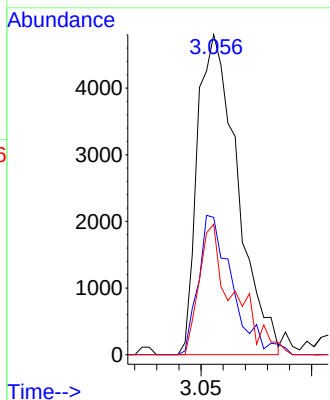
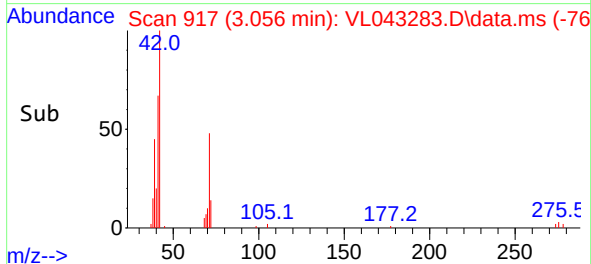
Instrument :
MSVOA_L
ClientSampleId :
IA2



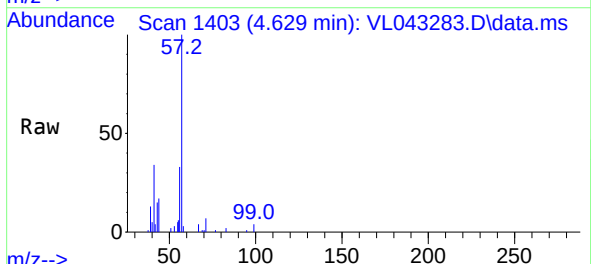
Tgt Ion: 42 Resp: 6044
Ion Ratio Lower Upper
42 100
72 37.0 30.6 46.0
71 35.0 30.5 45.7

Manual Integrations
APPROVED

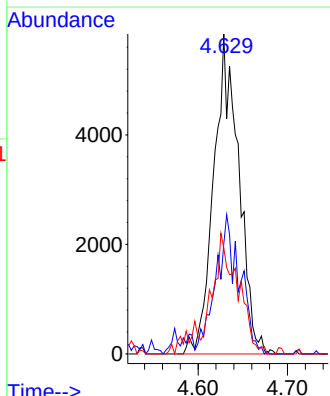
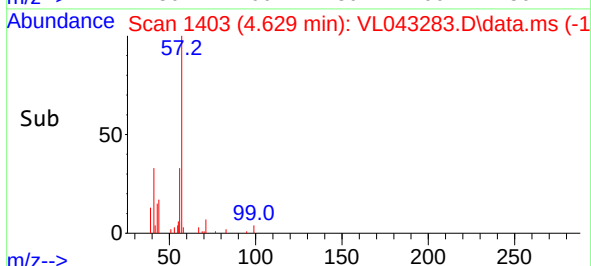
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

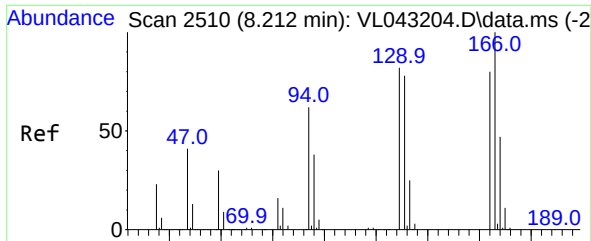


#44
2,2,4-Trimethylpentane
Concen: 0.250 ppbv m
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35



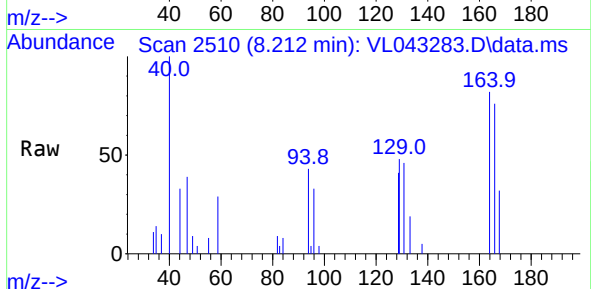
Tgt Ion: 57 Resp: 11320
Ion Ratio Lower Upper
57 100
41 0.0 28.0 42.0#
56 42.2 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.162 ppbv m
RT: 8.212 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

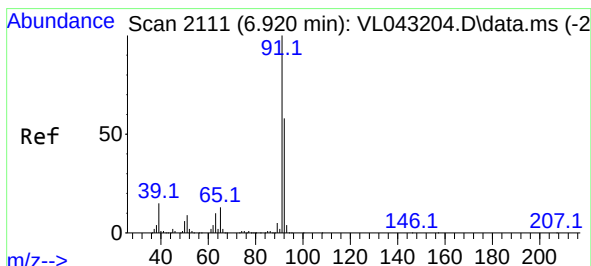
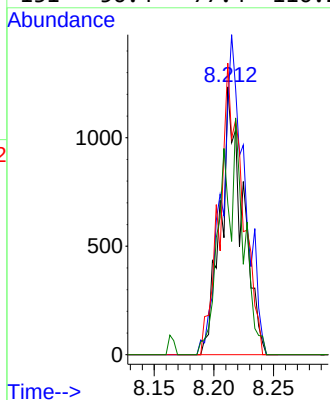
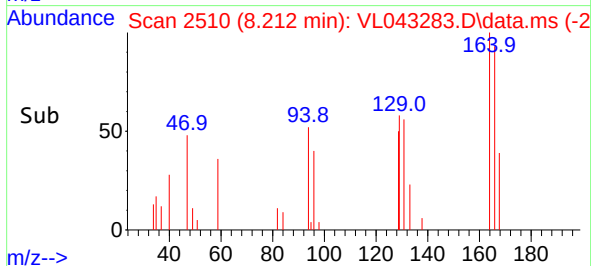
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 1588
Ion Ratio Lower Upper
164 100
166 92.9 99.4 149.2
129 58.4 81.8 122.8
131 56.4 77.4 116.2#

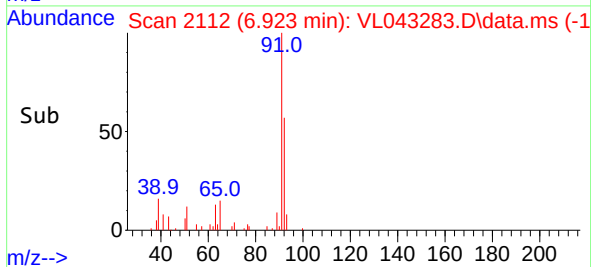
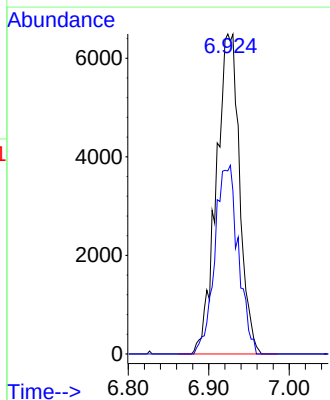
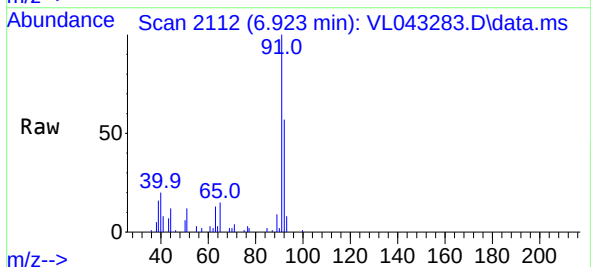
Manual Integrations
APPROVED

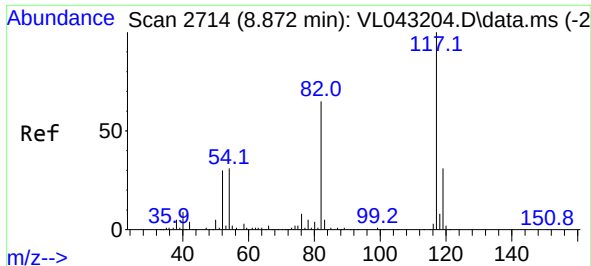
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#53
Toluene
Concen: 0.417 ppbv m
RT: 6.923 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

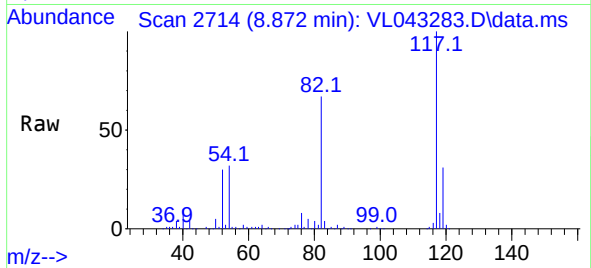
Tgt Ion: 91 Resp: 13011
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 210700
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

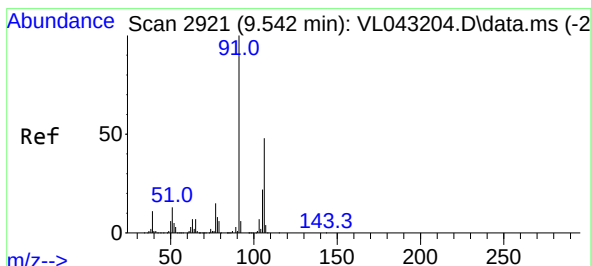
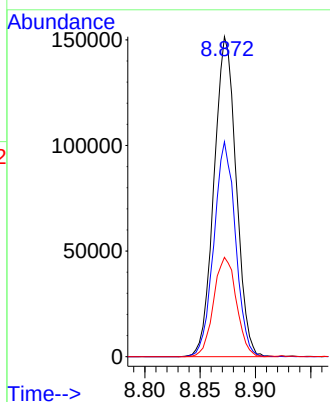
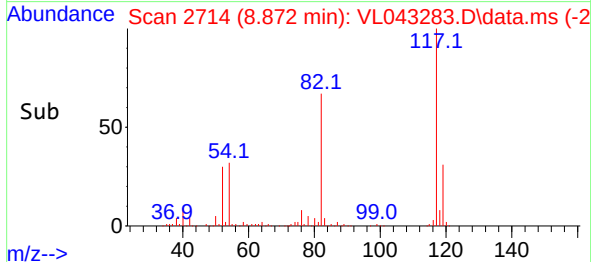
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:117 Resp: 210700
Ion Ratio Lower Upper
117 100
82 65.5 56.1 84.1
119 32.1 25.0 37.6

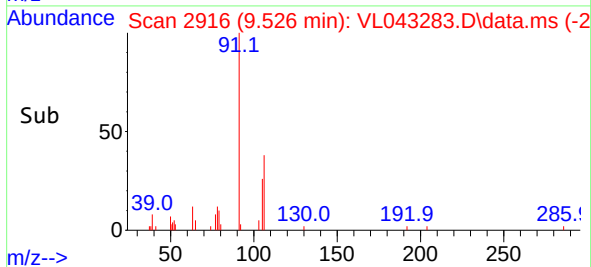
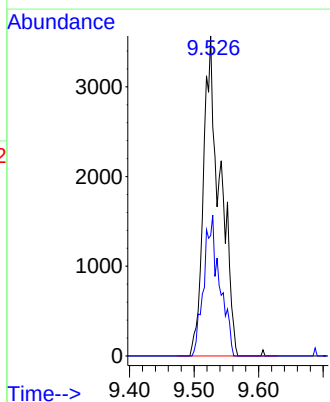
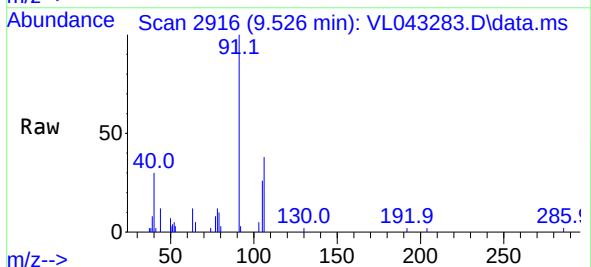
Manual Integrations
APPROVED

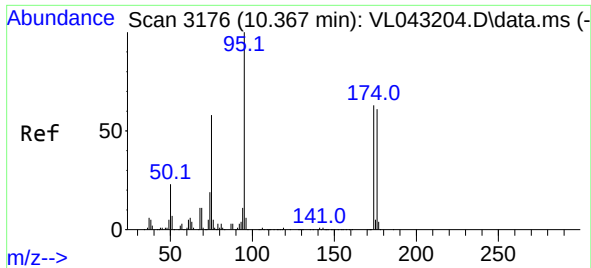
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#59
m/p-Xylene
Concen: 0.198 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Tgt Ion: 91 Resp: 6433
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





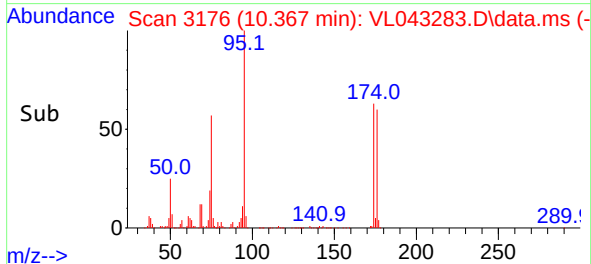
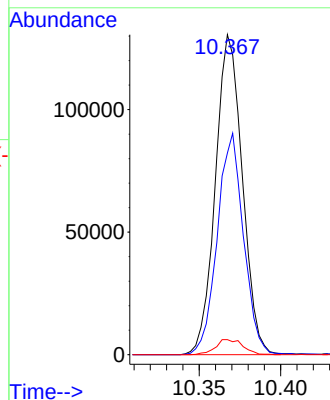
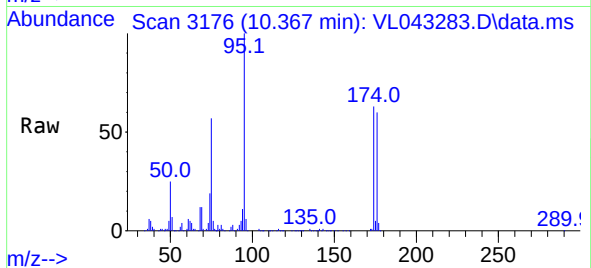
#68
1-Bromo-4-Fluorobenzene
Concen: 9.724 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 95 Resp: 150182
Ion Ratio Lower Upper
95 100
174 67.9 50.2 75.2
175 4.8 4.1 6.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: SV3
Lab Sample ID: Q3696-05
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/19/25
Date Received: 11/20/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/24/25 18:20	VL112425
142-82-5	Heptane	0.68	2.79	U	4	2.79	8.20	11/24/25 18:20	VL112425
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/24/25 18:20	VL112425
110-82-7	Cyclohexane	0.88	3.03	U	4	3.03	6.88	11/24/25 18:20	VL112425
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/24/25 18:20	VL112425
71-55-6	1,1,1-Trichloroethane	0.060	0.33	U	4	0.33	0.65	11/24/25 18:20	VL112425
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	U	4	2.62	9.34	11/24/25 18:20	VL112425
71-43-2	Benzene	0.81	2.59	J	4	1.02	6.39	11/24/25 18:20	VL112425
79-01-6	Trichloroethene	14.7	79.0		4	0.54	0.64	11/24/25 18:20	VL112425
108-88-3	Toluene	1.20	4.52	J	4	2.41	7.54	11/24/25 18:20	VL112425
127-18-4	Tetrachloroethene	34.1	231		4	0.41	0.81	11/24/25 18:20	VL112425
100-41-4	Ethyl Benzene	0.76	3.30	U	4	3.30	8.69	11/24/25 18:20	VL112425
179601-23-1	m/p-Xylene	1.60	6.95	U	4	6.95	17.4	11/24/25 18:20	VL112425
95-47-6	o-Xylene	0.84	3.65	U	4	3.65	8.69	11/24/25 18:20	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/24/25 18:20	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/24/25 18:20	VL112425
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/24/25 18:20	VL112425
110-54-3	Hexane	1.40	4.93	J	4	2.26	7.05	11/24/25 18:20	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.80				65 - 135	98% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	116000							
540-36-3	1,4-Difluorobenzene	303000							
3114-55-4	Chlorobenzene-d5	230000							

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\VL112425\
 Data File : VL043288.D
 Acq On : 24 Nov 2025 18:20
 Operator : SY/MD
 Sample : Q3696-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:43:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	115982	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	303381	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	230111	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	165856	9.833	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	2423	0.148	ppbv	93
9) Propene	1.482	41	7825	1.145	ppbv #	1
11) Trichlorofluoromethane	1.871	101	19755m	1.246	ppbv	
13) Ethanol	1.722	45	4902	2.041	ppbv #	38
15) Acetone	1.839	43	40278	2.500	ppbv	100
20) Methylene Chloride	2.065	84	7516	0.866	ppbv	91
26) Hexane	2.829	57	5267m	0.346	ppbv	
29) Chloroform	2.852	83	533459	24.632	ppbv	99
34) 2-Butanone	2.560	43	3858	0.180	ppbv #	88
36) Benzene	3.654	78	5877	0.202	ppbv #	87
38) Trichloroethene	4.541	130	41684	3.667	ppbv	96
42) Bromodichloromethane	4.486	83	8283	0.353	ppbv #	92
52) Tetrachloroethene	8.215	164	92160	8.527	ppbv	98
53) Toluene	6.923	91	10148m	0.295	ppbv	
59) m/p-Xylene	9.522	91	8100m	0.228	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	5843	0.148	ppbv #	45

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

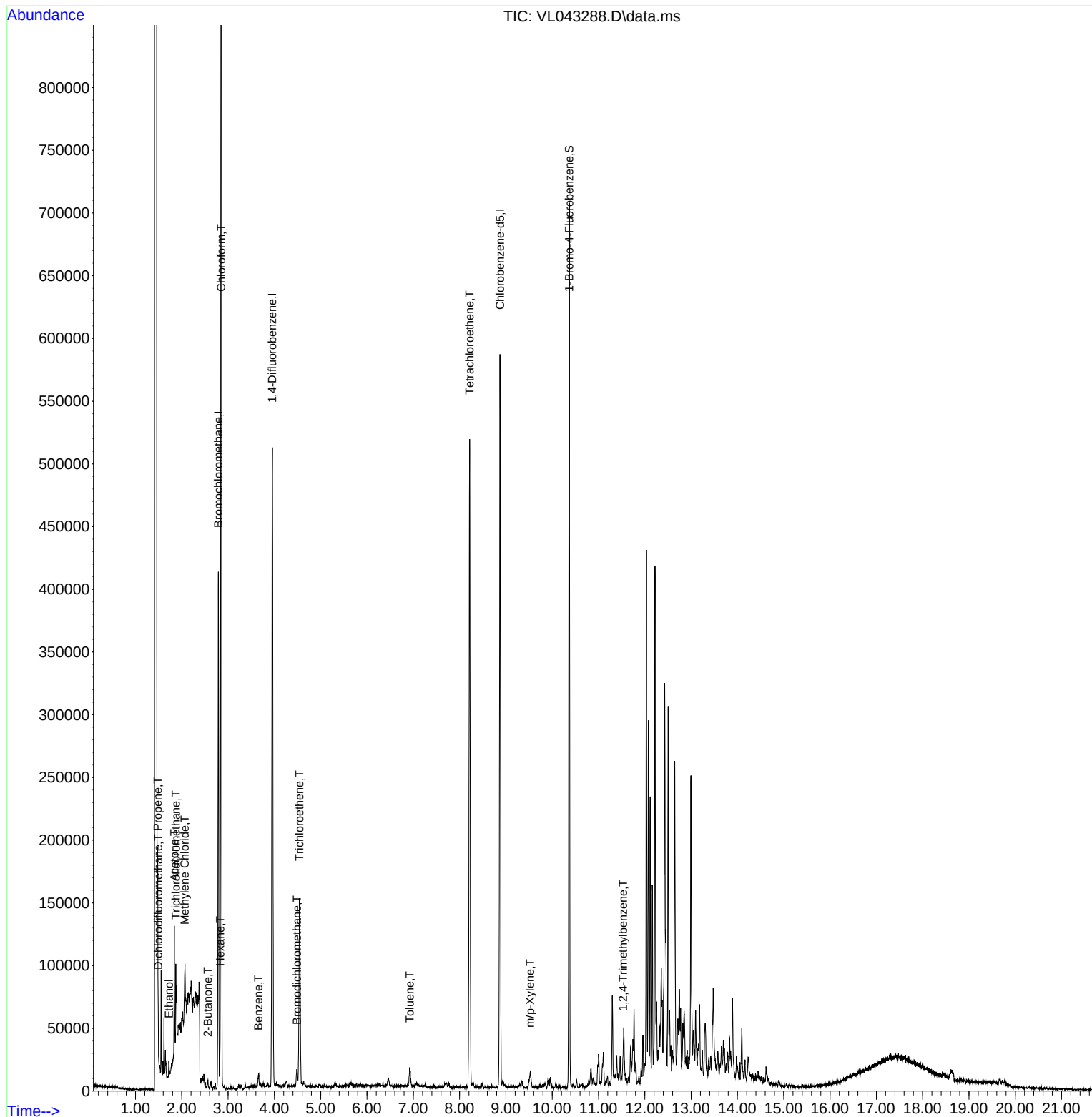
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043288.D
Acq On : 24 Nov 2025 18:20
Operator : SY/MD
Sample : Q3696-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

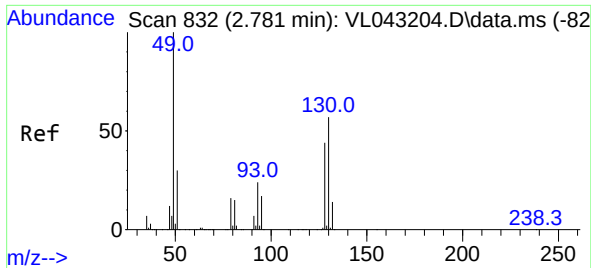
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Nov 24 23:43:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2025
Supervised By : Mahesh Dadoda 11/25/2025





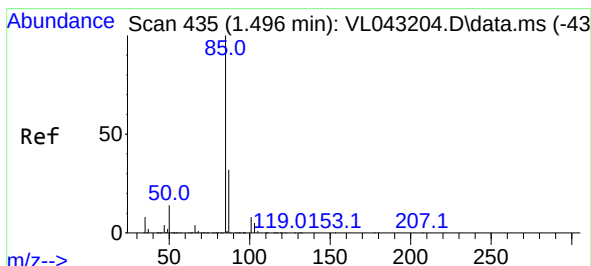
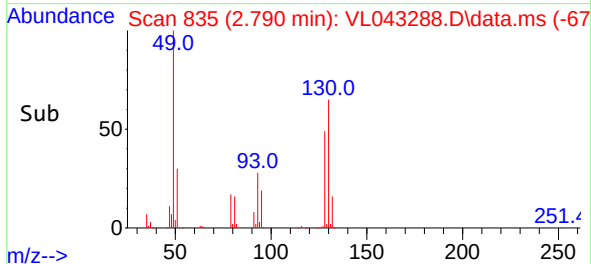
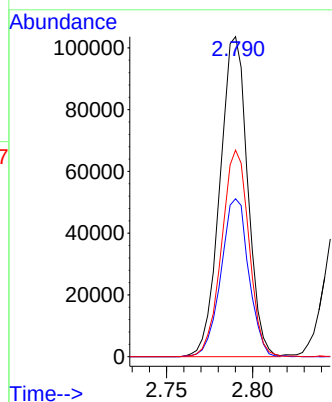
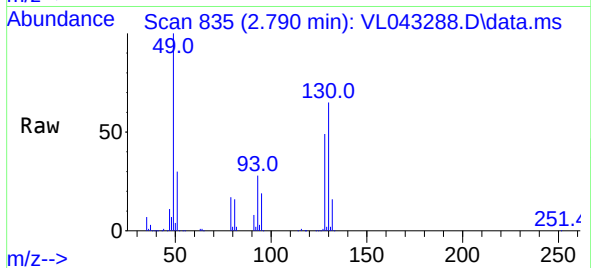
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 49 Resp: 11598
Ion Ratio Lower Upper
49 100
128 49.5 23.0 69.0
130 63.8 29.9 89.7

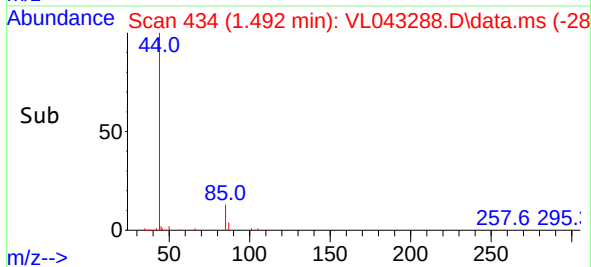
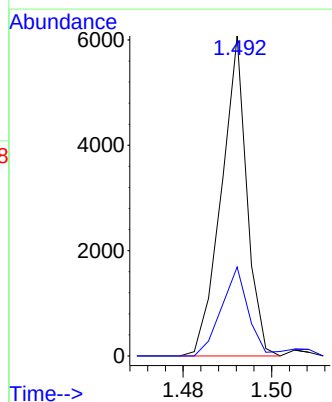
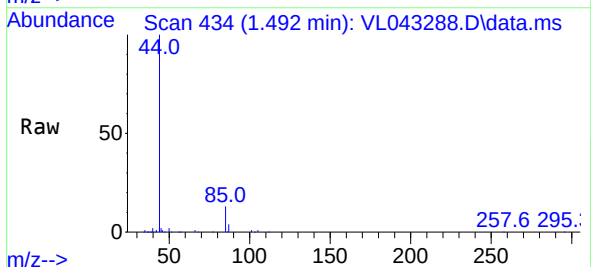
Manual Integrations
APPROVED

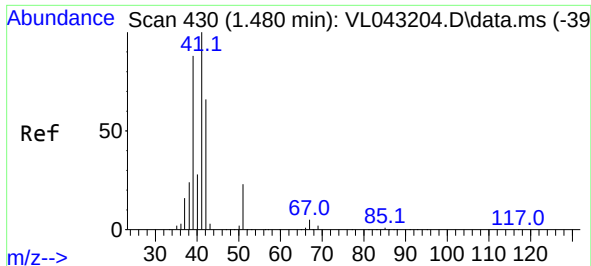
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.148 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.004 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

Tgt Ion: 85 Resp: 2423
Ion Ratio Lower Upper
85 100
87 27.8 25.4 38.2





#9

Propene

Concen: 1.145 ppbv

RT: 1.482 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043288.D

Acq: 24 Nov 2025 18:20

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 41 Resp: 782

Ion Ratio Lower Upper

41 100

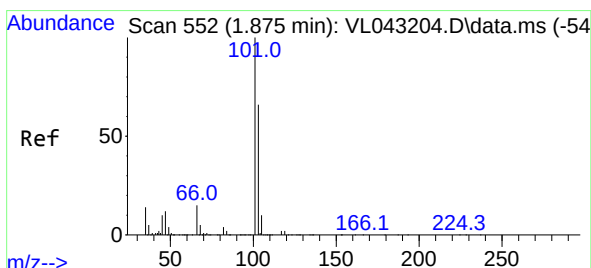
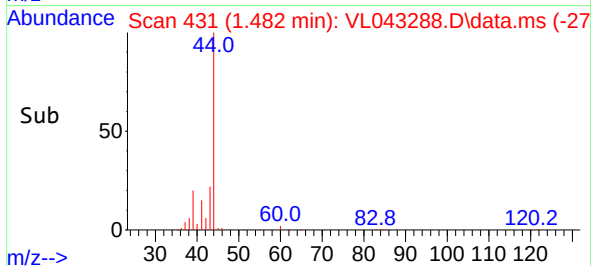
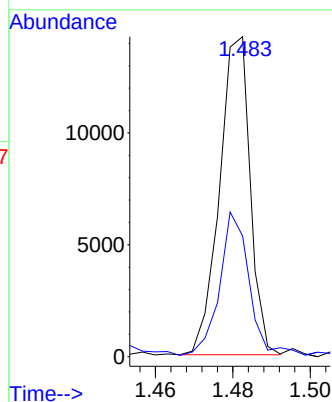
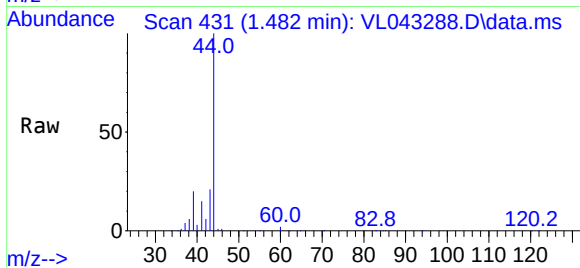
42 47.8 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#11

Trichlorofluoromethane

Concen: 1.246 ppbv m

RT: 1.871 min Scan# 551

Delta R.T. -0.004 min

Lab File: VL043288.D

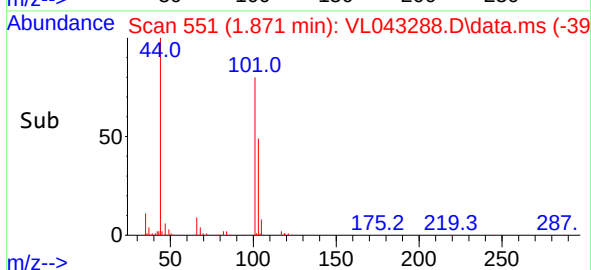
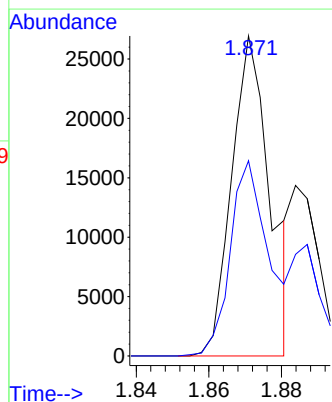
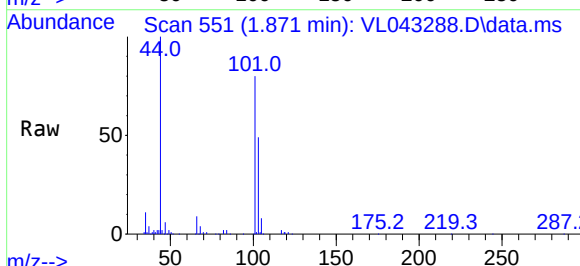
Acq: 24 Nov 2025 18:20

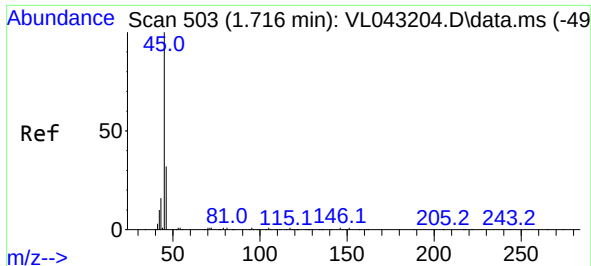
Tgt Ion:101 Resp: 19755

Ion Ratio Lower Upper

101 100

103 61.0 52.6 79.0





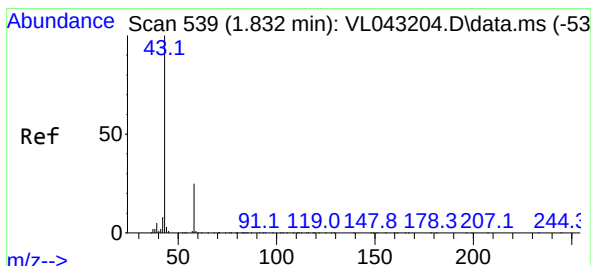
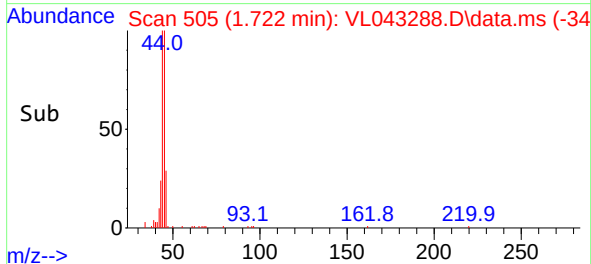
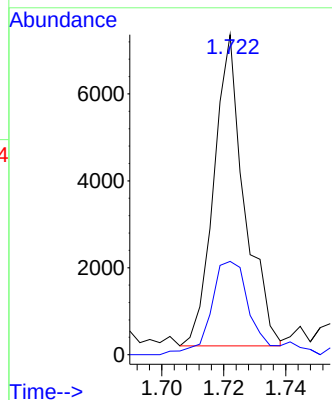
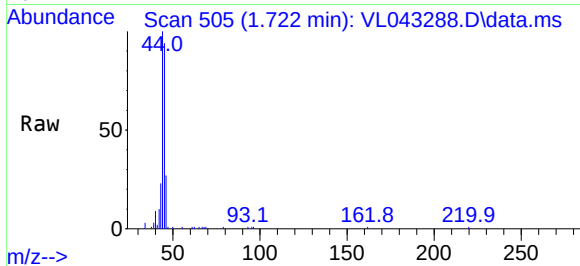
#13
Ethanol
Concen: 2.041 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 45 Resp: 4902
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

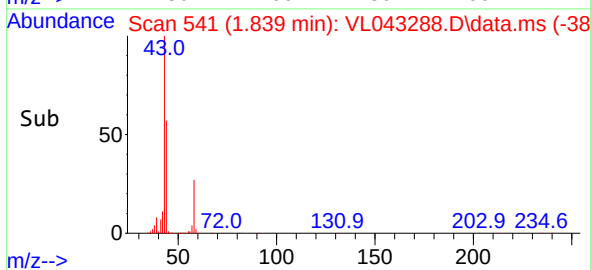
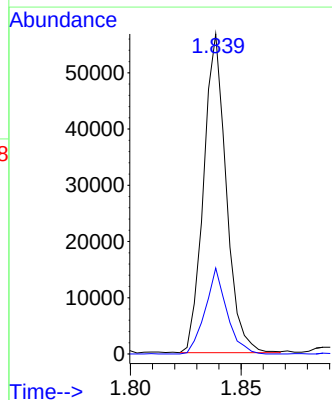
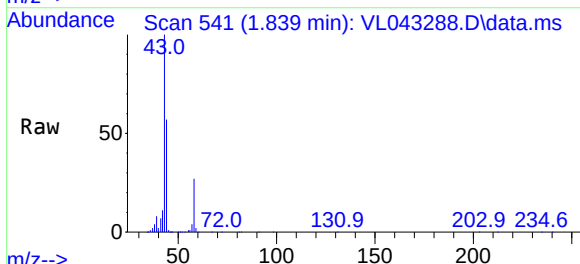
Manual Integrations
APPROVED

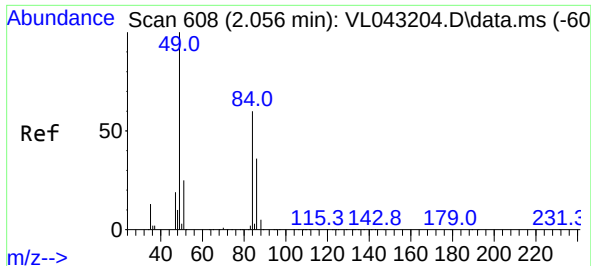
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#15
Acetone
Concen: 2.500 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

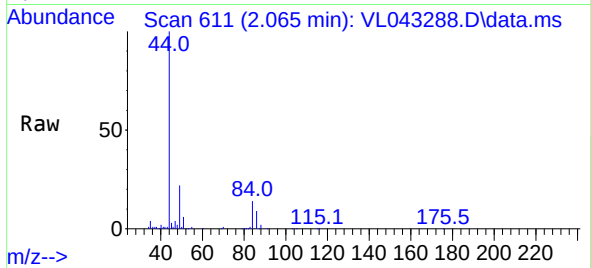
Tgt Ion: 43 Resp: 40278
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1





#20
Methylene Chloride
Concen: 0.866 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.009 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

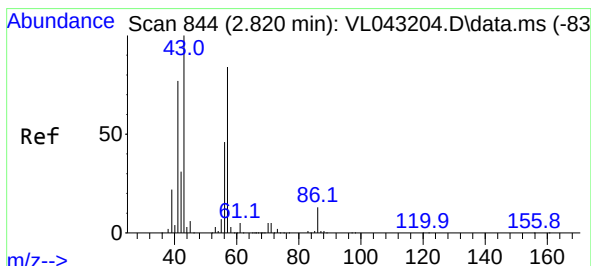
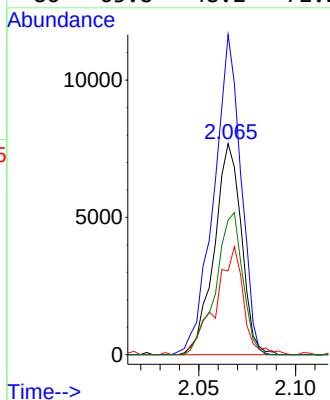
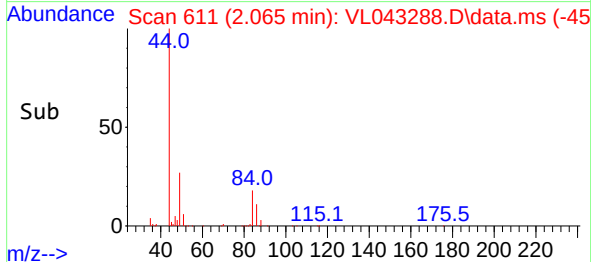
Instrument :
MSVOA_L
ClientSampleId :
SV3



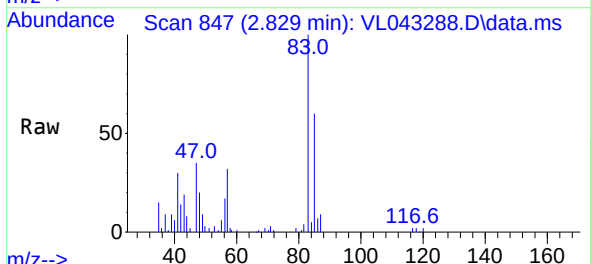
Tgt Ion: 84 Resp: 7510
Ion Ratio Lower Upper
84 100
49 151.6 132.9 199.3
51 39.7 34.8 52.2
86 63.8 48.2 72.2

Manual Integrations
APPROVED

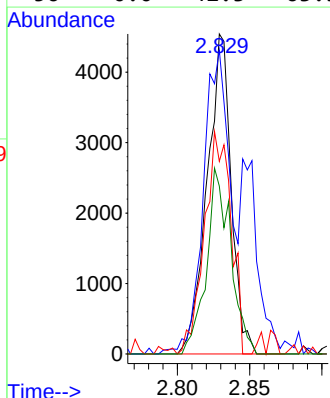
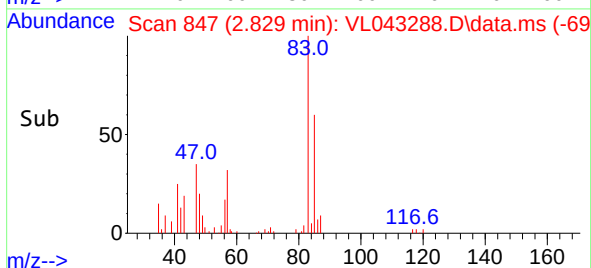
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

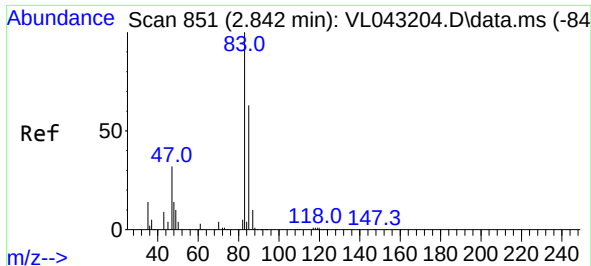


#26
Hexane
Concen: 0.346 ppbv m
RT: 2.829 min Scan# 847
Delta R.T. 0.009 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20



Tgt Ion: 57 Resp: 5267
Ion Ratio Lower Upper
57 100
41 0.0 74.6 111.8#
43 0.0 179.0 268.4#
56 0.0 42.3 63.5#





#29

Chloroform

Concen: 24.632 ppbv

RT: 2.852 min Scan# 851

Delta R.T. 0.009 min

Lab File: VL043288.D

Acq: 24 Nov 2025 18:20

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 83 Resp: 53345

Ion Ratio Lower Upper

83 100

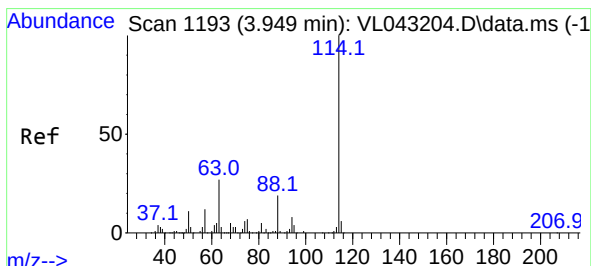
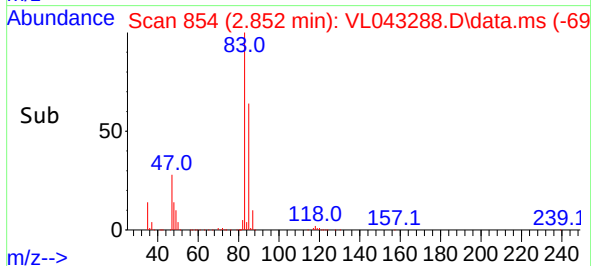
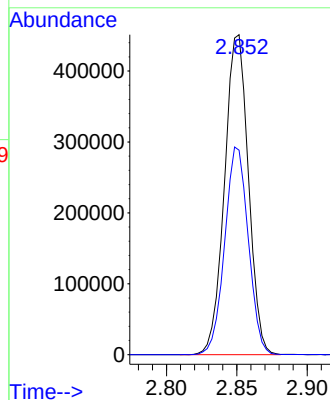
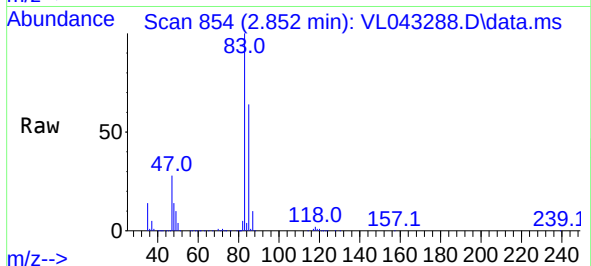
85 63.9 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043288.D

Acq: 24 Nov 2025 18:20

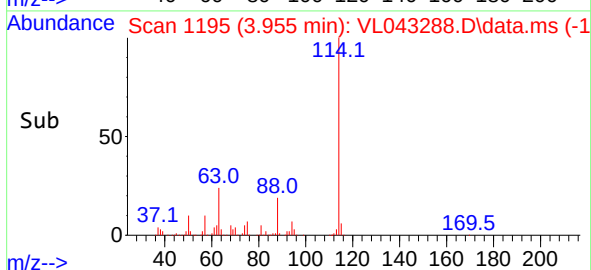
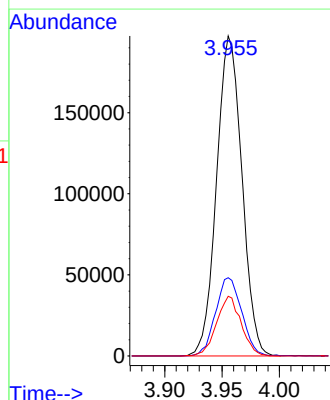
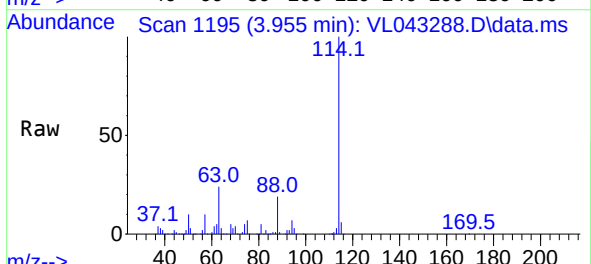
Tgt Ion:114 Resp: 303381

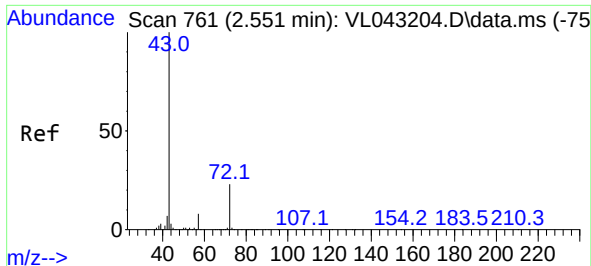
Ion Ratio Lower Upper

114 100

63 25.3 21.0 31.6

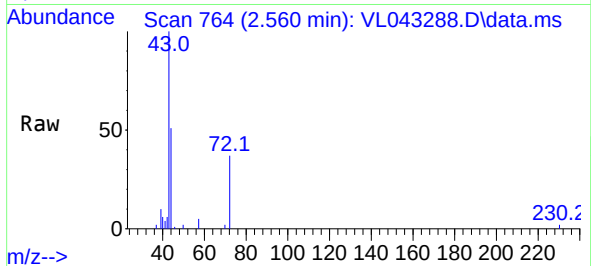
88 18.1 14.9 22.3





#34
2-Butanone
Concen: 0.180 ppbv
RT: 2.560 min Scan# 70
Delta R.T. 0.009 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

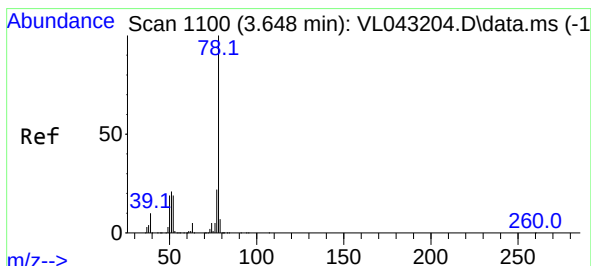
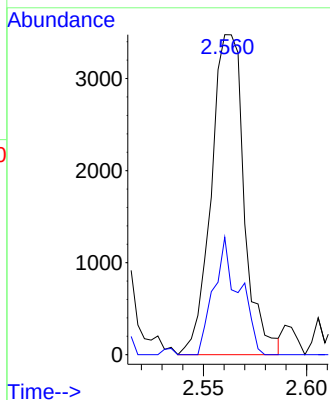
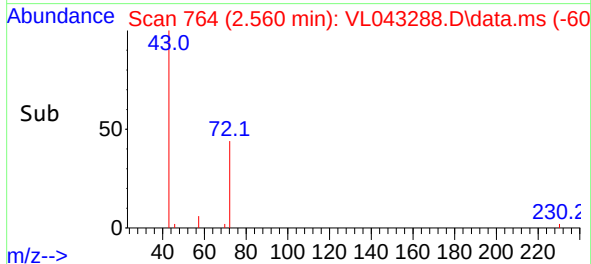
Instrument :
MSVOA_L
ClientSampleId :
SV3



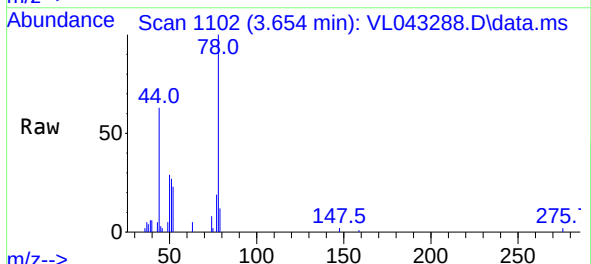
Tgt Ion: 43 Resp: 385
Ion Ratio Lower Upper
43 100
72 28.5 18.1 27.1

Manual Integrations
APPROVED

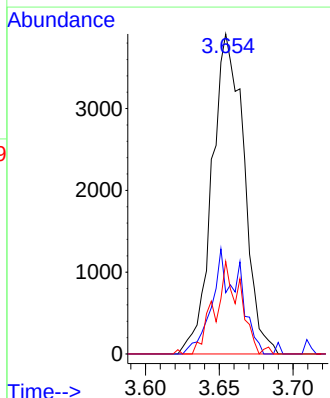
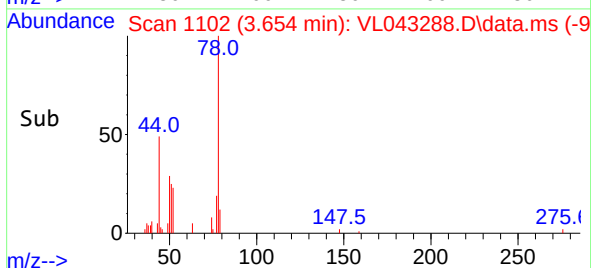
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

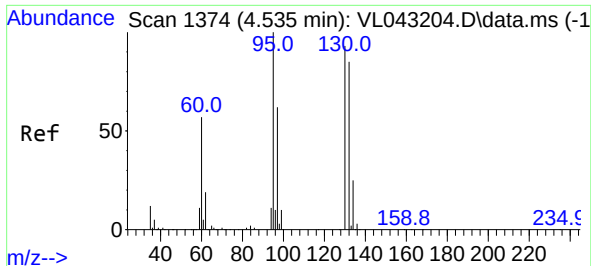


#36
Benzene
Concen: 0.202 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20



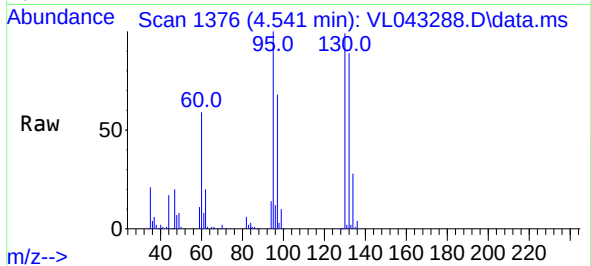
Tgt Ion: 78 Resp: 5877
Ion Ratio Lower Upper
78 100
77 19.1 17.5 26.3
50 28.9 15.5 23.3





#38
Trichloroethene
Concen: 3.667 ppbv
RT: 4.541 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

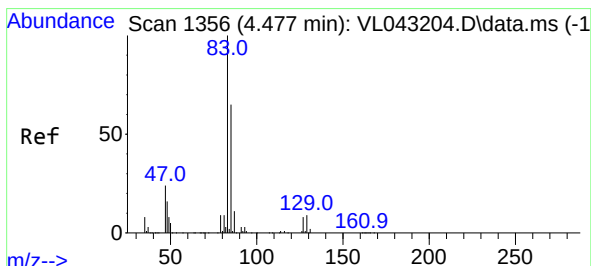
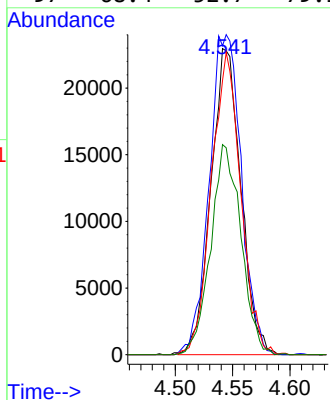
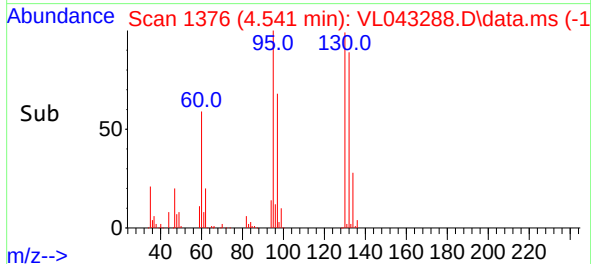
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:130 Resp: 41684
Ion Ratio Lower Upper
130 100
95 100.7 85.7 128.5
132 89.3 73.4 110.0
97 68.4 52.7 79.1

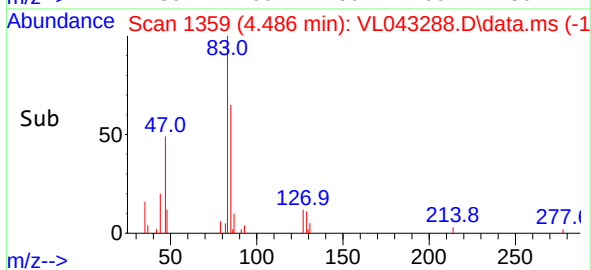
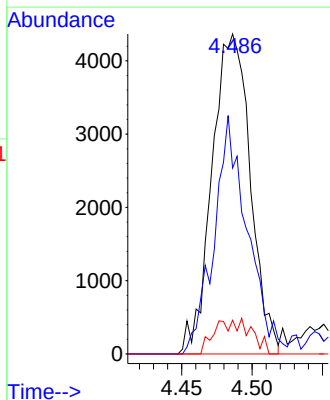
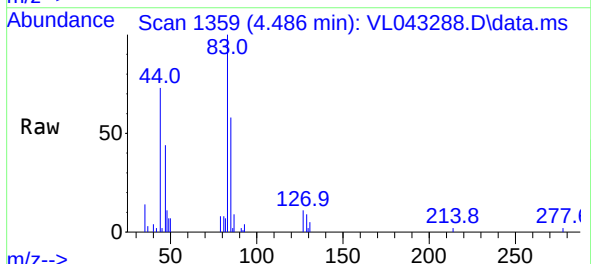
Manual Integrations
APPROVED

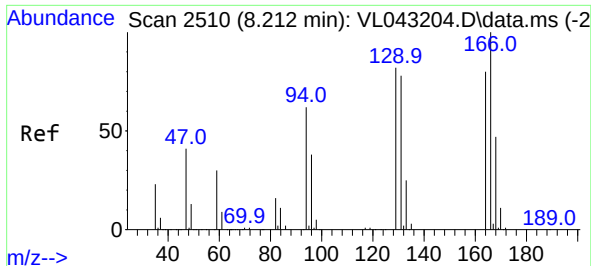
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#42
Bromodichloromethane
Concen: 0.353 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.009 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

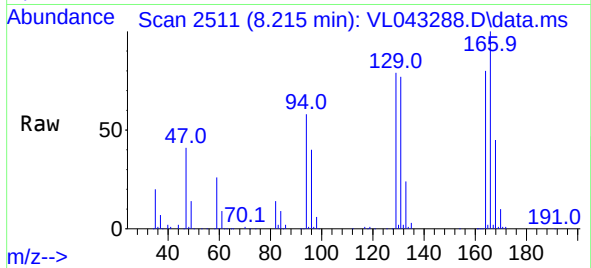
Tgt Ion: 83 Resp: 8283
Ion Ratio Lower Upper
83 100
85 58.1 51.7 77.5
127 10.6 6.3 9.5





#52
Tetrachloroethene
Concen: 8.527 ppbv
RT: 8.215 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

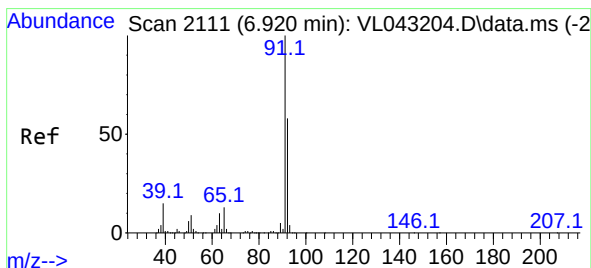
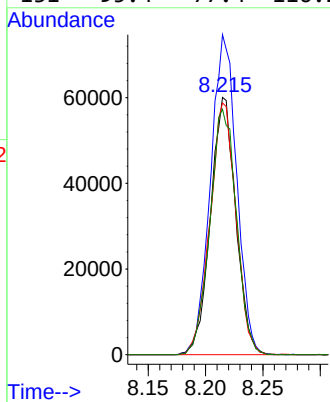
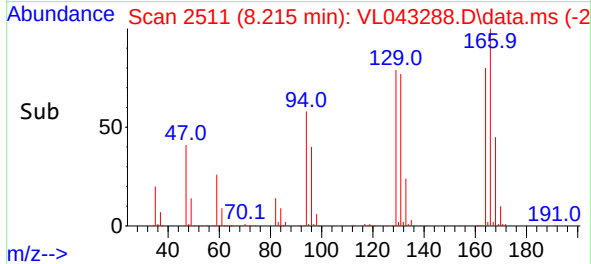
Instrument :
MSVOA_L
ClientSampleId :
SV3



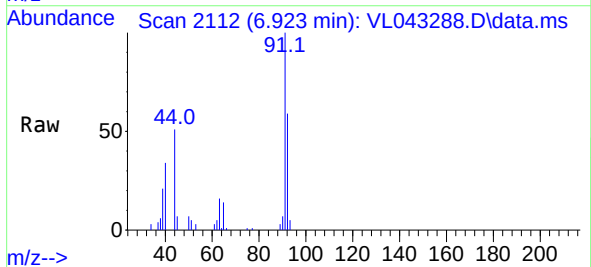
Tgt Ion:164 Resp: 92160
Ion Ratio Lower Upper
164 100
166 124.2 99.4 149.2
129 97.8 81.8 122.8
131 95.4 77.4 116.2

Manual Integrations
APPROVED

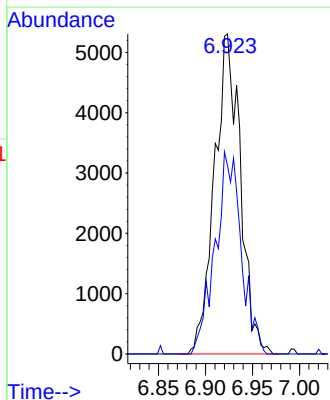
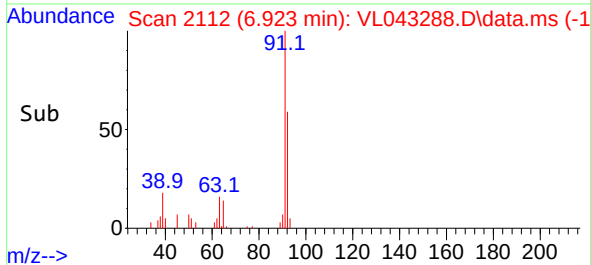
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

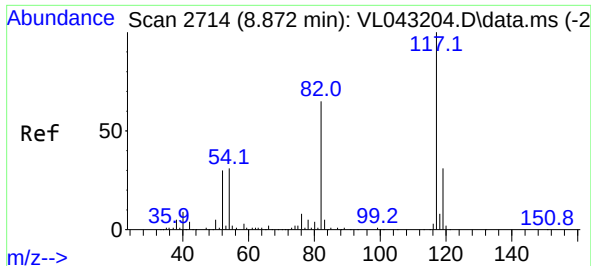


#53
Toluene
Concen: 0.295 ppbv m
RT: 6.923 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20



Tgt Ion: 91 Resp: 10148
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.872 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VL043288.D

Acq: 24 Nov 2025 18:20

Instrument :

MSVOA_L

ClientSampleId :

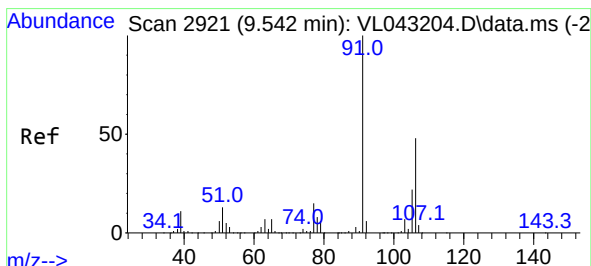
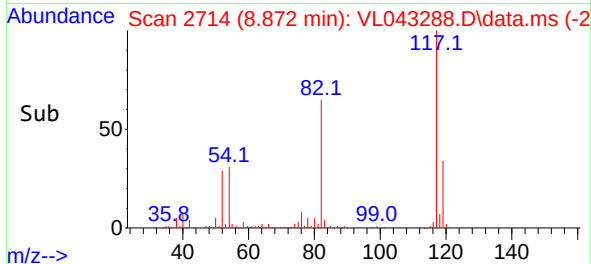
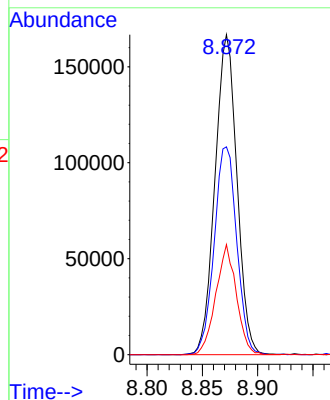
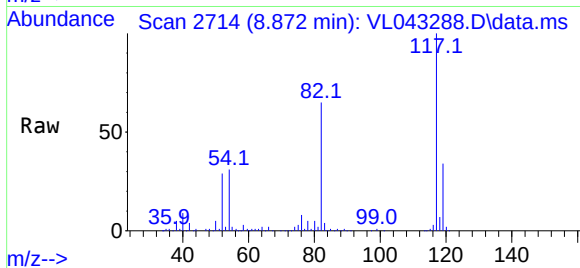
SV3

Tgt Ion:	117	Resp:	23011
Ion	Ratio	Lower	Upper
117	100		
82	66.7	56.1	84.1
119	32.3	25.0	37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#59

m/p-Xylene

Concen: 0.228 ppbv m

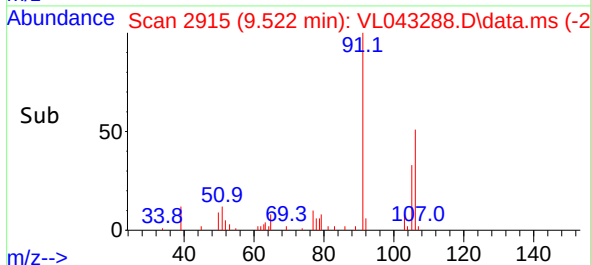
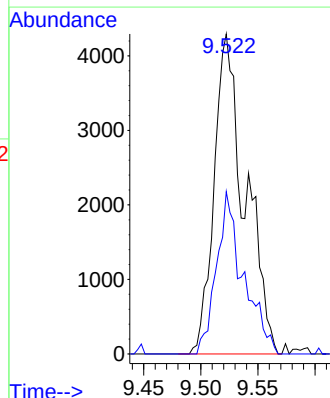
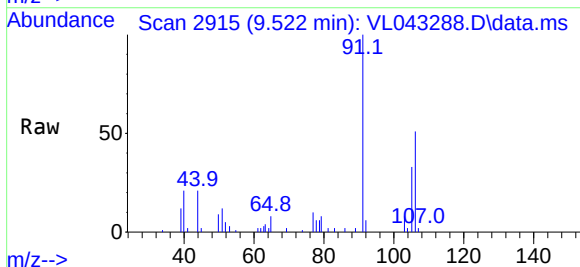
RT: 9.522 min Scan# 2915

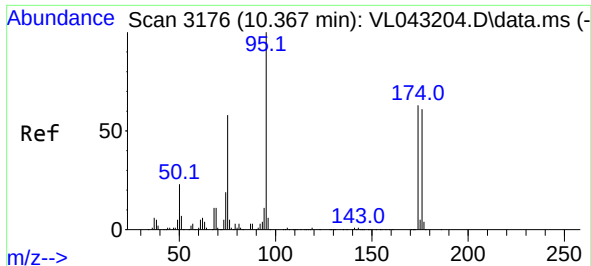
Delta R.T. -0.020 min

Lab File: VL043288.D

Acq: 24 Nov 2025 18:20

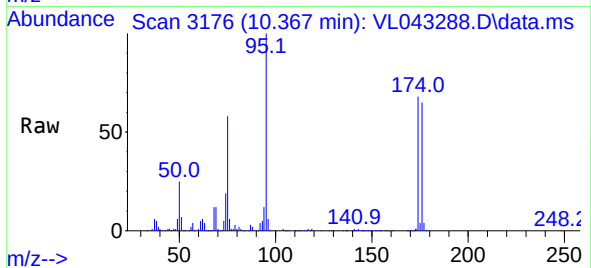
Tgt Ion:	91	Resp:	8100
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.833 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20

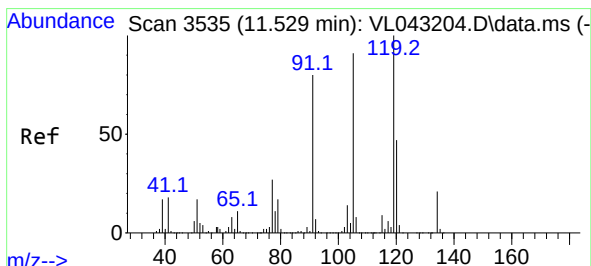
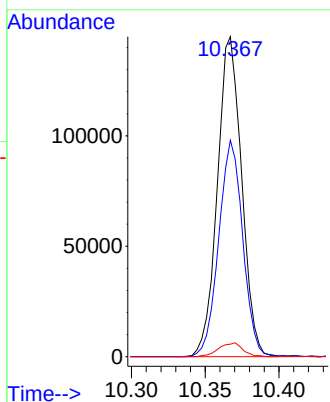
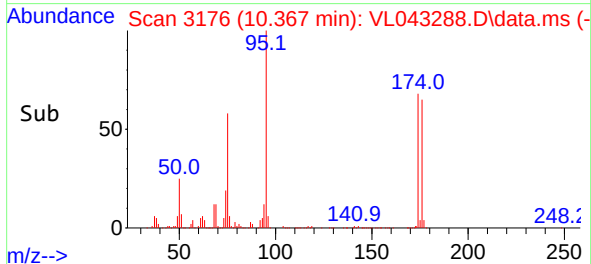
Instrument :
MSVOA_L
ClientSampleId :
SV3



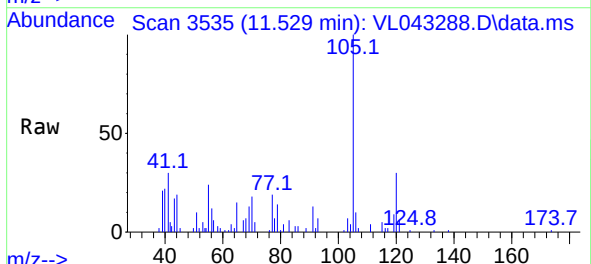
Tgt Ion: 95 Resp: 165850
Ion Ratio Lower Upper
95 100
174 67.2 50.2 75.2
175 4.3 4.1 6.1

Manual Integrations
APPROVED

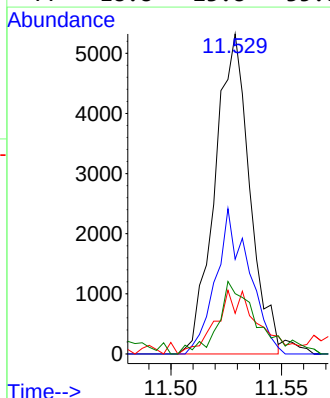
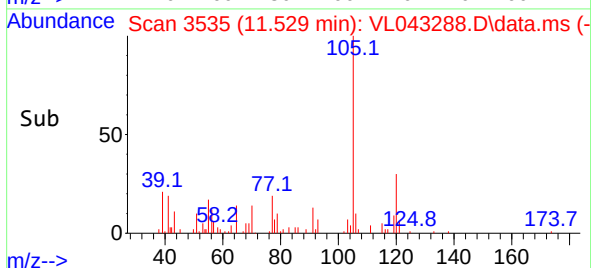
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.148 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043288.D
Acq: 24 Nov 2025 18:20



Tgt Ion:105 Resp: 5843
Ion Ratio Lower Upper
105 100
120 29.6 41.7 62.5#
91 12.7 70.0 105.0#
77 18.8 23.8 35.8#



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: IA3
Lab Sample ID: Q3696-06
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/19/25
Date Received: 11/20/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/24/25 16:09	VL112425
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/24/25 16:09	VL112425
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/24/25 16:09	VL112425
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/24/25 16:09	VL112425
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/24/25 16:09	VL112425
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/24/25 16:09	VL112425
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/24/25 16:09	VL112425
71-43-2	Benzene	0.21	0.67	J	1	0.26	1.60	11/24/25 16:09	VL112425
79-01-6	Trichloroethene	0.050	0.27		1	0.11	0.16	11/24/25 16:09	VL112425
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/24/25 16:09	VL112425
127-18-4	Tetrachloroethene	0.080	0.54		1	0.14	0.20	11/24/25 16:09	VL112425
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/24/25 16:09	VL112425
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/24/25 16:09	VL112425
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/24/25 16:09	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 16:09	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 16:09	VL112425
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/24/25 16:09	VL112425
110-54-3	Hexane	0.50	1.76		1	0.56	1.76	11/24/25 16:09	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.40				65 - 135	94% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	109000							
540-36-3	1,4-Difluorobenzene	279000							
3114-55-4	Chlorobenzene-d5	212000							

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\VL112425\
 Data File : VL043284.D
 Acq On : 24 Nov 2025 16:09
 Operator : SY/MD
 Sample : Q3696-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:41:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

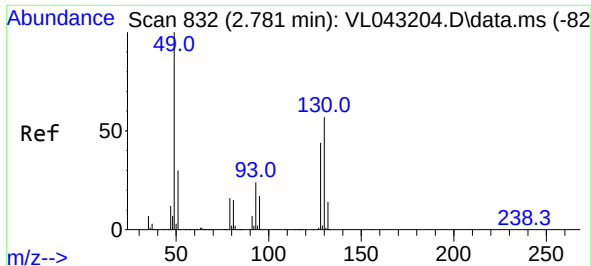
Internal Standards						
1) Bromochloromethane	2.781	49	109479	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	279354	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	212021	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	146433	9.422	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	7796	0.505	ppbv	91
3) Chlorodifluoromethane	1.473	51	3540m	0.233	ppbv	
4) Chloromethane	1.531	50	4629	0.802	ppbv	92
9) Propene	1.486	41	10165	1.576	ppbv #	1
11) Trichlorofluoromethane	1.874	101	4256	0.284	ppbv	99
13) Ethanol	1.719	45	74123	32.689	ppbv	100
15) Acetone	1.832	43	83602	5.496	ppbv	98
17) tert-Butyl alcohol	2.036	59	2274	0.114	ppbv #	81
19) Isopropyl Alcohol	1.881	45	16706	1.944	ppbv #	1
20) Methylene Chloride	2.059	84	6632	0.754	ppbv	89
26) Hexane	2.819	57	7152	0.497	ppbv #	45
29) Chloroform	2.839	83	8627	0.422	ppbv	94
34) 2-Butanone	2.554	43	10550	0.535	ppbv	95
35) Carbon Tetrachloride	3.748	117	2177m	0.103	ppbv	
36) Benzene	3.645	78	5586	0.209	ppbv #	90
38) Trichloroethene	4.535	130	507m	0.048	ppbv	
41) Tetrahydrofuran	3.052	42	2261	0.208	ppbv	93
52) Tetrachloroethene	8.215	164	760m	0.076	ppbv	

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

Manual Integrations

Quant Time: Nov 24 23:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





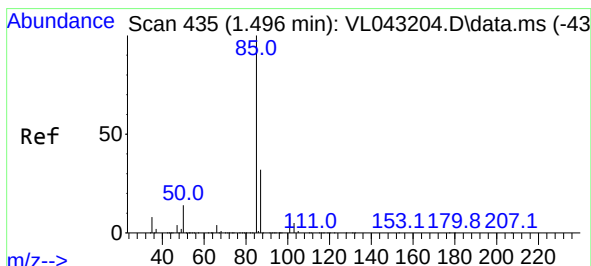
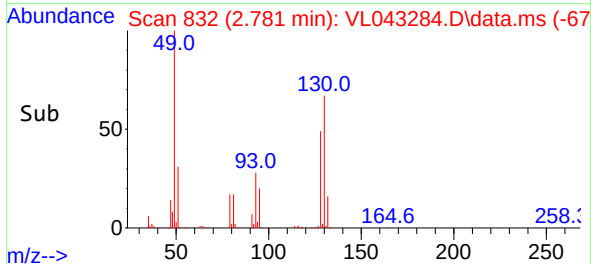
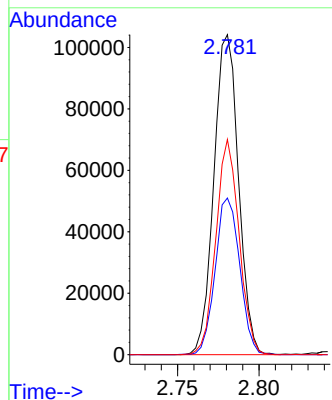
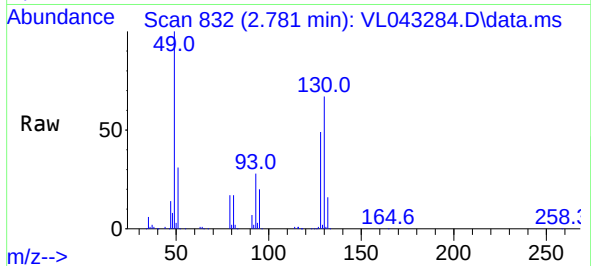
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 49 Resp: 109479
Ion Ratio Lower Upper
49 100
128 48.8 23.0 69.0
130 63.5 29.9 89.7

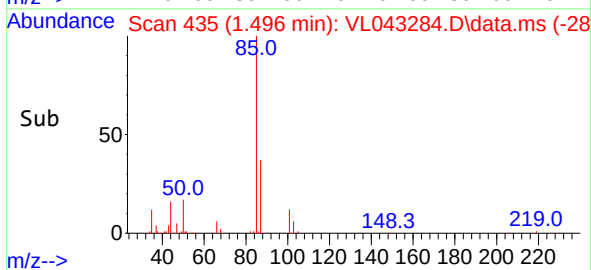
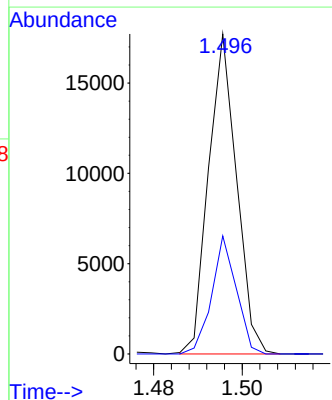
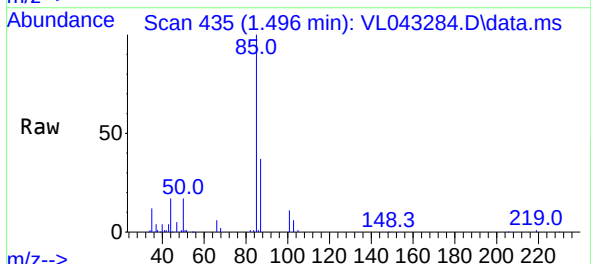
Manual Integrations
APPROVED

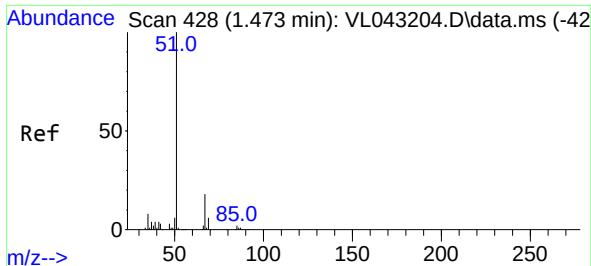
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.505 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

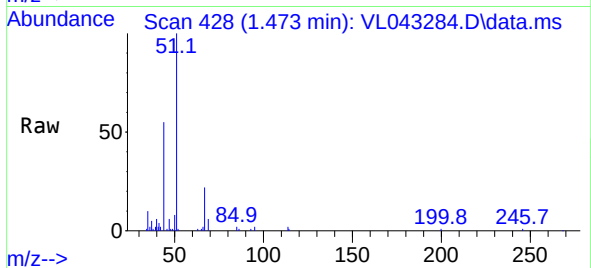
Tgt Ion: 85 Resp: 7796
Ion Ratio Lower Upper
85 100
87 36.9 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.233 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

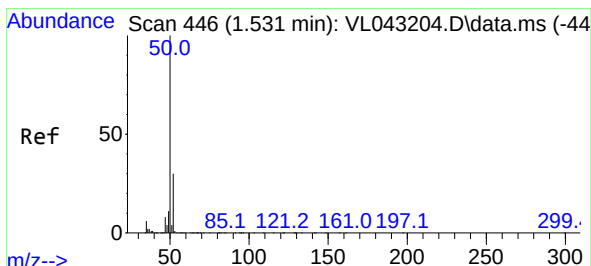
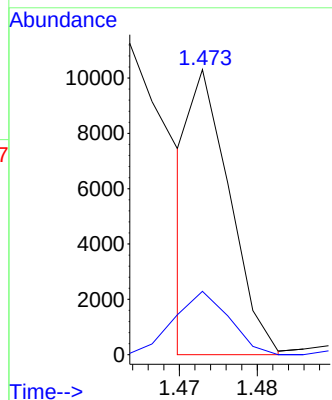
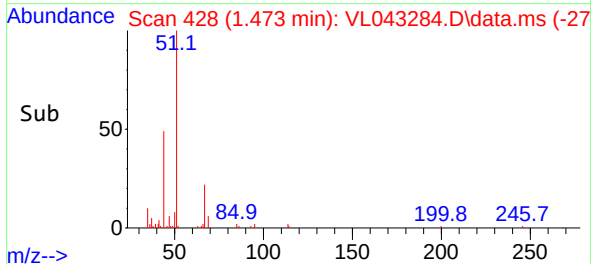
Instrument :
MSVOA_L
ClientSampleId :
IA3



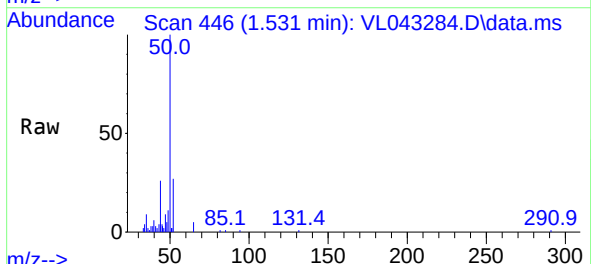
Tgt Ion: 51 Resp: 3540
Ion Ratio Lower Upper
51 100
67 35.4 14.9 22.3

Manual Integrations
APPROVED

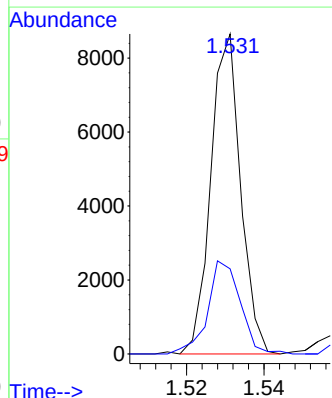
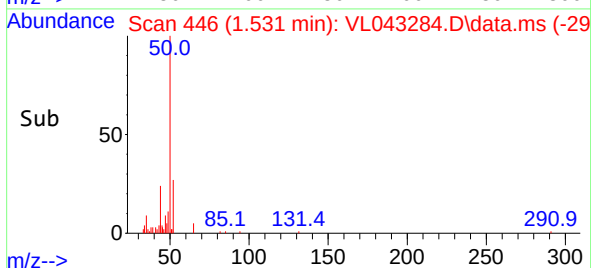
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

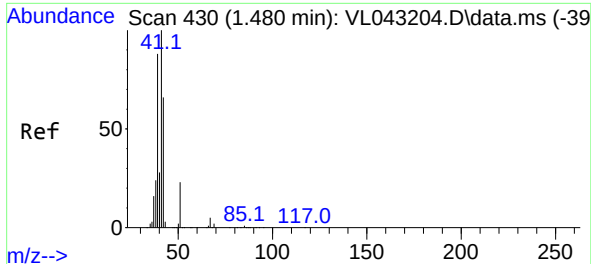


#4
Chloromethane
Concen: 0.802 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



Tgt Ion: 50 Resp: 4629
Ion Ratio Lower Upper
50 100
52 25.8 24.1 36.1





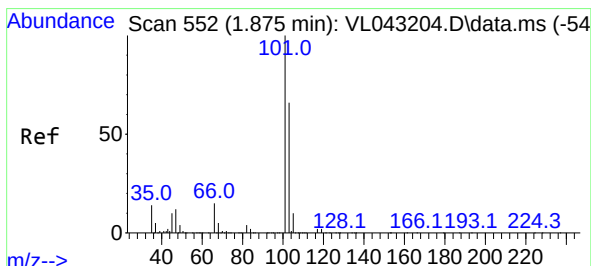
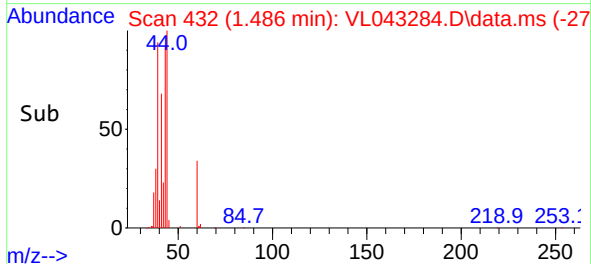
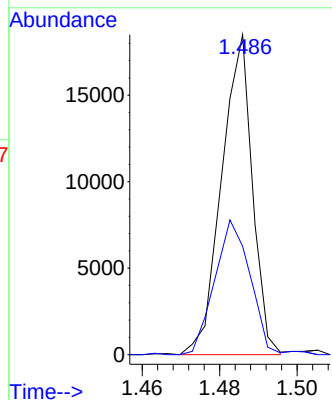
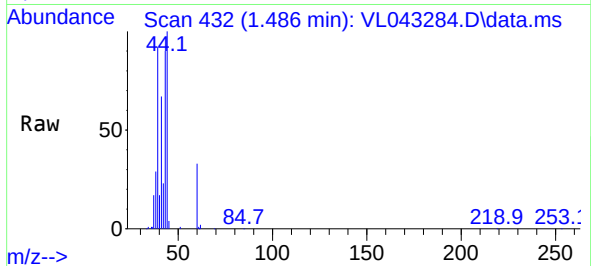
#9
Propene
Concen: 1.576 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 41 Resp: 1016
Ion Ratio Lower Upper
41 100
42 49.4 3.7 5.5

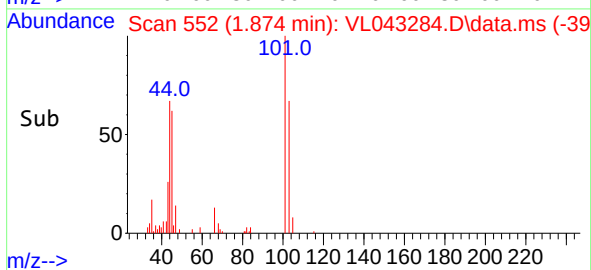
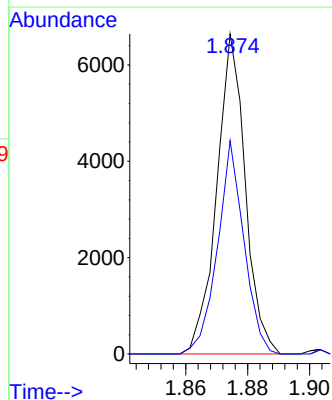
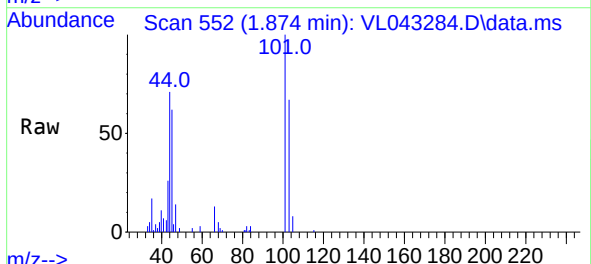
Manual Integrations
APPROVED

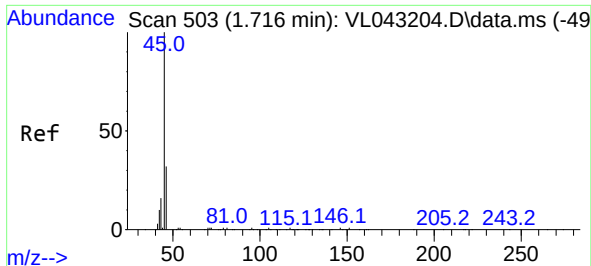
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#11
Trichlorofluoromethane
Concen: 0.284 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Tgt Ion:101 Resp: 4256
Ion Ratio Lower Upper
101 100
103 66.7 52.6 79.0





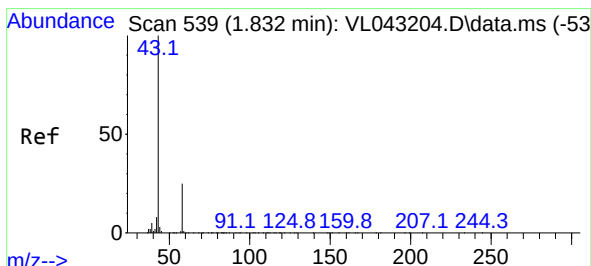
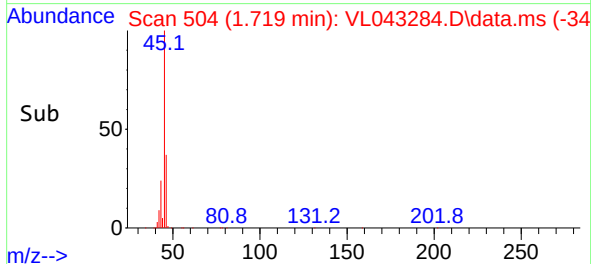
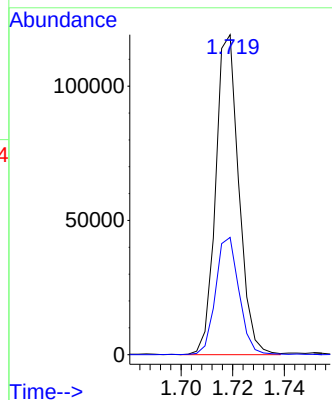
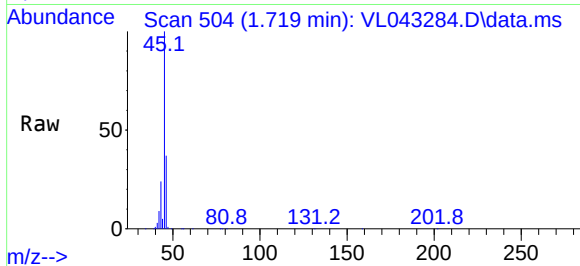
#13
Ethanol
Concen: 32.689 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 45 Resp: 7412
Ion Ratio Lower Upper
45 100
46 37.6 15.0 59.8

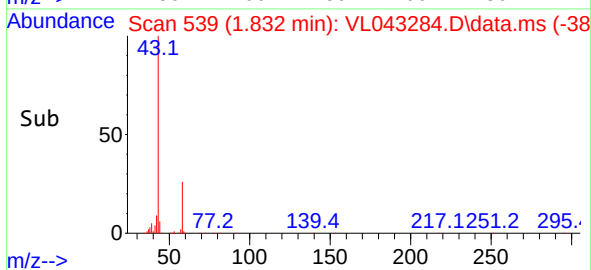
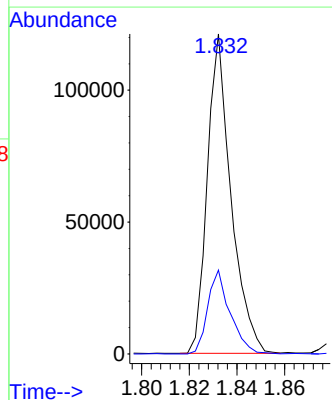
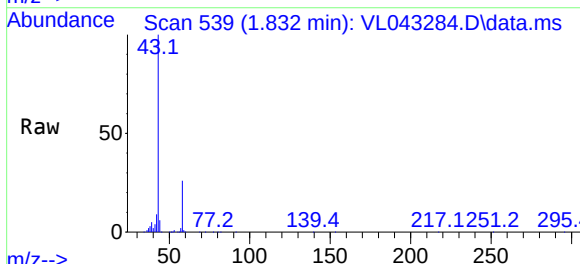
Manual Integrations
APPROVED

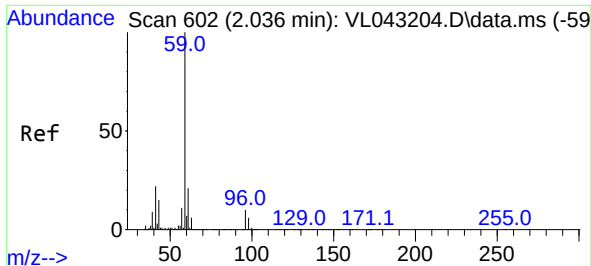
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#15
Acetone
Concen: 5.496 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

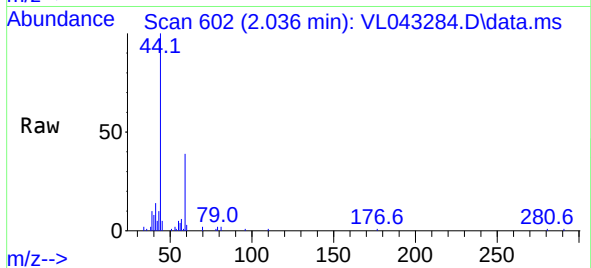
Tgt Ion: 43 Resp: 83602
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1





#17
tert-Butyl alcohol
Concen: 0.114 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

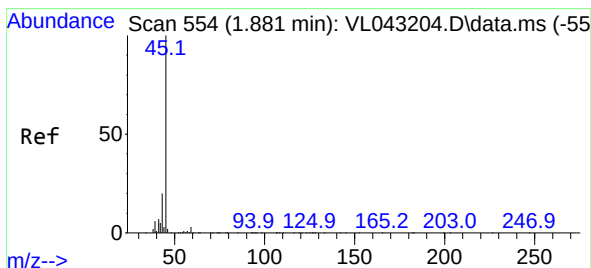
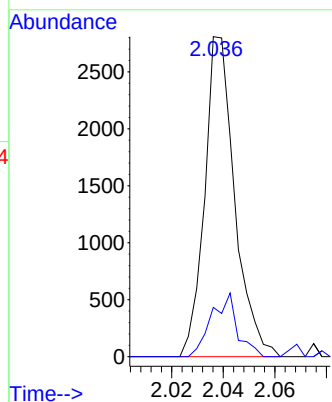
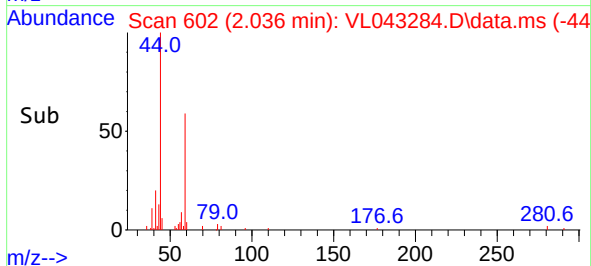
Instrument :
MSVOA_L
ClientSampleId :
IA3



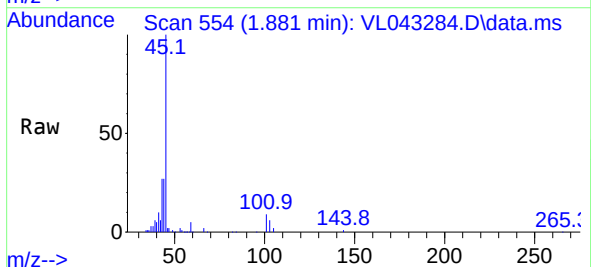
Tgt Ion: 59 Resp: 2274
Ion Ratio Lower Upper
59 100
57 18.5 9.0 13.4

Manual Integrations
APPROVED

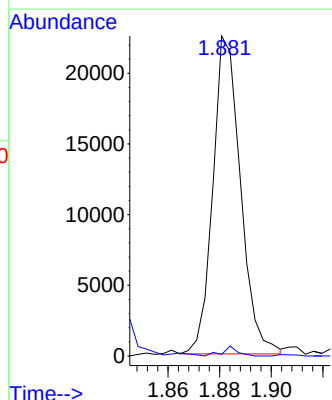
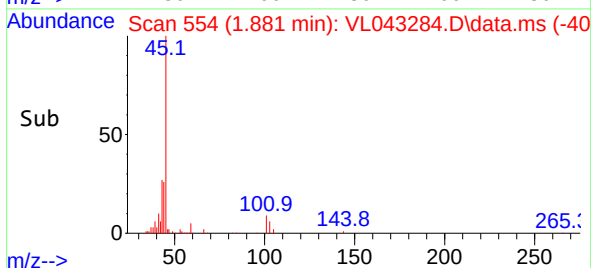
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

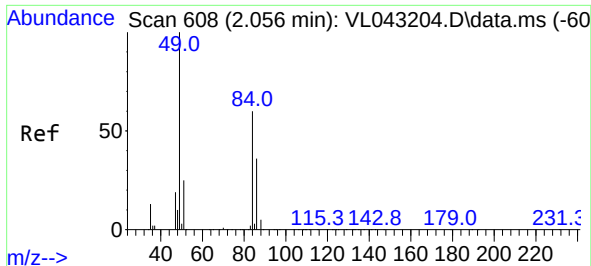


#19
Isopropyl Alcohol
Concen: 1.944 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



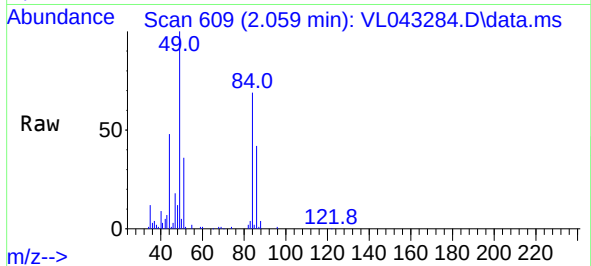
Tgt Ion: 45 Resp: 16706
Ion Ratio Lower Upper
45 100
58 124.9 31.3 46.9





#20
Methylene Chloride
Concen: 0.754 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

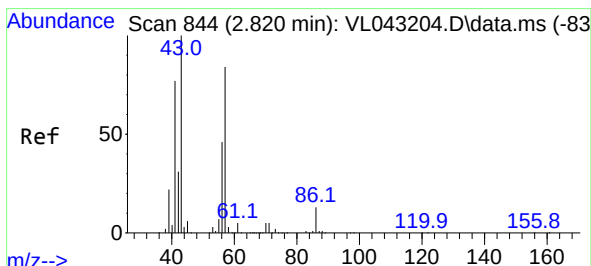
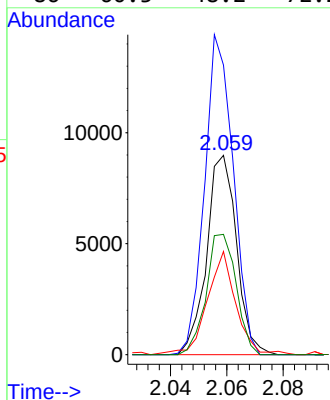
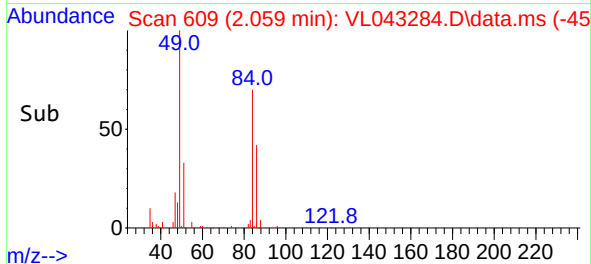
Instrument :
MSVOA_L
ClientSampleId :
IA3



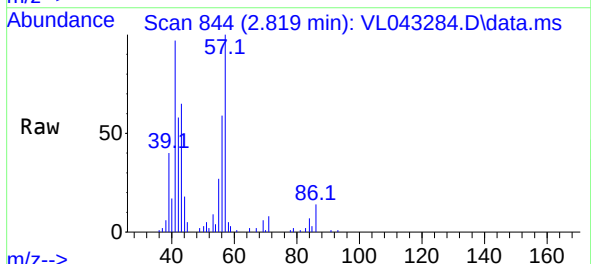
Tgt Ion: 84 Resp: 6632
Ion Ratio Lower Upper
84 100
49 145.2 132.9 199.3
51 50.1 34.8 52.2
86 60.3 48.2 72.2

Manual Integrations
APPROVED

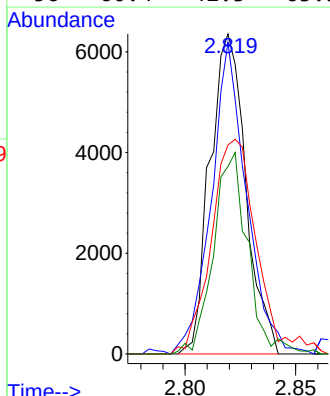
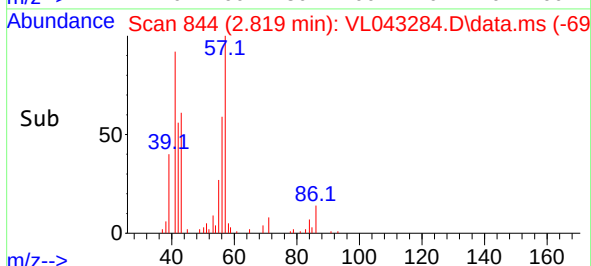
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

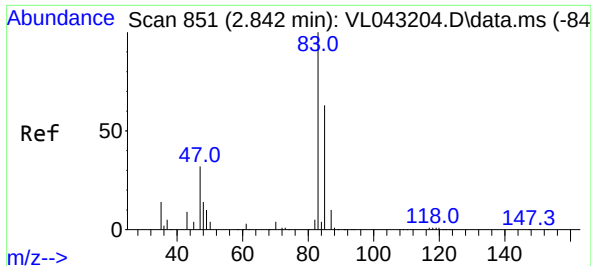


#26
Hexane
Concen: 0.497 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



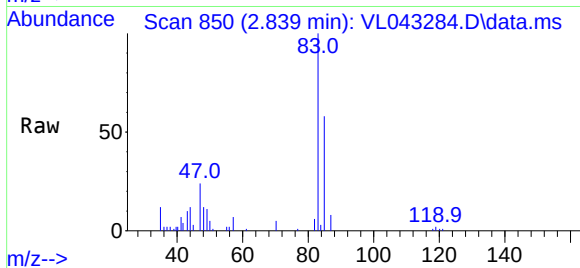
Tgt Ion: 57 Resp: 7152
Ion Ratio Lower Upper
57 100
41 101.9 74.6 111.8
43 85.8 179.0 268.4#
56 60.4 42.3 63.5





#29
Chloroform
Concen: 0.422 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

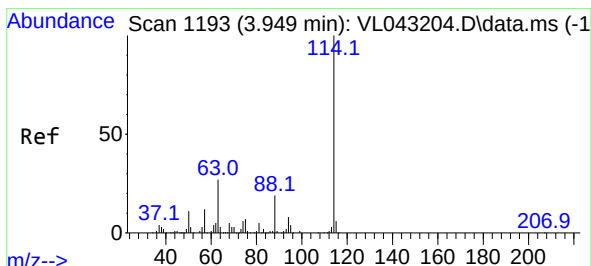
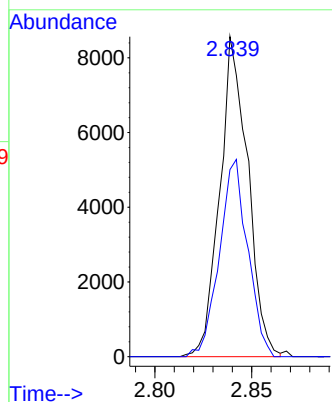
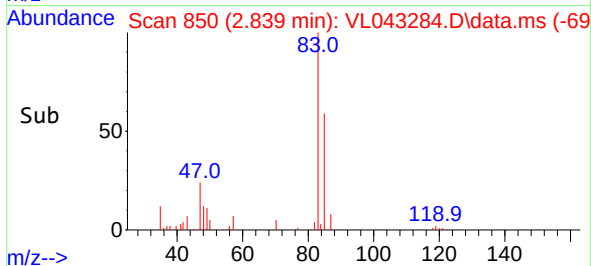
Instrument :
MSVOA_L
ClientSampleId :
IA3



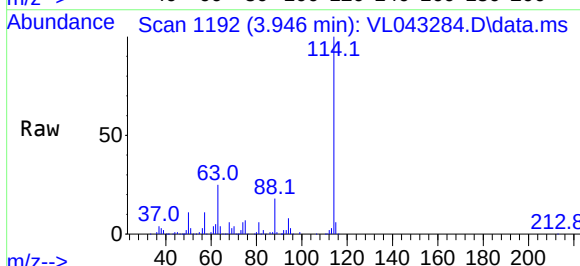
Tgt Ion: 83 Resp: 862
Ion Ratio Lower Upper
83 100
85 58.4 50.5 75.7

Manual Integrations
APPROVED

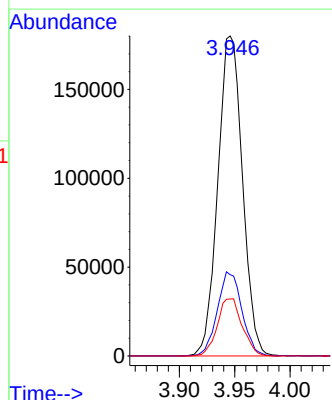
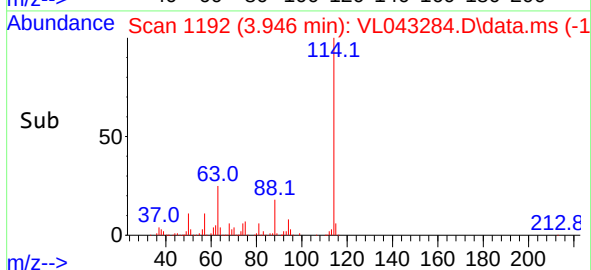
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

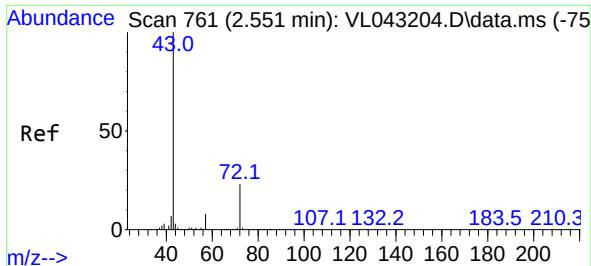


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



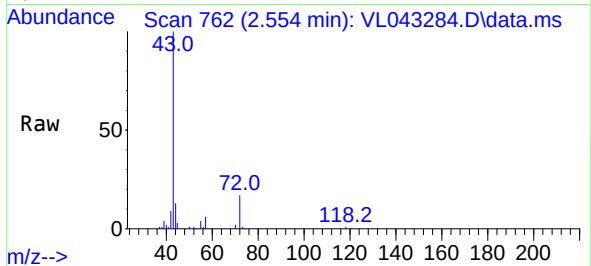
Tgt Ion:114 Resp: 279354
Ion Ratio Lower Upper
114 100
63 26.2 21.0 31.6
88 18.0 14.9 22.3





#34
2-Butanone
Concen: 0.535 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

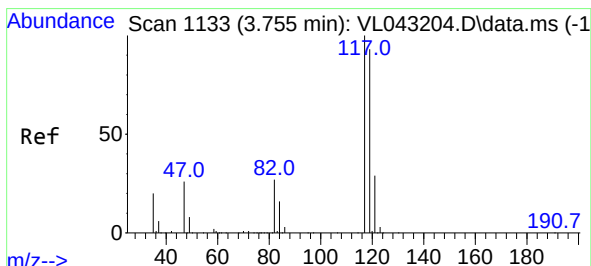
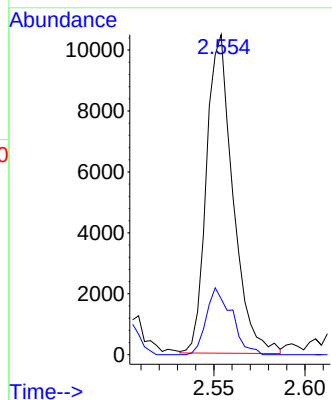
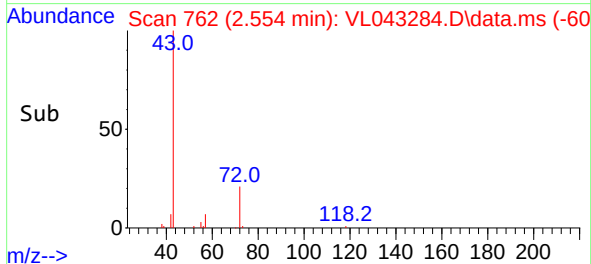
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 43 Resp: 10550
Ion Ratio Lower Upper
43 100
72 20.3 18.1 27.1

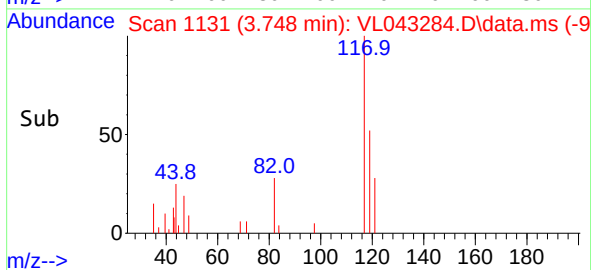
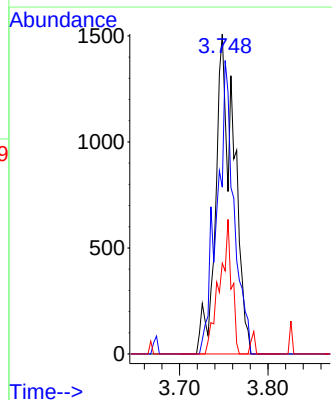
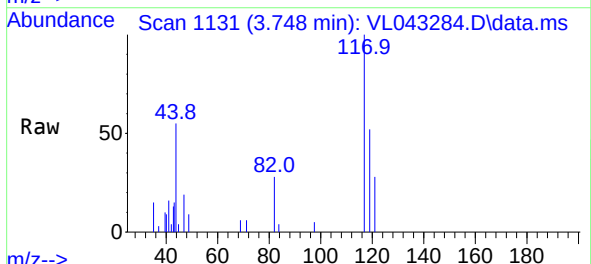
Manual Integrations
APPROVED

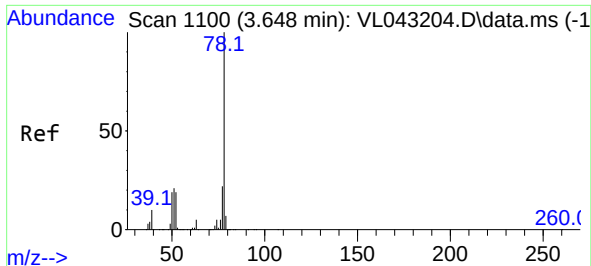
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#35
Carbon Tetrachloride
Concen: 0.103 ppbv m
RT: 3.748 min Scan# 1131
Delta R.T. -0.007 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

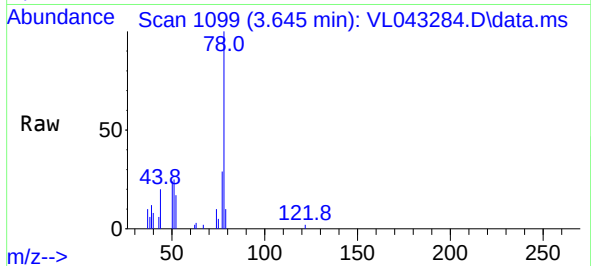
Tgt Ion:117 Resp: 2177
Ion Ratio Lower Upper
117 100
119 52.1 74.6 112.0#
121 28.4 23.2 34.8





#36
Benzene
Concen: 0.209 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

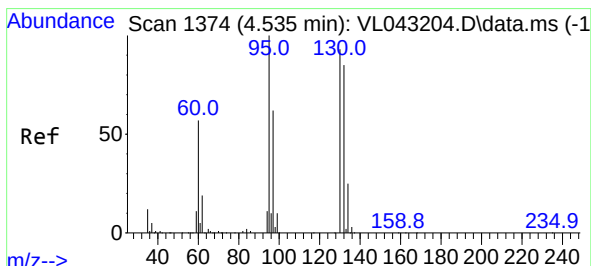
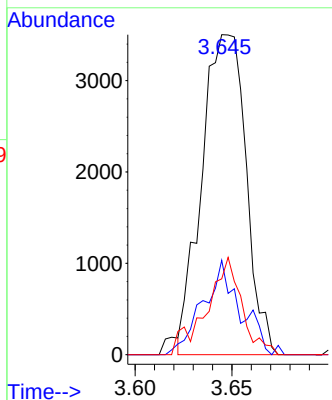
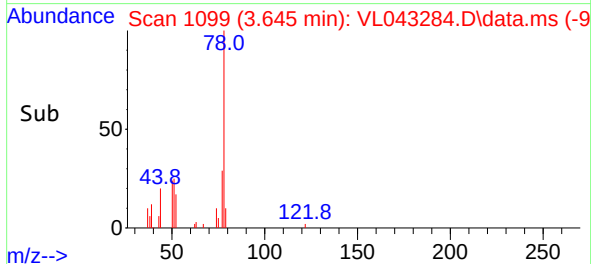
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 78 Resp: 5580
Ion Ratio Lower Upper
78 100
77 26.6 17.5 26.3#
50 23.7 15.5 23.3#

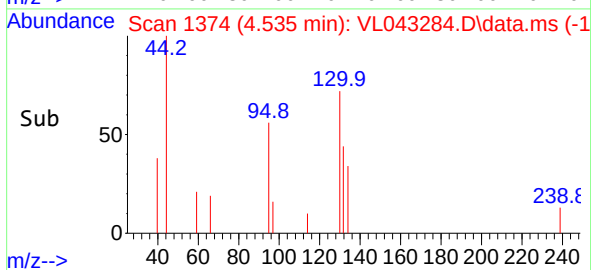
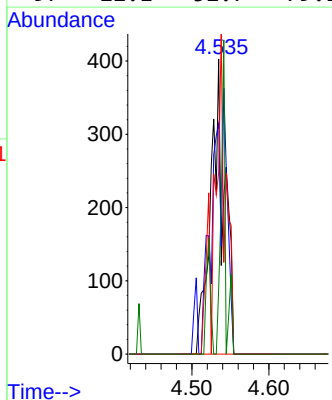
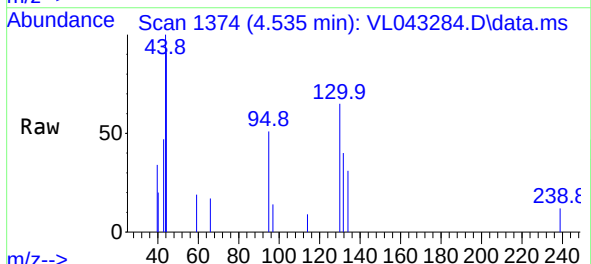
Manual Integrations
APPROVED

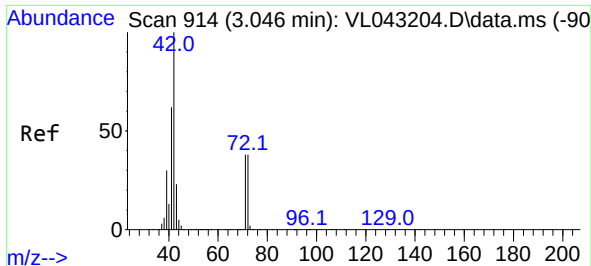
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#38
Trichloroethene
Concen: 0.048 ppbv m
RT: 4.535 min Scan# 1374
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

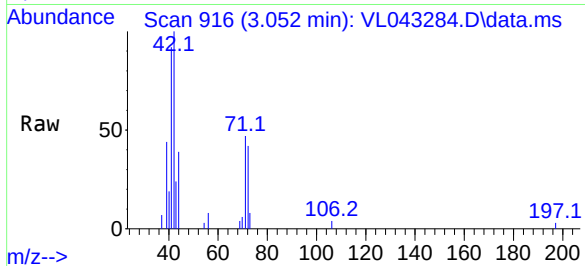
Tgt Ion:130 Resp: 507
Ion Ratio Lower Upper
130 100
95 78.2 85.7 128.5#
132 61.5 73.4 110.0#
97 22.1 52.7 79.1#





#41
Tetrahydrofuran
Concen: 0.208 ppbv
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

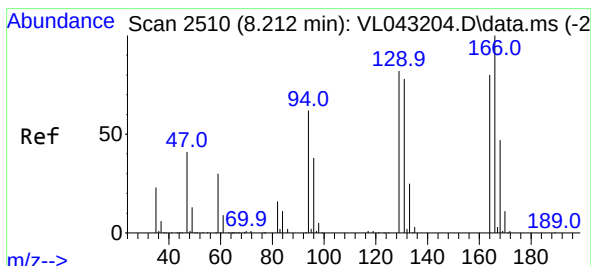
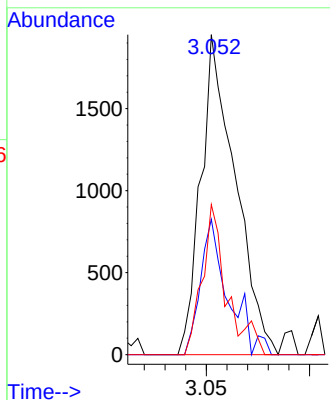
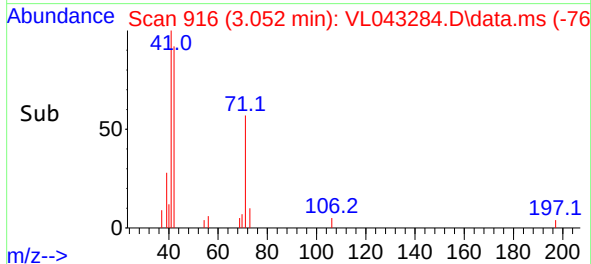
Instrument :
MSVOA_L
ClientSampleId :
IA3



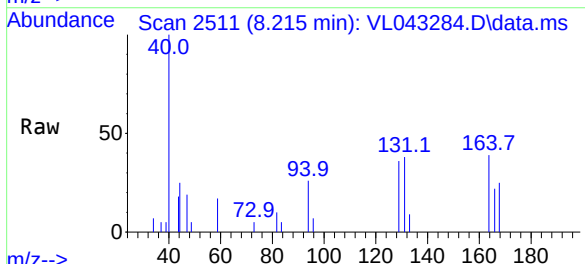
Tgt Ion: 42 Resp: 226
Ion Ratio Lower Upper
42 100
72 34.1 30.6 46.0
71 33.3 30.5 45.7

Manual Integrations
APPROVED

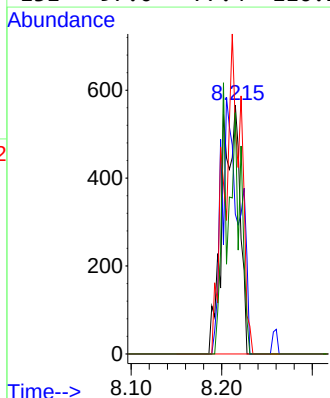
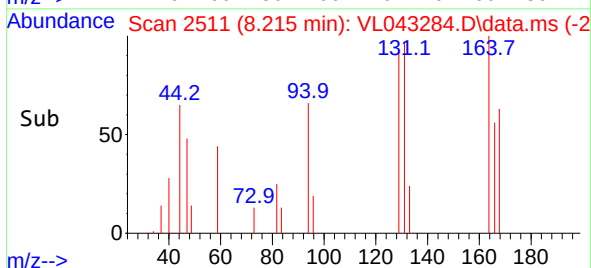
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

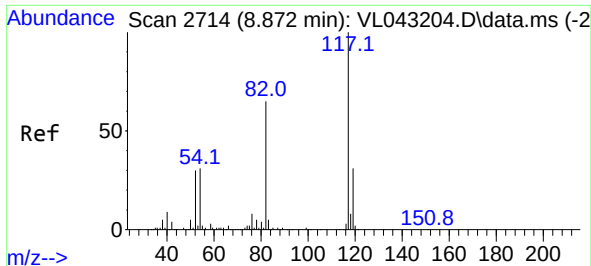


#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



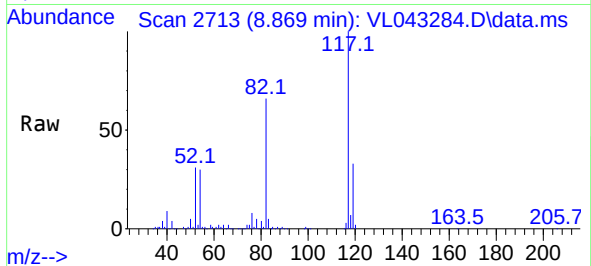
Tgt Ion:164 Resp: 760
Ion Ratio Lower Upper
164 100
166 56.2 99.4 149.2#
129 91.5 81.8 122.8
131 97.0 77.4 116.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21202
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

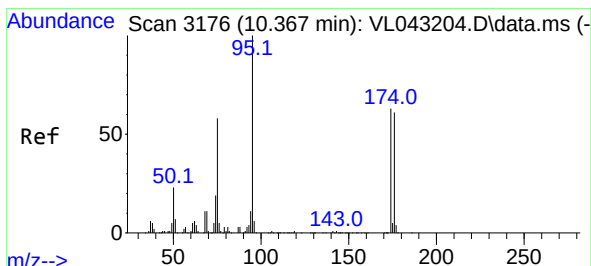
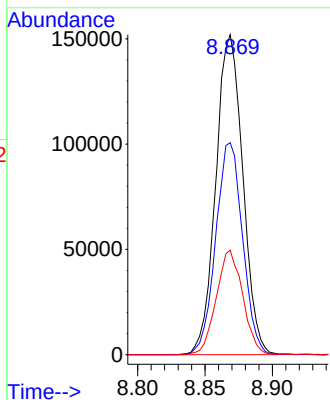
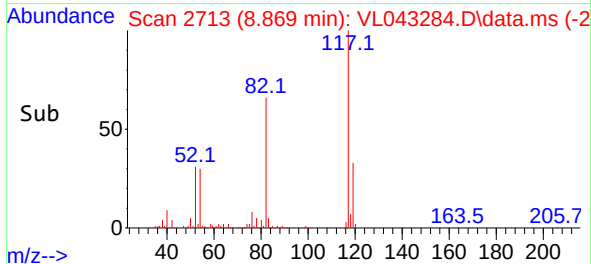
Instrument :
MSVOA_L
ClientSampleId :
IA3



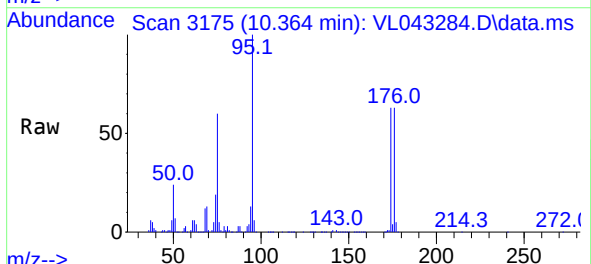
Tgt Ion: 117 Resp: 21202
Ion Ratio Lower Upper
117 100
82 66.0 56.1 84.1
119 32.1 25.0 37.6

Manual Integrations
APPROVED

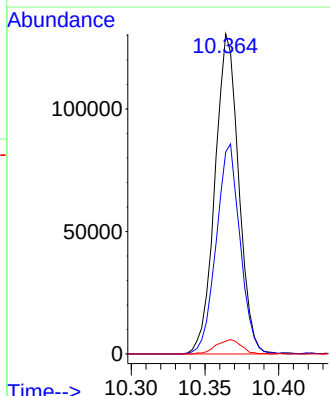
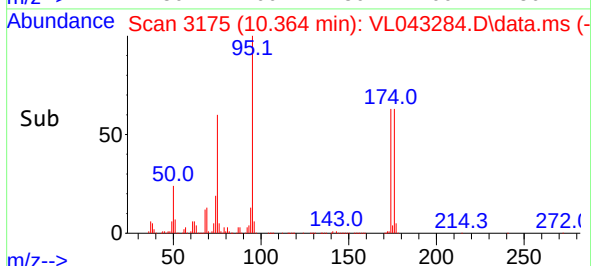
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.422 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



Tgt Ion: 95 Resp: 146433
Ion Ratio Lower Upper
95 100
174 66.1 50.2 75.2
175 4.8 4.1 6.1



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: OA1
Lab Sample ID: Q3696-07
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/19/25
Date Received: 11/20/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/24/25 16:43	VL112425
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/24/25 16:43	VL112425
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/24/25 16:43	VL112425
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/24/25 16:43	VL112425
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/24/25 16:43	VL112425
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/24/25 16:43	VL112425
540-84-1	2,2,4-Trimethylpentane	0.19	0.89	J	1	0.65	2.34	11/24/25 16:43	VL112425
71-43-2	Benzene	0.22	0.70	J	1	0.26	1.60	11/24/25 16:43	VL112425
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/24/25 16:43	VL112425
108-88-3	Toluene	0.27	1.02	J	1	0.60	1.88	11/24/25 16:43	VL112425
127-18-4	Tetrachloroethene	0.070	0.47		1	0.14	0.20	11/24/25 16:43	VL112425
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/24/25 16:43	VL112425
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/24/25 16:43	VL112425
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/24/25 16:43	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 16:43	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 16:43	VL112425
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/24/25 16:43	VL112425
110-54-3	Hexane	1.30	4.58		1	0.56	1.76	11/24/25 16:43	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.70				65 - 135	97% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	107000							
540-36-3	1,4-Difluorobenzene	272000							
3114-55-4	Chlorobenzene-d5	212000							

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\VL112425\
 Data File : VL043285.D
 Acq On : 24 Nov 2025 16:43
 Operator : SY/MD
 Sample : Q3696-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:42:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	106827	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	272263	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	212048	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	150154	9.660	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7424	0.493	ppbv	98
3) Chlorodifluoromethane	1.473	51	4805m	0.324	ppbv	
4) Chloromethane	1.531	50	2906	0.516	ppbv	90
9) Propene	1.486	41	5289	0.841	ppbv #	1
11) Trichlorofluoromethane	1.874	101	3779	0.259	ppbv	87
13) Ethanol	1.719	45	19354	8.747	ppbv	98
15) Acetone	1.832	43	65952	4.444	ppbv	95
19) Isopropyl Alcohol	1.884	45	25817	3.078	ppbv #	66
20) Methylene Chloride	2.059	84	17762	3.556	ppbv	97
26) Hexane	2.819	57	18805	1.340	ppbv #	41
34) 2-Butanone	2.554	43	5733	0.298	ppbv	93
35) Carbon Tetrachloride	3.755	117	1807	0.087	ppbv	97
36) Benzene	3.648	78	5808	0.223	ppbv #	91
44) 2,2,4-Trimethylpentane	4.629	57	8356m	0.187	ppbv	
52) Tetrachloroethene	8.199	164	658m	0.068	ppbv	
53) Toluene	6.914	91	8340m	0.270	ppbv	
59) m/p-Xylene	9.513	91	4019m	0.123	ppbv	

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

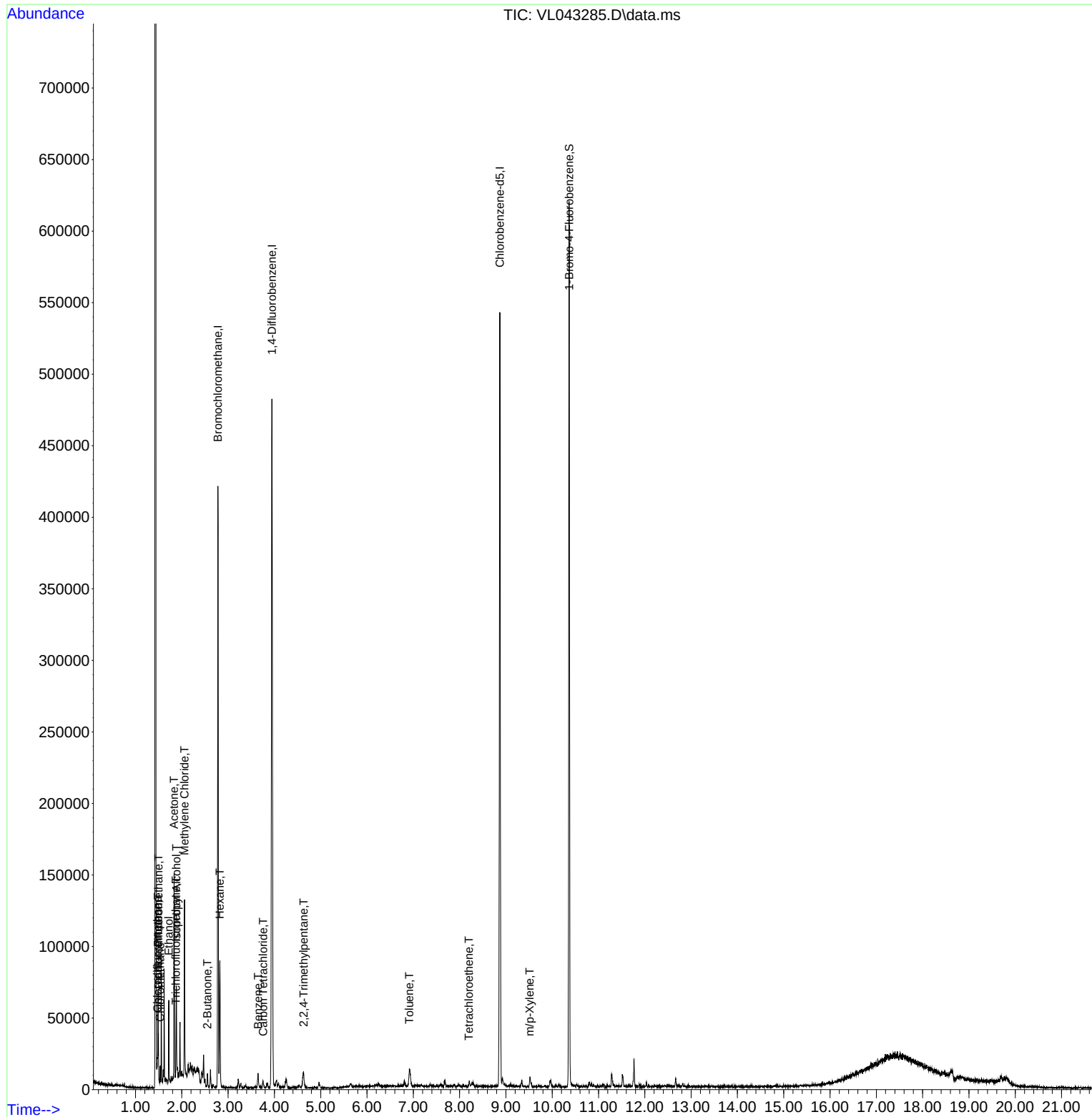
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043285.D
Acq On : 24 Nov 2025 16:43
Operator : SY/MD
Sample : Q3696-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

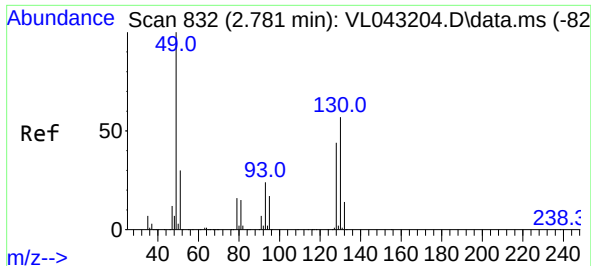
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Nov 24 23:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2025
Supervised By : Mahesh Dadoda 11/25/2025





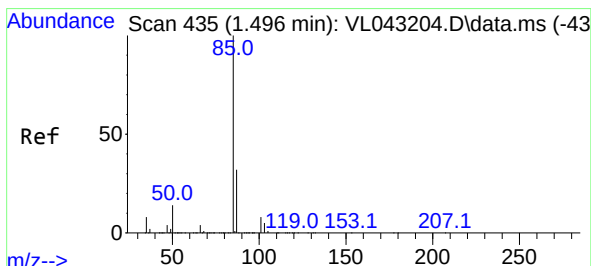
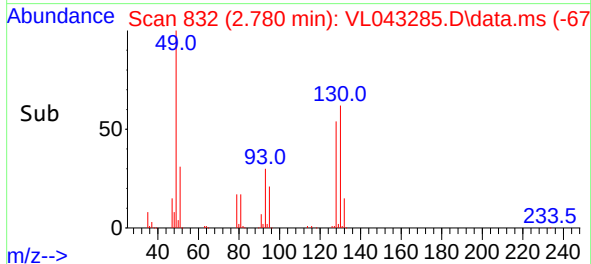
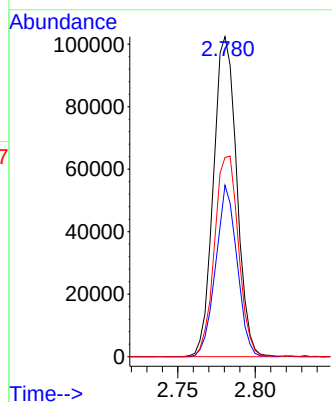
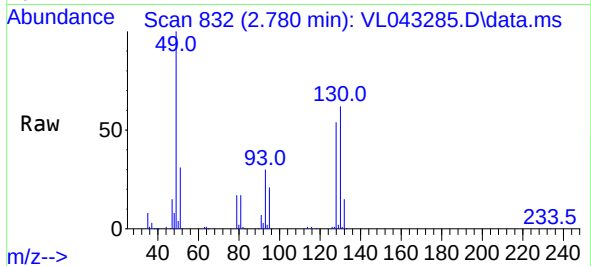
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.001 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 10682
Ion Ratio Lower Upper
49 100
128 49.3 23.0 69.0
130 64.8 29.9 89.7

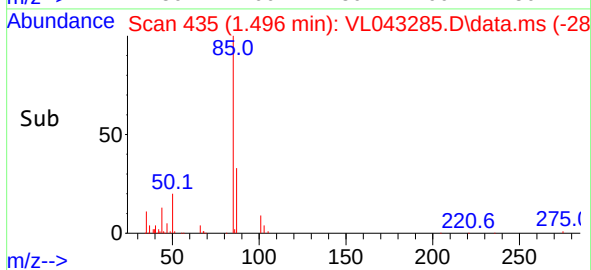
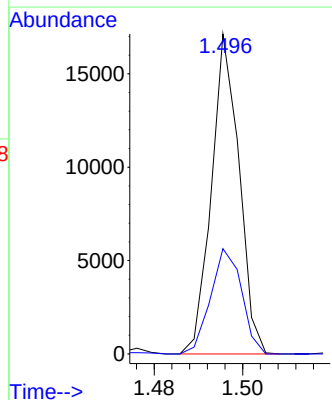
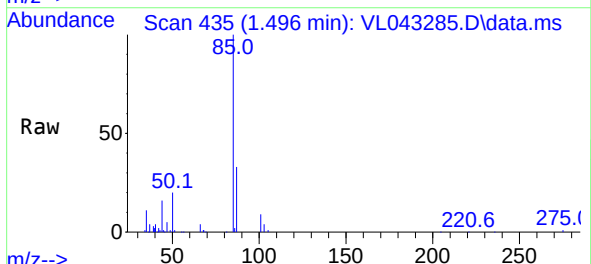
Manual Integrations
APPROVED

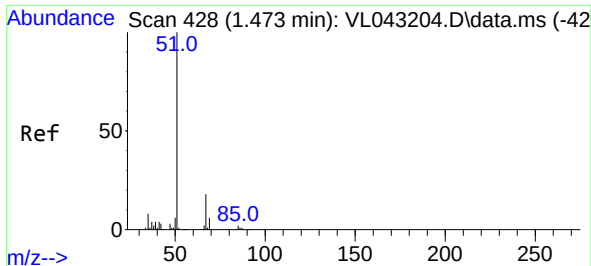
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.493 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

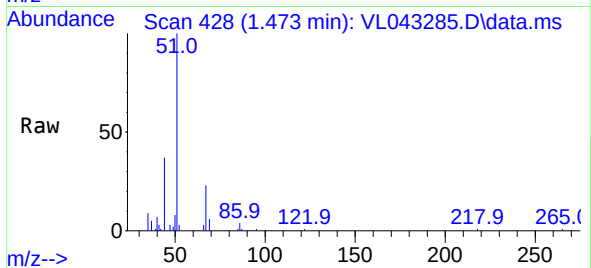
Tgt Ion: 85 Resp: 7424
Ion Ratio Lower Upper
85 100
87 32.9 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.324 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

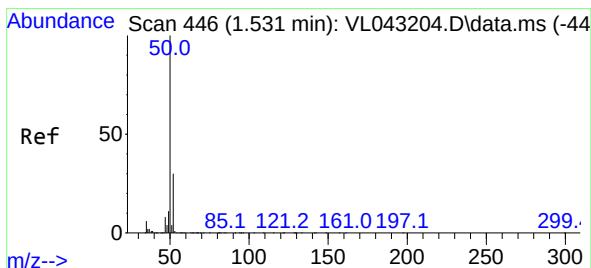
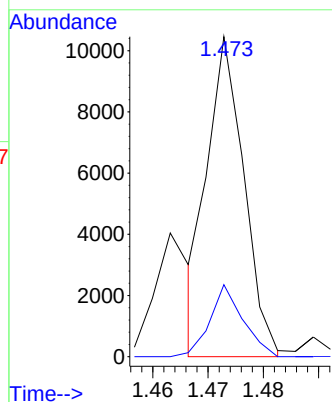
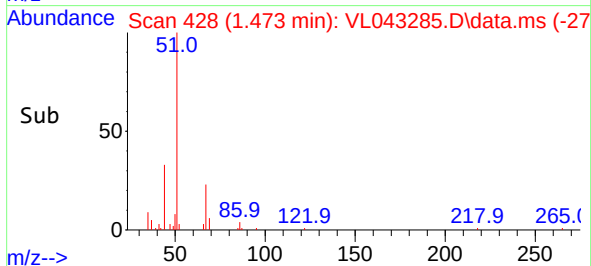
Instrument :
MSVOA_L
ClientSampleId :
OA1



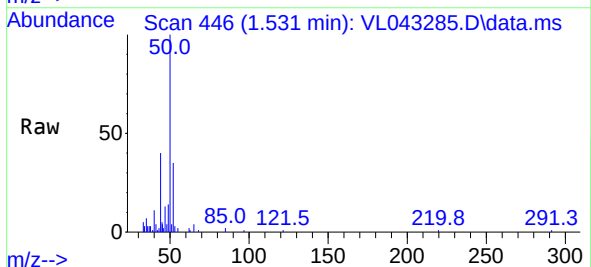
Tgt Ion: 51 Resp: 4809
Ion Ratio Lower Upper
51 100
67 2.6 14.9 22.3

Manual Integrations
APPROVED

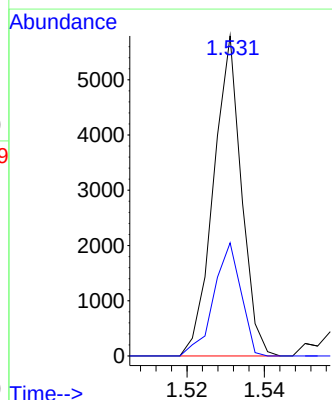
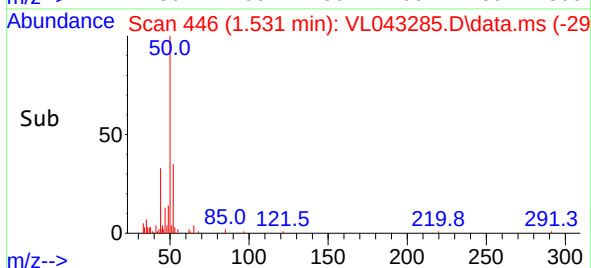
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

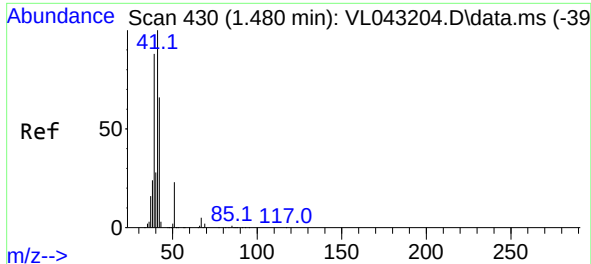


#4
Chloromethane
Concen: 0.516 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43



Tgt Ion: 50 Resp: 2906
Ion Ratio Lower Upper
50 100
52 35.4 24.1 36.1





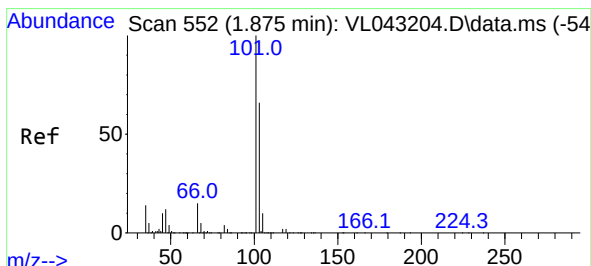
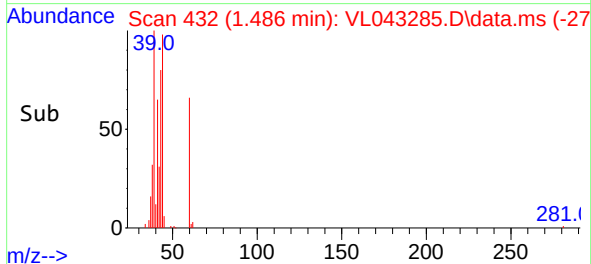
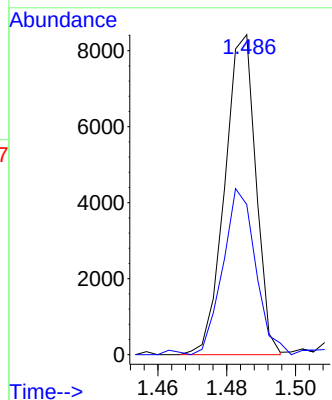
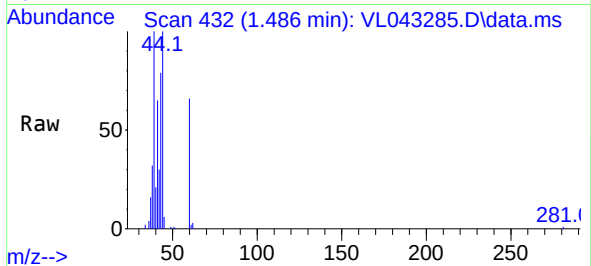
#9
Propene
Concen: 0.841 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 5289
Ion Ratio Lower Upper
41 100
42 57.3 3.7 5.5

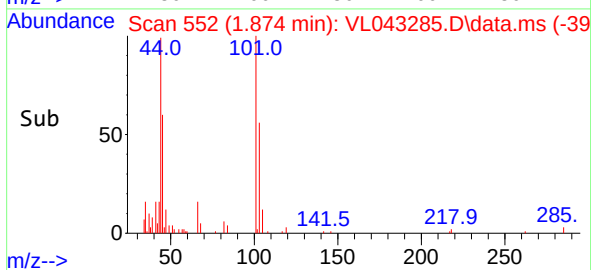
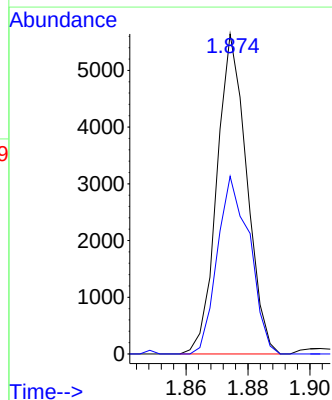
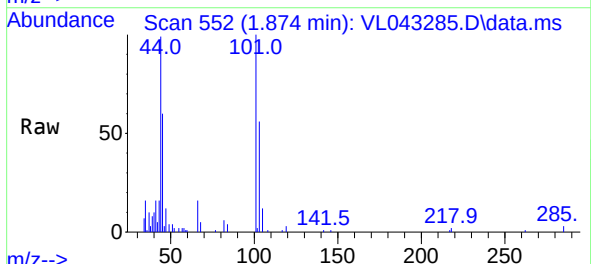
Manual Integrations
APPROVED

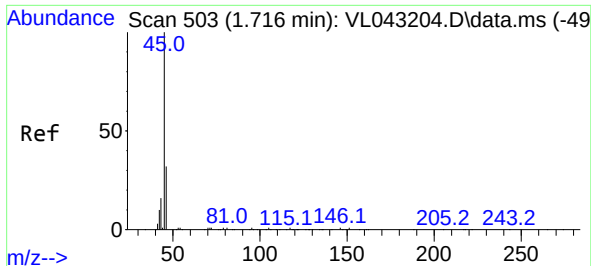
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#11
Trichlorofluoromethane
Concen: 0.259 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Tgt Ion:101 Resp: 3779
Ion Ratio Lower Upper
101 100
103 55.5 52.6 79.0





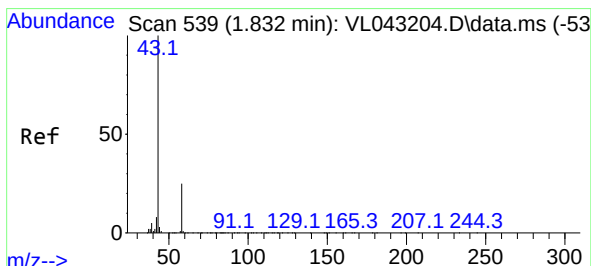
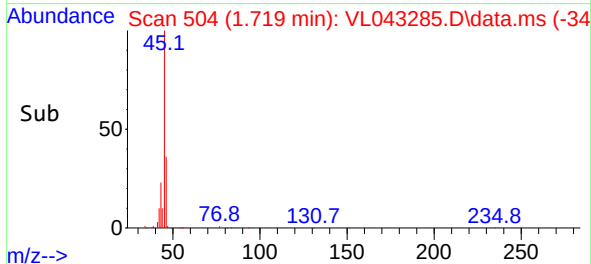
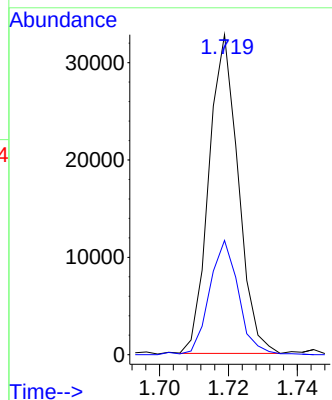
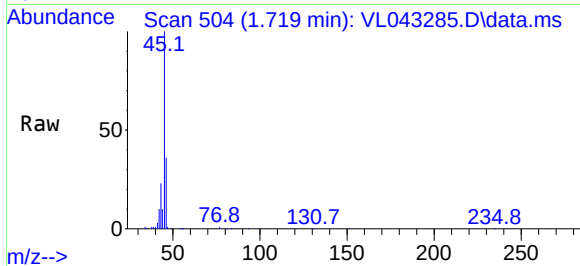
#13
Ethanol
Concen: 8.747 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 19354
Ion Ratio Lower Upper
45 100
46 36.2 15.0 59.8

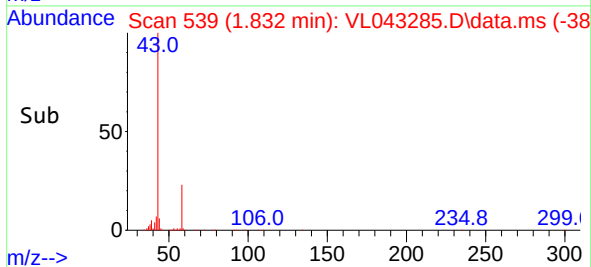
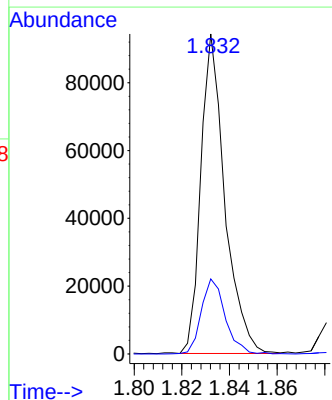
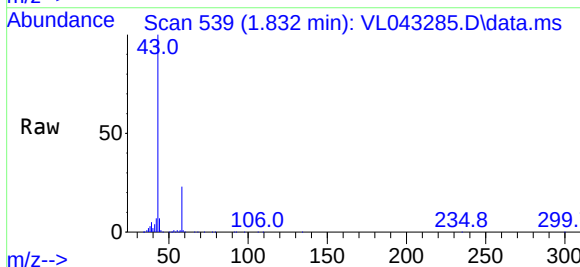
Manual Integrations
APPROVED

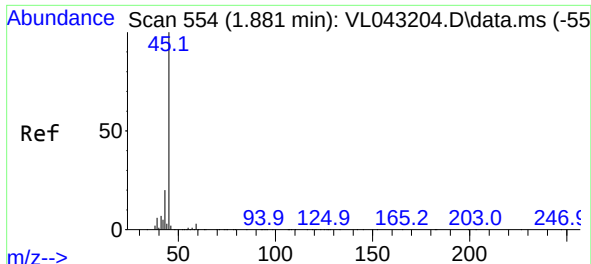
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#15
Acetone
Concen: 4.444 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Tgt Ion: 43 Resp: 65952
Ion Ratio Lower Upper
43 100
58 23.5 20.7 31.1





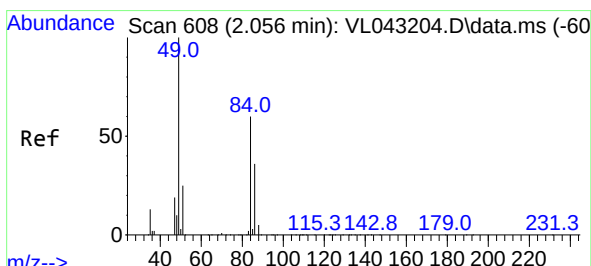
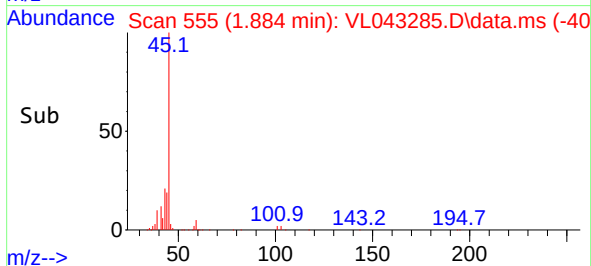
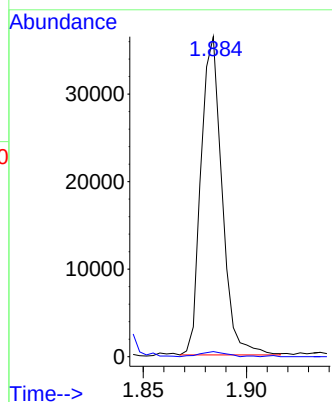
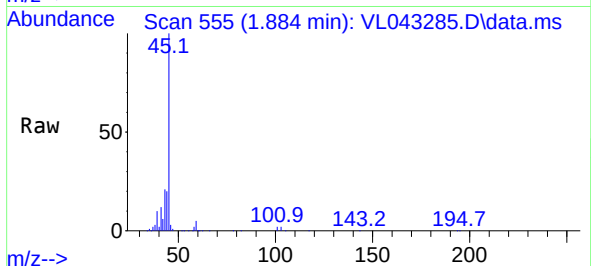
#19
Isopropyl Alcohol
Concen: 3.078 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 2581
Ion Ratio Lower Upper
45 100
58 60.0 31.3 46.9

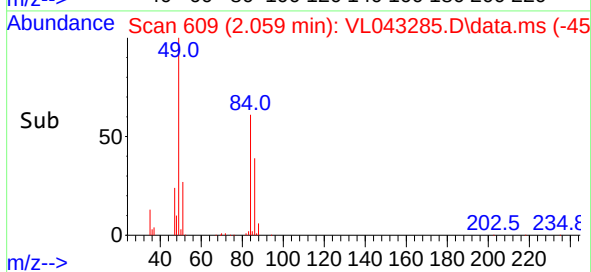
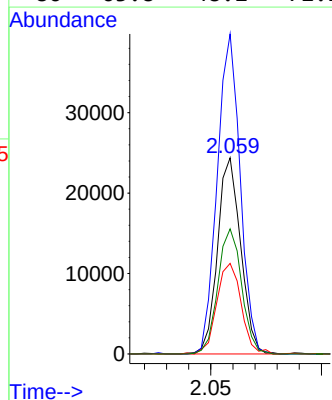
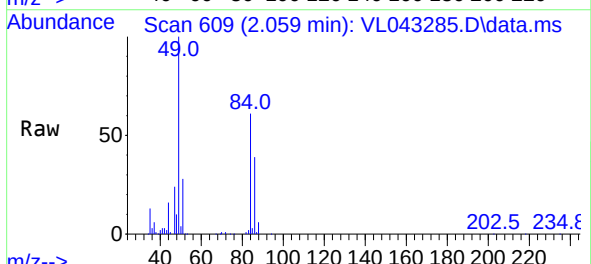
Manual Integrations
APPROVED

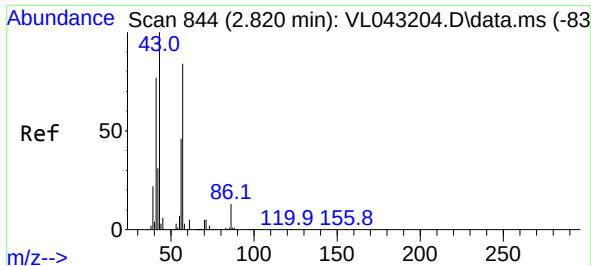
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#20
Methylene Chloride
Concen: 3.556 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

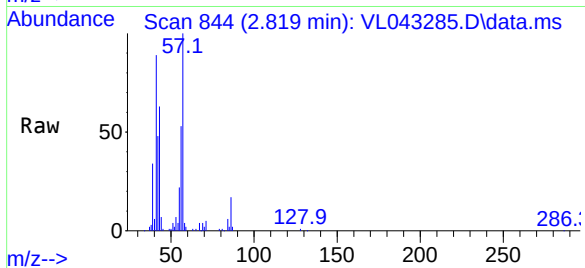
Tgt Ion: 84 Resp: 17762
Ion Ratio Lower Upper
84 100
49 163.1 132.9 199.3
51 46.1 34.8 52.2
86 63.8 48.2 72.2





#26
Hexane
Concen: 1.340 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

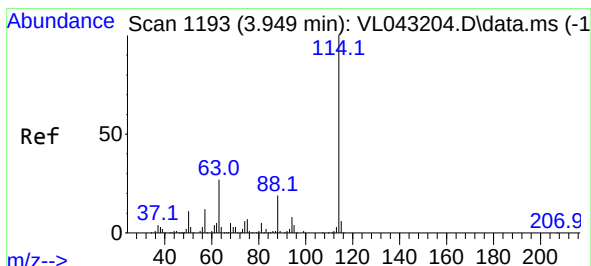
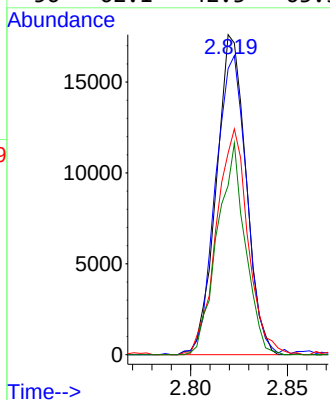
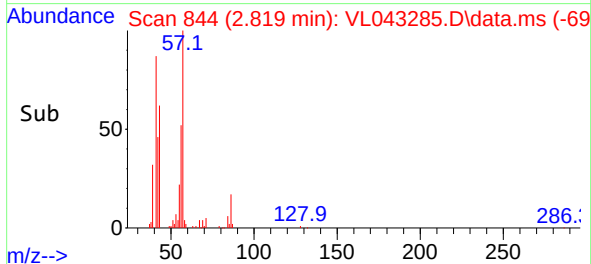
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 1880
Ion Ratio Lower Upper
57 100
41 99.8 74.6 111.8
43 75.0 179.0 268.4
56 62.1 42.3 63.5

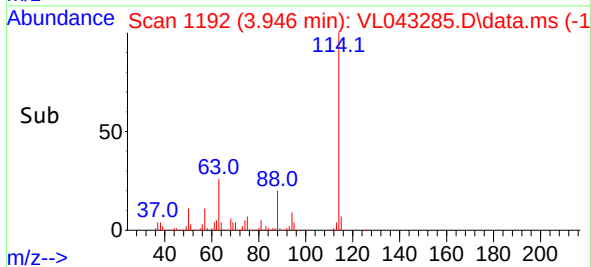
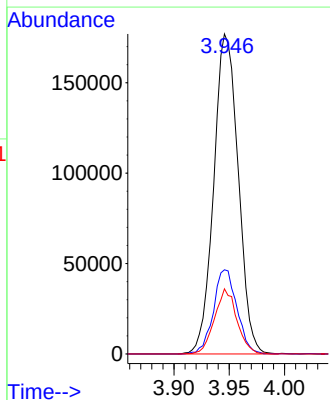
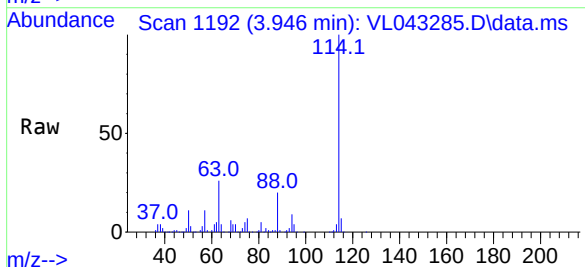
Manual Integrations
APPROVED

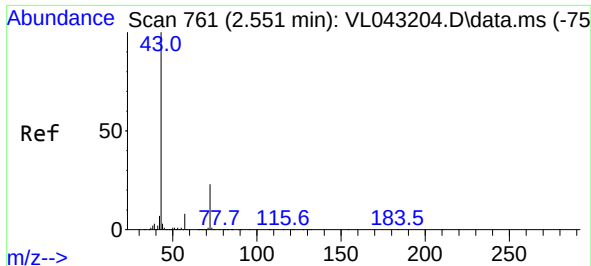
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.004 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

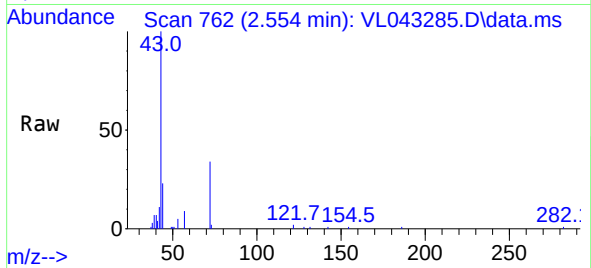
Tgt Ion:114 Resp: 272263
Ion Ratio Lower Upper
114 100
63 25.3 21.0 31.6
88 18.6 14.9 22.3





#34
2-Butanone
Concen: 0.298 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

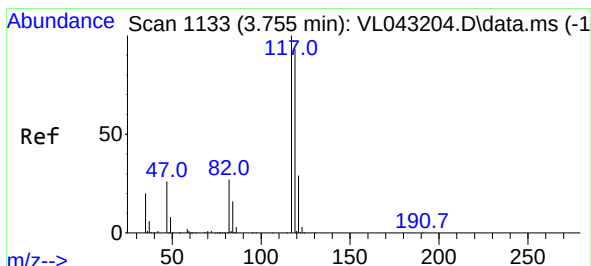
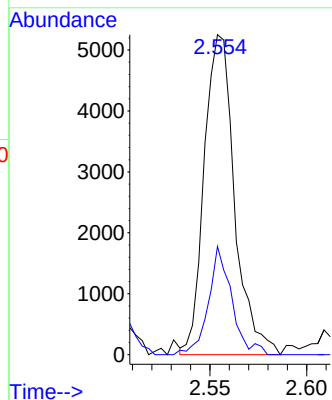
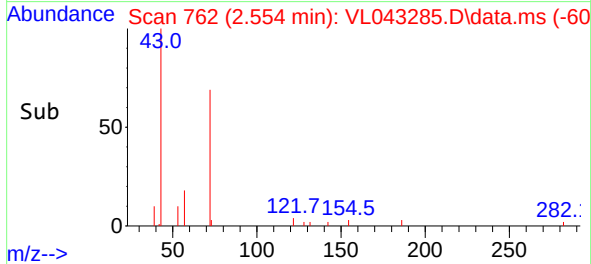
Instrument :
MSVOA_L
ClientSampleId :
OA1



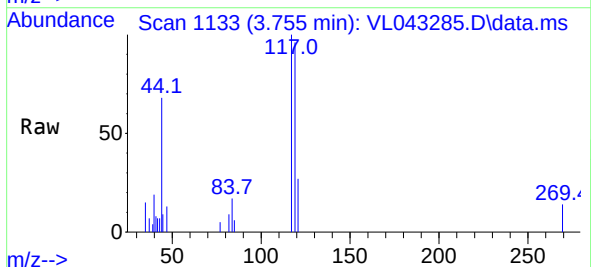
Tgt Ion: 43 Resp: 573
Ion Ratio Lower Upper
43 100
72 26.0 18.1 27.1

Manual Integrations
APPROVED

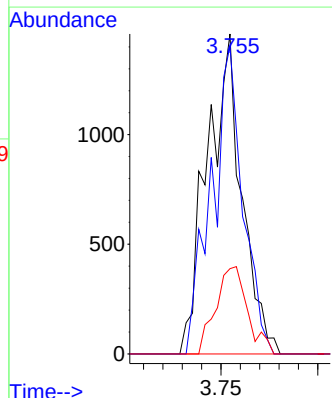
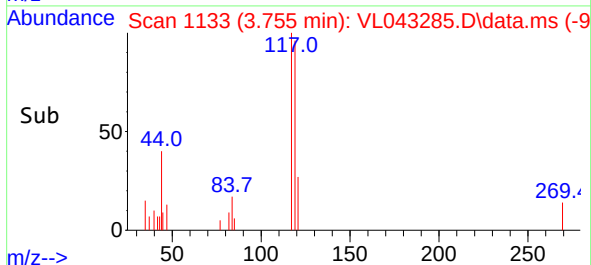
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

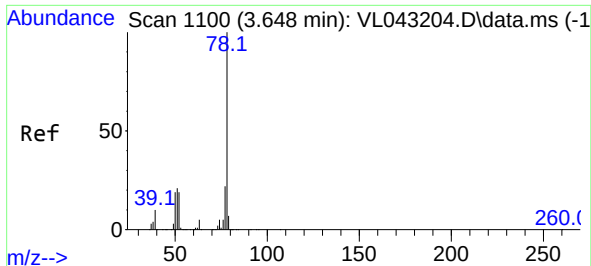


#35
Carbon Tetrachloride
Concen: 0.087 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43



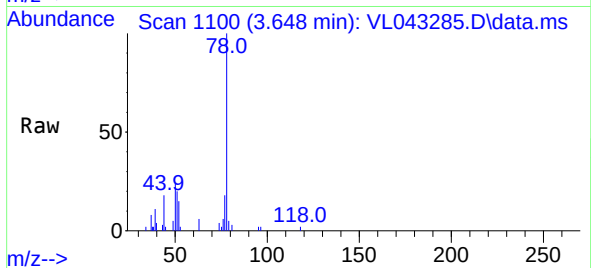
Tgt Ion:117 Resp: 1807
Ion Ratio Lower Upper
117 100
119 96.2 74.6 112.0
121 26.7 23.2 34.8





#36
Benzene
Concen: 0.223 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

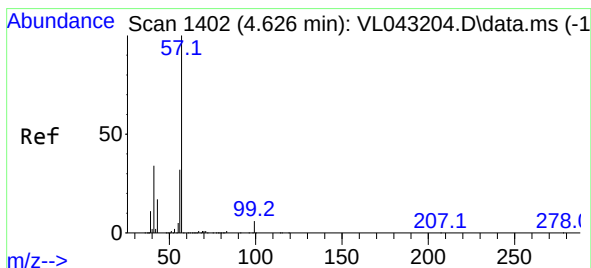
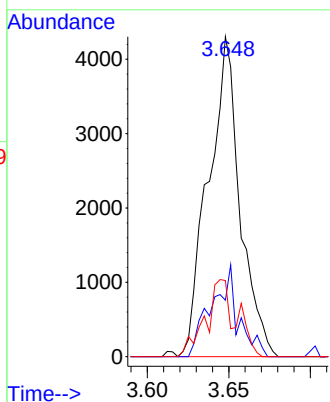
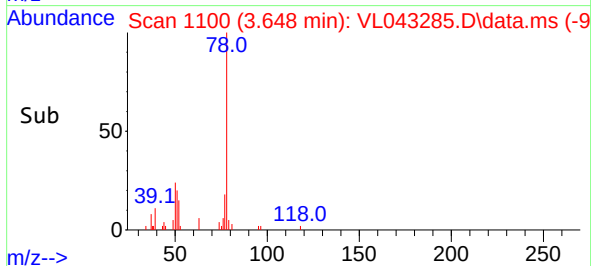
Instrument :
MSVOA_L
ClientSampleId :
OA1



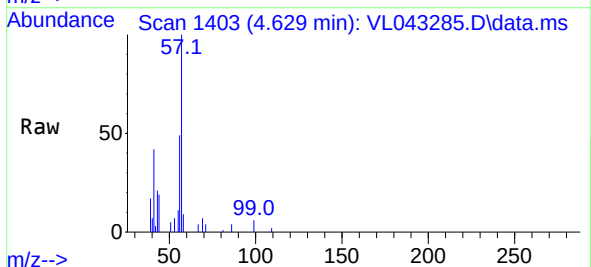
Tgt Ion: 78 Resp: 5800
Ion Ratio Lower Upper
78 100
77 17.7 17.5 26.3
50 23.8 15.5 23.3

Manual Integrations
APPROVED

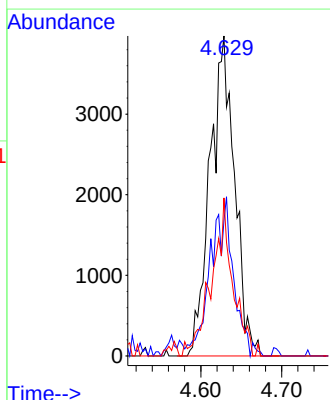
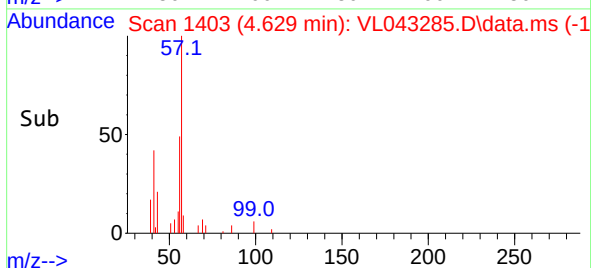
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

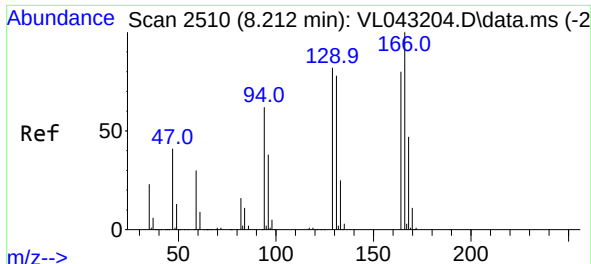


#44
2,2,4-Trimethylpentane
Concen: 0.187 ppbv m
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43



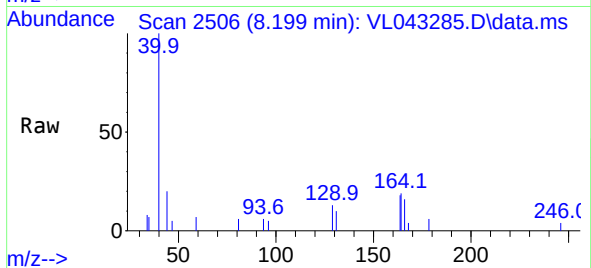
Tgt Ion: 57 Resp: 8356
Ion Ratio Lower Upper
57 100
41 50.6 28.0 42.0#
56 42.5 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.068 ppbv m
RT: 8.199 min Scan# 2109
Delta R.T. -0.013 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

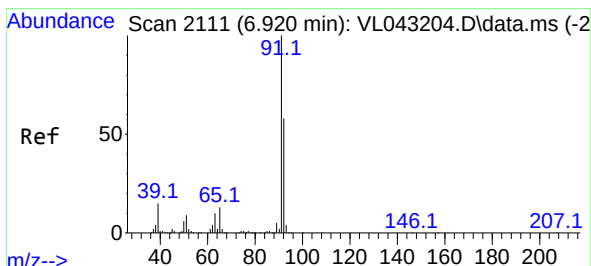
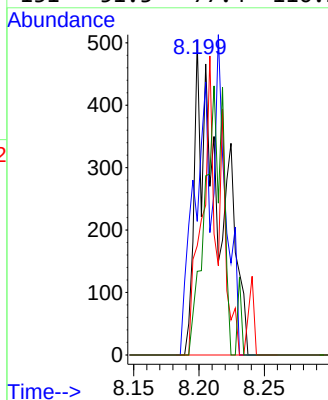
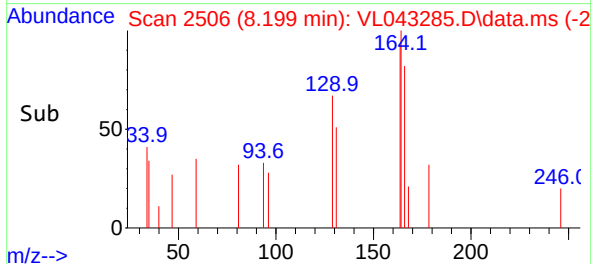
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:164 Resp: 658
Ion Ratio Lower Upper
164 100
166 82.0 99.4 149.2
129 67.0 81.8 122.8
131 51.3 77.4 116.2

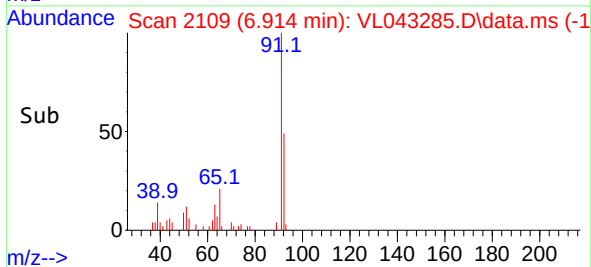
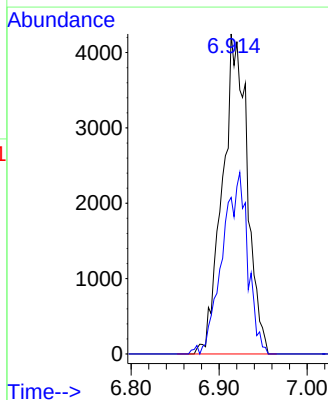
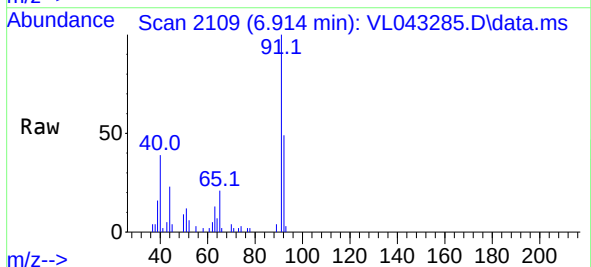
Manual Integrations
APPROVED

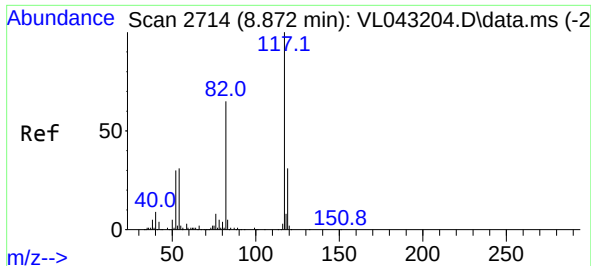
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#53
Toluene
Concen: 0.270 ppbv m
RT: 6.914 min Scan# 2109
Delta R.T. -0.007 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Tgt Ion: 91 Resp: 8340
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0





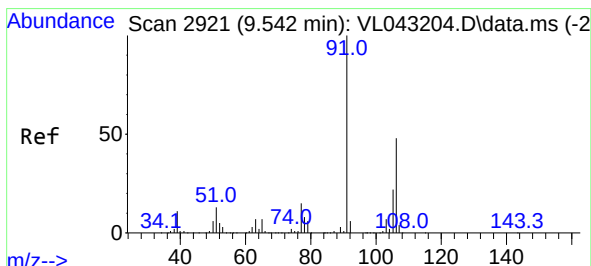
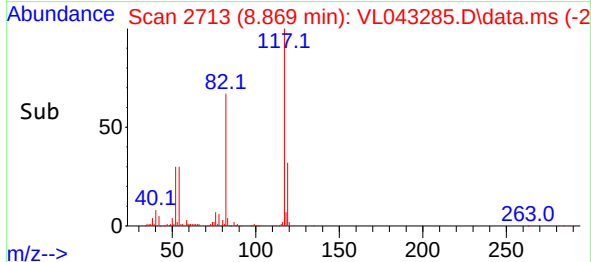
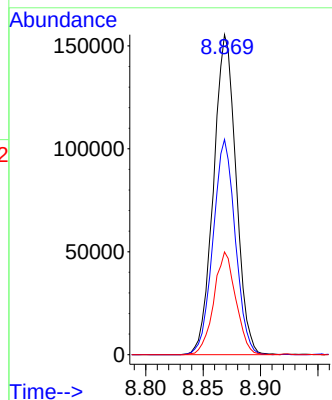
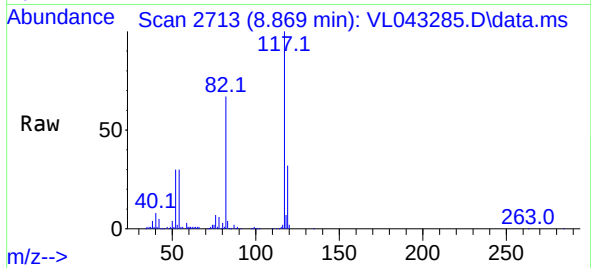
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21204
Delta R.T. -0.004 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:117 Resp: 21204
Ion Ratio Lower Upper
117 100
82 66.4 56.1 84.1
119 31.5 25.0 37.6

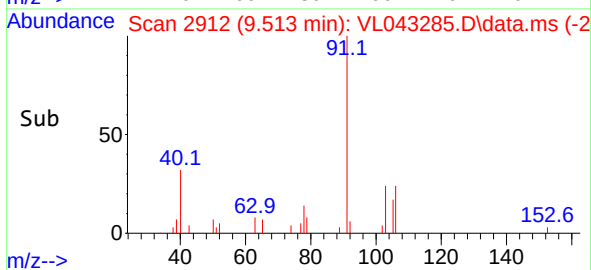
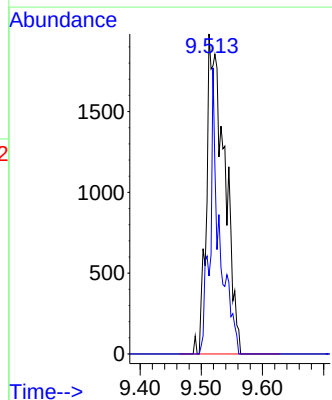
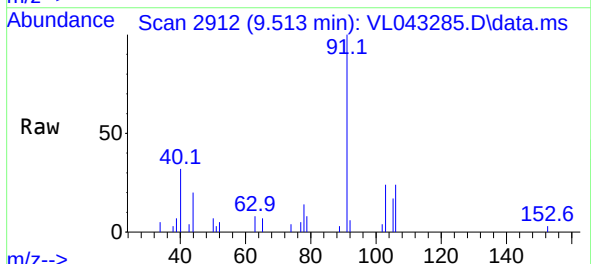
Manual Integrations
APPROVED

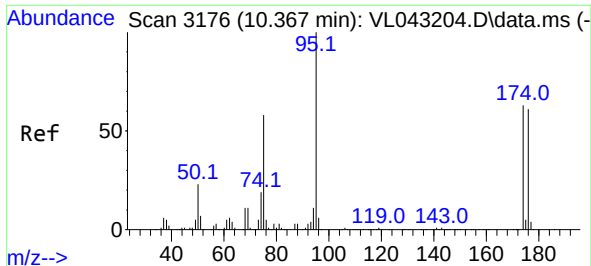
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#59
m/p-Xylene
Concen: 0.123 ppbv m
RT: 9.513 min Scan# 2912
Delta R.T. -0.029 min
Lab File: VL043285.D
Acq: 24 Nov 2025 16:43

Tgt Ion: 91 Resp: 4019
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





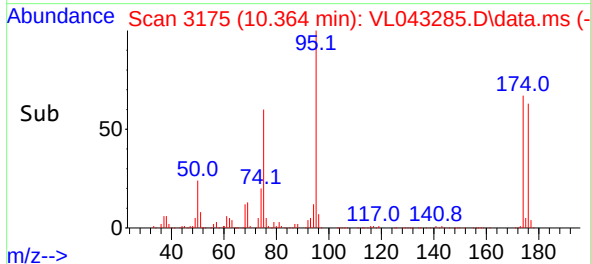
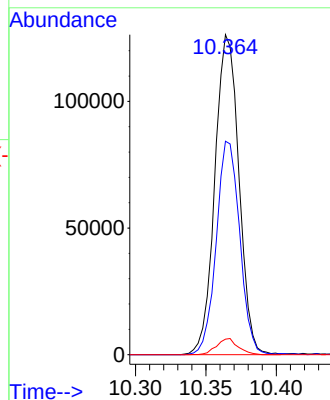
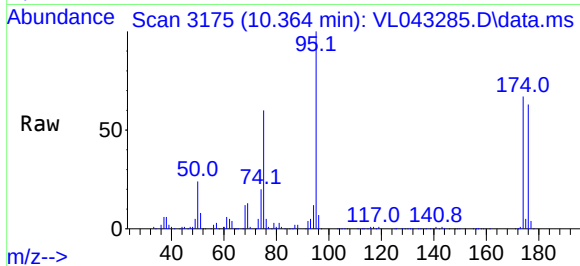
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.660 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. -0.004 min
 Lab File: VL043285.D
 Acq: 24 Nov 2025 16:43

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 95 Resp: 150154
 Ion Ratio Lower Upper
 95 100
 174 65.4 50.2 75.2
 175 4.5 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: IA1DUP
Lab Sample ID: Q3696-02DUP
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/24/25
Date Received: 11/24/25
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/24/25 15:00	VL112425
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/24/25 15:00	VL112425
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/24/25 15:00	VL112425
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/24/25 15:00	VL112425
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/24/25 15:00	VL112425
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/24/25 15:00	VL112425
540-84-1	2,2,4-Trimethylpentane	0.25	1.17	J	1	0.65	2.34	11/24/25 15:00	VL112425
71-43-2	Benzene	0.35	1.12	J	1	0.26	1.60	11/24/25 15:00	VL112425
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/24/25 15:00	VL112425
108-88-3	Toluene	0.47	1.77	J	1	0.60	1.88	11/24/25 15:00	VL112425
127-18-4	Tetrachloroethene	0.13	0.88		1	0.14	0.20	11/24/25 15:00	VL112425
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/24/25 15:00	VL112425
179601-23-1	m/p-Xylene	0.58	2.52	J	1	1.78	4.34	11/24/25 15:00	VL112425
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/24/25 15:00	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 15:00	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 15:00	VL112425
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/24/25 15:00	VL112425
110-54-3	Hexane	0.72	2.54		1	0.56	1.76	11/24/25 15:00	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.1				65 - 135	101% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	106000							
540-36-3	1,4-Difluorobenzene	280000							
3114-55-4	Chlorobenzene-d5	214000							

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GFEL01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3696</u>
Instrument ID: <u>MSVOA_L</u>	Calibration Date(s): <u>11/18/2025</u> <u>11/18/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>09:29</u> <u>13:24</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	

LAB FILE ID:		RRF0.5 = VL043203.D		RRF010 = VL043204.D		RRF002 = VL043205.D		
		RRF001 = VL043206.D		RRF0.1 = VL043208.D		RRF.03 = VL043209.D		
COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.533	0.486	0.575	0.580	0.655	0.724	0.577	15.3
Heptane	2.106	1.604	1.728	1.804			1.753	12.9
1,1-Dichloroethane	1.050	1.018	1.194	1.173			1.096	7.4
Cyclohexane	1.135	1.024	1.130	1.194			1.101	6.8
cis-1,2-Dichloroethene	1.399	1.240	1.322	1.351			1.306	5.8
1,1,1-Trichloroethane	1.971	1.884	2.033	2.018	2.046	2.116	1.990	4.5
2,2,4-Trimethylpentane	1.746	1.555	1.621	1.765			1.645	6.5
Benzene	0.996	0.905	0.986	1.001			0.958	5.3
Trichloroethene	0.390	0.353	0.371	0.388	0.475	0.293	0.375	14.6
Toluene	1.198	1.075	1.146	1.182			1.134	5.3
Tetrachloroethene	0.344	0.329	0.349	0.362	0.424	0.363	0.356	9.4
Ethyl Benzene	1.927	1.821	2.008	2.038			1.925	5.2
m/p-Xylene	1.618	1.434	1.607	1.611			1.543	6.1
o-Xylene	1.584	1.419	1.659	1.625			1.542	7.4
1,3,5-Trimethylbenzene	1.623	1.456	1.662	1.682			1.575	7.1
1,2,4-Trimethylbenzene	1.796	1.548	1.871	1.844			1.719	9.5
Naphthalene	1.483	1.496	1.860	1.599	1.230		1.527	13.4
1-Bromo-4-Fluorobenzene	0.729	0.735	0.741	0.733	0.725	0.712	0.733	1.9
Hexane	1.374	1.235	1.375	1.424			1.314	8.4

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

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

Method File : VL111825AIR.M

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

Last Update : Wed Nov 19 01:11:25 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL043209.D 0.1 =VL043208.D 0.5 =VL043203.D 1 =VL043206.D 2 =VL043205.D 10 =VL043204.D 15 =VL043210.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.398	1.505	1.476	1.340	1.334	1.410	5.53
3) Chlorodifluoro...			1.545	1.404	1.437	1.317	1.231	1.387	8.60
4) Chloromethane			0.521	0.559	0.568	0.498	0.489	0.527	6.72
5) T Vinyl Chloride	0.724	0.655	0.533	0.580	0.575	0.486	0.483	0.577	15.33
6) T Bromomethane			0.300	0.302	0.286	0.253	0.258	0.280	8.30
7) Chloroethane			0.246	0.248	0.236	0.194	0.199	0.225	11.59
8) T Dichlorotetra...			1.156	1.241	1.262	1.091	1.116	1.173	6.43
9) T Propene			0.677	0.598	0.621	0.501	0.548	0.589	11.44
10) T Heptane			2.106	1.804	1.728	1.604	1.522	1.753	12.87
11) T Trichlorofluor...			1.238	1.515	1.487	1.240	1.352	1.367	9.62
12) T 1,1,2-Trichlor...			1.061	1.142	1.115	0.987	1.029	1.067	5.92
13) Ethanol			0.215	0.231	0.252	0.166	0.172	0.207	17.99
14) T Bromoethene			0.448	0.423	0.436	0.362	0.376	0.409	9.29
15) T Acetone			1.721	1.591	1.519	1.032	1.085	1.389	22.41
16) T 1,3-Butadiene			0.745	0.629	0.626	0.551	0.546	0.619	13.01
17) tert-Butyl alc...			1.784	2.014	1.880	1.705	1.735	1.824	6.87
18) T 1,1-Dichloroet...			0.555	0.530	0.515	0.441	0.443	0.497	10.52
19) T Isopropyl Alcohol			0.848	0.861	0.823	0.684	0.709	0.785	10.51
20) T Methylene Chlo...			0.906	0.710	0.585	0.398	0.403	0.600	35.87
21) T Allyl Chloride			1.139	0.895	0.936	0.849	0.855	0.935	12.75
22) T trans-1,2-Dich...			0.605	0.614	0.599	0.499	0.521	0.568	9.39
23) T Vinyl Acetate			1.885	1.632	1.682	1.622	1.565	1.677	7.36
24) T 1,1-Dichloroet...			1.050	1.173	1.194	1.018	1.044	1.096	7.42
25) T Ethyl Acetate			3.371	3.123	3.074	2.759	2.655	2.996	9.68
26) T Hexane			1.374	1.424	1.375	1.235	1.161	1.314	8.44
27) T Carbon Disulfide			1.303	1.424	1.432	1.257	1.291	1.341	6.03
28) T Methyl tert-Bu...			0.642	0.704	0.674	0.591	0.614	0.645	7.02
29) T Chloroform			1.955	1.898	1.928	1.785	1.770	1.867	4.52
30) T Cyclohexane			1.135	1.194	1.130	1.024	1.024	1.101	6.80
31) T cis-1,2-Dichlo...			1.399	1.351	1.322	1.240	1.217	1.306	5.83
32) T 1,1,1-Trichlor...	2.116	2.046	1.970	2.018	2.033	1.884	1.865	1.990	4.52

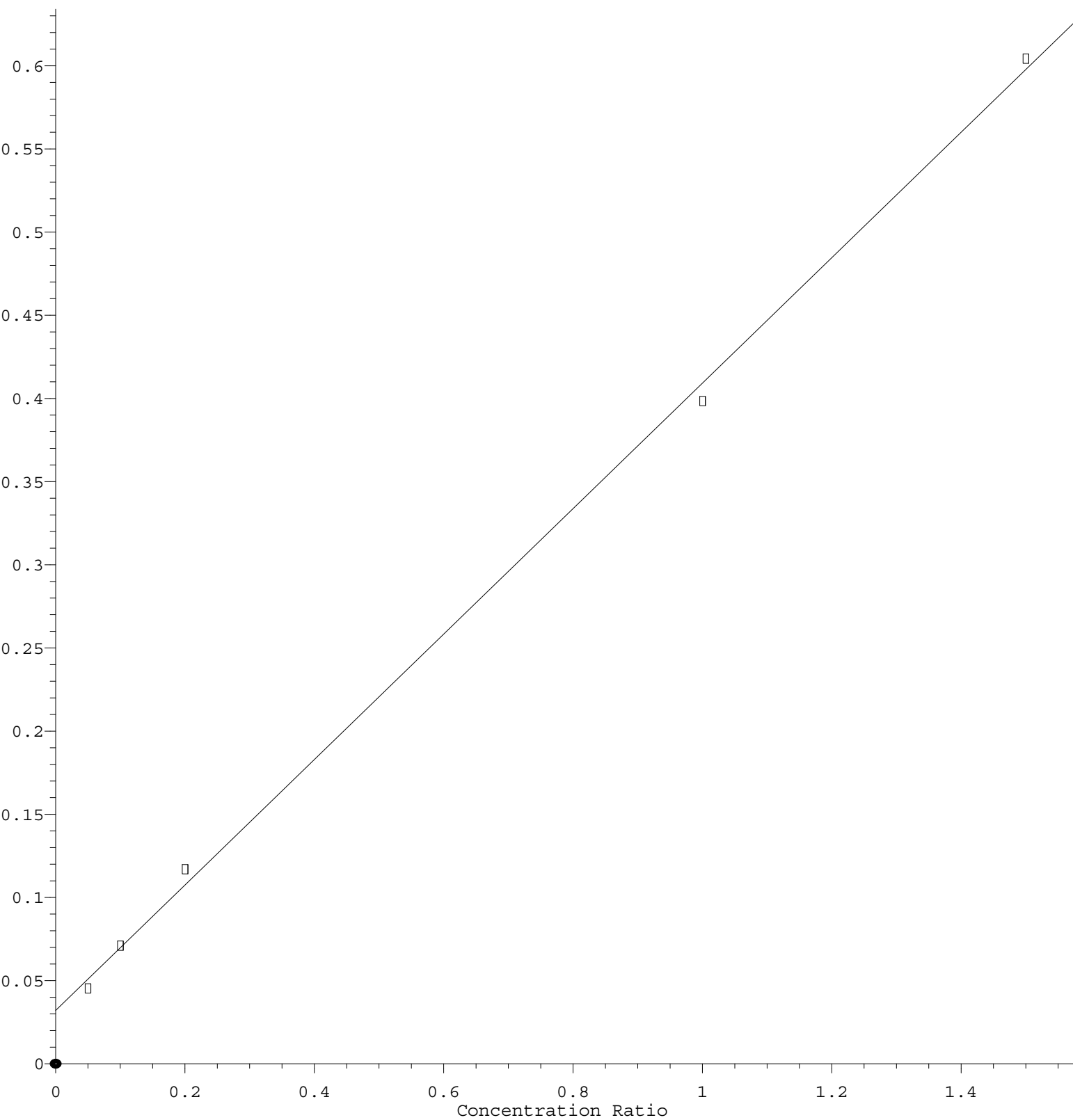
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.744	0.751	0.736	0.644	0.655	0.706	7.38
35) T Carbon Tetrach...	0.832	0.765	0.779	0.771	0.737	0.708	0.721	0.759	5.51
36) T Benzene			0.996	1.001	0.986	0.905	0.900	0.958	5.28
37) T 1,2-Dichloroet...			0.572	0.580	0.565	0.531	0.553	0.560	3.39
38) T Trichloroethene	0.293	0.475	0.390	0.388	0.371	0.353	0.353	0.375	14.65
39) T 1,2-Dichloropr...			0.372	0.364	0.350	0.335	0.332	0.351	4.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL111825AIR.M											
40)	T	1,4-Dioxane			0.180	0.166	0.155	0.142	0.144	0.158	10.04
41)	T	Tetrahydrofuran			0.418	0.401	0.402	0.367	0.360	0.390	6.32
42)	T	Bromodichlorom...			0.782	0.795	0.783	0.745	0.758	0.773	2.63
43)		Methyl Methacr...			0.576	0.532	0.511	0.462	0.462	0.508	9.55
44)	T	2,2,4-Trimethy...			1.746	1.765	1.621	1.555	1.537	1.645	6.47
45)	T	t-1,3-Dichloro...			0.495	0.472	0.489	0.455	0.458	0.474	3.79
46)	T	cis-1,3-Dichlo...			0.599	0.557	0.562	0.534	0.529	0.556	5.00
47)	T	1,1,2-Trichlor...			0.424	0.372	0.378	0.344	0.342	0.372	8.91
48)	T	Dibromochlorom...			0.629	0.666	0.663	0.618	0.621	0.640	3.63
49)	T	Bromoform			0.583	0.569	0.581	0.555	0.545	0.566	2.86
50)	T	4-Methyl-2-Pen...			1.025	1.061	1.027	0.946	0.914	0.994	6.19
51)	T	2-Hexanone			0.782	0.805	0.816	0.734	0.724	0.772	5.37
52)	T	Tetrachloroethene	0.363	0.424	0.344	0.362	0.349	0.329	0.323	0.356	9.37
53)	T	Toluene			1.198	1.182	1.146	1.075	1.069	1.134	5.26
54)	T	1,2-Dibromoethane		0.528	0.587	0.569	0.549	0.525	0.526	0.547	4.79
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.791	0.769	0.761	0.677	0.677	0.735	7.34
57)	T	Chlorobenzene			1.035	1.088	1.089	0.969	0.953	1.027	6.24
58)	T	Ethyl Benzene			1.927	2.038	2.008	1.821	1.830	1.925	5.16
59)	T	m/p-Xylene			1.618	1.611	1.607	1.434	1.446	1.543	6.12
60)	T	o-Xylene			1.584	1.625	1.659	1.419	1.421	1.542	7.42
61)	T	Styrene			0.669	0.690	0.719	0.648	0.647	0.675	4.54
62)		Isopropylbenzene			2.807	2.946	2.945	2.556	2.536	2.758	7.31
63)	T	1,1,2,2-Tetrac...	0.999	1.034	1.016	1.012	1.028	0.891	0.884	0.981	6.58
64)		n-propylbenzene			0.722	0.758	0.757	0.657	0.649	0.709	7.47
65)		tert-Butylbenzene			2.583	2.687	2.646	2.224	2.176	2.463	9.90
66)	T	Benzyl Chloride			0.275	0.251	0.257	0.241	0.225	0.250	7.36
67)		sec-Butylbenzene			3.588	3.728	3.697	3.108	3.070	3.438	9.40
68)	S	1-Bromo-4-Fluo...	0.712	0.725	0.729	0.733	0.741	0.735	0.757	0.733	1.90
69)		p-Isopropyltol...			2.994	3.070	3.197	2.660	2.641	2.912	8.58
70)		n-Butylbenzene			2.676	3.041	3.125	2.639	2.647	2.825	8.39
71)		2-Chlorotoluene			2.198	2.257	2.210	1.960	1.975	2.120	6.65
72)	T	4-Ethyltoluene			1.934	1.948	2.009	1.749	1.747	1.877	6.46
73)	T	1,3,5-Trimethy...			1.623	1.682	1.662	1.456	1.454	1.575	7.09
74)	T	1,2,4-Trimethy...			1.796	1.844	1.871	1.548	1.537	1.719	9.51
75)	T	1,3-Dichlorobe...			1.043	1.053	1.061	0.937	0.922	1.003	6.78
76)	T	1,4-Dichlorobe...			1.056	1.033	1.060	0.940	0.930	1.003	6.34
77)	T	1,2-Dichlorobe...			0.974	1.064	1.050	0.872	0.863	0.965	9.83
78)	T	Hexachloro-1,3...			0.854	0.899	0.920	0.686	0.666	0.805	14.94
79)	T	Naphthalene		1.230	1.483	1.599	1.860	1.496	1.493	1.527	13.35
80)	T	Naphthalene,2-...			0.397	0.323	0.448	0.397	0.439	0.401	12.30
81)	T	1,2,4-Trichlor...			0.549	0.692	0.813	0.678	0.682	0.683	13.72

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 3.773\text{e-}001 * \text{Amt} + 3.213\text{e-}002$$

Coef of Det (r^2) = 0.998825 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL11825AIR.M

Calibration Table Last Updated: Wed Nov 19 01:11:25 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043203.D
 Acq On : 18 Nov 2025 09:29
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:48:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	110490	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	296493	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	247761	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 180529 9.941 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	7723	0.496	ppbv	99
3) Chlorodifluoromethane	1.473	51	8538	0.557	ppbv #	82
4) Chloromethane	1.531	50	2881	0.494	ppbv	94
5) Vinyl Chloride	1.580	62	2947	0.462	ppbv #	87
6) Bromomethane	1.667	94	1656	0.536	ppbv	97
7) Chloroethane	1.703	64	1357	0.547	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	6386	0.493	ppbv	100
9) Propene	1.483	41	3739	0.526	ppbv #	1
10) Heptane	4.972	43	11637m	0.597	ppbv	
11) Trichlorofluoromethane	1.878	101	6841	0.453	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	5863	0.497	ppbv	99
13) Ethanol	1.719	45	1190	0.520	ppbv	64
14) Bromoethene	1.781	108	2476	0.548	ppbv #	75
15) Acetone	1.836	43	9506	0.619	ppbv #	88
16) 1,3-Butadiene	1.606	39	4115	0.601	ppbv	95
17) tert-Butyl alcohol	2.043	59	9854	0.489	ppbv #	68
18) 1,1-Dichloroethene	2.033	96	3068	0.559	ppbv	96
19) Isopropyl Alcohol	1.887	45	4687	0.540	ppbv #	51
20) Methylene Chloride	2.059	84	5006	0.349	ppbv	92
21) Allyl Chloride	2.095	41	6291	0.609	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	3343	0.533	ppbv	80
23) Vinyl Acetate	2.464	43	10414	0.562	ppbv #	92
24) 1,1-Dichloroethane	2.409	63	5803	0.479	ppbv #	96
25) Ethyl Acetate	2.839	43	18625m	0.562	ppbv	
26) Hexane	2.823	57	7589	0.523	ppbv #	91
27) Carbon Disulfide	2.150	76	7198	0.486	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3545	0.498	ppbv #	15
29) Chloroform	2.849	83	10800	0.523	ppbv	95
30) Cyclohexane	3.849	84	6271	0.515	ppbv	85
31) cis-1,2-Dichloroethene	2.719	61	7728	0.536	ppbv	87
32) 1,1,1-Trichloroethane	3.363	97	10886	0.490	ppbv	98
34) 2-Butanone	2.557	43	11026	0.527	ppbv	95
35) Carbon Tetrachloride	3.761	117	11551	0.513	ppbv	94
36) Benzene	3.655	78	14759	0.520	ppbv #	91
37) 1,2-Dichloroethane	3.218	62	8477	0.510	ppbv #	93
38) Trichloroethene	4.542	130	5775	0.519	ppbv #	87
39) 1,2-Dichloropropane	4.312	63	5510	0.530	ppbv #	80
40) 1,4-Dioxane	4.597	88	2675m	0.573	ppbv	
41) Tetrahydrofuran	3.059	42	6193	0.536	ppbv	95
42) Bromodichloromethane	4.490	83	11597	0.506	ppbv #	84
43) Methyl Methacrylate	4.881	69	8534m	0.566	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	25890	0.531	ppbv	95
45) t-1,3-Dichloropropene	6.412	75	7343	0.523	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043203.D
 Acq On : 18 Nov 2025 09:29
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:48:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

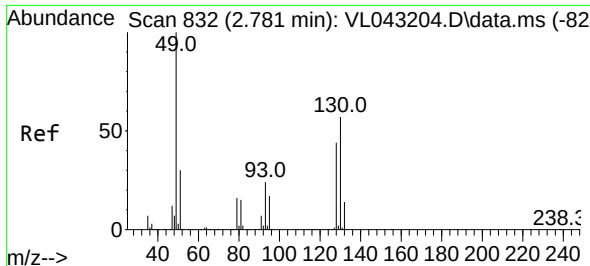
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

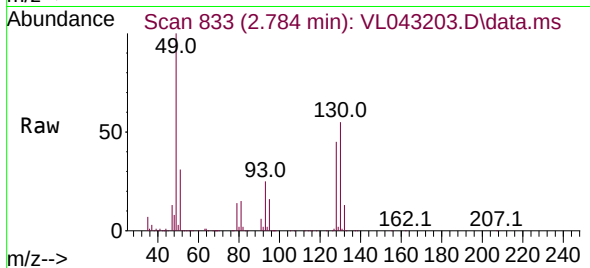
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8886m	0.539	ppbv	
47) 1,1,2-Trichloroethane	6.581	97	6280m	0.567	ppbv	
48) Dibromochloromethane	7.380	129	9327	0.492	ppbv	97
49) Bromoform	9.481	173	8636	0.514	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	15190	0.515	ppbv	92
51) 2-Hexanone	7.442	43	11594	0.506	ppbv #	93
52) Tetrachloroethene	8.218	164	5097	0.483	ppbv #	82
53) Toluene	6.924	91	17755m	0.525	ppbv	
54) 1,2-Dibromoethane	7.649	107	8708	0.537	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.917	131	9793m	0.538	ppbv	
57) Chlorobenzene	8.917	112	12818	0.504	ppbv	98
58) Ethyl Benzene	9.351	91	23866	0.500	ppbv	96
59) m/p-Xylene	9.526	91	40076m	1.044	ppbv	
60) o-Xylene	9.956	91	19621	0.514	ppbv	100
61) Styrene	9.869	104	8287	0.496	ppbv	96
62) Isopropylbenzene	10.536	105	34773	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	12591	0.519	ppbv	100
64) n-propylbenzene	10.986	120	8945	0.509	ppbv	100
65) tert-Butylbenzene	11.526	119	31998	0.524	ppbv	99
66) Benzyl Chloride	11.610	91	3403	0.550	ppbv	98
67) sec-Butylbenzene	11.766	105	44448	0.522	ppbv	97
69) p-Isopropyltoluene	11.921	119	37087	0.514	ppbv	100
70) n-Butylbenzene	12.277	91	33153	0.474	ppbv	94
71) 2-Chlorotoluene	10.895	91	27224	0.518	ppbv	99
72) 4-Ethyltoluene	11.122	105	23963	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	20104	0.515	ppbv	99
74) 1,2,4-Trimethylbenzene	11.533	105	22254	0.522	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	12926	0.520	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	13076	0.526	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	12069	0.505	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	10578	0.530	ppbv	98
79) Naphthalene	13.513	128	18377	0.486	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	4917	0.495	ppbv	91
81) 1,2,4-Trichlorobenzene	13.439	180	6798	0.402	ppbv	97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

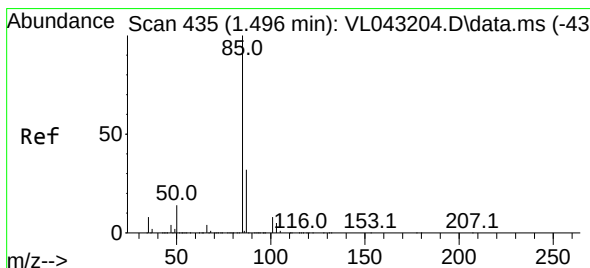
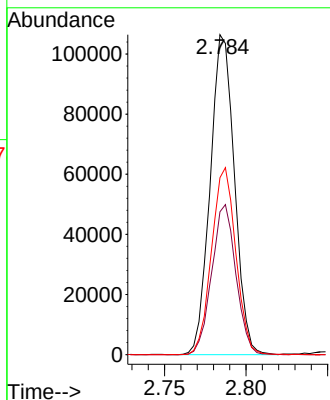
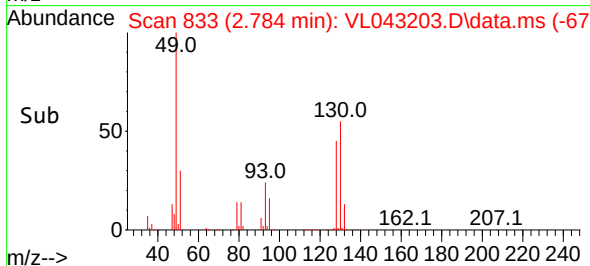
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



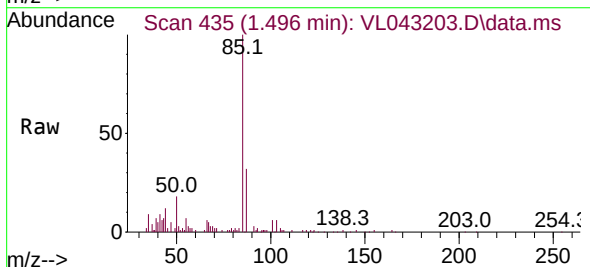
Tgt Ion: 49 Resp: 110490
Ion Ratio Lower Upper
49 100
128 46.6 23.0 69.0
130 58.4 29.9 89.7

Manual Integrations
APPROVED

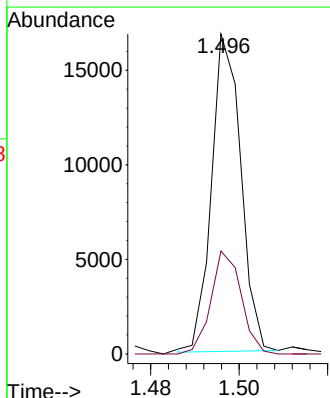
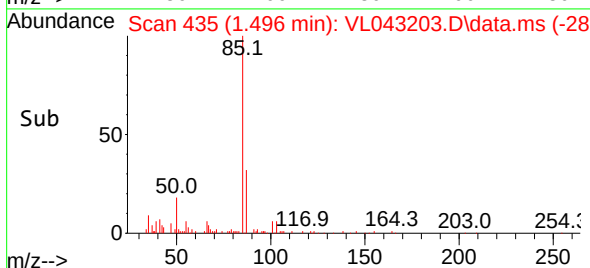
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

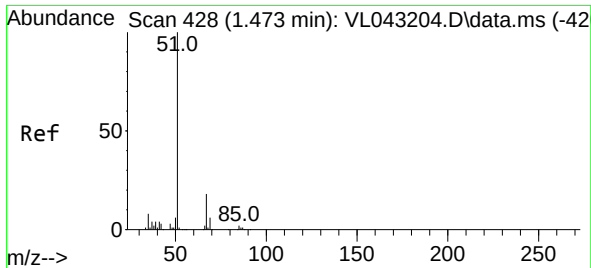


#2
Dichlorodifluoromethane
Concen: 0.496 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29



Tgt Ion: 85 Resp: 7723
Ion Ratio Lower Upper
85 100
87 32.5 25.4 38.2





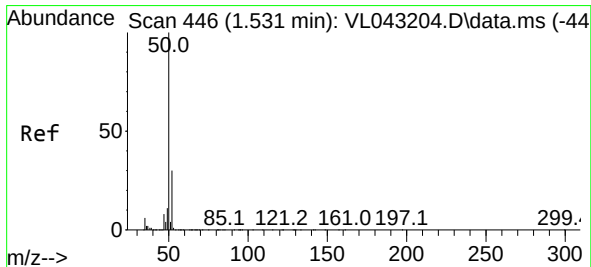
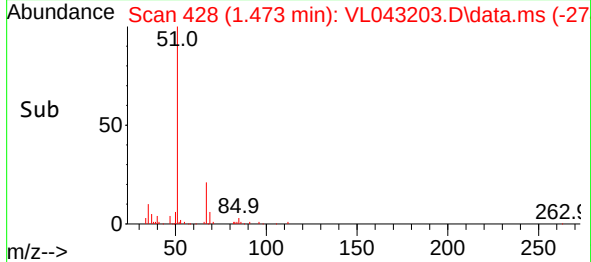
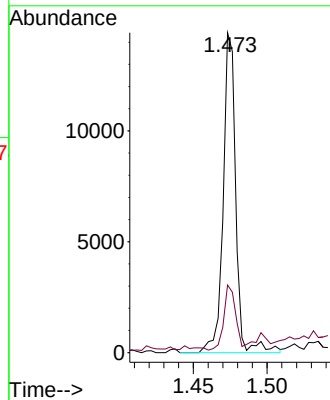
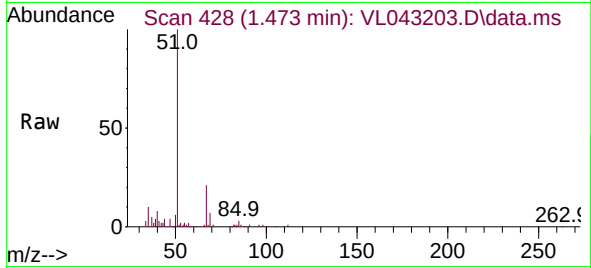
#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 8538
Ion Ratio Lower Upper
51 100
67 26.4 14.9 22.3

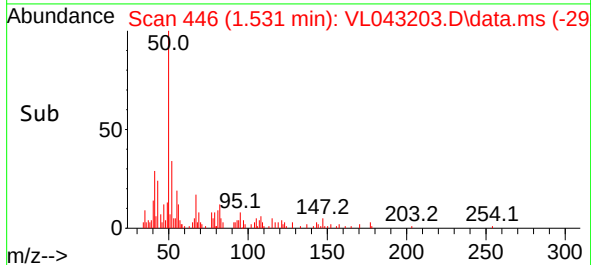
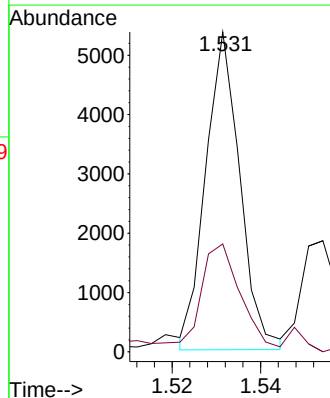
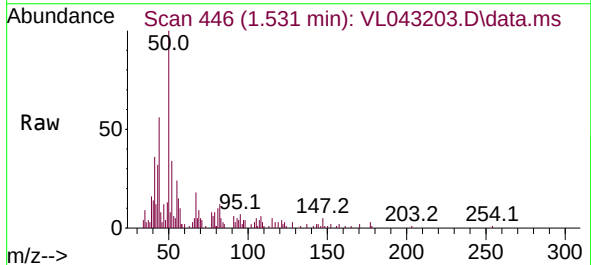
Manual Integrations
APPROVED

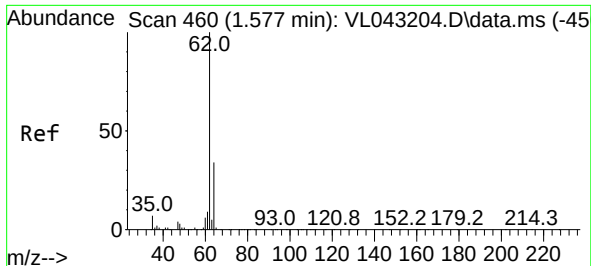
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.494 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

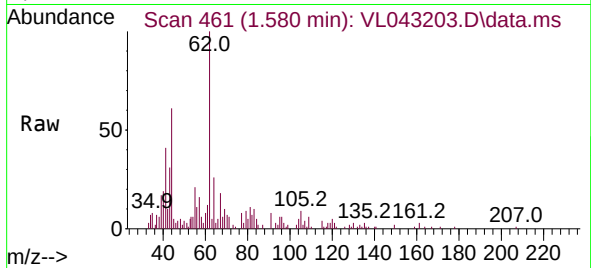
Tgt Ion: 50 Resp: 2881
Ion Ratio Lower Upper
50 100
52 33.5 24.1 36.1





#5
 Vinyl Chloride
 Concen: 0.462 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

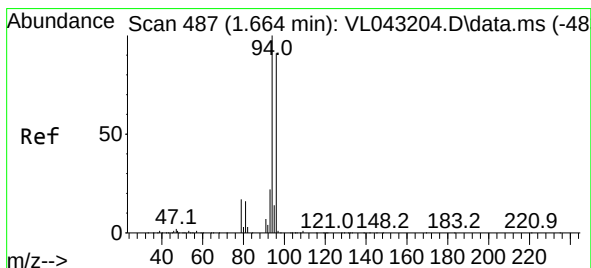
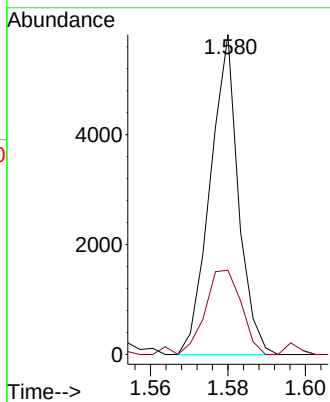
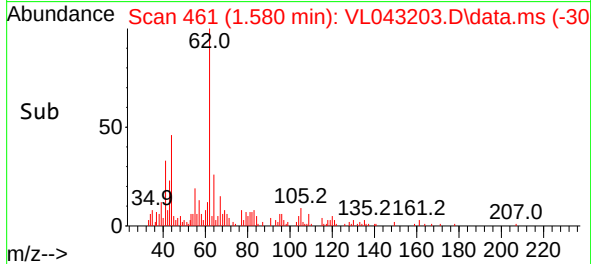
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 62 Resp: 2947
 Ion Ratio Lower Upper
 62 100
 64 26.4 27.3 40.9

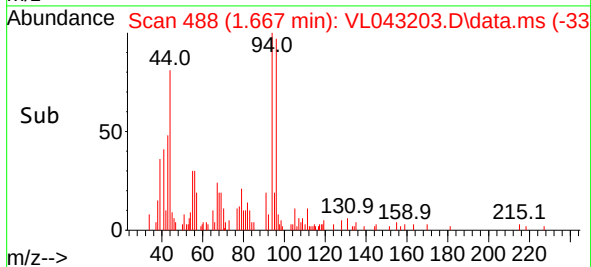
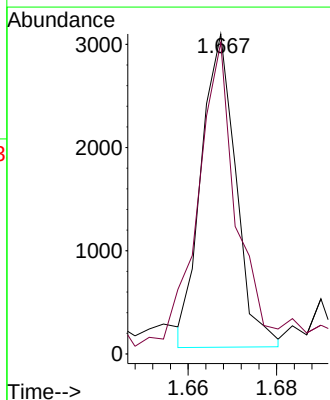
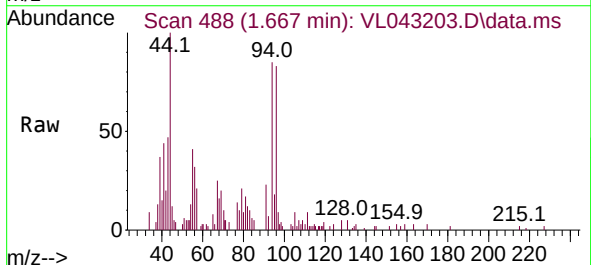
Manual Integrations
 APPROVED

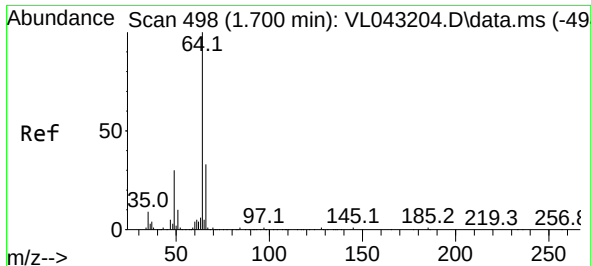
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#6
 Bromomethane
 Concen: 0.536 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

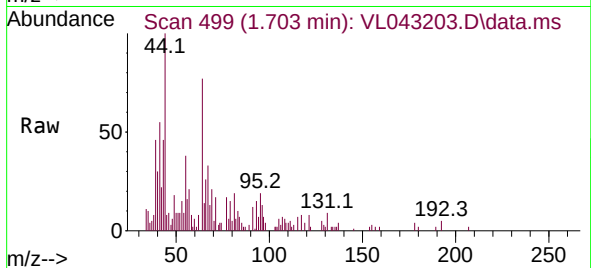
Tgt Ion: 94 Resp: 1656
 Ion Ratio Lower Upper
 94 100
 96 93.9 72.9 109.3





#7
Chloroethane
Concen: 0.547 ppbv
RT: 1.703 min Scan# 498
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

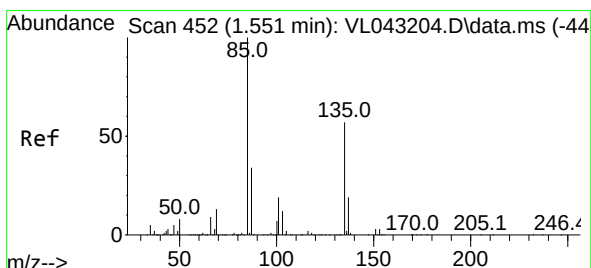
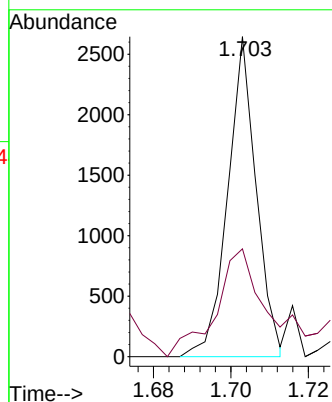
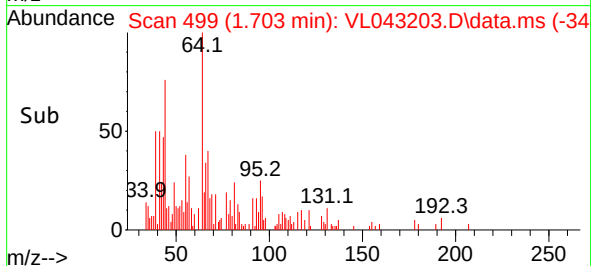
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



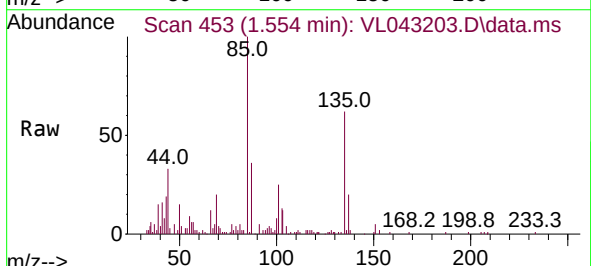
Tgt Ion: 64 Resp: 1352
Ion Ratio Lower Upper
64 100
66 33.7 26.8 40.2

Manual Integrations
APPROVED

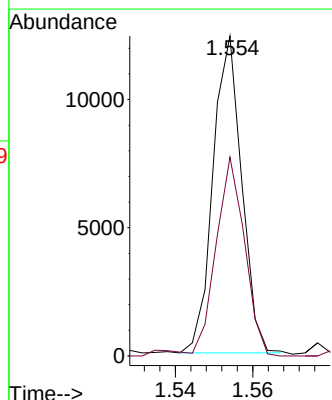
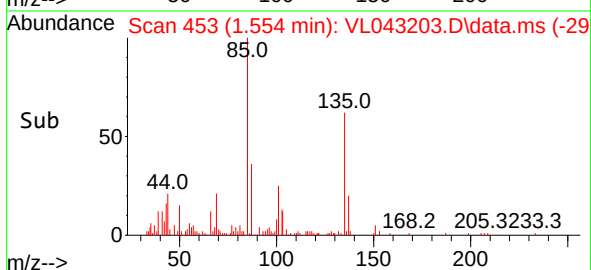
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

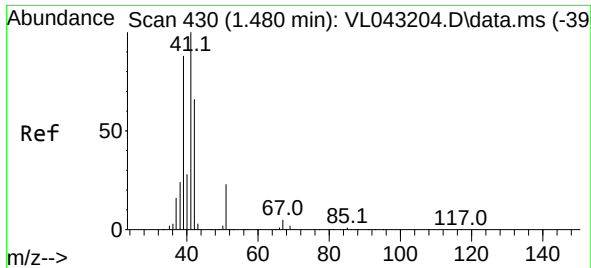


#8
Dichlorotetrafluoroethane
Concen: 0.493 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29



Tgt Ion: 85 Resp: 6386
Ion Ratio Lower Upper
85 100
135 65.8 52.6 79.0





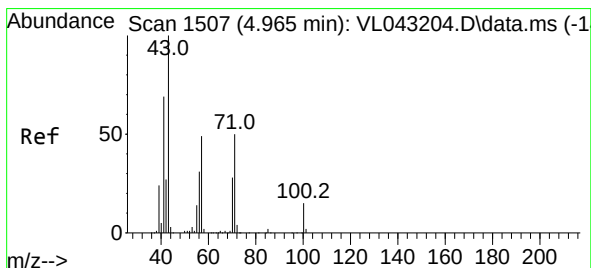
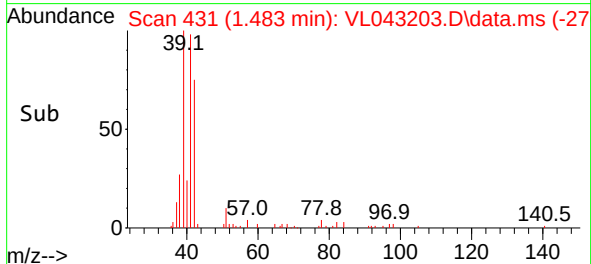
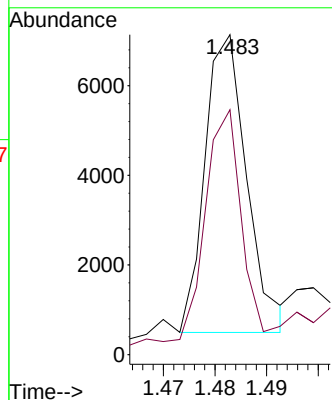
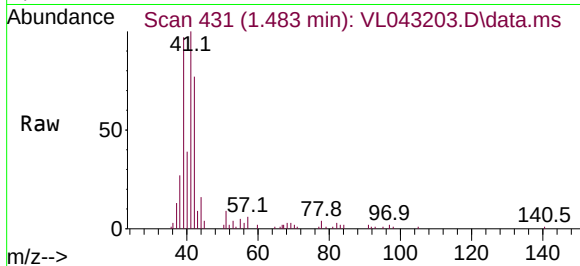
#9
 Propene
 Concen: 0.526 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 41 Resp: 3739
 Ion Ratio Lower Upper
 41 100
 42 121.9 3.7 5.5

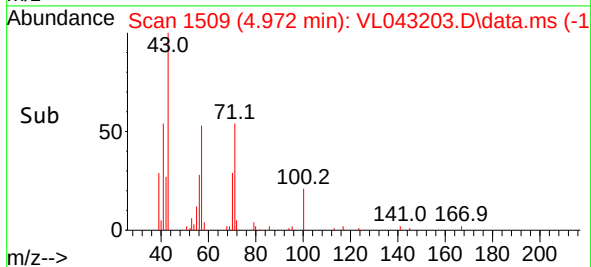
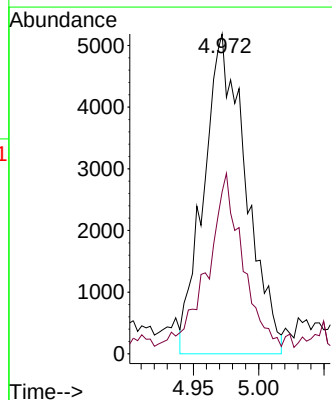
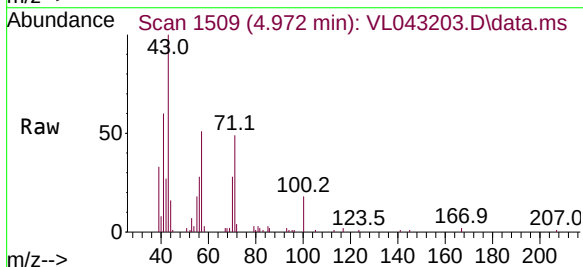
Manual Integrations
 APPROVED

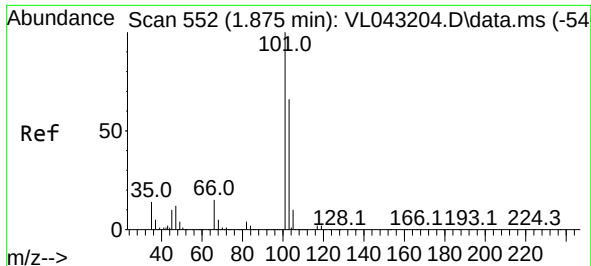
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 0.597 ppbv m
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.007 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

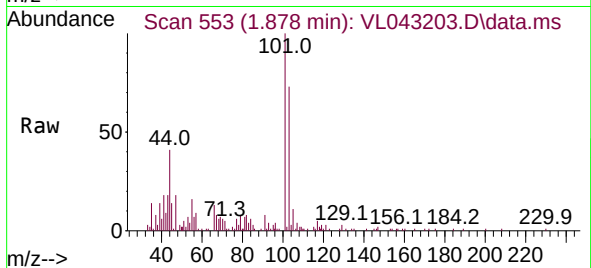
Tgt Ion: 43 Resp: 11637
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.453 ppbv
RT: 1.878 min Scan# 551
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

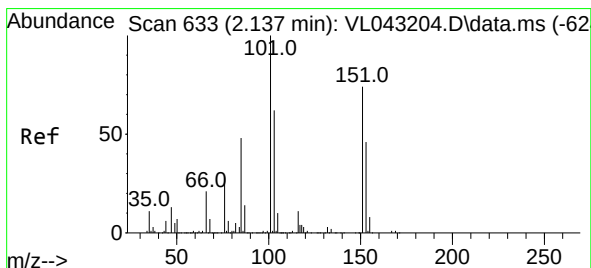
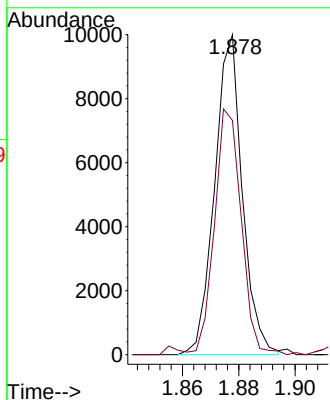
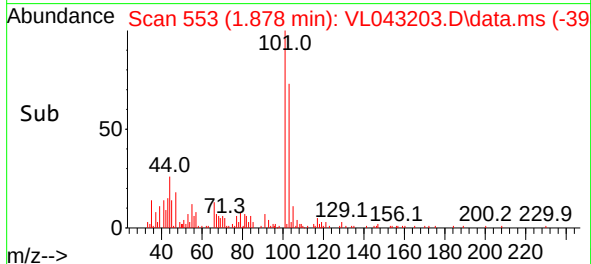
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



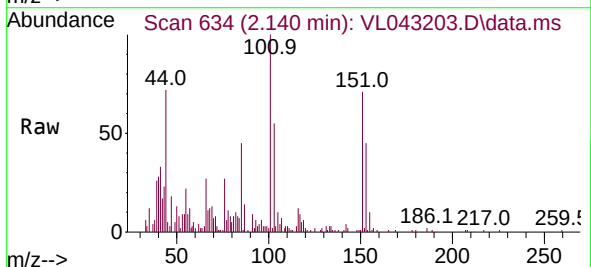
Tgt Ion:101 Resp: 684
Ion Ratio Lower Upper
101 100
103 71.8 52.6 79.0

Manual Integrations
APPROVED

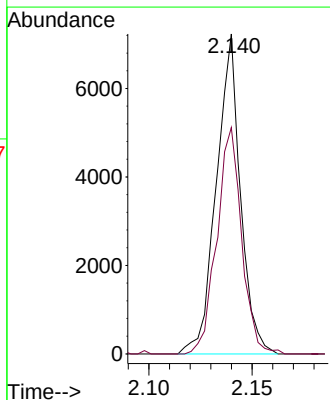
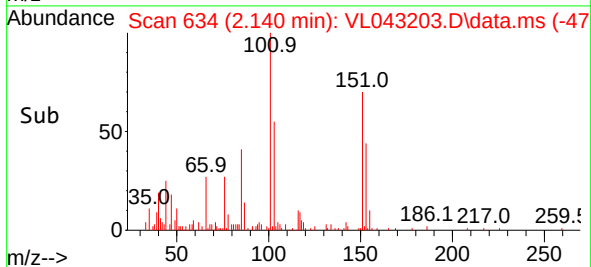
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

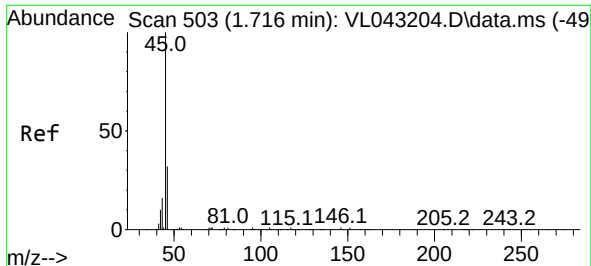


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.497 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29



Tgt Ion:101 Resp: 5863
Ion Ratio Lower Upper
101 100
151 72.8 59.2 88.8





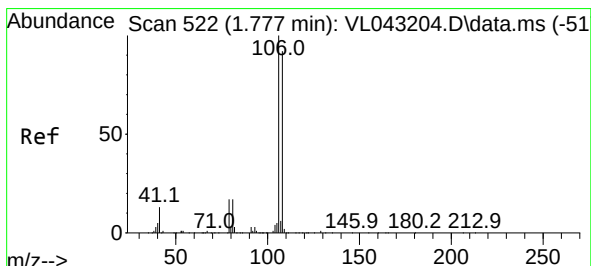
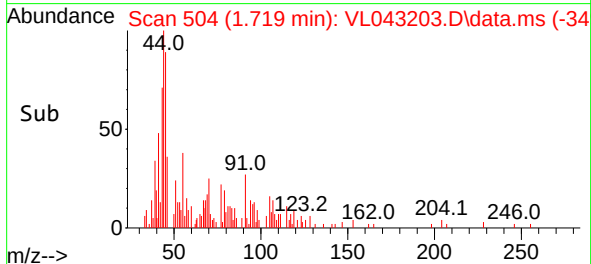
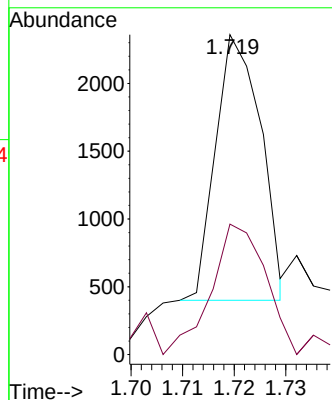
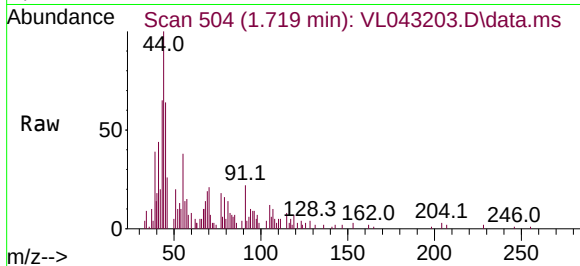
#13
Ethanol
Concen: 0.520 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 1190
Ion Ratio Lower Upper
45 100
46 58.7 15.0 59.8

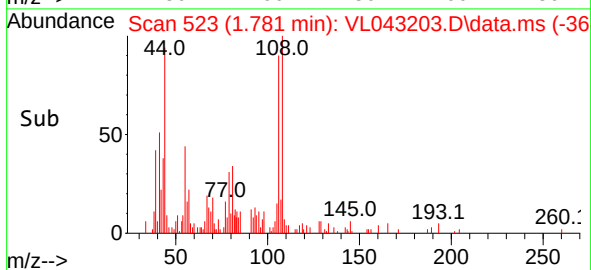
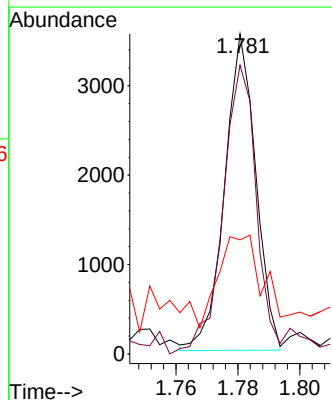
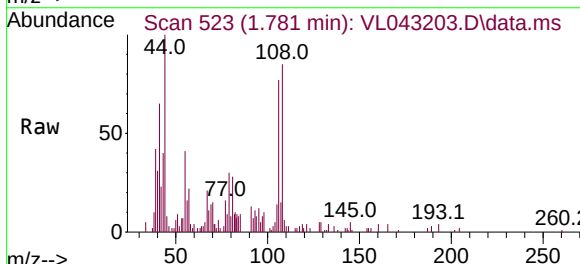
Manual Integrations
APPROVED

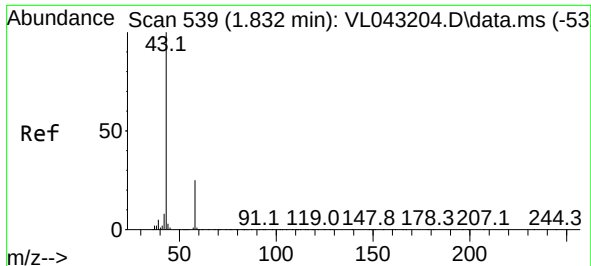
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#14
Bromoethene
Concen: 0.548 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:108 Resp: 2476
Ion Ratio Lower Upper
108 100
106 126.4 88.9 133.3
79 58.5 16.5 24.7#





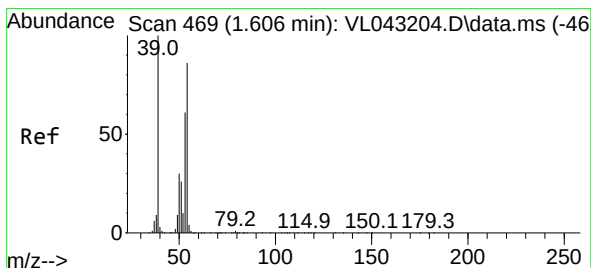
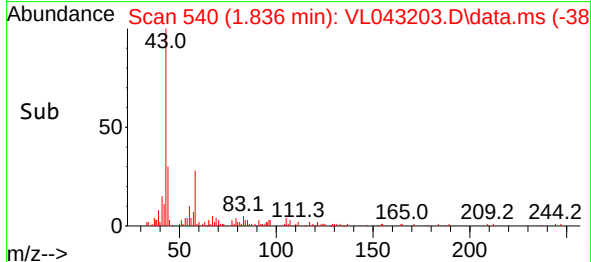
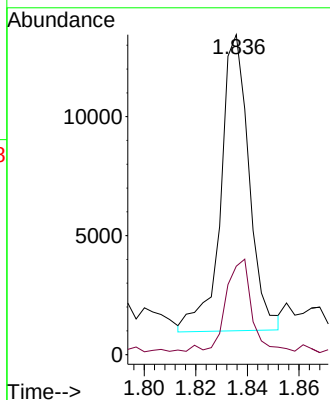
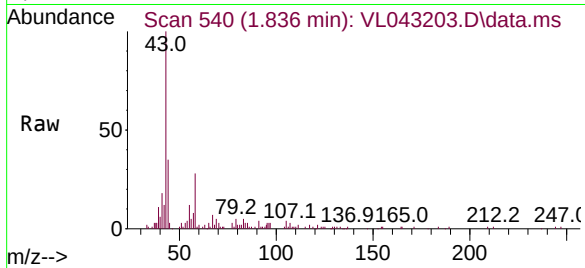
#15
Acetone
Concen: 0.619 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 9500
Ion Ratio Lower Upper
43 100
58 32.0 20.7 31.1

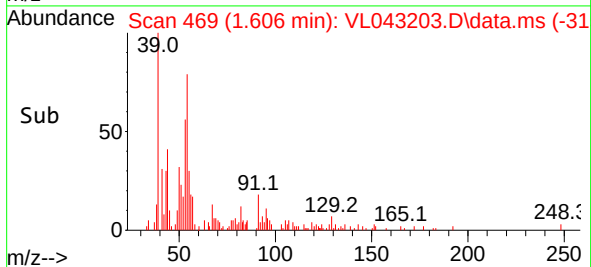
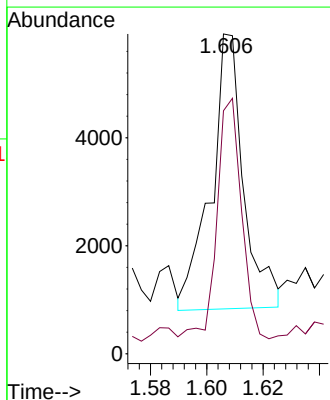
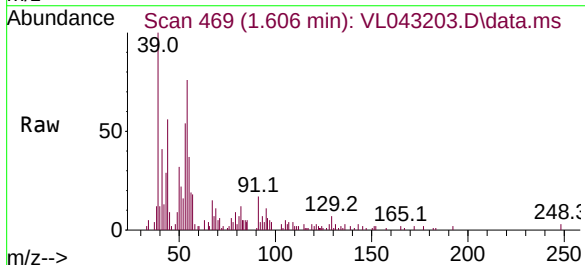
Manual Integrations
APPROVED

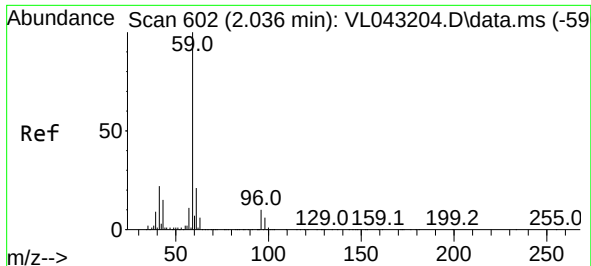
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#16
1,3-Butadiene
Concen: 0.601 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 39 Resp: 4115
Ion Ratio Lower Upper
39 100
54 70.0 59.4 89.2





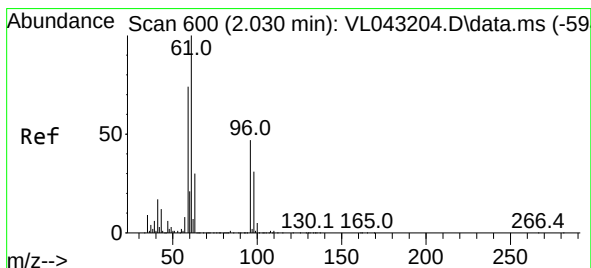
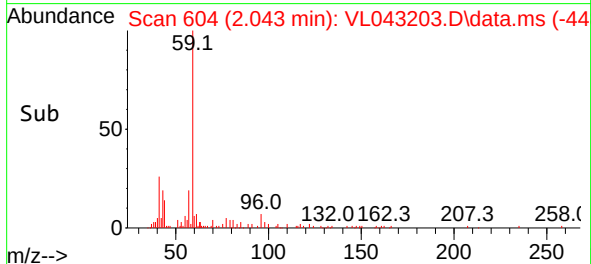
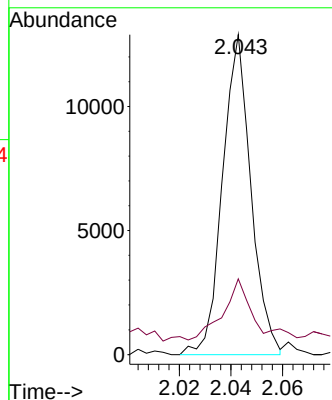
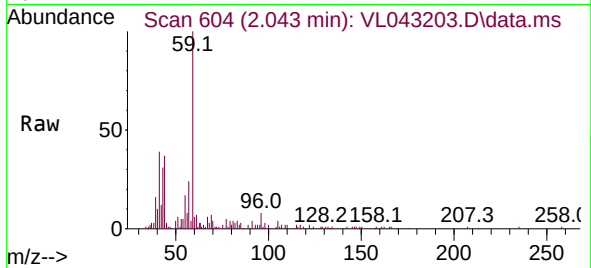
#17
tert-Butyl alcohol
Concen: 0.489 ppbv
RT: 2.043 min Scan# 601
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 59 Resp: 9854
Ion Ratio Lower Upper
59 100
57 23.3 9.0 13.4

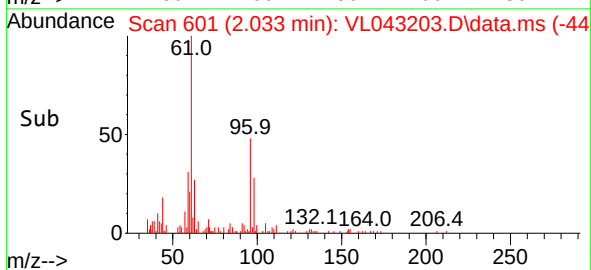
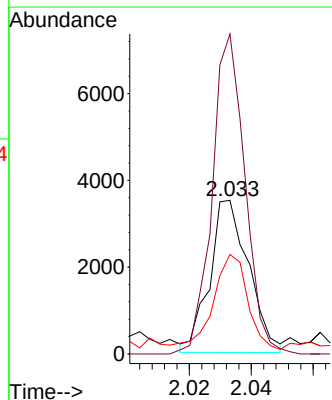
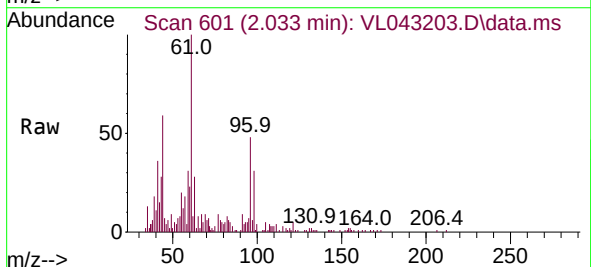
Manual Integrations
APPROVED

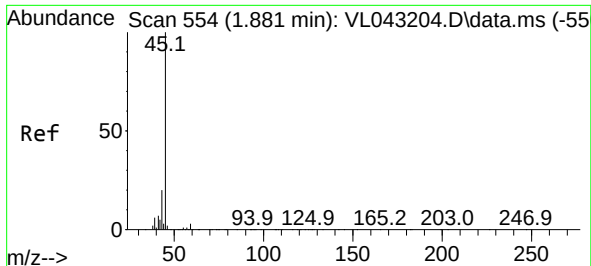
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#18
1,1-Dichloroethene
Concen: 0.559 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 96 Resp: 3068
Ion Ratio Lower Upper
96 100
61 220.0 170.6 255.8
98 66.3 52.2 78.4





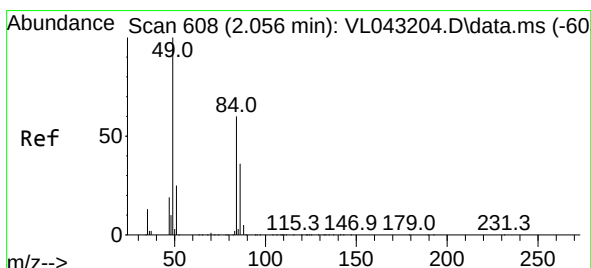
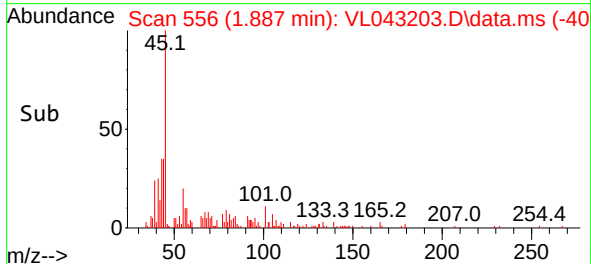
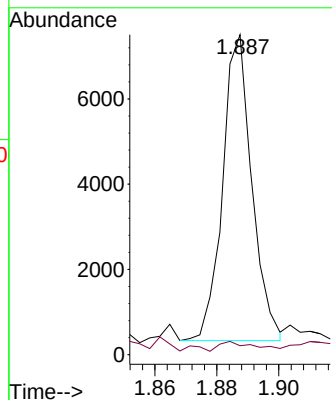
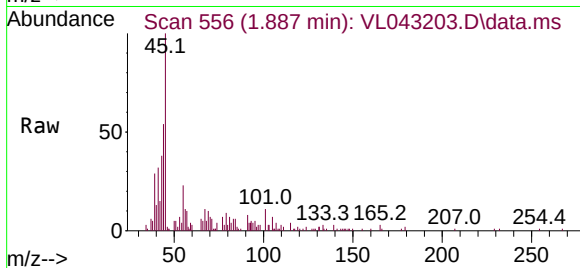
#19
Isopropyl Alcohol
Concen: 0.540 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 468
Ion Ratio Lower Upper
45 100
58 9.0 31.3 46.9

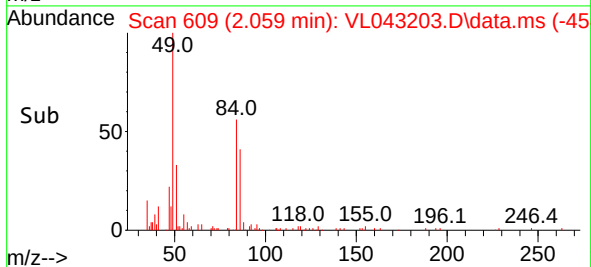
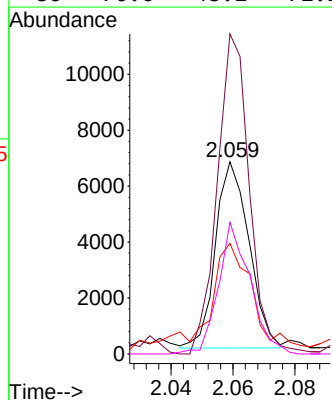
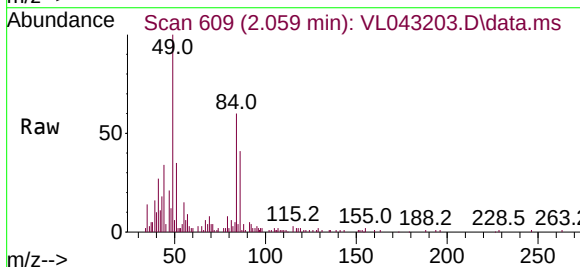
Manual Integrations
APPROVED

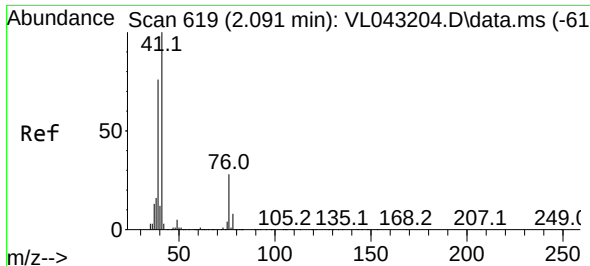
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 84 Resp: 5006
Ion Ratio Lower Upper
84 100
49 173.9 132.9 199.3
51 48.8 34.8 52.2
86 70.6 48.2 72.2





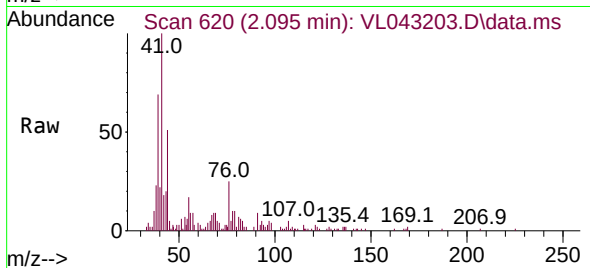
#21
 Allyl Chloride
 Concen: 0.609 ppbv
 RT: 2.095 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

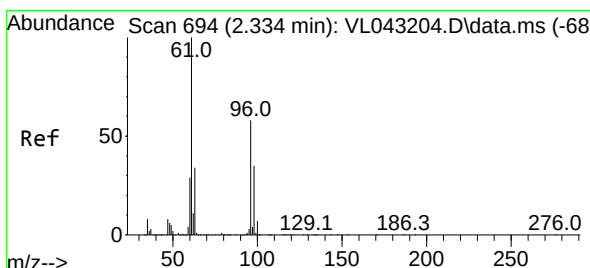
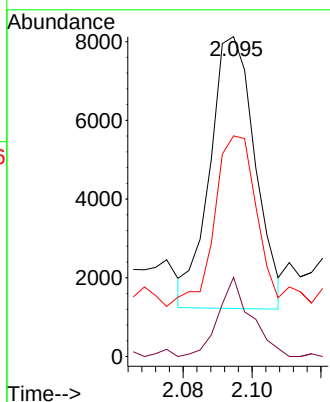
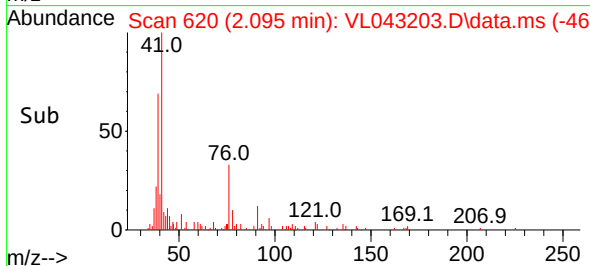


Tgt Ion: 41 Resp: 6291
 Ion Ratio Lower Upper
 41 100
 76 22.2 22.1 33.1
 39 73.5 61.0 91.4

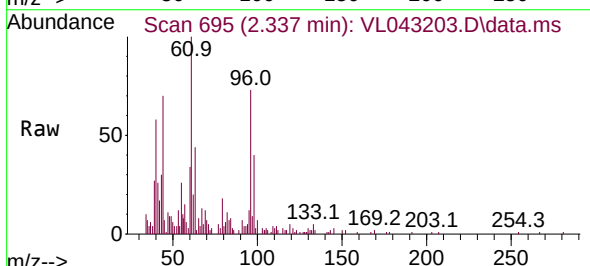
Manual Integrations

APPROVED

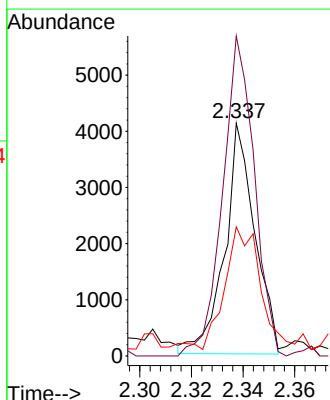
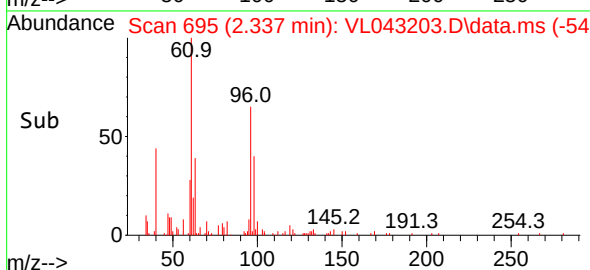
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

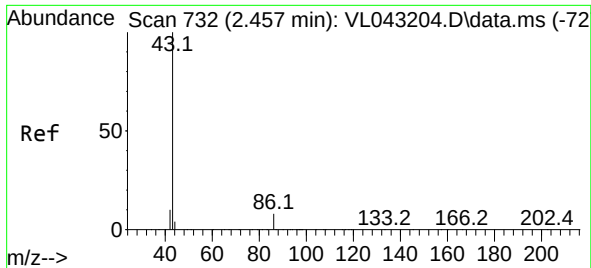


#22
 trans-1,2-Dichloroethene
 Concen: 0.533 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29



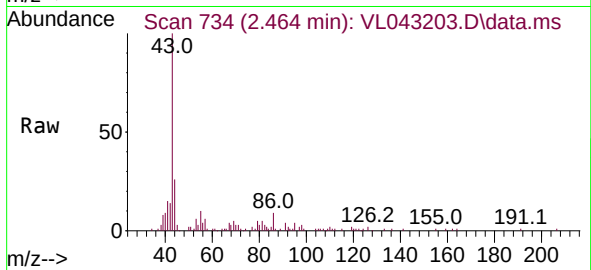
Tgt Ion: 96 Resp: 3343
 Ion Ratio Lower Upper
 96 100
 61 141.8 139.0 208.6
 98 51.7 49.4 74.2





#23
 Vinyl Acetate
 Concen: 0.562 ppbv
 RT: 2.464 min Scan# 734
 Delta R.T. 0.006 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

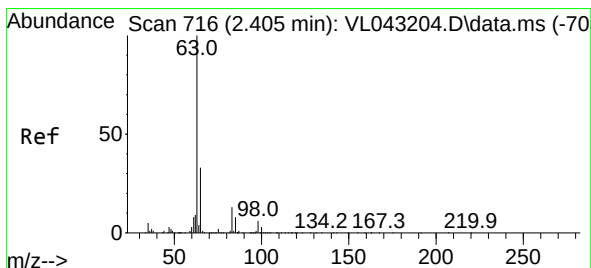
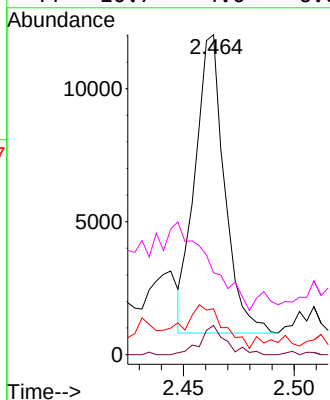
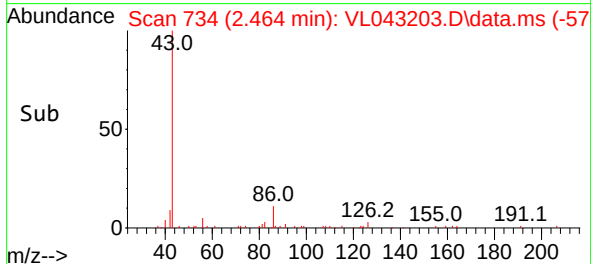
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 43 Resp: 10414
 Ion Ratio Lower Upper
 43 100
 86 10.8 6.2 9.2
 42 11.4 8.0 12.0
 44 10.7 4.0 6.0#

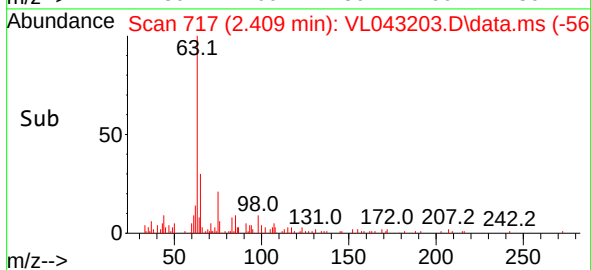
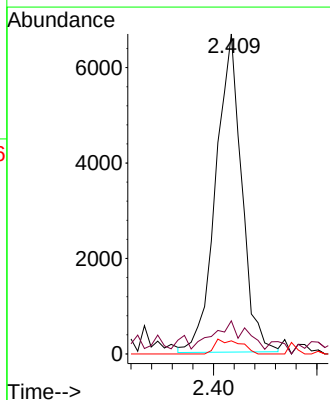
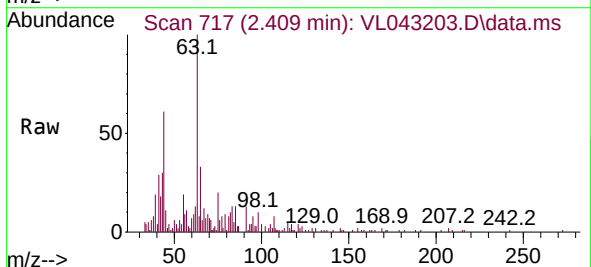
Manual Integrations
 APPROVED

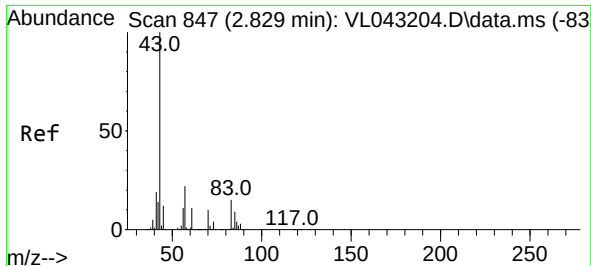
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#24
 1,1-Dichloroethane
 Concen: 0.479 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

Tgt Ion: 63 Resp: 5803
 Ion Ratio Lower Upper
 63 100
 98 6.6 2.8 8.4
 100 4.2 1.3 3.9#





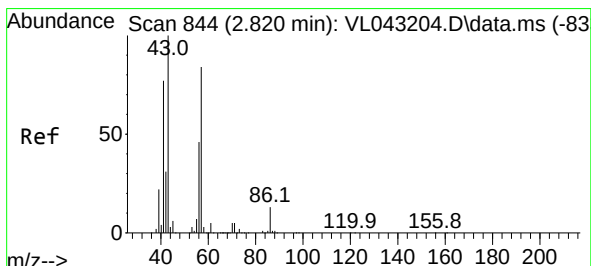
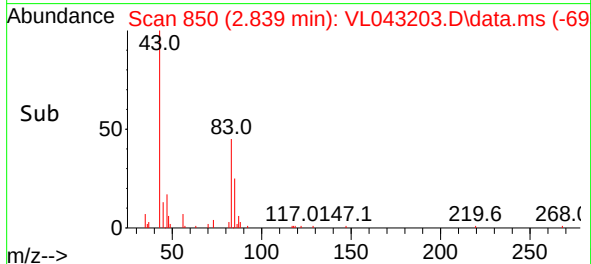
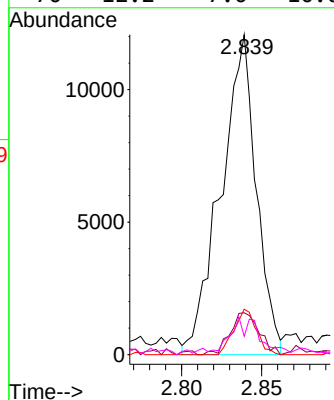
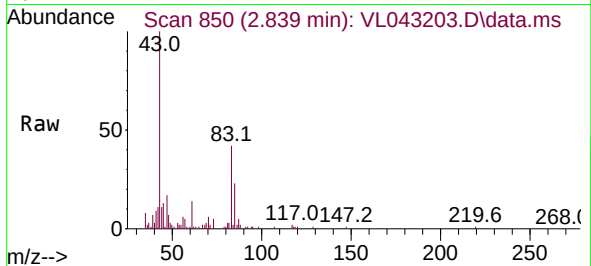
#25
Ethyl Acetate
Concen: 0.562 ppbv m
RT: 2.839 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 18625
Ion Ratio Lower Upper
43 100
45 11.2 8.1 12.1
61 9.0 7.0 10.4
70 12.2 7.0 10.6#

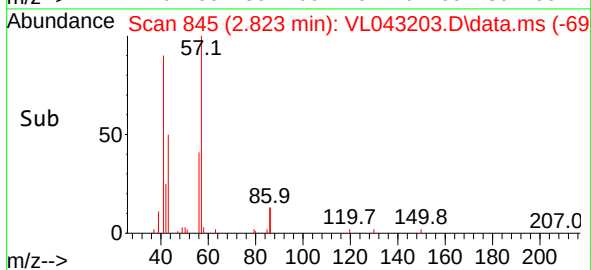
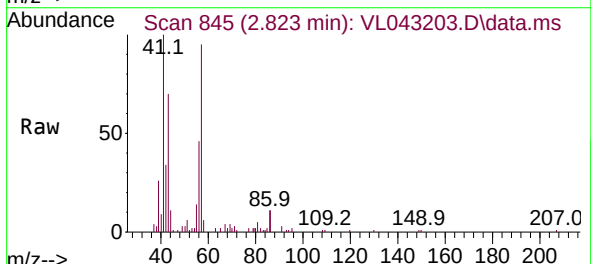
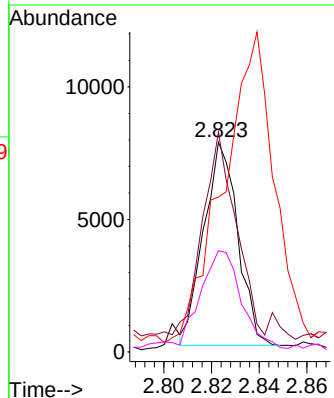
Manual Integrations
APPROVED

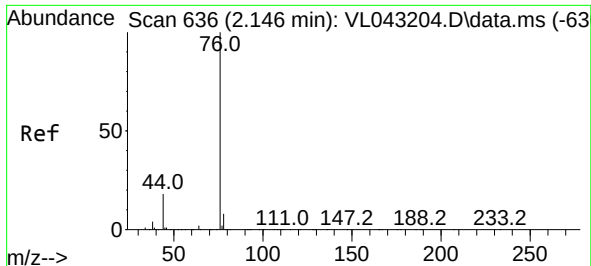
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#26
Hexane
Concen: 0.523 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

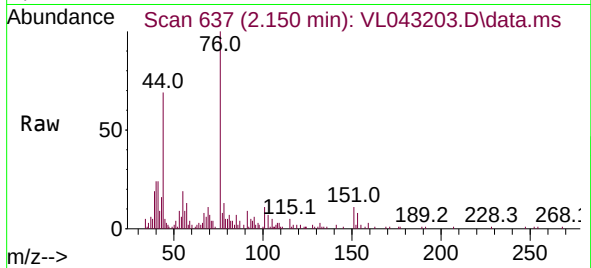
Tgt Ion: 57 Resp: 7589
Ion Ratio Lower Upper
57 100
41 114.6 74.6 111.8#
43 229.7 179.0 268.4
56 58.1 42.3 63.5





#27
Carbon Disulfide
Concen: 0.486 ppbv
RT: 2.150 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

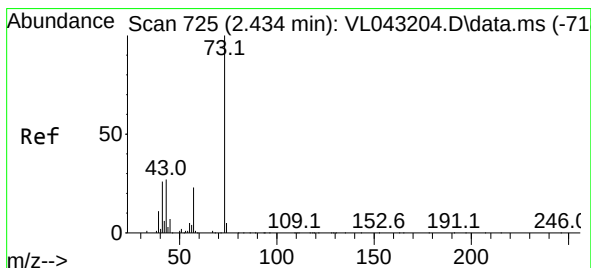
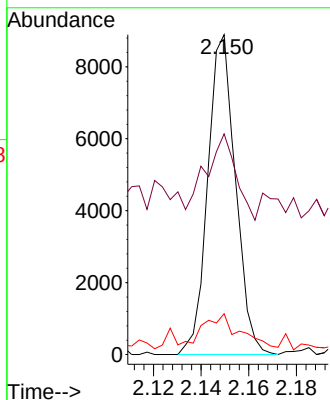
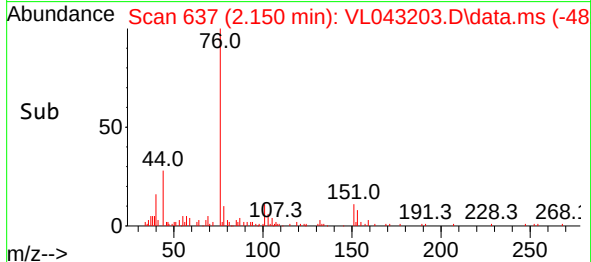
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 76 Resp: 7198
Ion Ratio Lower Upper
76 100
44 115.9 16.1 24.1
78 26.4 9.6 14.4

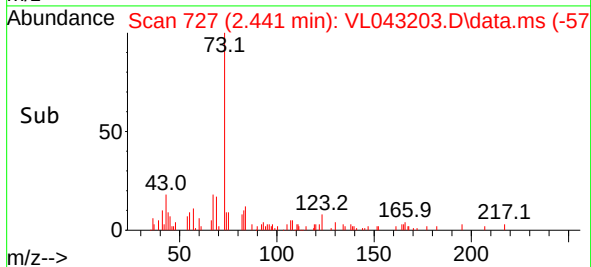
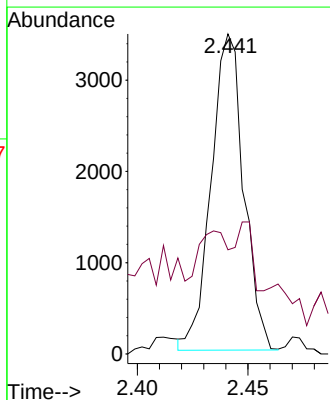
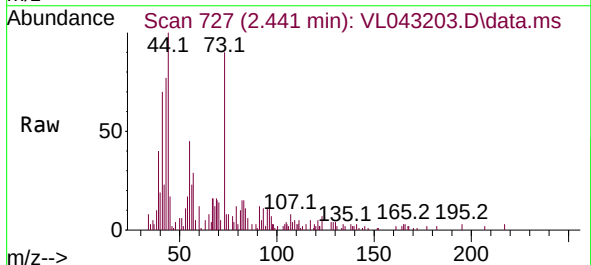
Manual Integrations
APPROVED

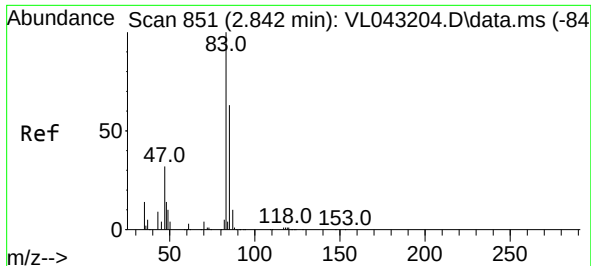
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#28
Methyl tert-Butyl Ether
Concen: 0.498 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 73 Resp: 3545
Ion Ratio Lower Upper
73 100
57 67.2 19.8 29.8





#29

Chloroform

Concen: 0.523 ppbv

RT: 2.849 min Scan# 851

Delta R.T. 0.006 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 10800

Ion Ratio Lower Upper

83 100

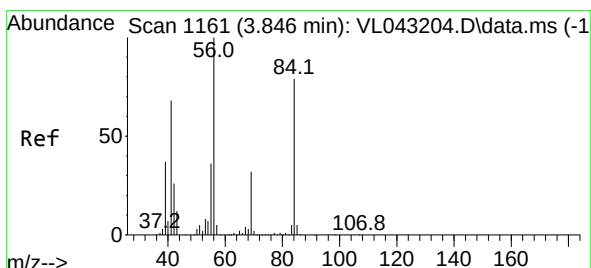
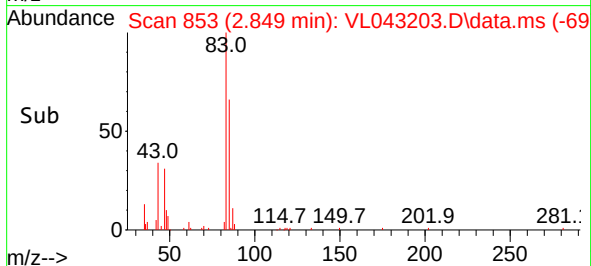
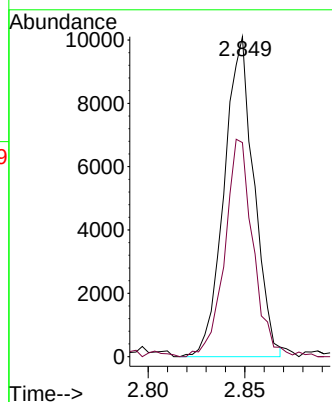
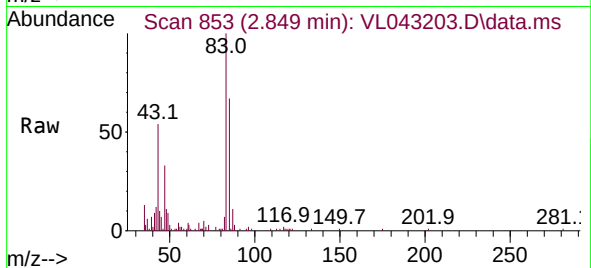
85 66.9 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#30

Cyclohexane

Concen: 0.515 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. 0.003 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

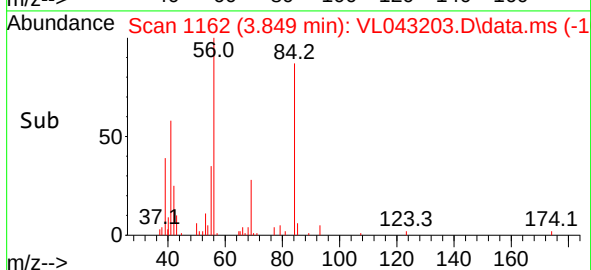
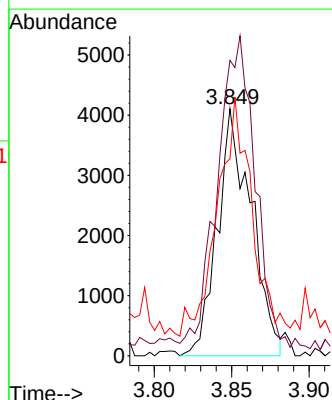
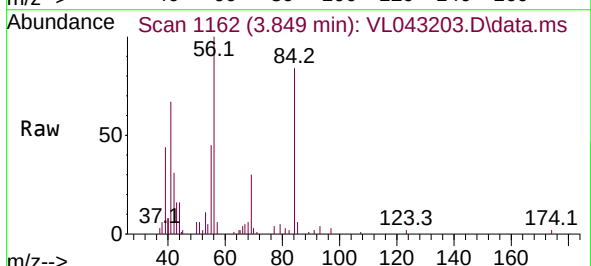
Tgt Ion: 84 Resp: 6271

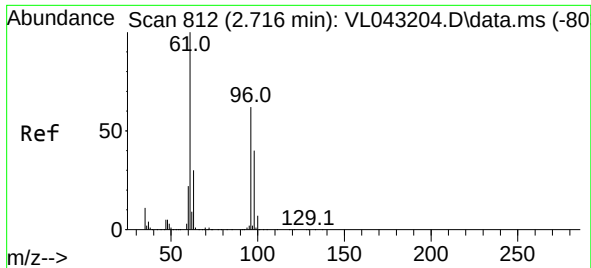
Ion Ratio Lower Upper

84 100

56 148.3 104.7 157.1

41 99.3 69.0 103.6





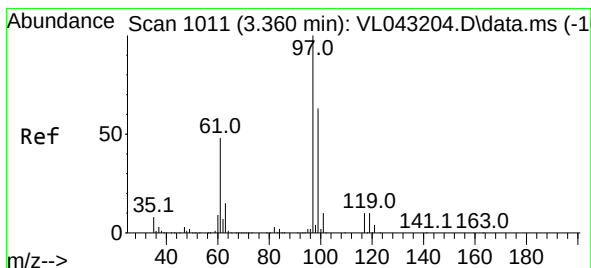
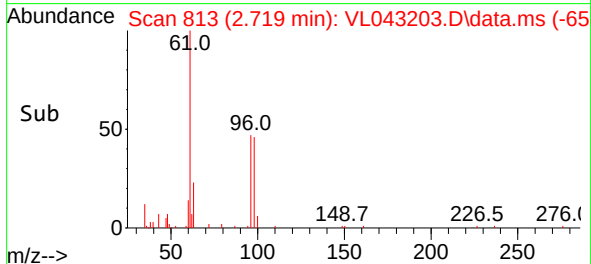
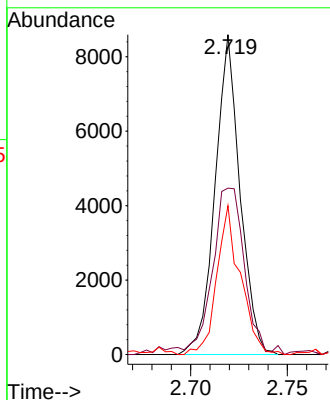
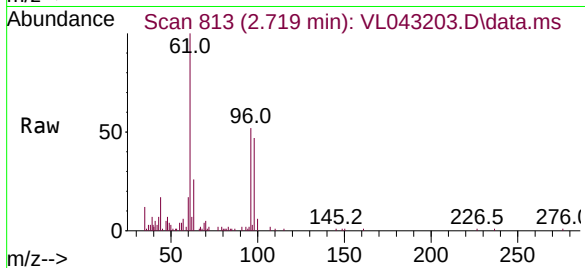
#31
 cis-1,2-Dichloroethene
 Concen: 0.536 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 61 Resp: 7728
 Ion Ratio Lower Upper
 61 100
 96 49.8 49.3 73.9
 98 46.5 32.1 48.1

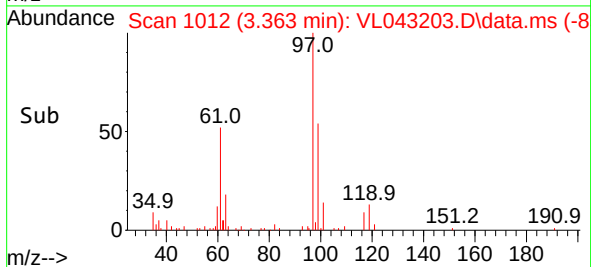
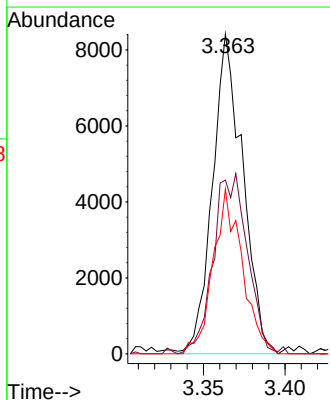
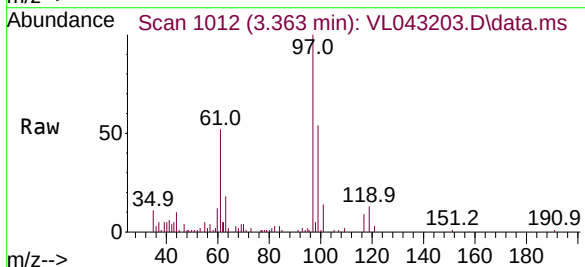
Manual Integrations
 APPROVED

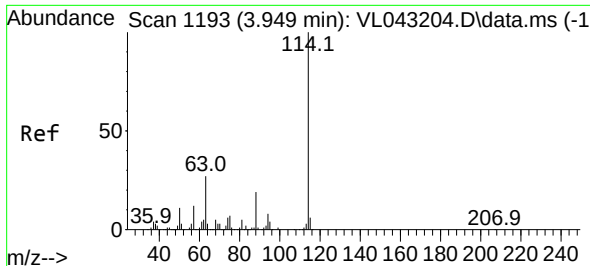
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.490 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

Tgt Ion: 97 Resp: 10886
 Ion Ratio Lower Upper
 97 100
 99 64.4 50.3 75.5
 61 49.5 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

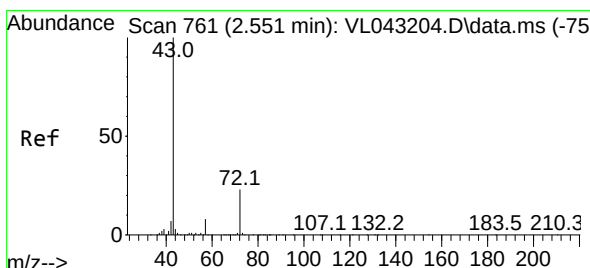
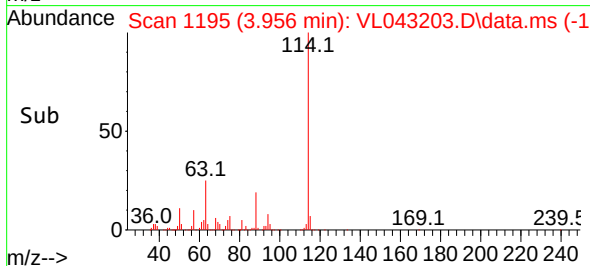
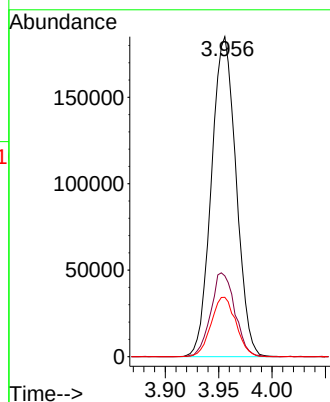
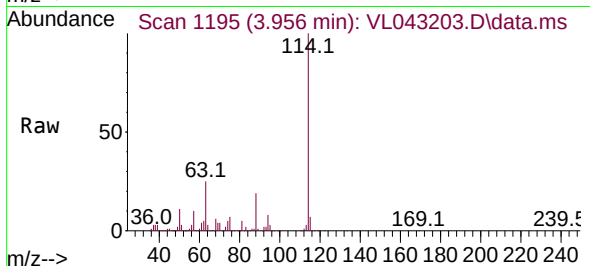
Tgt Ion:114 Resp: 296493

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.8	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 0.527 ppbv

RT: 2.557 min Scan# 763

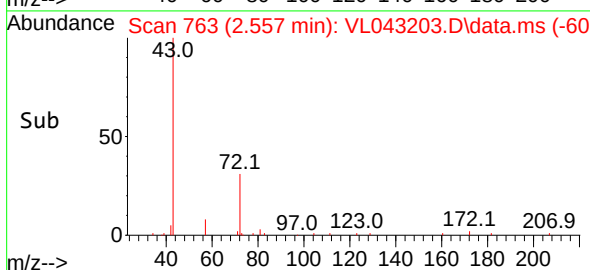
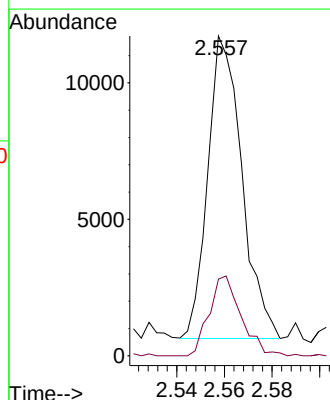
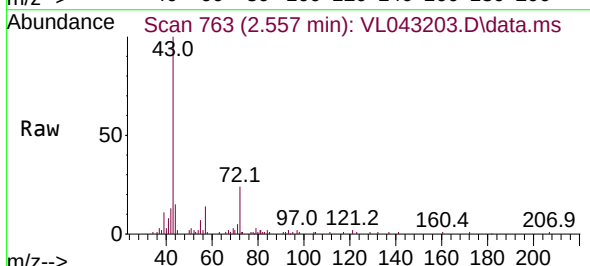
Delta R.T. 0.006 min

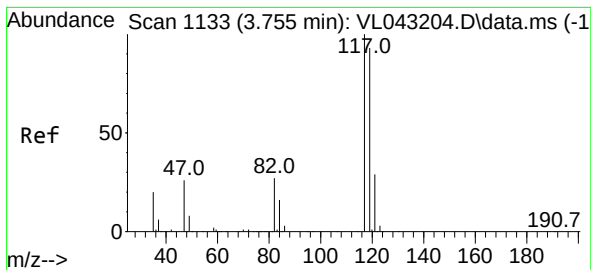
Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 11026

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.1	27.1





#35

Carbon Tetrachloride

Concen: 0.513 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

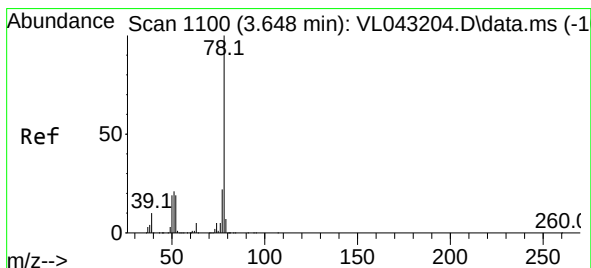
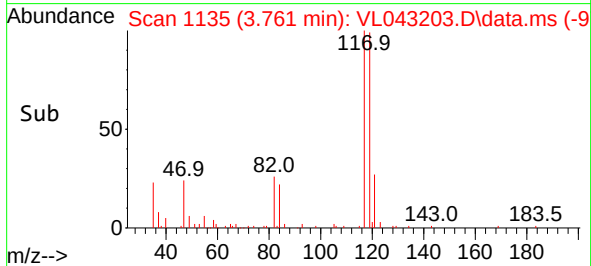
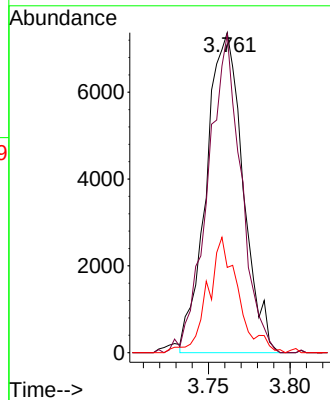
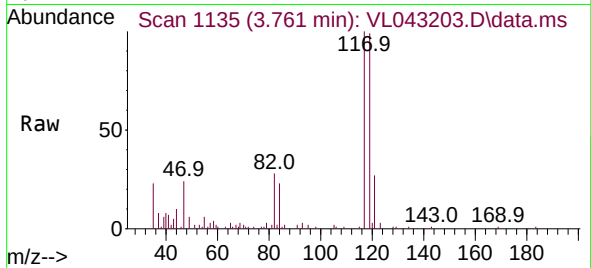
VSTDICC0.5

Tgt Ion:	117	Resp:	1155
Ion Ratio	Lower	Upper	
117	100		
119	99.4	74.6	112.0
121	25.7	23.2	34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36

Benzene

Concen: 0.520 ppbv

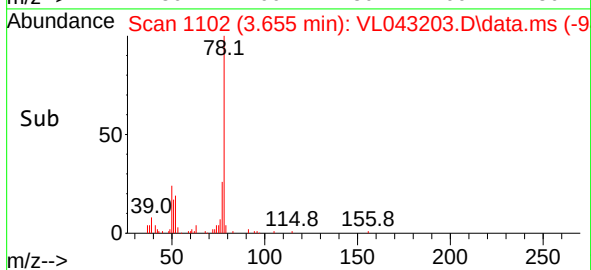
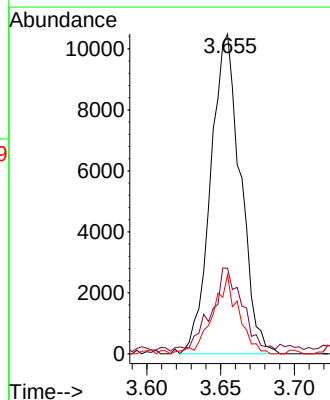
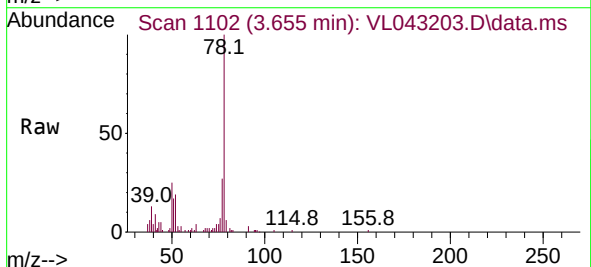
RT: 3.655 min Scan# 1102

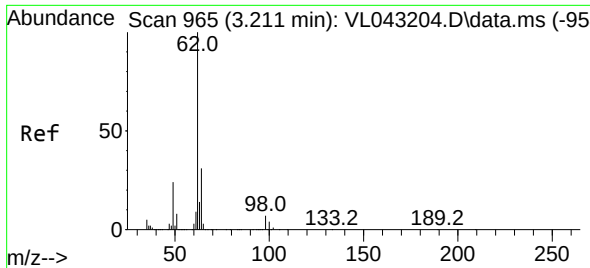
Delta R.T. 0.006 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Tgt Ion:	78	Resp:	14759
Ion Ratio	Lower	Upper	
78	100		
77	24.6	17.5	26.3
50	24.7	15.5	23.3





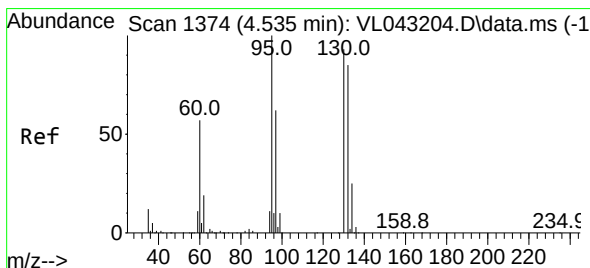
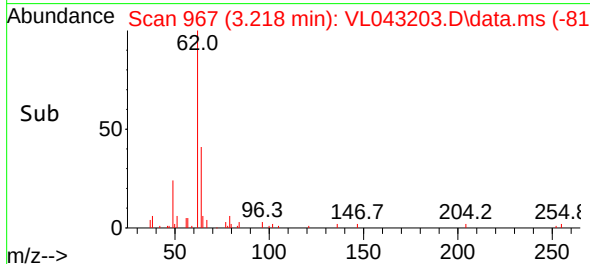
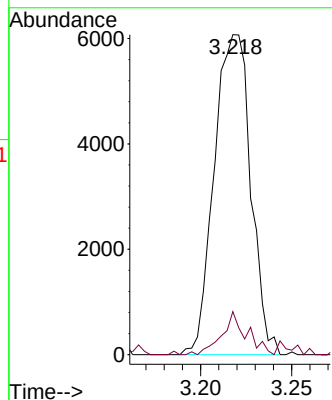
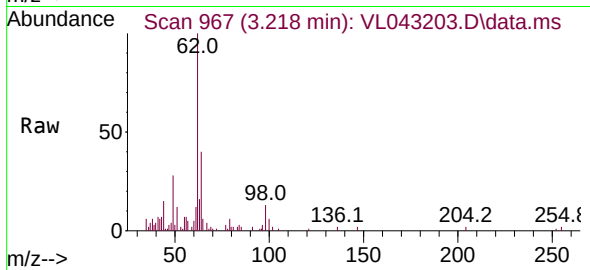
#37
1,2-Dichloroethane
Concen: 0.510 ppbv
RT: 3.218 min Scan# 965
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 847
Ion Ratio Lower Upper
62 100
98 9.2 5.5 8.3

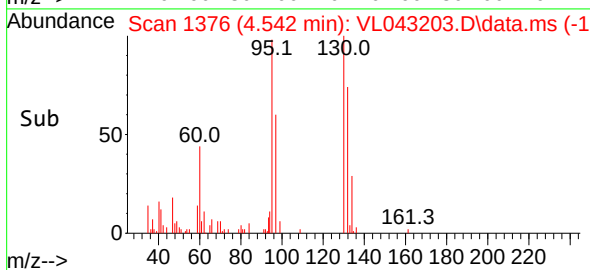
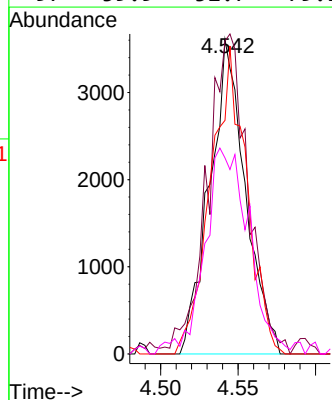
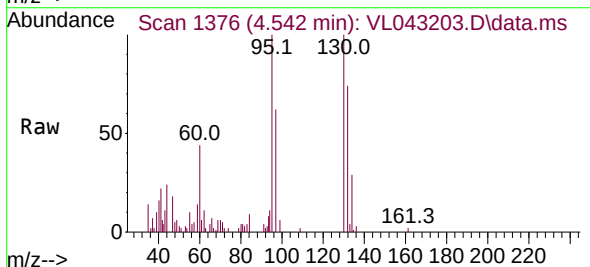
Manual Integrations
APPROVED

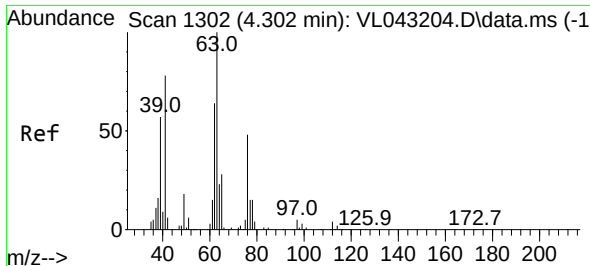
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 0.519 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:130 Resp: 5775
Ion Ratio Lower Upper
130 100
95 96.0 85.7 128.5
132 72.9 73.4 110.0#
97 59.9 52.7 79.1





#39

1,2-Dichloropropane

Concen: 0.530 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.010 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

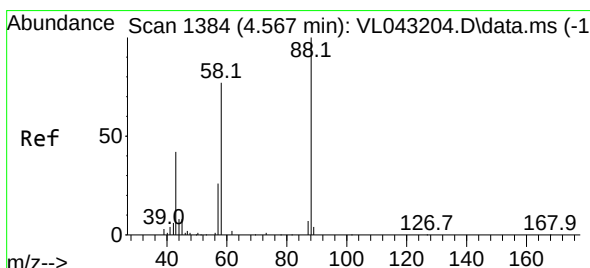
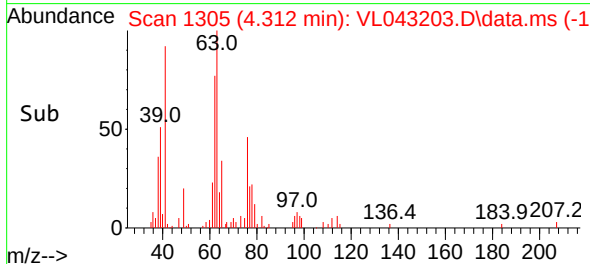
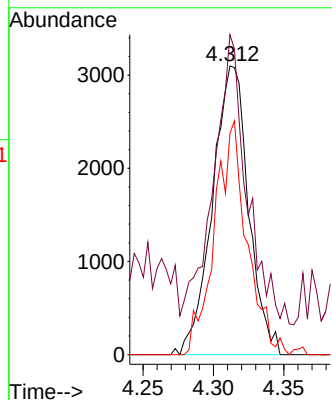
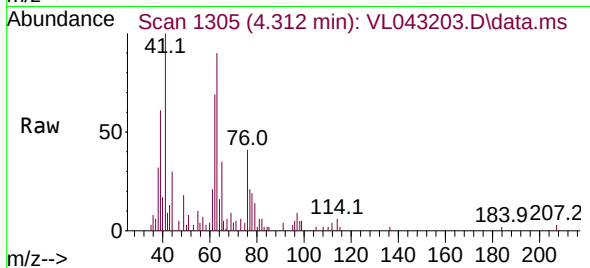
Tgt Ion: 63	Resp: 5510
Ion Ratio	Lower Upper
63	100
41	98.4 62.6 93.8
62	76.7 51.0 76.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#40

1,4-Dioxane

Concen: 0.573 ppbv m

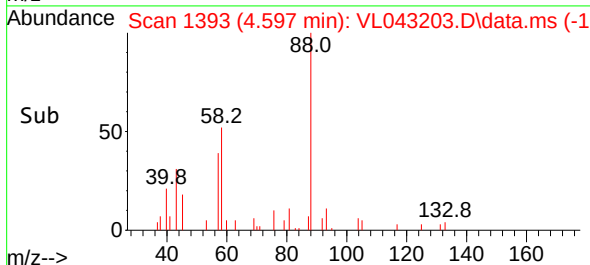
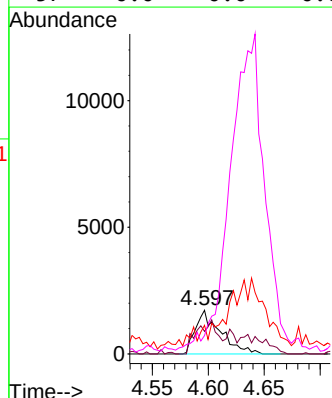
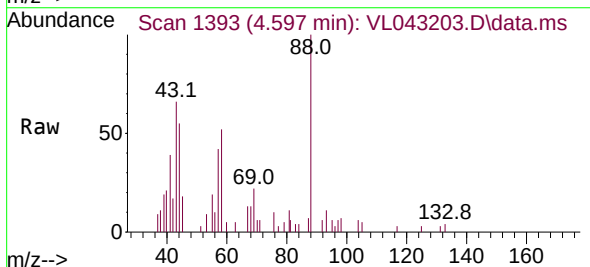
RT: 4.597 min Scan# 1393

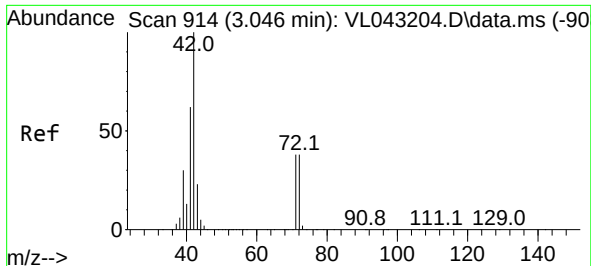
Delta R.T. 0.029 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Tgt Ion: 88	Resp: 2675
Ion Ratio	Lower Upper
88	100
58	0.0 63.0 94.6
43	19.9 32.5 48.7
57	0.0 0.0 0.0





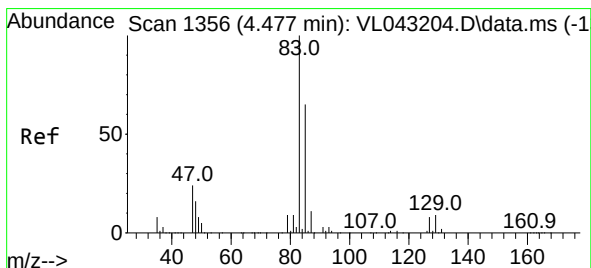
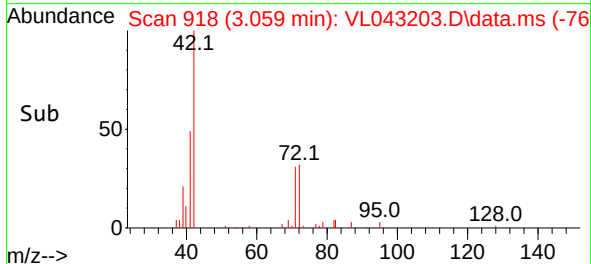
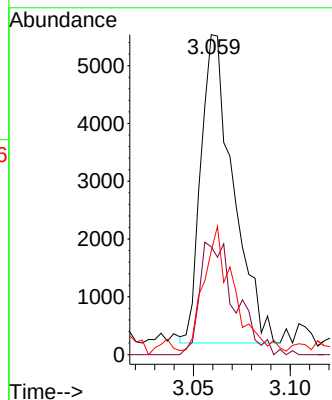
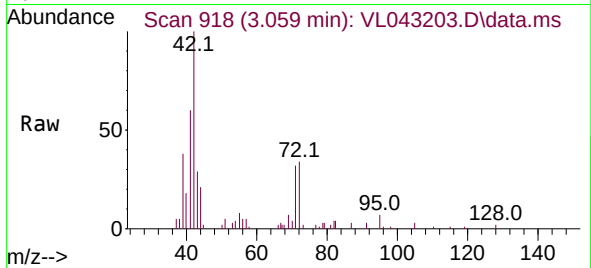
#41
Tetrahydrofuran
Concen: 0.536 ppbv
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 42 Resp: 6193
Ion Ratio Lower Upper
42 100
72 40.2 30.6 46.0
71 42.1 30.5 45.7

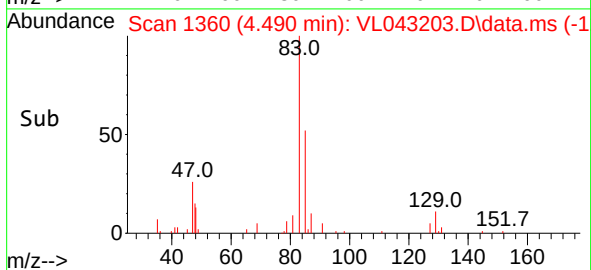
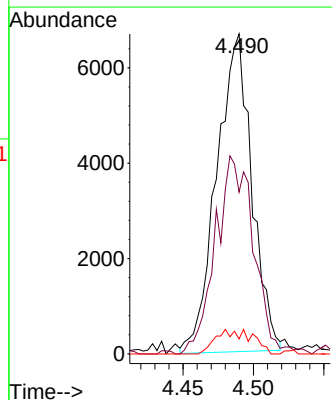
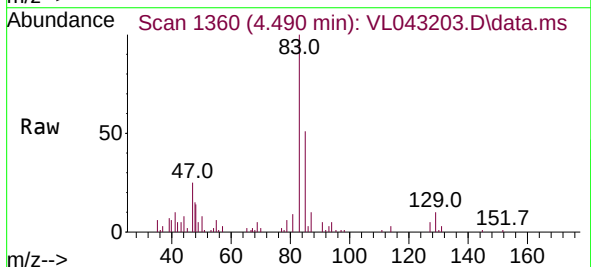
Manual Integrations
APPROVED

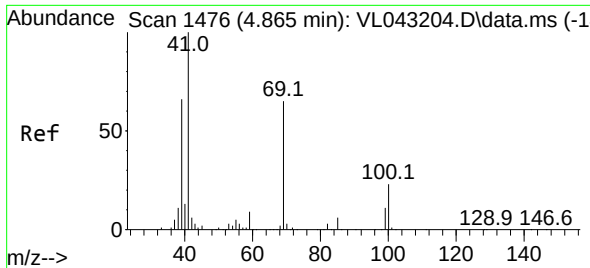
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#42
Bromodichloromethane
Concen: 0.506 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

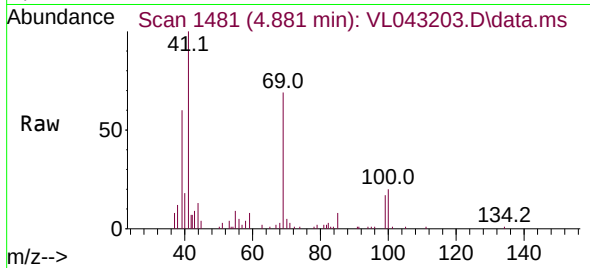
Tgt Ion: 83 Resp: 11597
Ion Ratio Lower Upper
83 100
85 51.4 51.7 77.5#
127 4.8 6.3 9.5#





#43
Methyl Methacrylate
Concen: 0.566 ppbv
RT: 4.881 min Scan# 1476
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

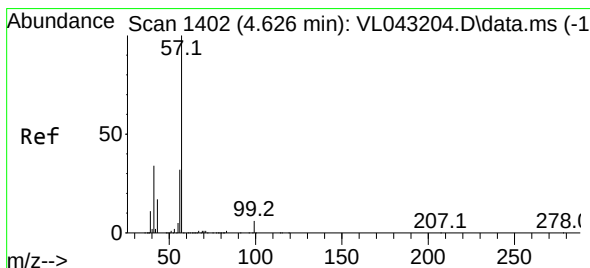
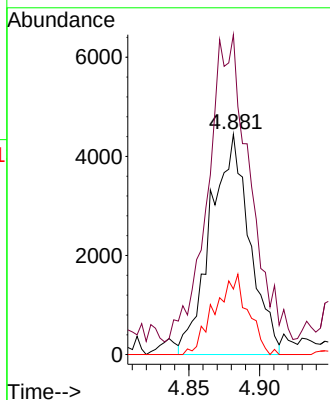
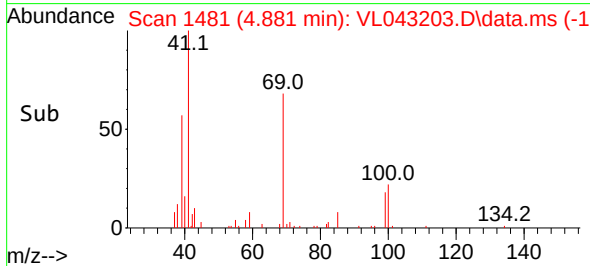
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



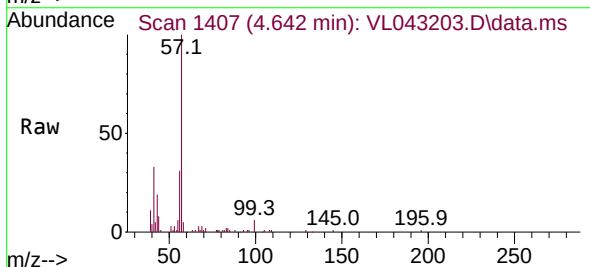
Tgt Ion: 69 Resp: 8534
Ion Ratio Lower Upper
69 100
41 0.0 126.7 190.1
100 0.0 28.6 43.0

Manual Integrations
APPROVED

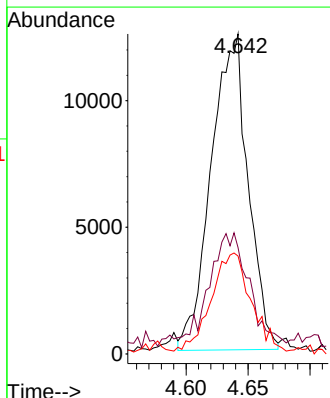
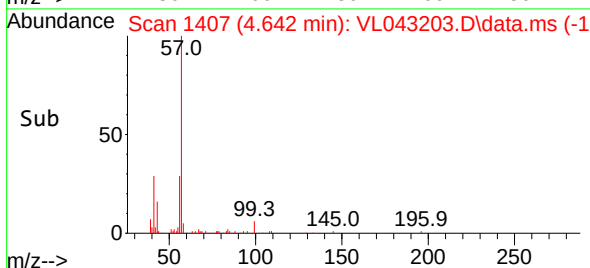
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

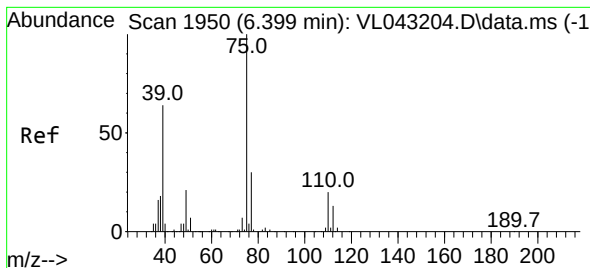


#44
2,2,4-Trimethylpentane
Concen: 0.531 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29



Tgt Ion: 57 Resp: 25890
Ion Ratio Lower Upper
57 100
41 36.2 28.0 42.0
56 36.9 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 0.523 ppbv

RT: 6.412 min Scan# 1954

Delta R.T. 0.013 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

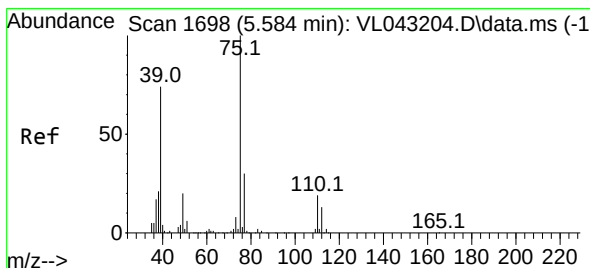
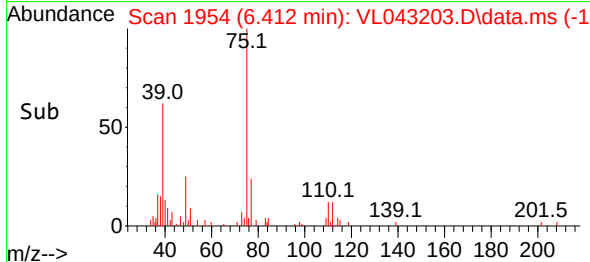
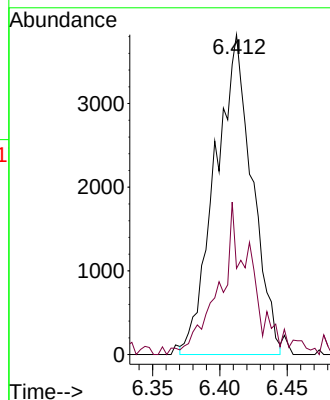
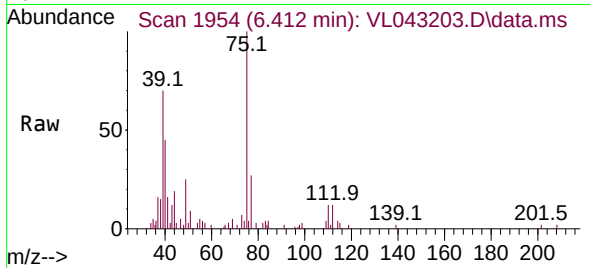
VSTDICC0.5

Tgt Ion: 75 Resp: 7343
 Ion Ratio Lower Upper
 75 100
 77 26.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#46

cis-1,3-Dichloropropene

Concen: 0.539 ppbv m

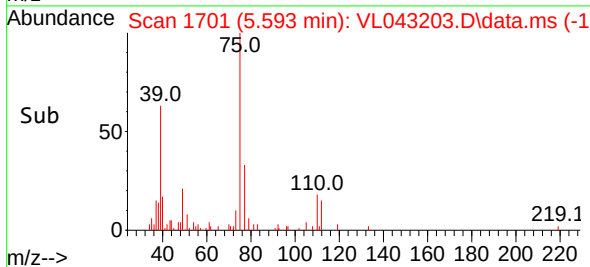
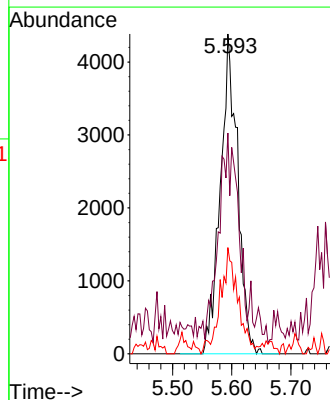
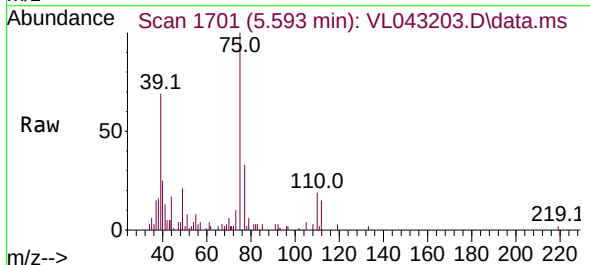
RT: 5.593 min Scan# 1701

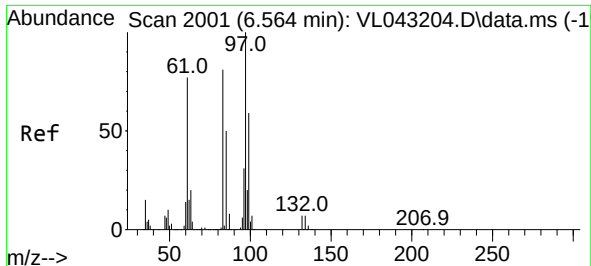
Delta R.T. 0.010 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

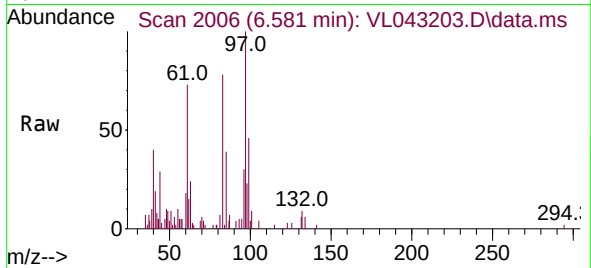
Tgt Ion: 75 Resp: 8886
 Ion Ratio Lower Upper
 75 100
 39 69.0 59.1 88.7
 77 33.2 24.2 36.2





#47
1,1,2-Trichloroethane
Concen: 0.567 ppbv m
RT: 6.581 min Scan# 2006
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

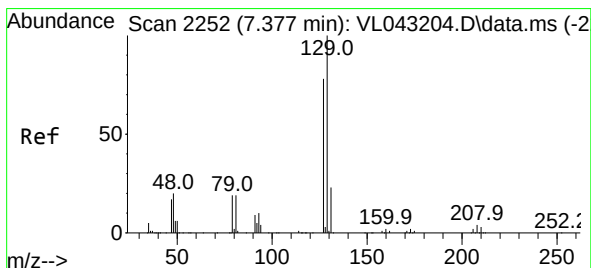
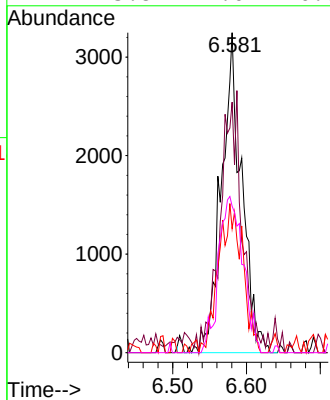
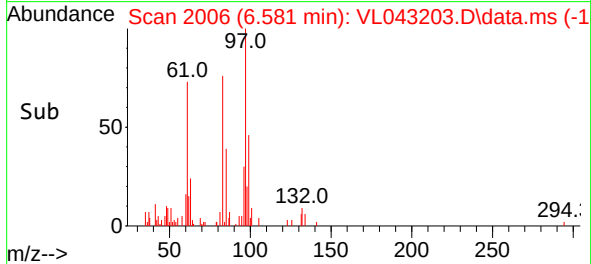
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 97 Resp: 6280
Ion Ratio Lower Upper
97 100
83 78.3 64.6 97.0
85 38.7 39.4 59.2
99 45.8 47.0 70.6

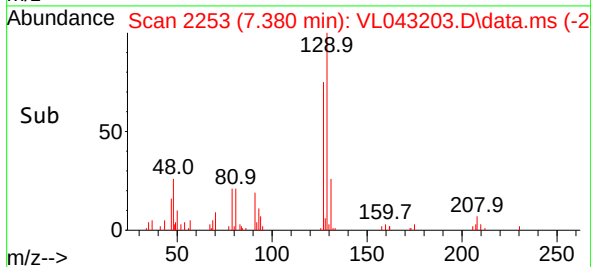
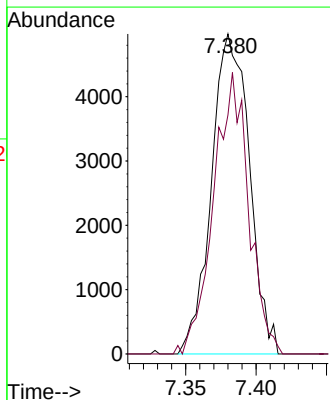
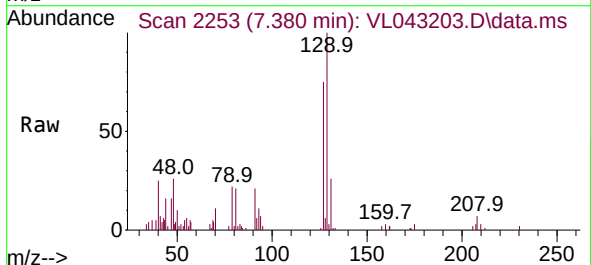
Manual Integrations
APPROVED

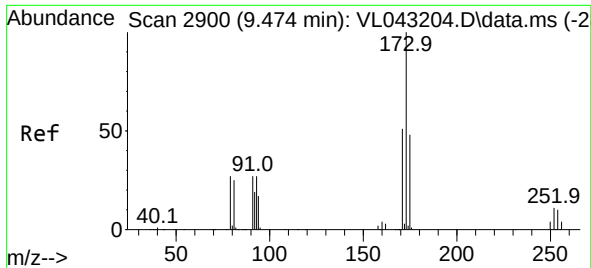
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#48
Dibromochloromethane
Concen: 0.492 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:129 Resp: 9327
Ion Ratio Lower Upper
129 100
127 80.8 39.3 117.9





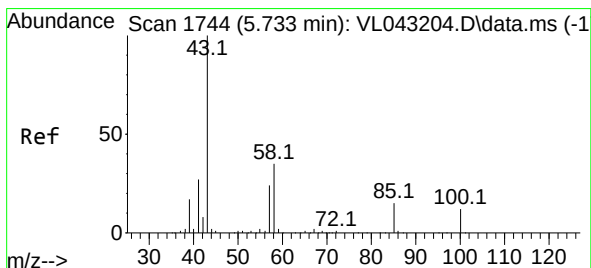
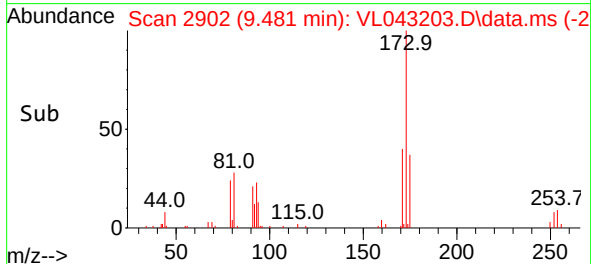
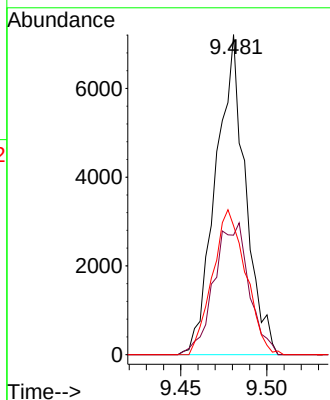
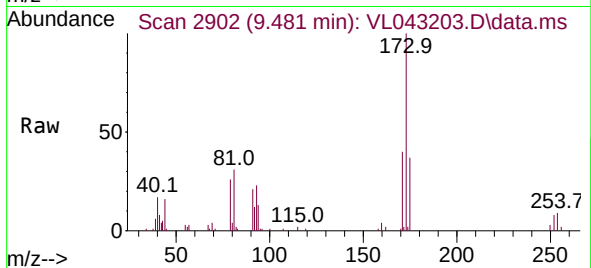
#49
Bromoform
Concen: 0.514 ppbv
RT: 9.481 min Scan# 2900
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:173 Resp: 8636
Ion Ratio Lower Upper
173 100
175 48.4 38.6 58.0
171 50.9 40.6 61.0

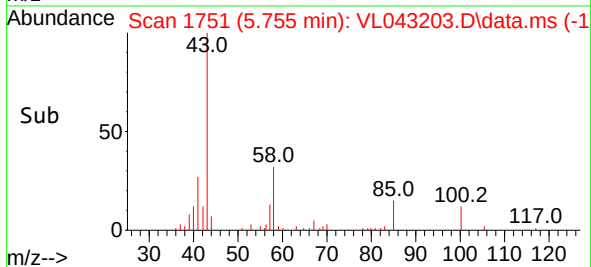
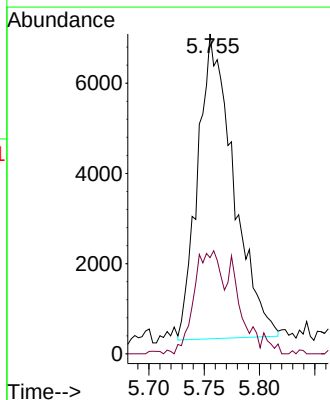
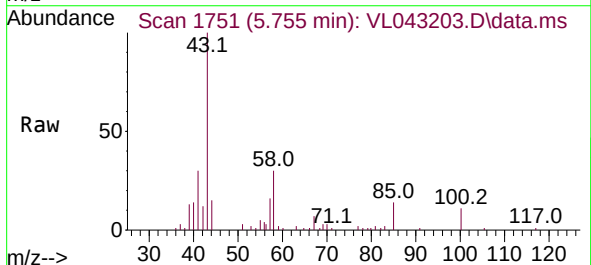
Manual Integrations
APPROVED

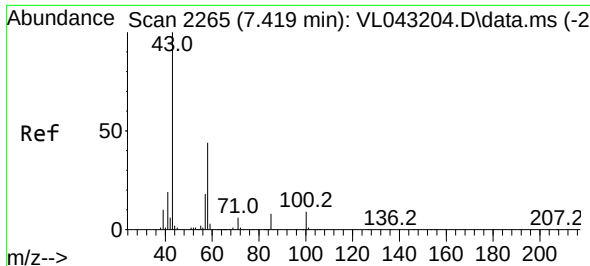
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 0.515 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

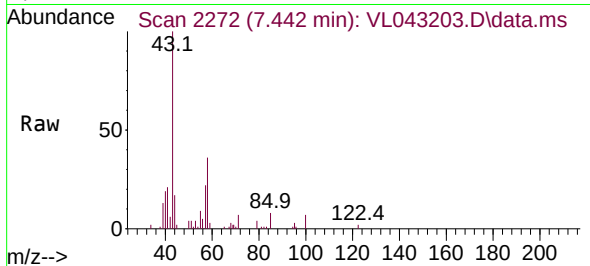
Tgt Ion: 43 Resp: 15190
Ion Ratio Lower Upper
43 100
58 40.3 28.4 42.6





#51
2-Hexanone
Concen: 0.506 ppbv
RT: 7.442 min Scan# 2159
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

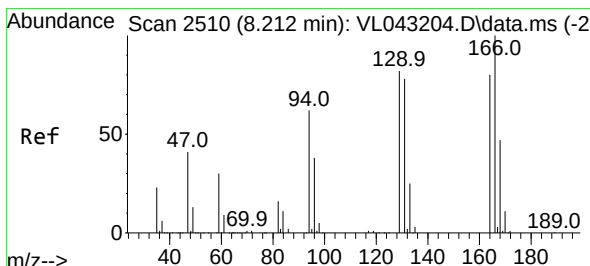
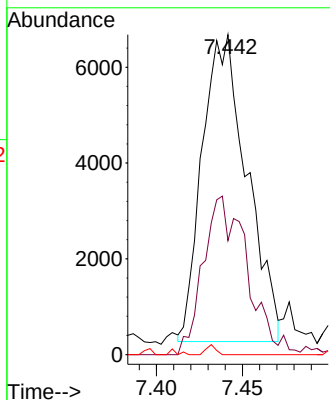
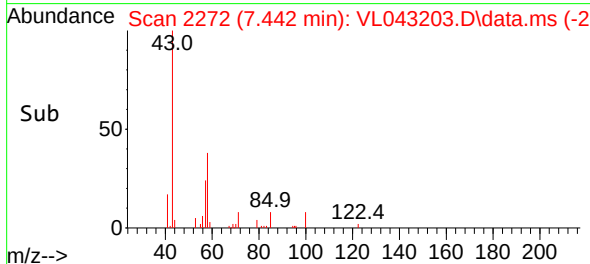
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



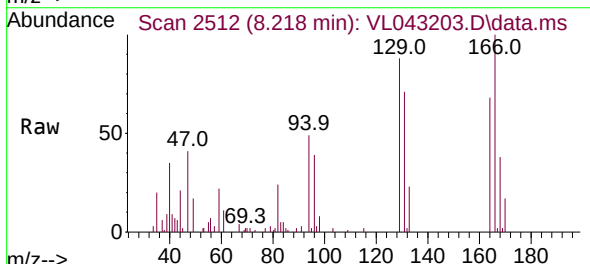
Tgt Ion: 43 Resp: 11594
Ion Ratio Lower Upper
43 100
58 52.6 38.4 57.6
98 0.7 0.0 0.0

Manual Integrations
APPROVED

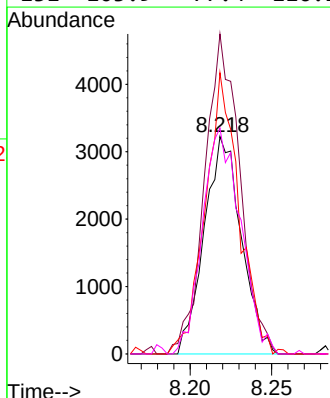
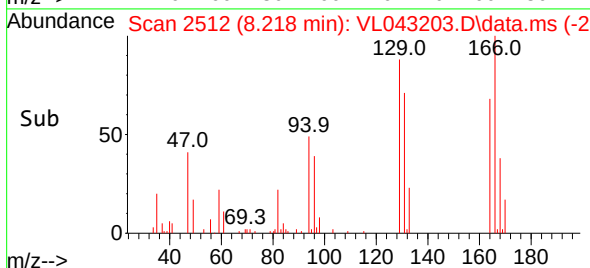
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

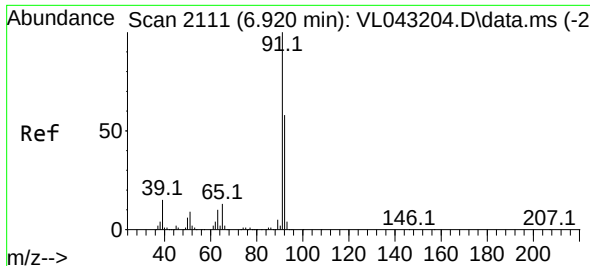


#52
Tetrachloroethene
Concen: 0.483 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29



Tgt Ion:164 Resp: 5097
Ion Ratio Lower Upper
164 100
166 147.2 99.4 149.2
129 127.2 81.8 122.8#
131 103.9 77.4 116.2





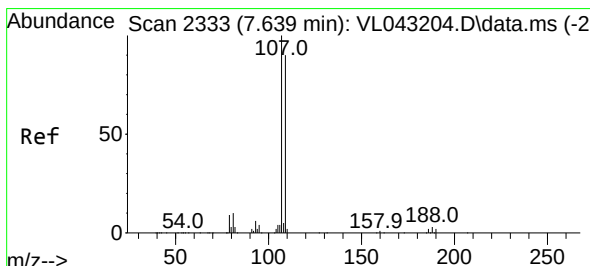
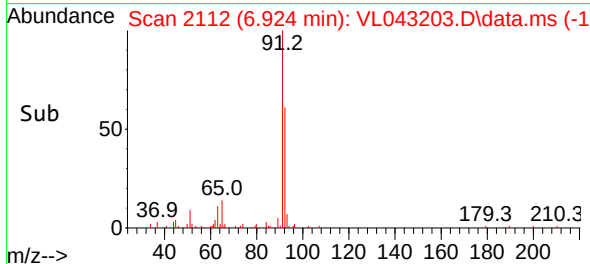
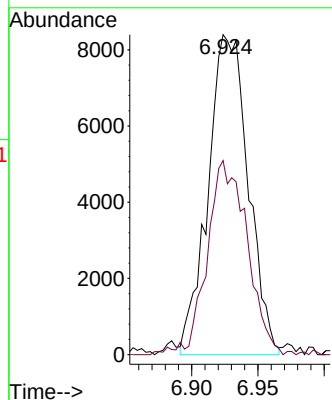
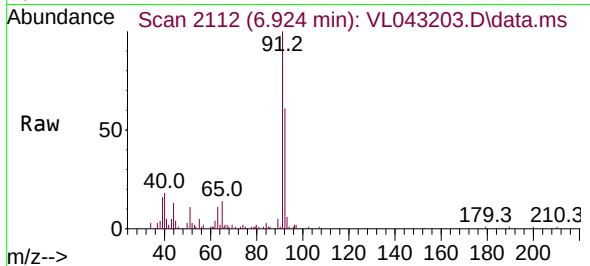
#53
Toluene
Concen: 0.525 ppbv m
RT: 6.924 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 1775
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0

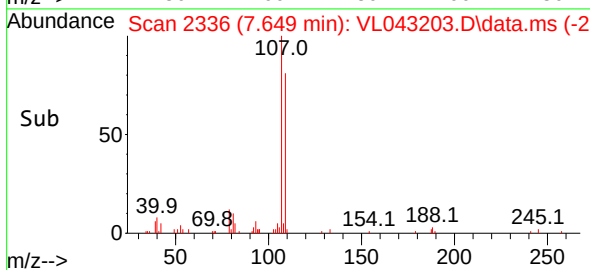
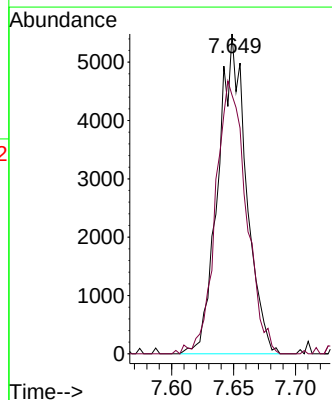
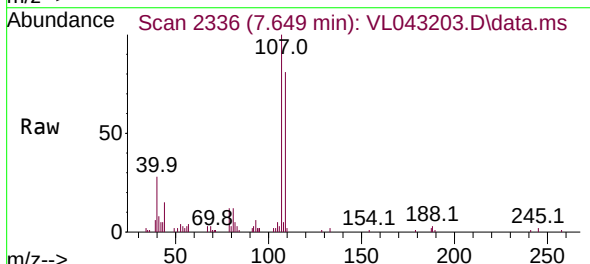
Manual Integrations
APPROVED

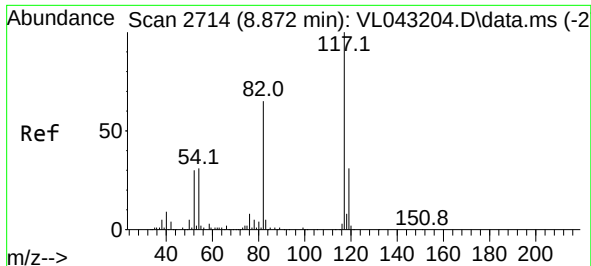
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#54
1,2-Dibromoethane
Concen: 0.537 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:107 Resp: 8708
Ion Ratio Lower Upper
107 100
109 80.8 72.1 108.1





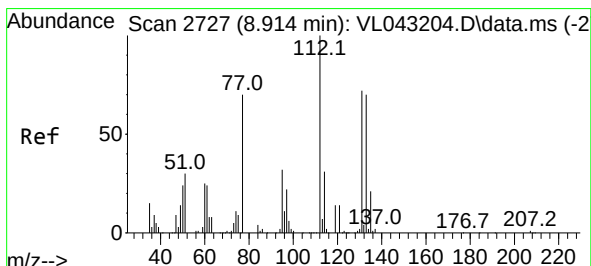
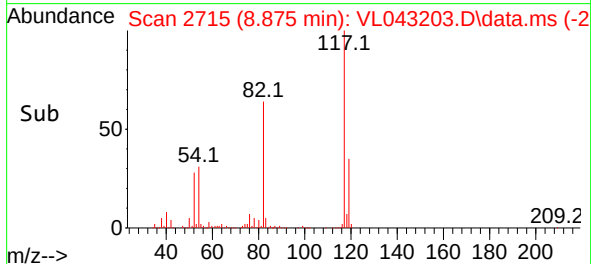
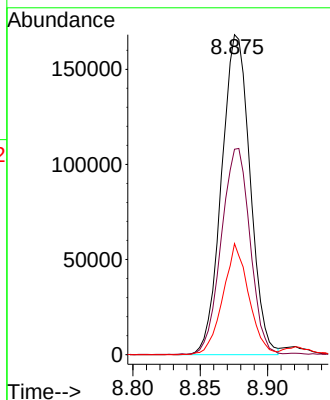
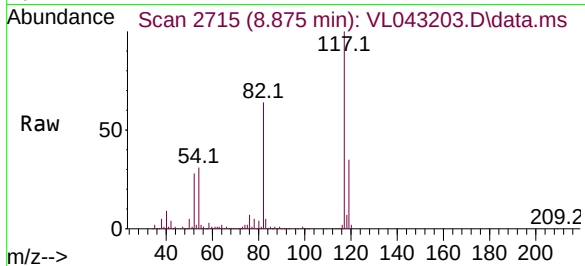
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:117 Resp: 247763
Ion Ratio Lower Upper
117 100
82 65.5 56.1 84.1
119 31.6 25.0 37.6

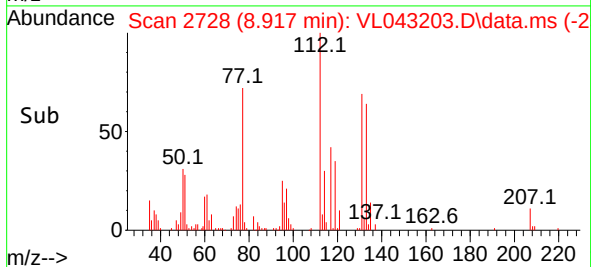
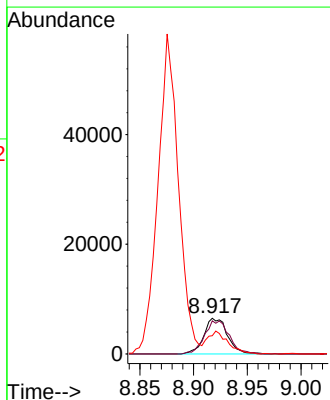
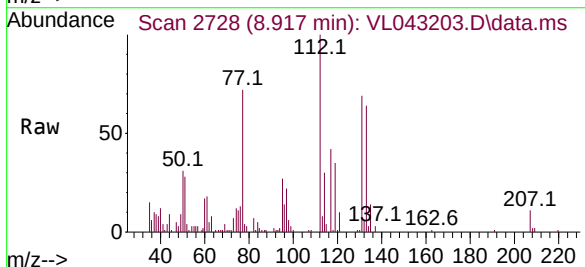
Manual Integrations
APPROVED

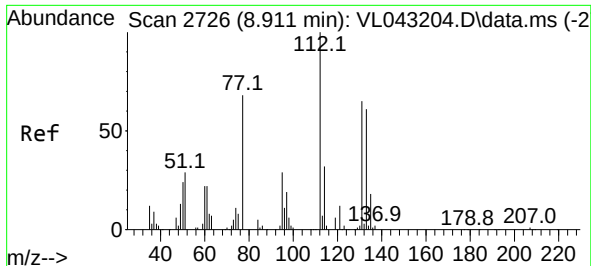
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.538 ppbv m
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:131 Resp: 9793
Ion Ratio Lower Upper
131 100
133 98.4 77.4 116.2
119 50.6 49.1 73.7





#57

Chlorobenzene

Concen: 0.504 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

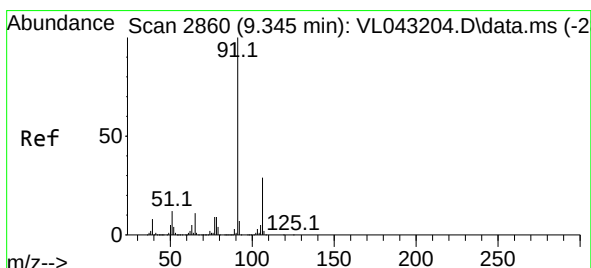
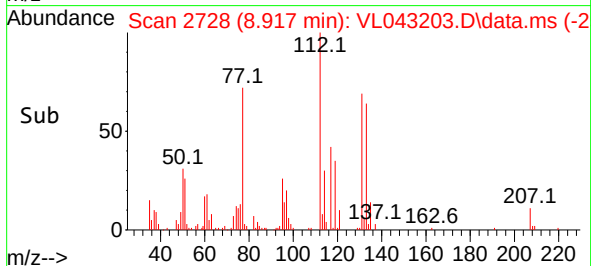
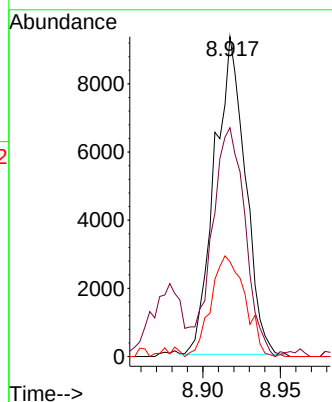
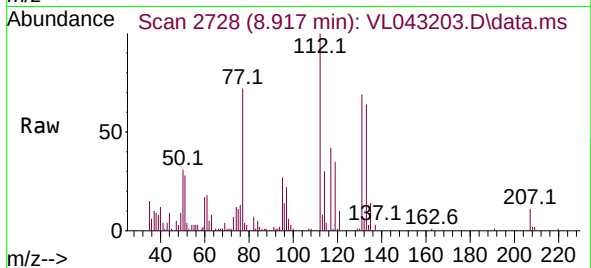
VSTDICC0.5

Tgt Ion:	112	Resp:	12818
Ion Ratio	Lower	Upper	
112	100		
77	69.0	55.5	83.3
114	29.2	29.1	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58

Ethyl Benzene

Concen: 0.500 ppbv

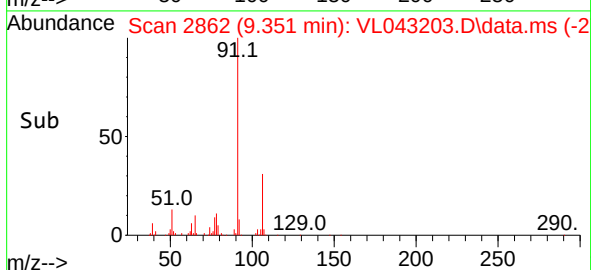
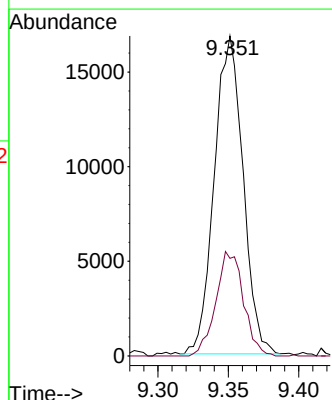
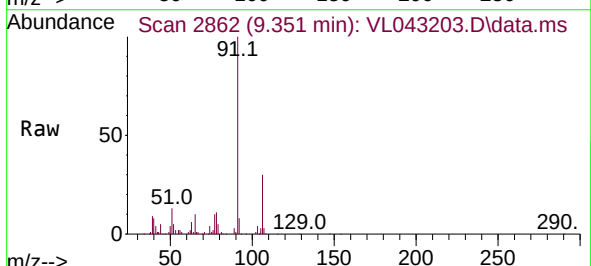
RT: 9.351 min Scan# 2862

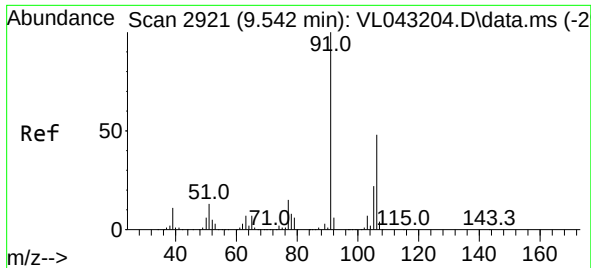
Delta R.T. 0.006 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Tgt Ion:	91	Resp:	23866
Ion Ratio	Lower	Upper	
91	100		
106	30.7	22.8	34.2





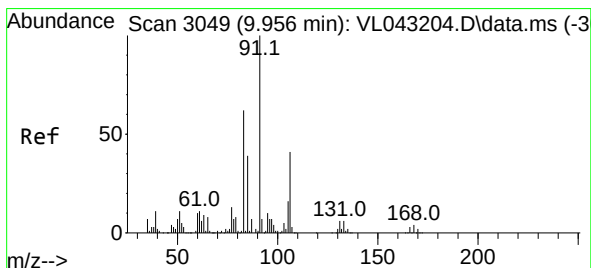
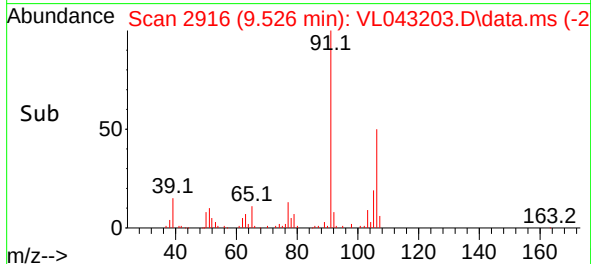
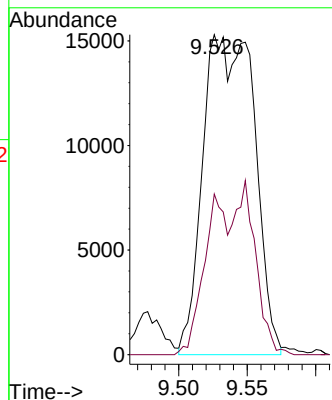
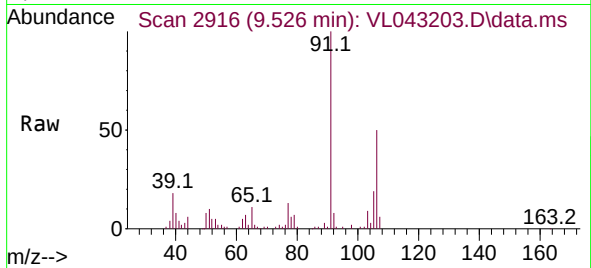
#59
m/p-Xylene
Concen: 1.044 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 40076
Ion Ratio Lower Upper
91 100
106 46.0 36.1 54.1

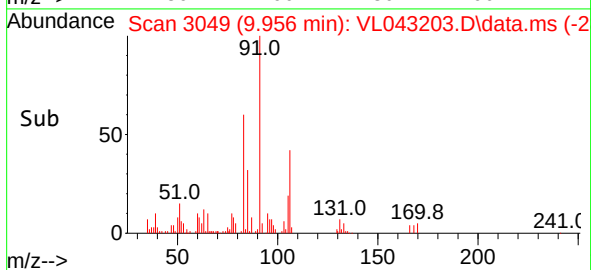
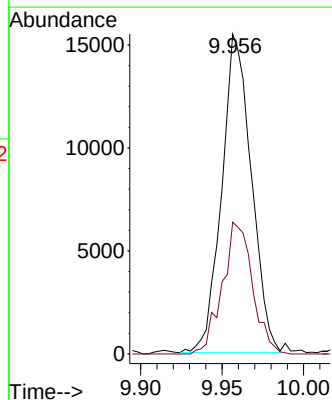
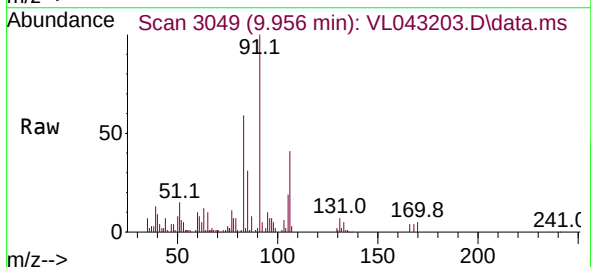
Manual Integrations
APPROVED

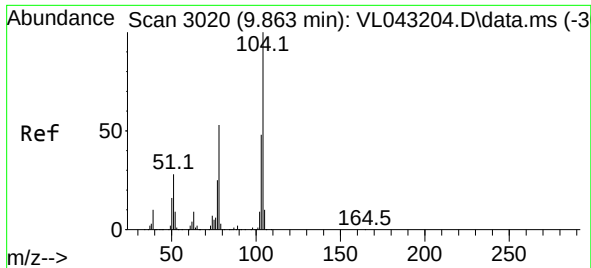
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 0.514 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 19621
Ion Ratio Lower Upper
91 100
106 42.0 20.9 62.8





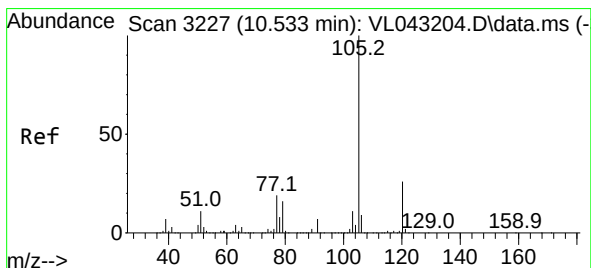
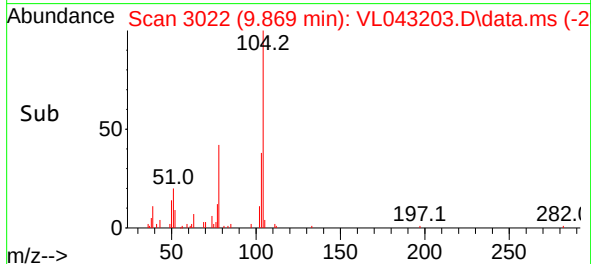
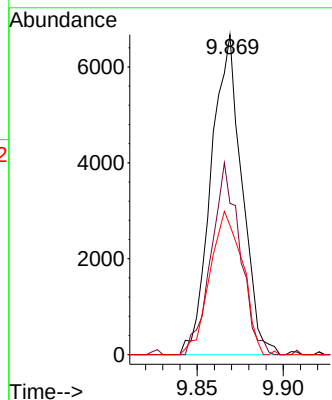
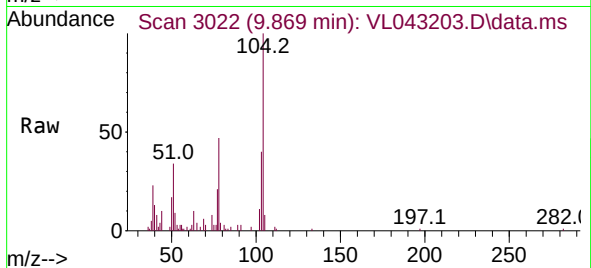
#61
Styrene
Concen: 0.496 ppbv
RT: 9.869 min Scan# 3020
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:104 Resp: 828
Ion Ratio Lower Upper
104 100
78 56.3 42.1 63.1
103 47.8 37.2 55.8

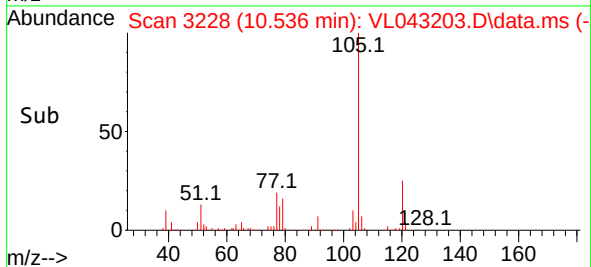
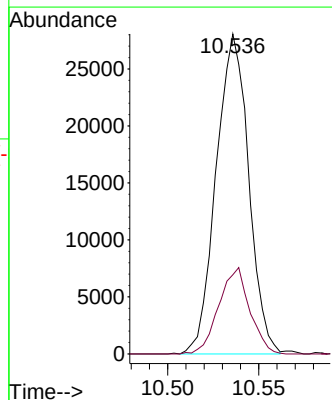
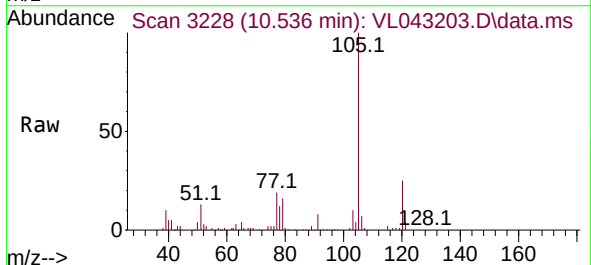
Manual Integrations
APPROVED

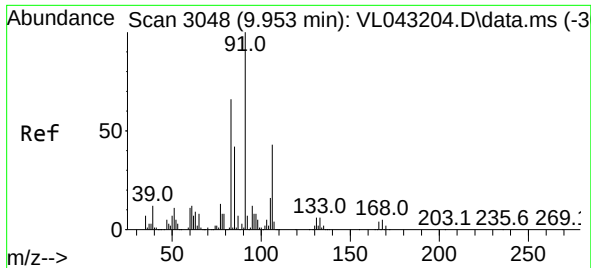
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#62
Isopropylbenzene
Concen: 0.509 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 34773
Ion Ratio Lower Upper
105 100
120 25.6 19.8 29.8





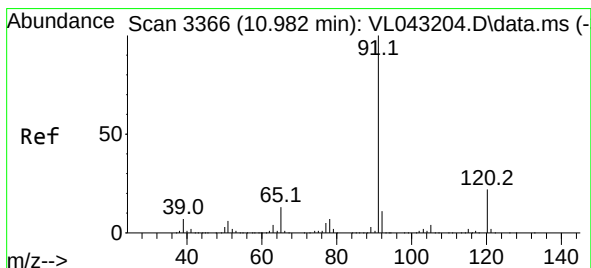
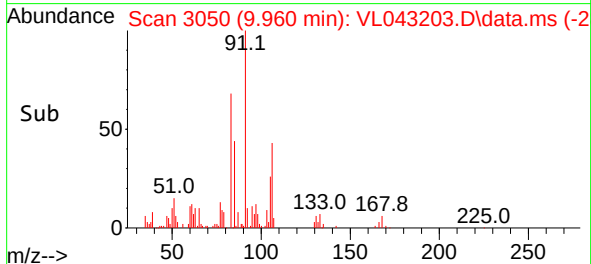
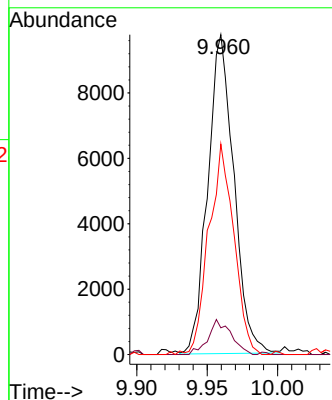
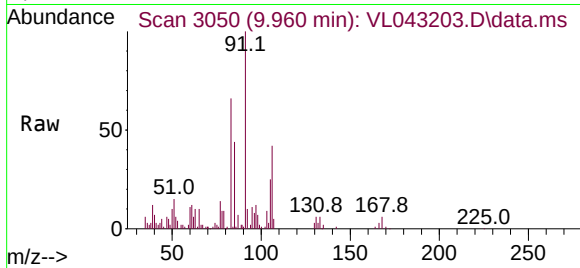
#63
1,1,2,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 9.960 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 1259
Ion Ratio Lower Upper
83 100
131 9.8 4.8 14.3
85 64.0 31.9 95.9

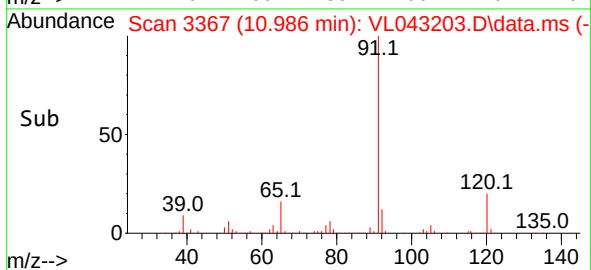
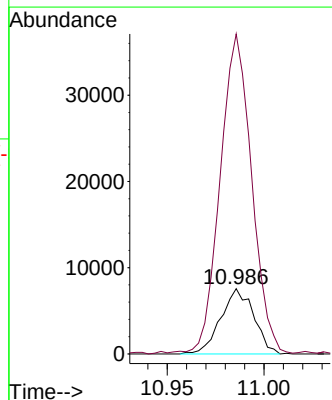
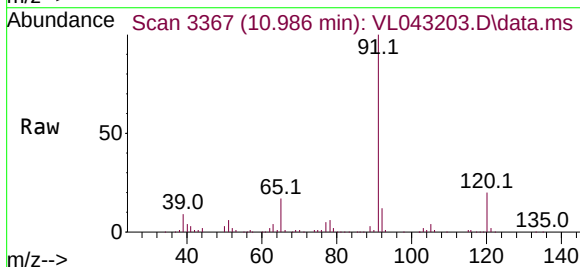
Manual Integrations
APPROVED

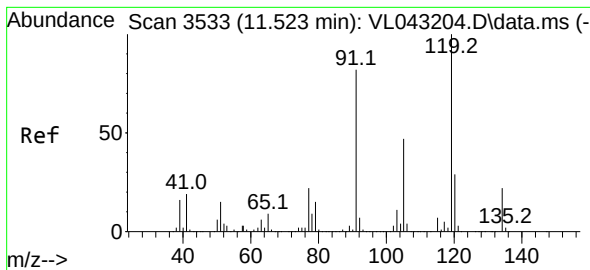
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#64
n-propylbenzene
Concen: 0.509 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:120 Resp: 8945
Ion Ratio Lower Upper
120 100
91 472.3 377.1 565.7





#65

tert-Butylbenzene

Concen: 0.524 ppbv

RT: 11.526 min Scan# 3533

Delta R.T. 0.003 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

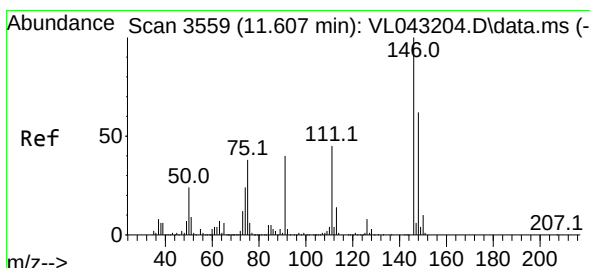
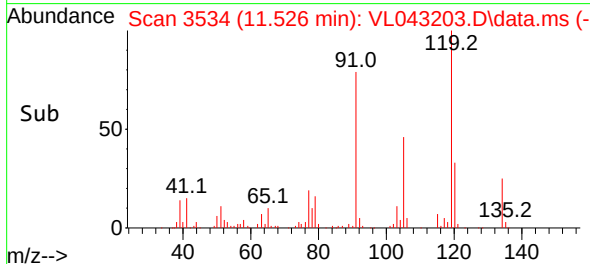
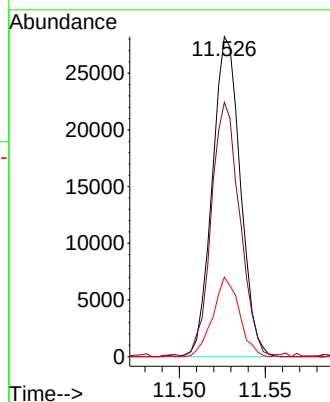
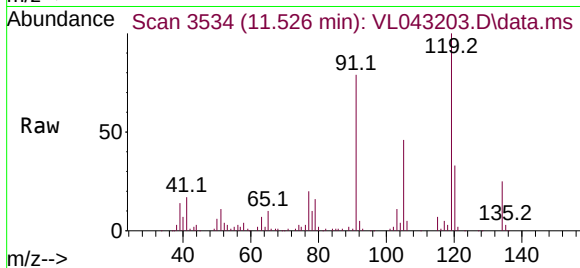
VSTDIC0.5

Tgt Ion:	119	Resp:	31998
Ion Ratio	Lower	Upper	
119	100		
91	81.6	65.3	97.9
134	23.4	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#66

Benzyl Chloride

Concen: 0.550 ppbv

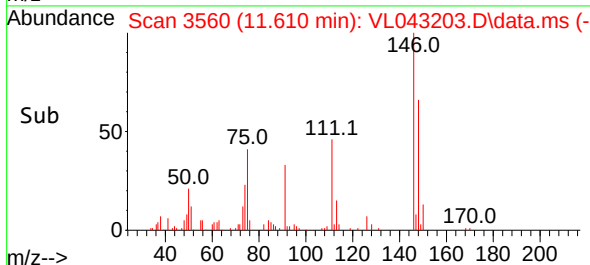
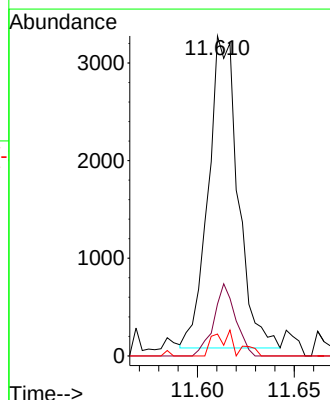
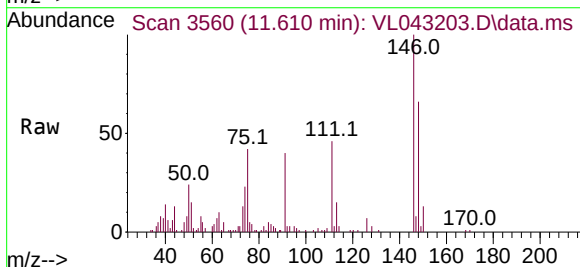
RT: 11.610 min Scan# 3560

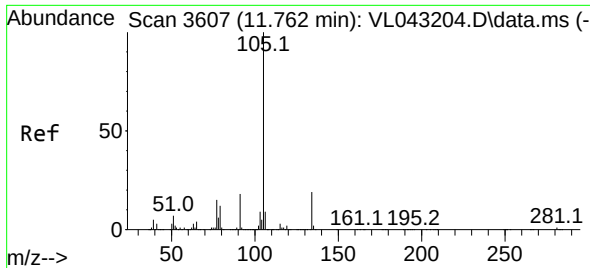
Delta R.T. 0.003 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

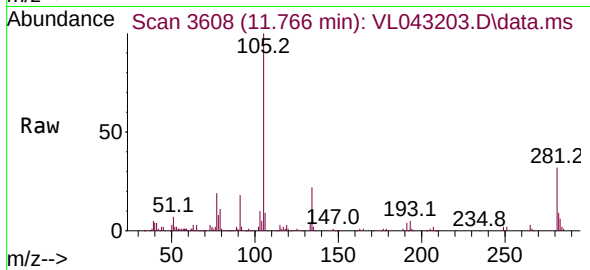
Tgt Ion:	91	Resp:	3403
Ion Ratio	Lower	Upper	
91	100		
126	16.8	14.4	21.6
128	6.1	4.6	6.8





#67
 sec-Butylbenzene
 Concen: 0.522 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29

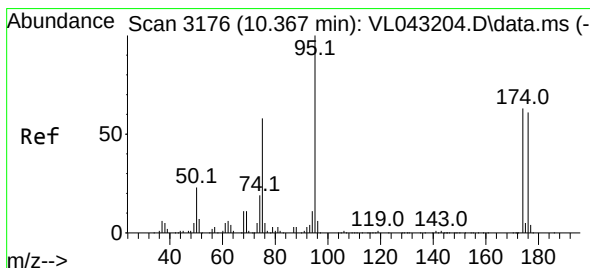
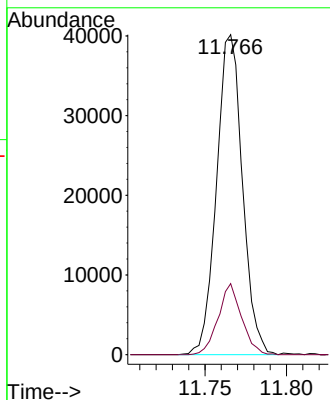
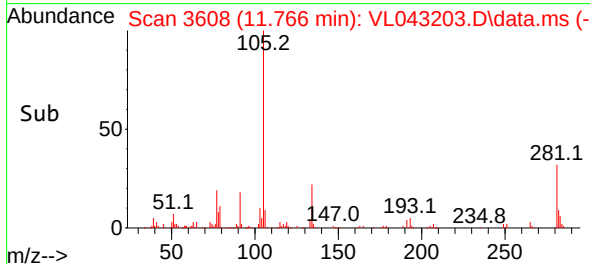
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5



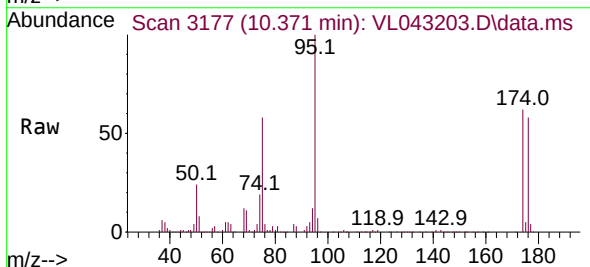
Tgt Ion:105 Resp: 44448
 Ion Ratio Lower Upper
 105 100
 134 20.0 15.0 22.6

Manual Integrations
 APPROVED

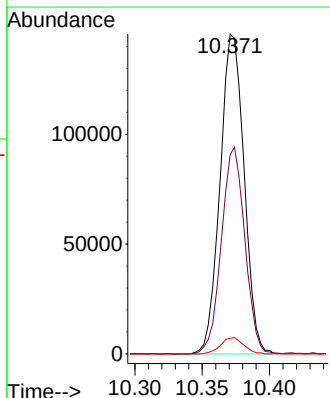
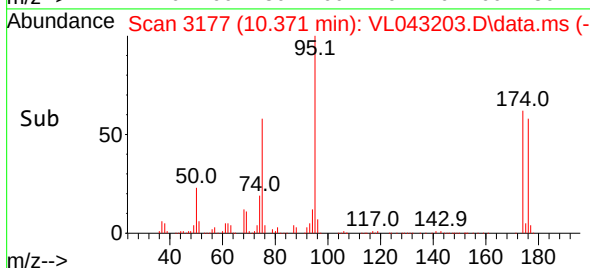
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

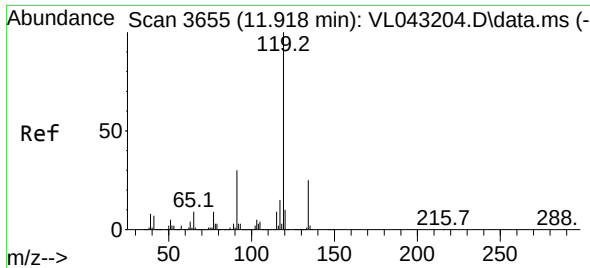


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.941 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043203.D
 Acq: 18 Nov 2025 09:29



Tgt Ion: 95 Resp: 180529
 Ion Ratio Lower Upper
 95 100
 174 63.2 50.2 75.2
 175 4.9 4.1 6.1





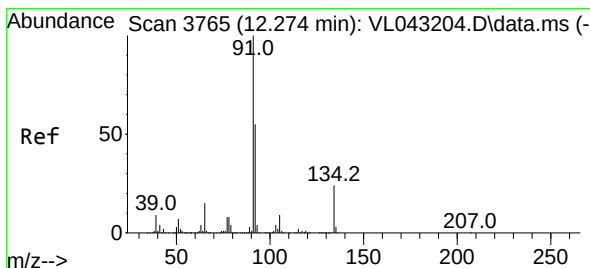
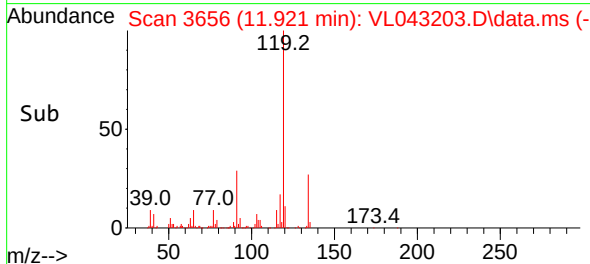
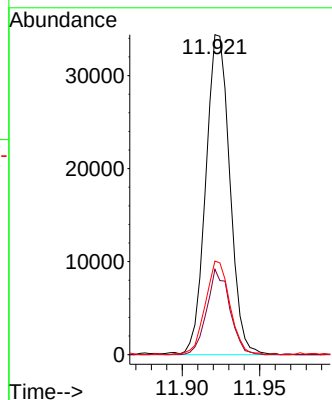
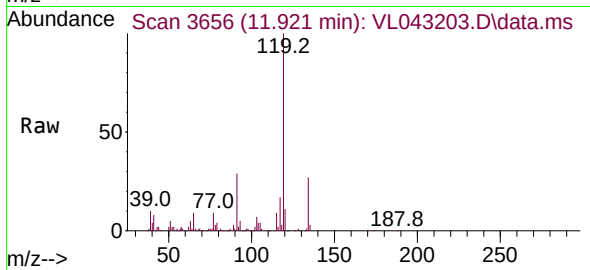
#69
p-Isopropyltoluene
Concen: 0.514 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:119 Resp: 37082
Ion Ratio Lower Upper
119 100
134 25.4 20.2 30.2
91 29.9 23.8 35.8

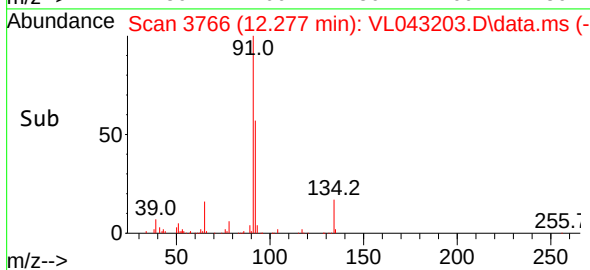
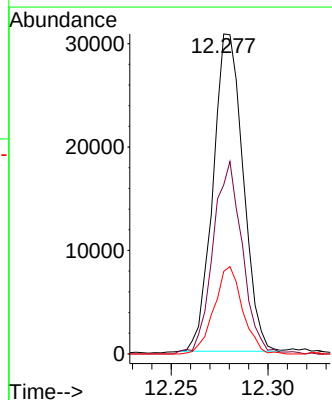
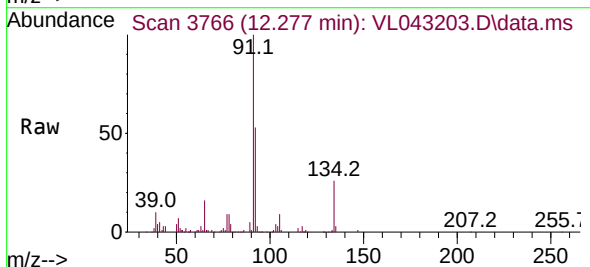
Manual Integrations
APPROVED

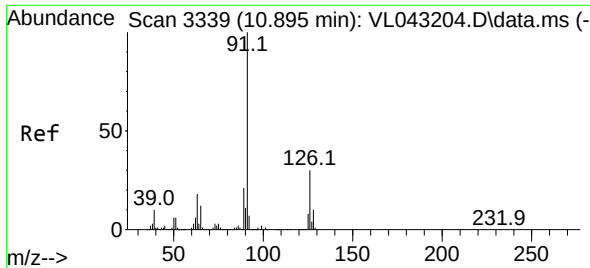
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#70
n-Butylbenzene
Concen: 0.474 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 33153
Ion Ratio Lower Upper
91 100
92 59.3 43.5 65.3
134 26.3 19.0 28.6





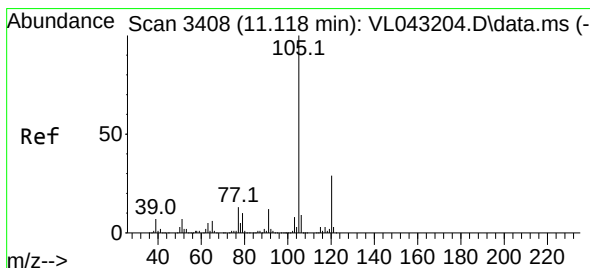
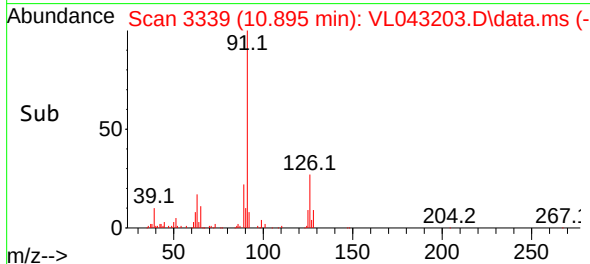
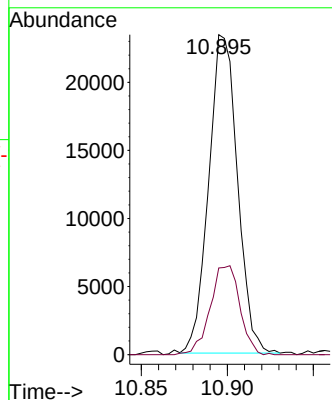
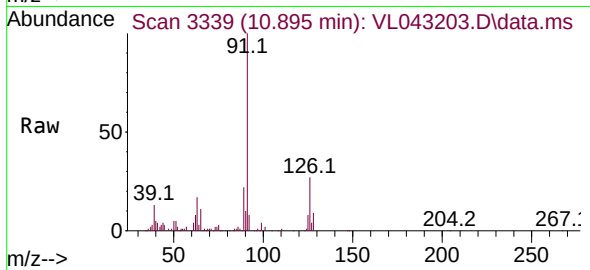
#71
2-Chlorotoluene
Concen: 0.518 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 27224
Ion Ratio Lower Upper
91 100
126 28.6 11.7 46.7

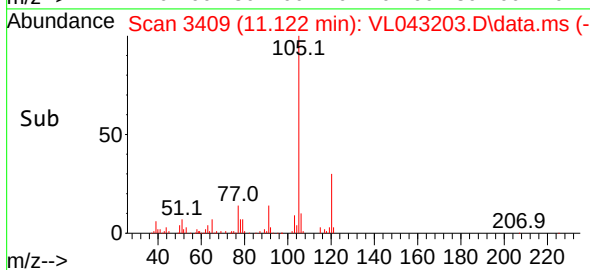
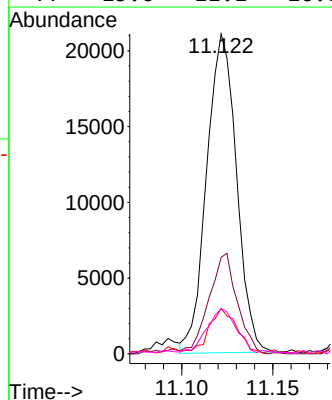
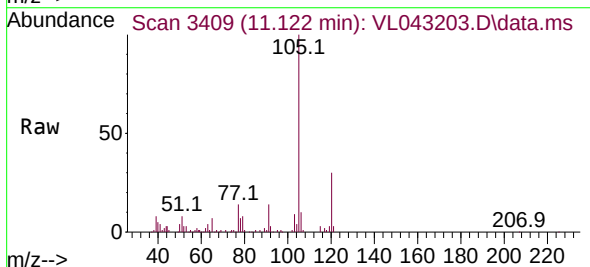
Manual Integrations
APPROVED

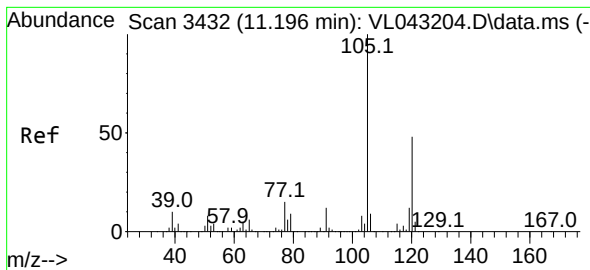
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 23963
Ion Ratio Lower Upper
105 100
120 31.3 23.8 35.8
91 14.6 10.3 15.5
77 15.6 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.515 ppbv

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

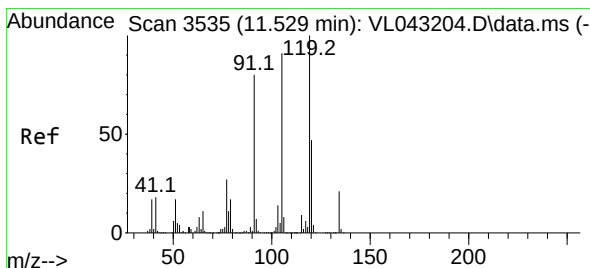
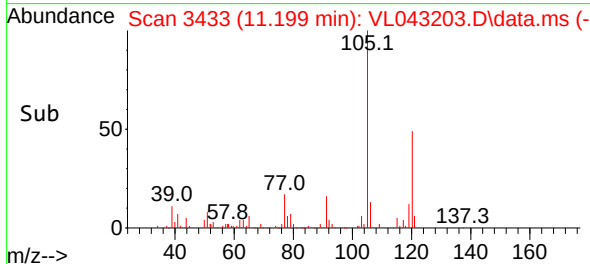
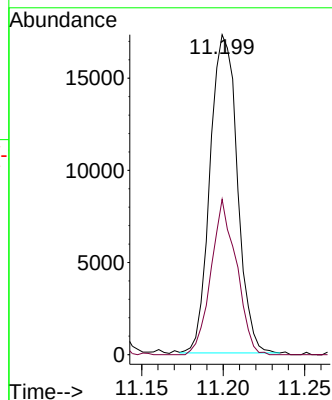
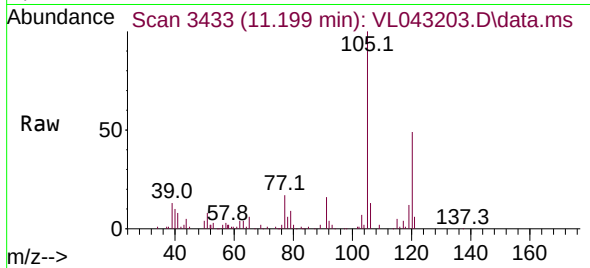
VSTDIC0.5

Tgt Ion:	105	Resp:	20104
Ion Ratio	Lower	Upper	
105	100		
120	48.8	38.6	57.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.522 ppbv

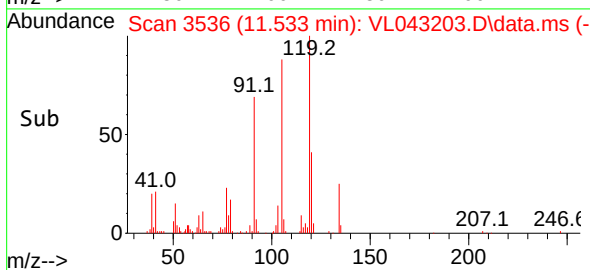
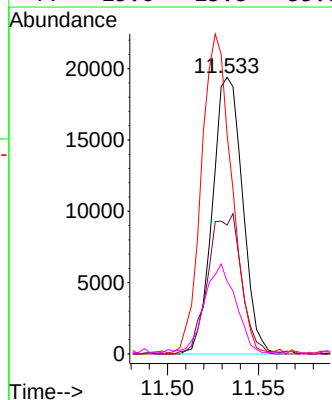
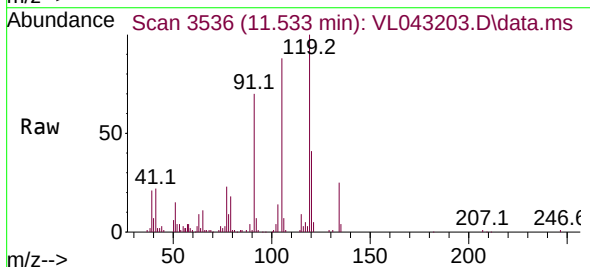
RT: 11.533 min Scan# 3536

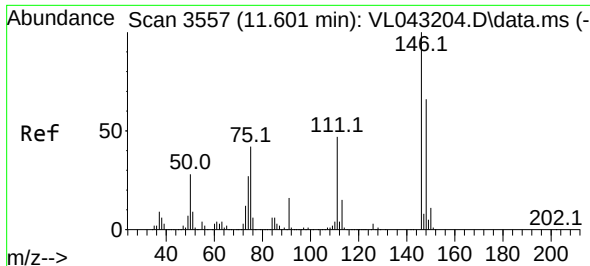
Delta R.T. 0.003 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Tgt Ion:	105	Resp:	22254
Ion Ratio	Lower	Upper	
105	100		
120	46.6	41.7	62.5
91	77.8	70.0	105.0
77	25.6	23.8	35.8





#75

1,3-Dichlorobenzene

Concen: 0.520 ppbv

RT: 11.604 min Scan# 3557

Delta R.T. 0.003 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_1

ClientSampleId :

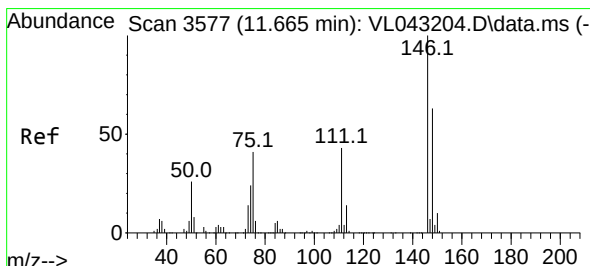
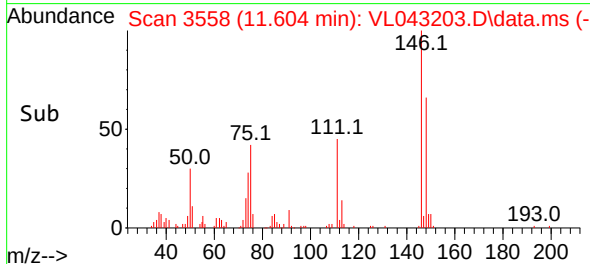
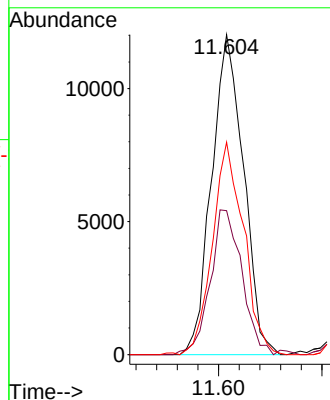
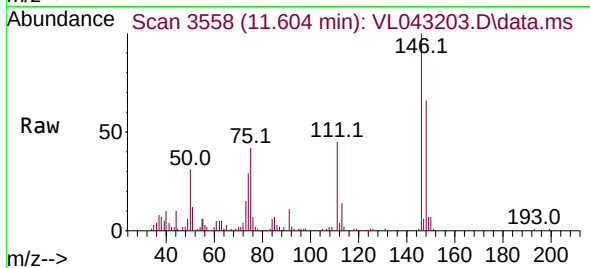
VSTDIC0.5

Tgt Ion:146	Resp:	12926
Ion Ratio	Lower	Upper
146	100	
111	45.1	23.4 70.3
148	64.7	31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#76

1,4-Dichlorobenzene

Concen: 0.526 ppbv

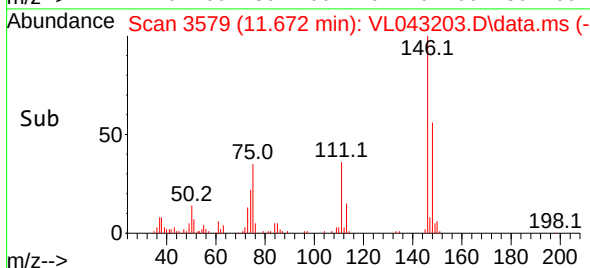
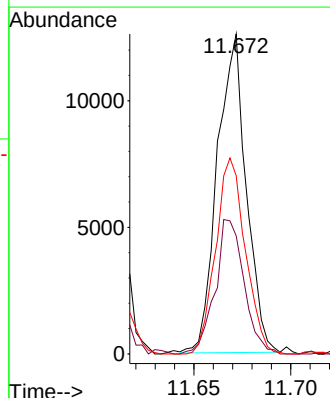
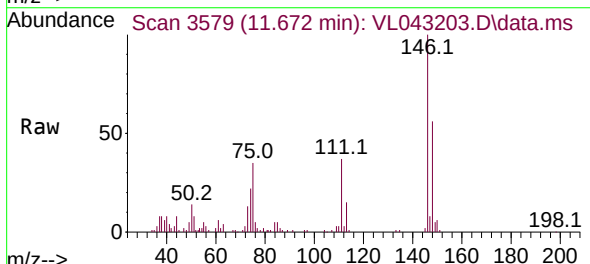
RT: 11.672 min Scan# 3579

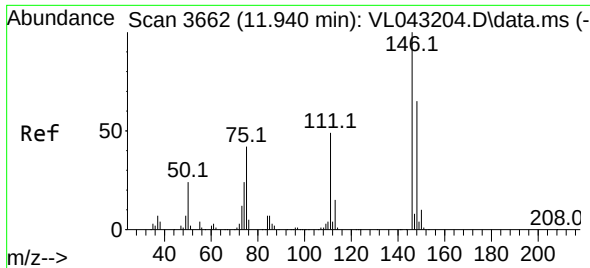
Delta R.T. 0.007 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Tgt Ion:146	Resp:	13076
Ion Ratio	Lower	Upper
146	100	
111	42.1	22.8 68.3
148	63.8	31.8 95.4





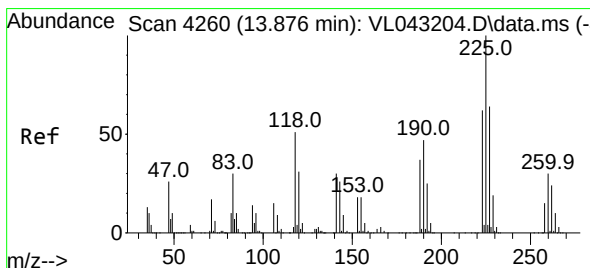
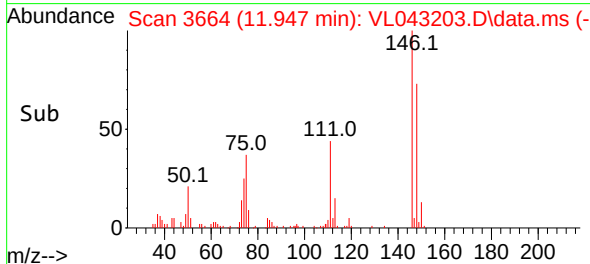
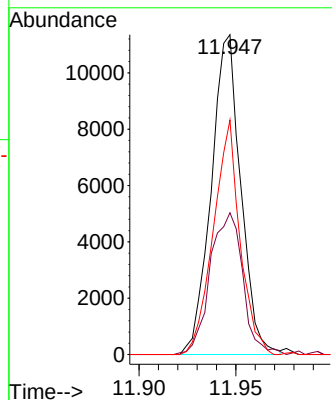
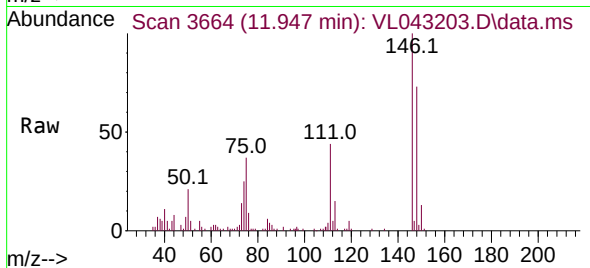
#77
1,2-Dichlorobenzene
Concen: 0.505 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 12069
Ion Ratio Lower Upper
146 100
111 49.5 24.3 73.0
148 66.3 31.6 94.7

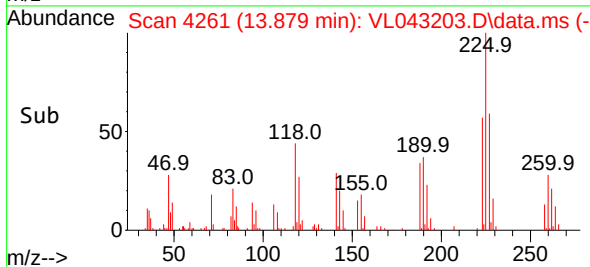
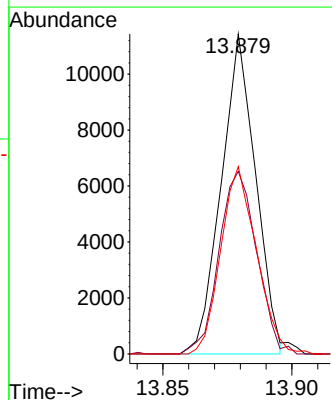
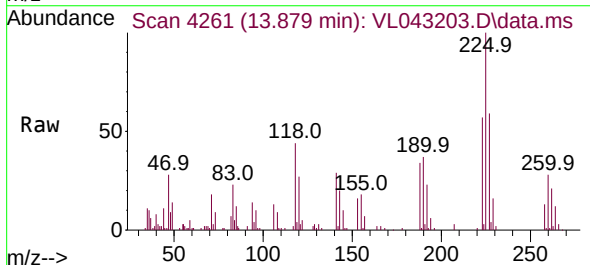
Manual Integrations
APPROVED

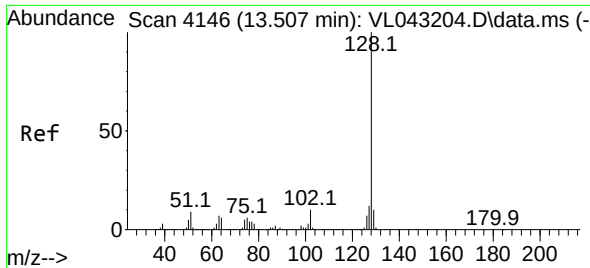
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#78
Hexachloro-1,3-Butadiene
Concen: 0.530 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:225 Resp: 10578
Ion Ratio Lower Upper
225 100
223 62.7 50.2 75.4
227 61.0 51.1 76.7





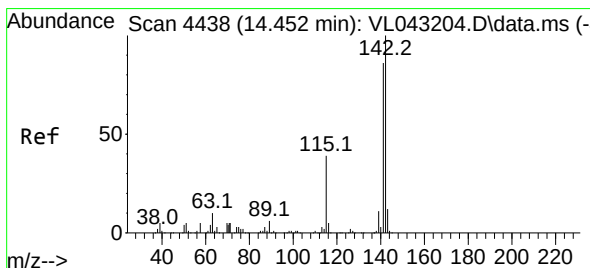
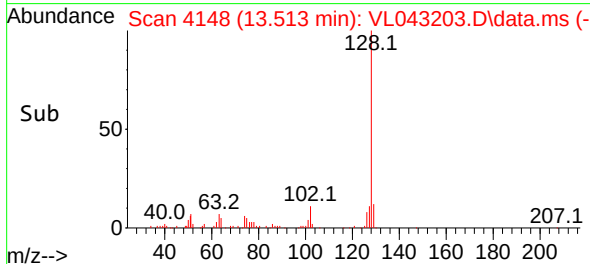
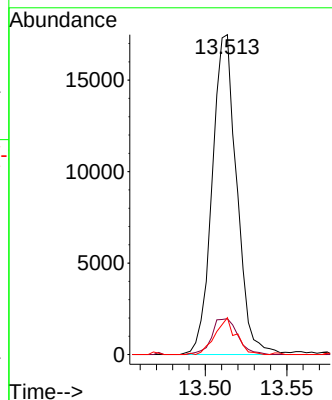
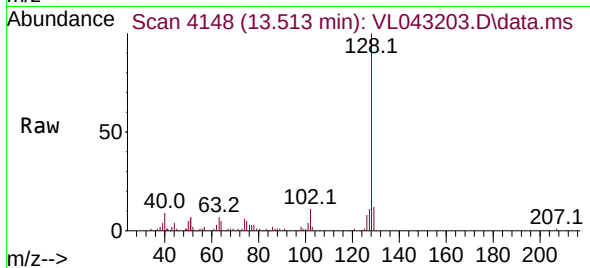
#79
Naphthalene
Concen: 0.486 ppbv
RT: 13.513 min Scan# 4146
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:128 Resp: 1837
Ion Ratio Lower Upper
128 100
127 11.2 9.9 14.9
129 11.5 8.4 12.6

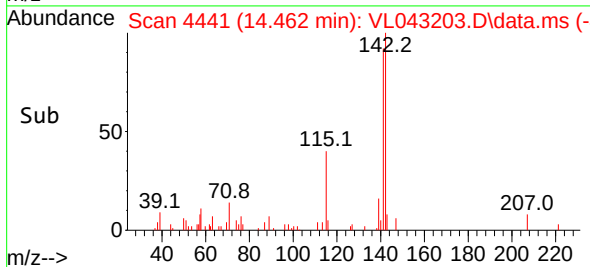
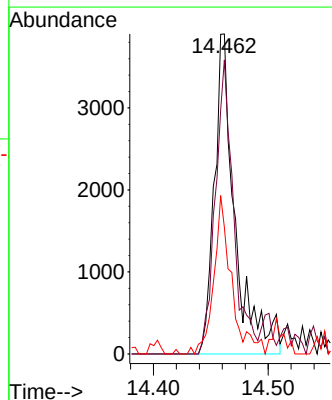
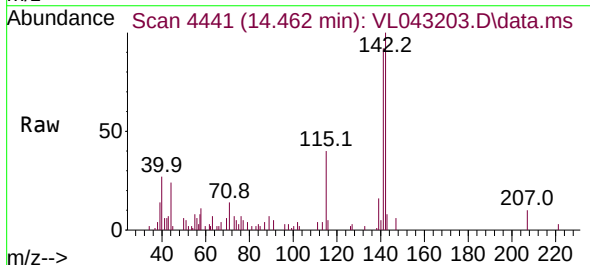
Manual Integrations
APPROVED

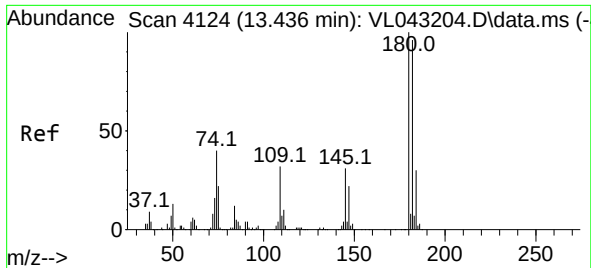
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#80
Naphthalene,2-methyl-
Concen: 0.495 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:142 Resp: 4917
Ion Ratio Lower Upper
142 100
141 90.2 67.1 100.7
115 47.3 31.9 47.9





#81

1,2,4-Trichlorobenzene

Concen: 0.402 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043203.D

Acq: 18 Nov 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion:180 Resp: 6798

Ion Ratio Lower Upper

180 100

182 95.7 77.4 116.2

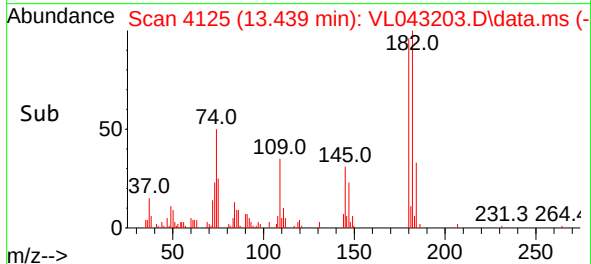
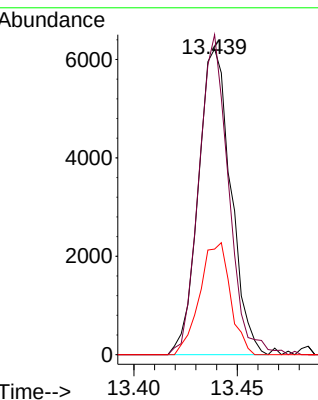
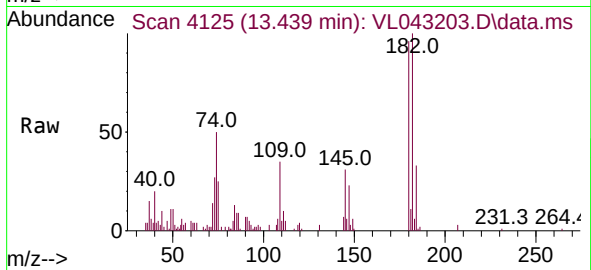
184 34.3 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	105095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 172524 10.025 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv	100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv	100
4) Chloromethane	1.531	50	52372	9.450	ppbv	100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv	100
6) Bromomethane	1.664	94	26542	9.034	ppbv	100
7) Chloroethane	1.700	64	20375	8.632	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv	100
9) Propene	1.480	41	52671	7.789	ppbv #	1
10) Heptane	4.965	43	168611	9.090	ppbv	100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv	100
13) Ethanol	1.716	45	17464	8.023	ppbv	100
14) Bromoethene	1.777	108	38037	8.849	ppbv	100
15) Acetone	1.832	43	108422	7.426	ppbv	100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv	100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv	100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv	100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv	100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv	100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv	100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv	100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv	100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv	100
26) Hexane	2.820	57	129809	9.402	ppbv	100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv	100
29) Chloroform	2.842	83	187620	9.561	ppbv	100
30) Cyclohexane	3.846	84	107621	9.297	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv	100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv	100
34) 2-Butanone	2.551	43	182749	9.121	ppbv	100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv	100
36) Benzene	3.648	78	256954	9.453	ppbv	100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv	100
38) Trichloroethene	4.535	130	100136	9.398	ppbv	100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv	100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv #	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv	100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv	100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv	100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv	100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

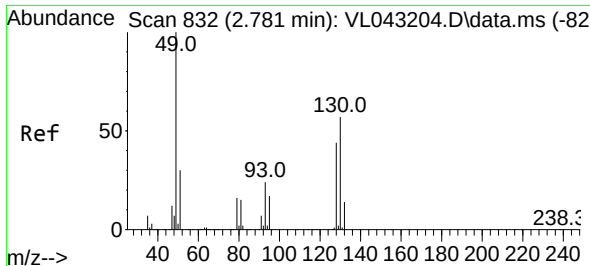
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

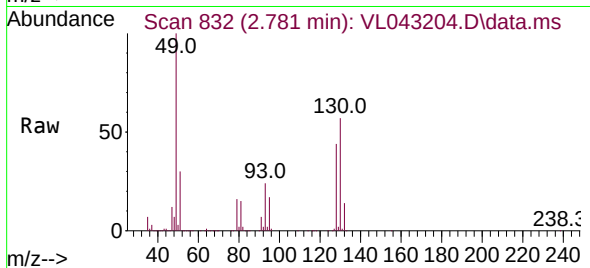
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv	100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv	100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv	100
49) Bromoform	9.474	173	157563	9.800	ppbv	100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv	100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv #	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv	100
53) Toluene	6.920	91	305169	9.422	ppbv	100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv	100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv	100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv	100
59) m/p-Xylene	9.542	91	673371m	18.519	ppbv	
60) o-Xylene	9.956	91	333044	9.202	ppbv	100
61) Styrene	9.863	104	152172	9.607	ppbv	100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv	100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv	100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv	100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv	100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv	100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv	100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv	100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv	100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv	100
79) Naphthalene	13.507	128	351148	9.795	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

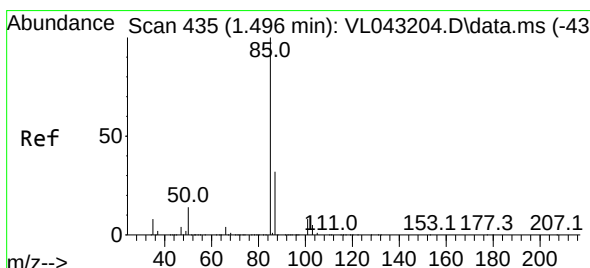
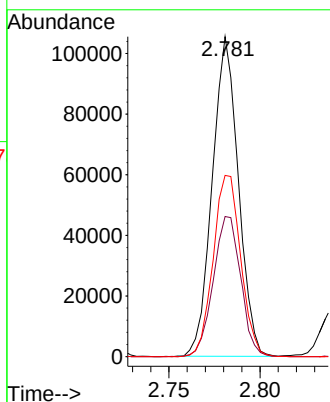
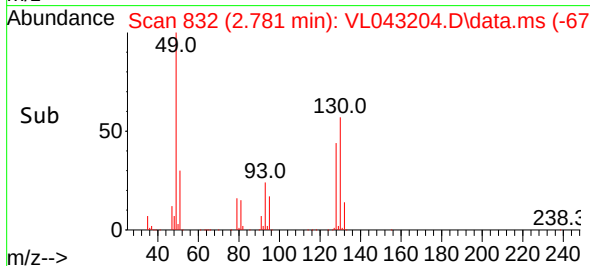
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



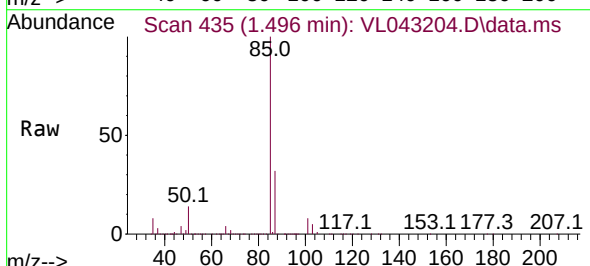
Tgt Ion: 49 Resp: 105095
Ion Ratio Lower Upper
49 100
128 46.0 23.0 69.0
130 59.8 29.9 89.7

Manual Integrations
APPROVED

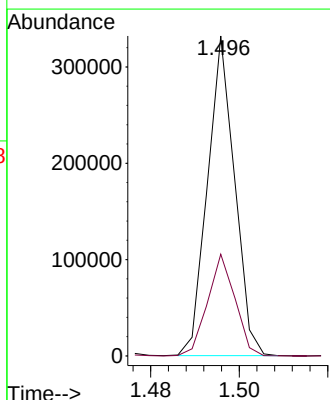
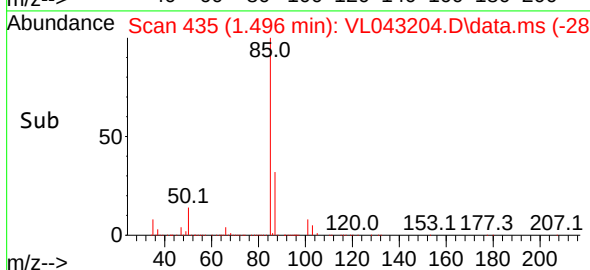
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

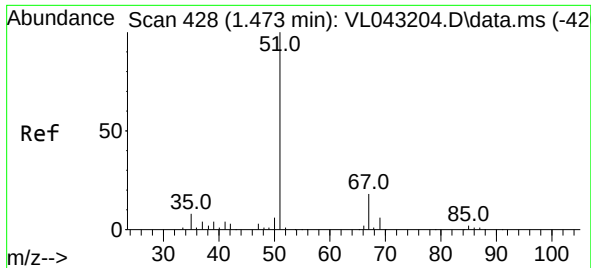


#2
Dichlorodifluoromethane
Concen: 9.498 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



Tgt Ion: 85 Resp: 140789
Ion Ratio Lower Upper
85 100
87 31.8 25.4 38.2





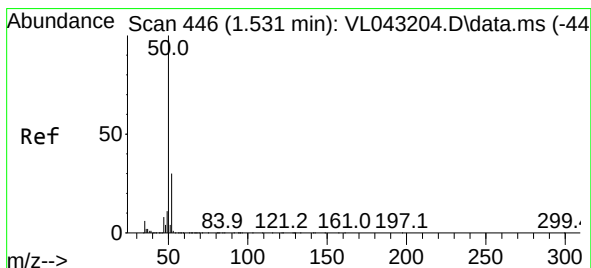
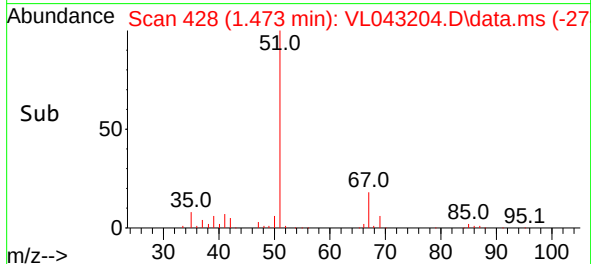
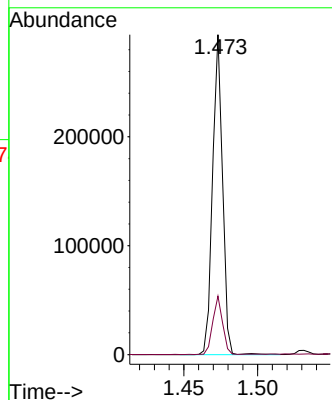
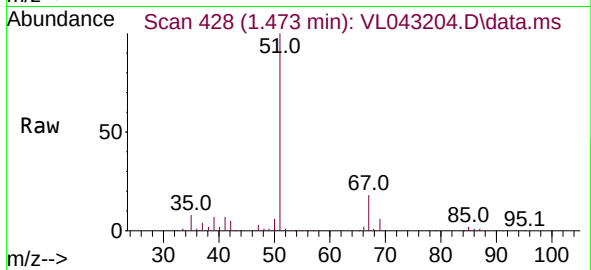
#3
Chlorodifluoromethane
Concen: 9.497 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 138443
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3

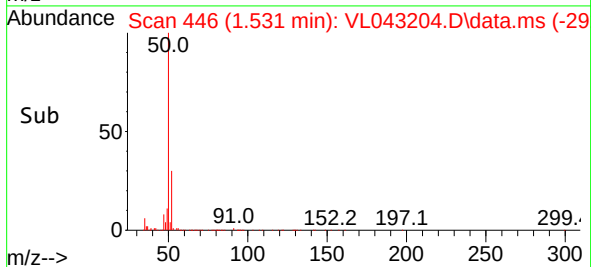
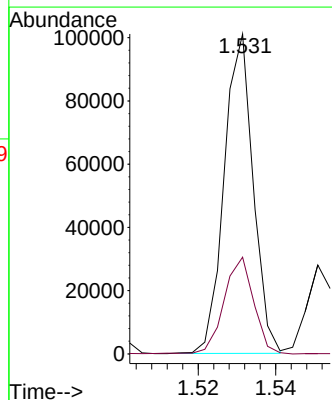
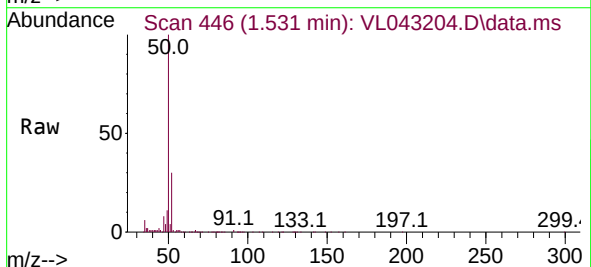
Manual Integrations
APPROVED

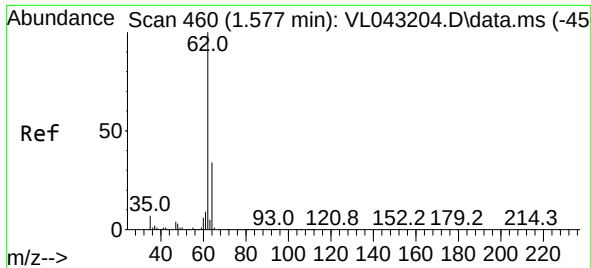
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 9.450 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

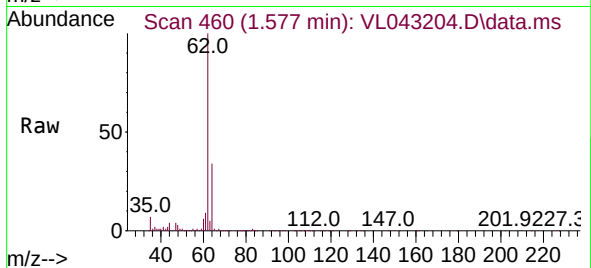
Tgt Ion: 50 Resp: 52372
Ion Ratio Lower Upper
50 100
52 30.1 24.1 36.1





#5
 Vinyl Chloride
 Concen: 8.422 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

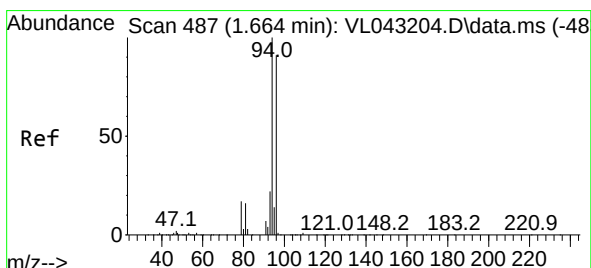
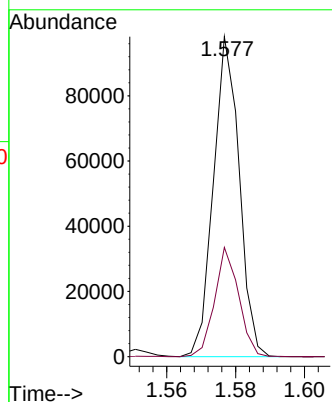
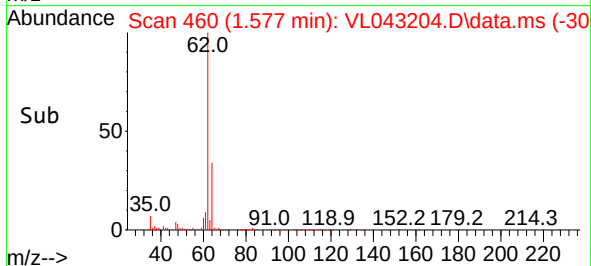
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



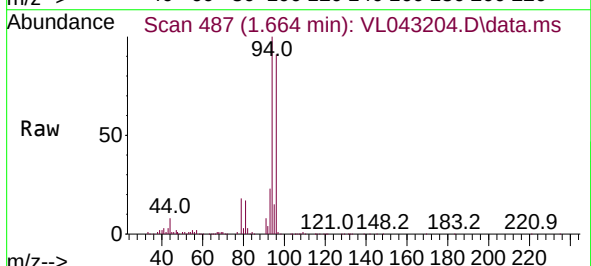
Tgt Ion: 62 Resp: 51045
 Ion Ratio Lower Upper
 62 100
 64 34.1 27.3 40.9

Manual Integrations
 APPROVED

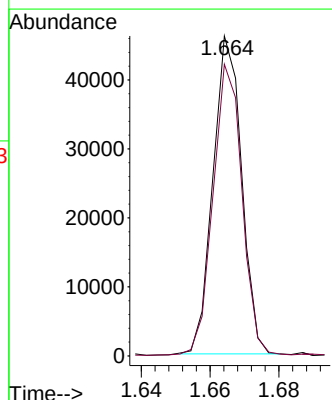
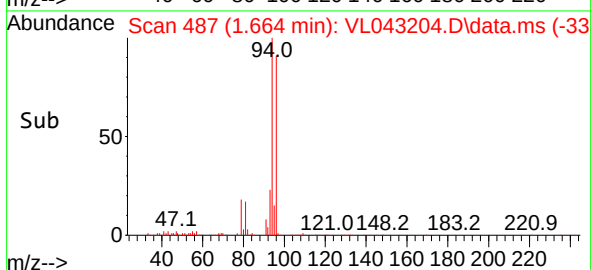
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

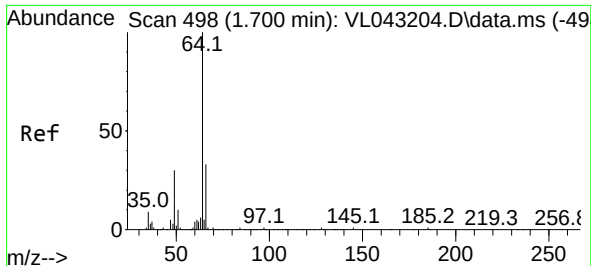


#6
 Bromomethane
 Concen: 9.034 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02



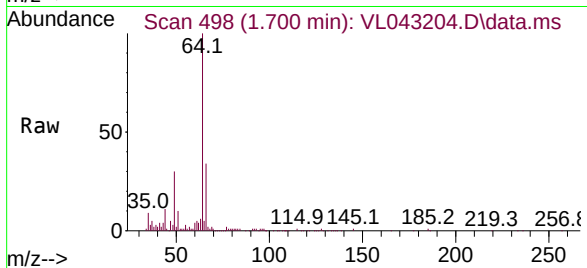
Tgt Ion: 94 Resp: 26542
 Ion Ratio Lower Upper
 94 100
 96 91.1 72.9 109.3





#7
Chloroethane
Concen: 8.632 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

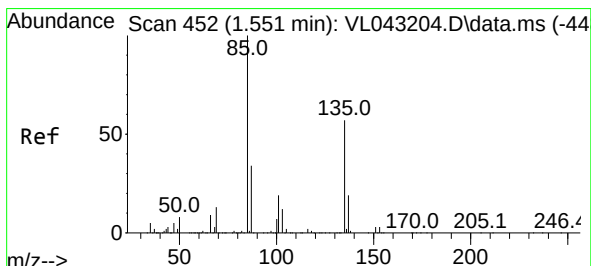
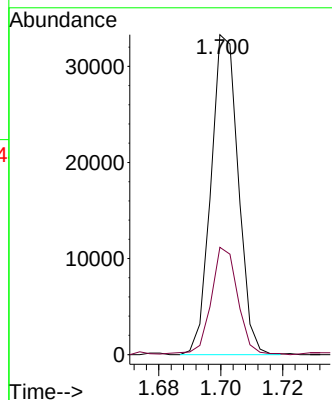
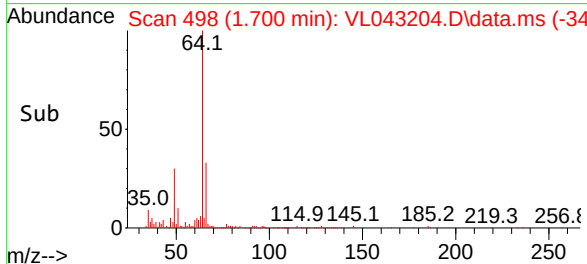
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



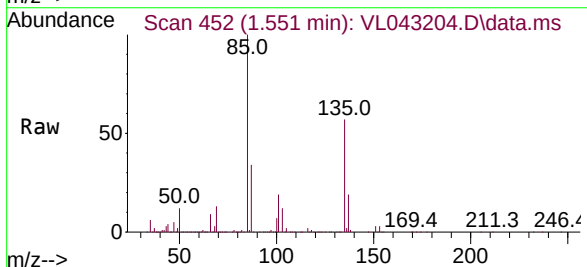
Tgt Ion: 64 Resp: 20375
Ion Ratio Lower Upper
64 100
66 33.5 26.8 40.2

Manual Integrations
APPROVED

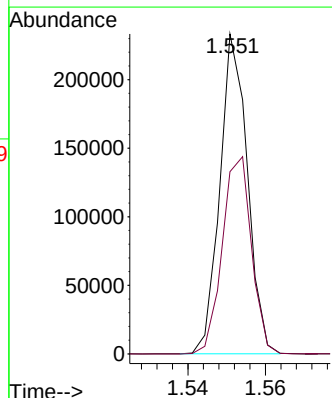
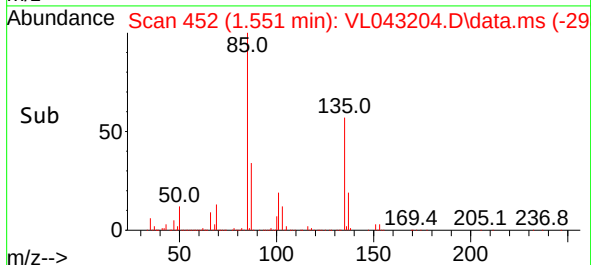
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

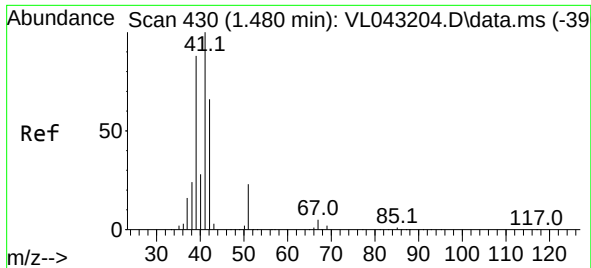


#8
Dichlorotetrafluoroethane
Concen: 9.300 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



Tgt Ion: 85 Resp: 114670
Ion Ratio Lower Upper
85 100
135 65.8 52.6 79.0





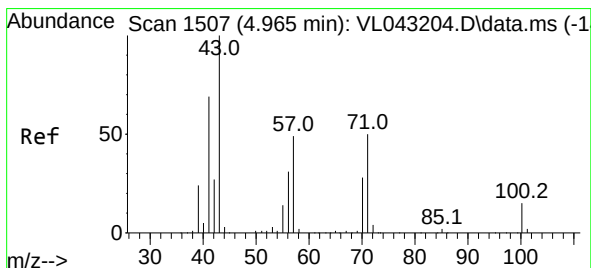
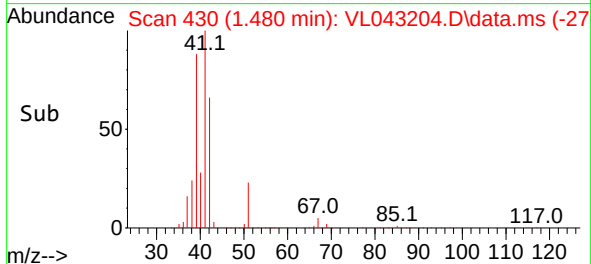
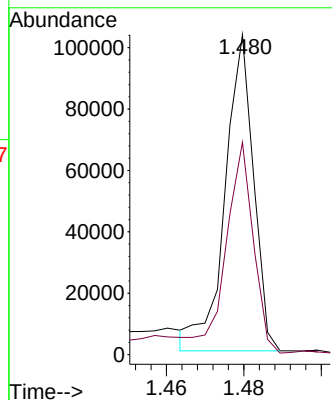
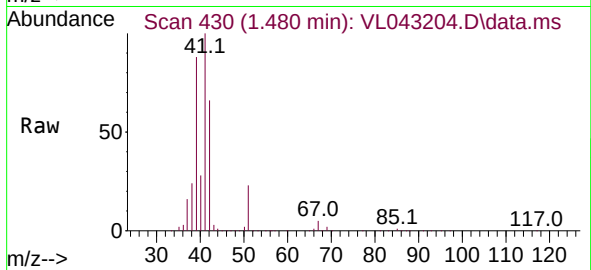
#9
 Propene
 Concen: 7.789 ppbv
 RT: 1.480 min Scan# 430
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 5267
 Ion Ratio Lower Upper
 41 100
 42 105.2 3.7 5.5

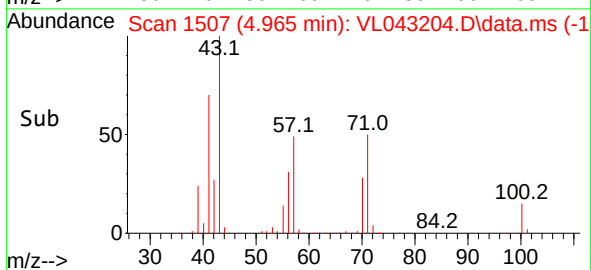
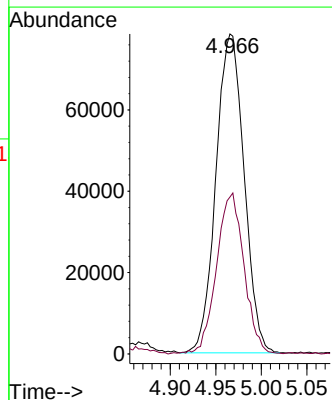
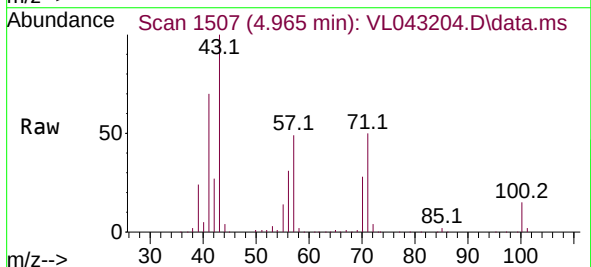
Manual Integrations
 APPROVED

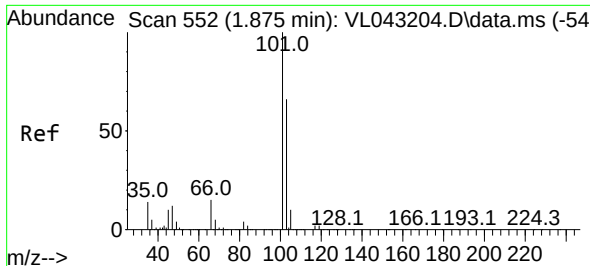
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 9.090 ppbv
 RT: 4.965 min Scan# 1507
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

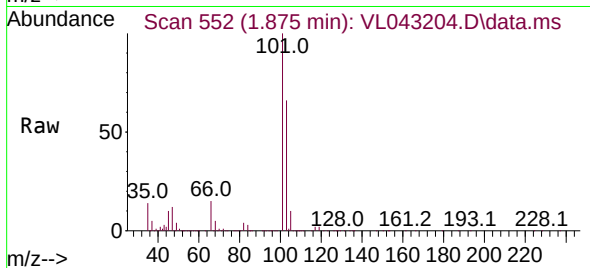
Tgt Ion: 43 Resp: 168611
 Ion Ratio Lower Upper
 43 100
 57 49.6 39.7 59.5





#11
Trichlorofluoromethane
Concen: 9.077 ppbv
RT: 1.875 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

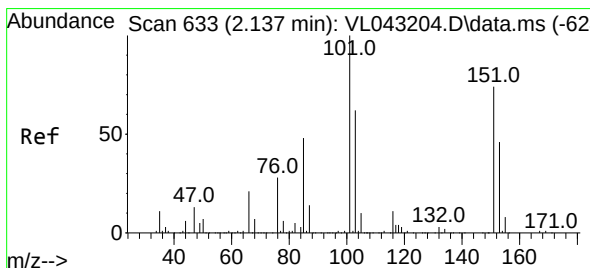
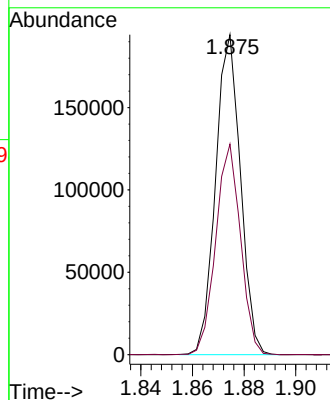
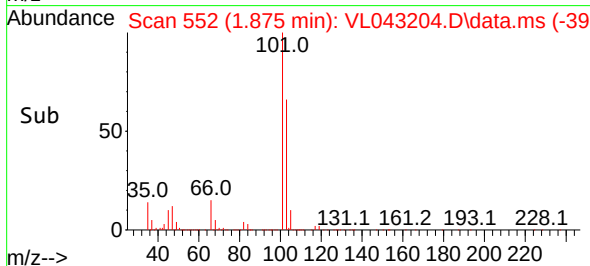
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



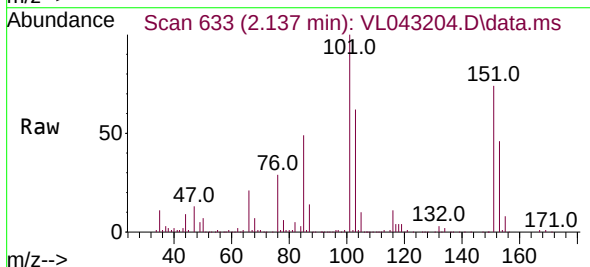
Tgt Ion:101 Resp: 130362
Ion Ratio Lower Upper
101 100
103 65.8 52.6 79.0

Manual Integrations
APPROVED

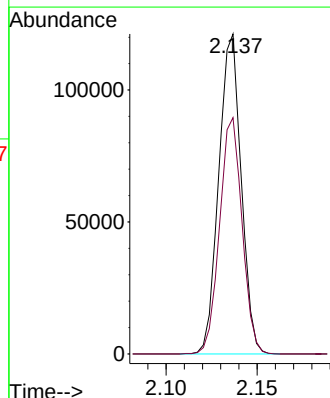
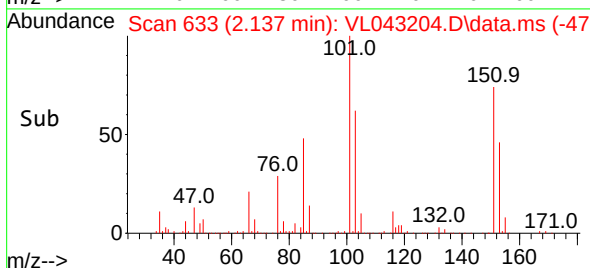
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

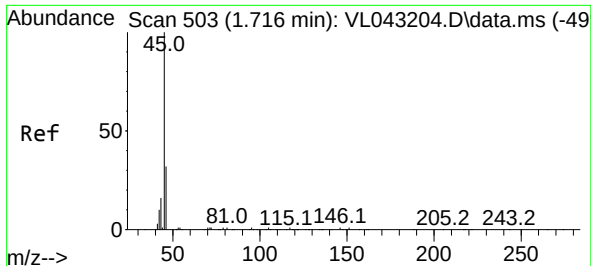


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.247 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



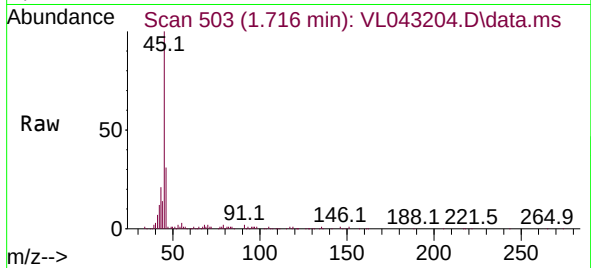
Tgt Ion:101 Resp: 103679
Ion Ratio Lower Upper
101 100
151 74.0 59.2 88.8





#13
Ethanol
Concen: 8.023 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

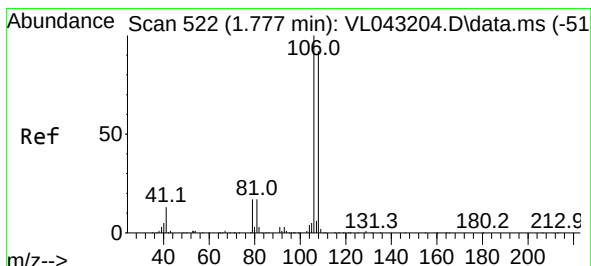
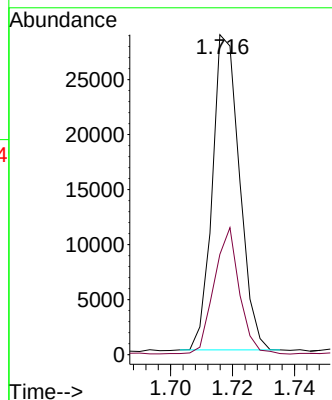
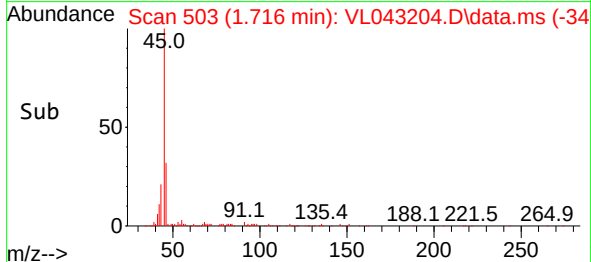
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



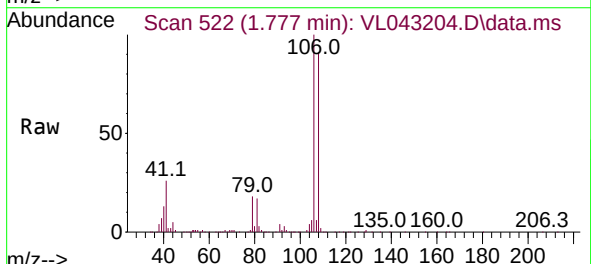
Tgt Ion: 45 Resp: 17464
Ion Ratio Lower Upper
45 100
46 37.4 15.0 59.8

Manual Integrations
APPROVED

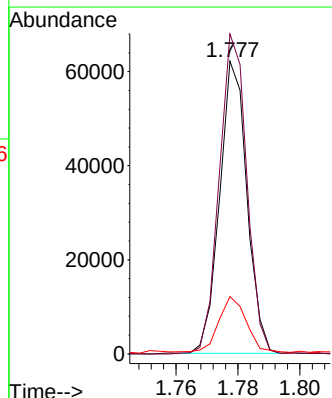
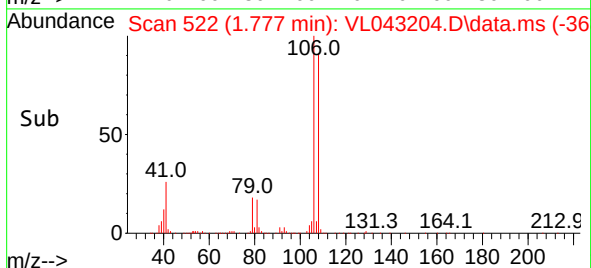
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

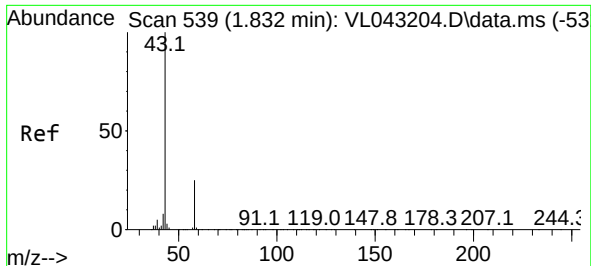


#14
Bromoethene
Concen: 8.849 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



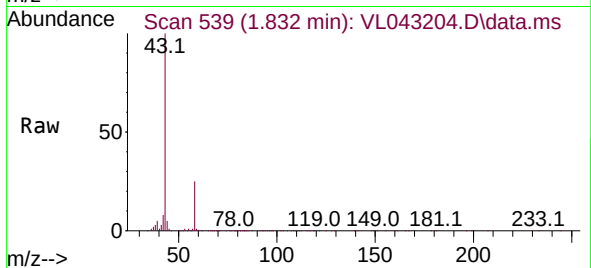
Tgt Ion:108 Resp: 38037
Ion Ratio Lower Upper
108 100
106 111.1 88.9 133.3
79 20.6 16.5 24.7





#15
Acetone
Concen: 7.426 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

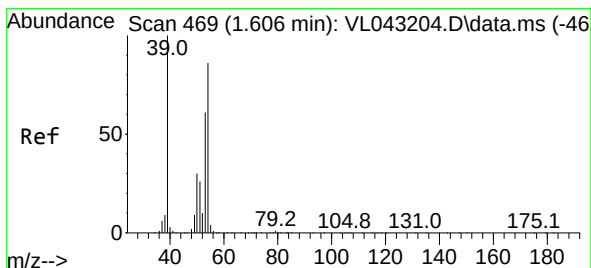
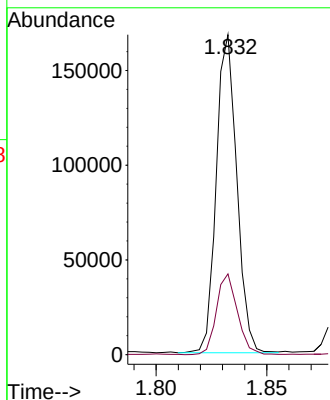
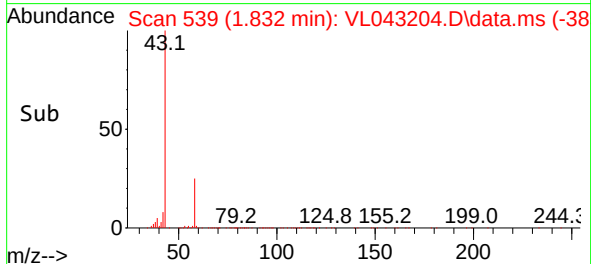
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



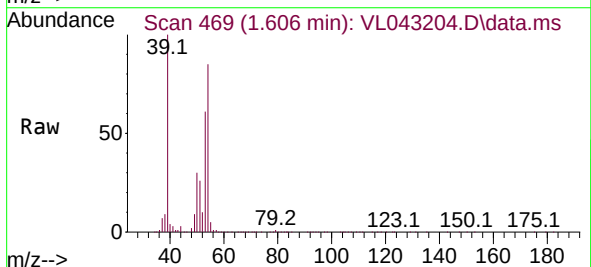
Tgt Ion: 43 Resp: 108422
Ion Ratio Lower Upper
43 100
58 25.9 20.7 31.1

Manual Integrations
APPROVED

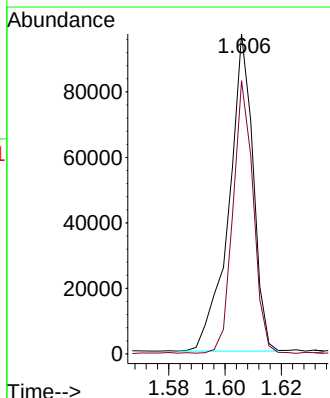
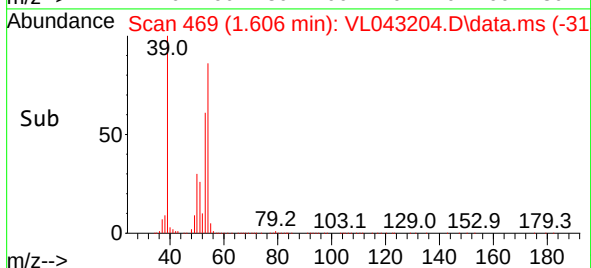
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

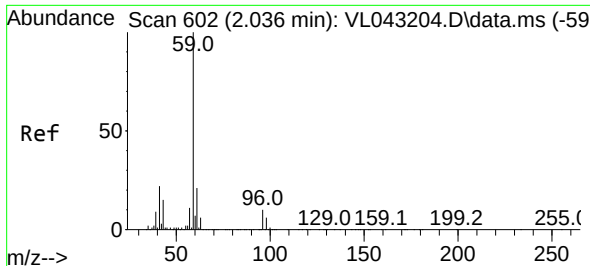


#16
1,3-Butadiene
Concen: 8.890 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



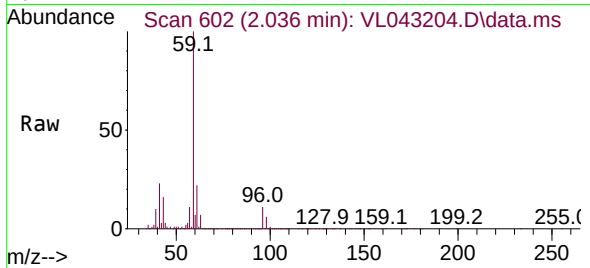
Tgt Ion: 39 Resp: 57871
Ion Ratio Lower Upper
39 100
54 74.3 59.4 89.2





#17
tert-Butyl alcohol
Concen: 9.350 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

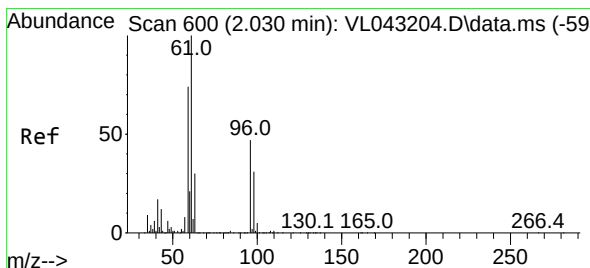
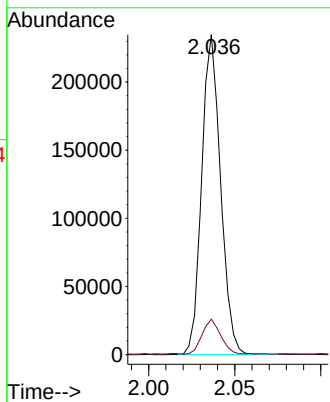
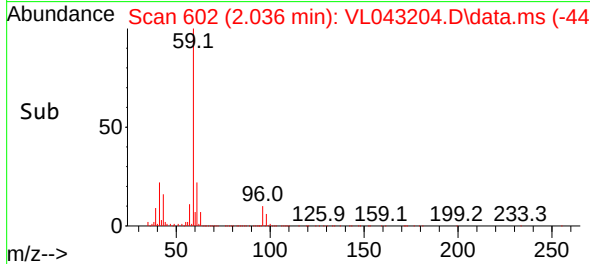
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



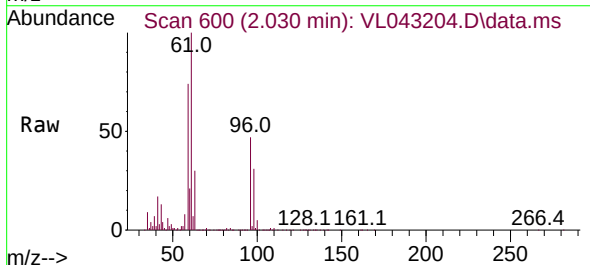
Tgt Ion: 59 Resp: 179203
Ion Ratio Lower Upper
59 100
57 11.2 9.0 13.4

Manual Integrations
APPROVED

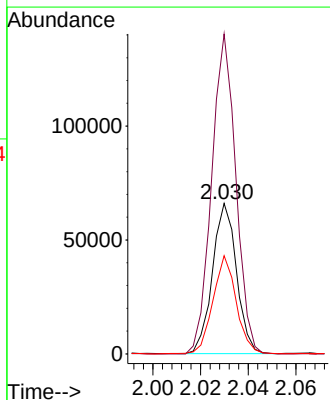
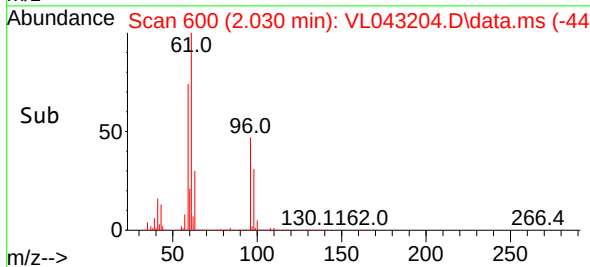
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

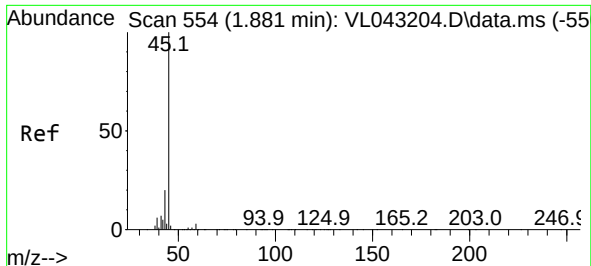


#18
1,1-Dichloroethene
Concen: 8.871 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



Tgt Ion: 96 Resp: 46313
Ion Ratio Lower Upper
96 100
61 213.2 170.6 255.8
98 65.3 52.2 78.4





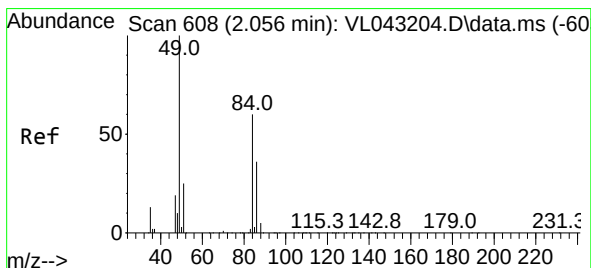
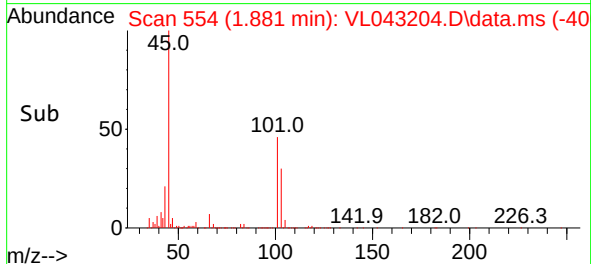
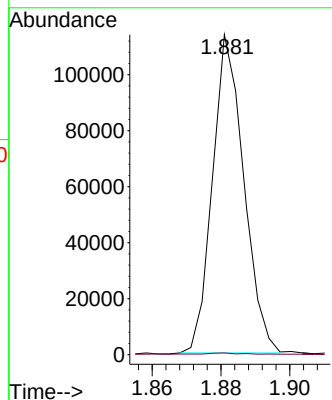
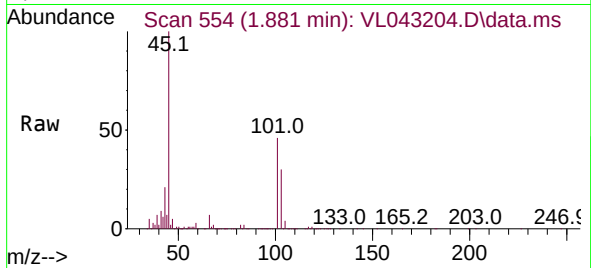
#19
Isopropyl Alcohol
Concen: 8.710 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 71862
Ion Ratio Lower Upper
45 100
58 39.1 31.3 46.9

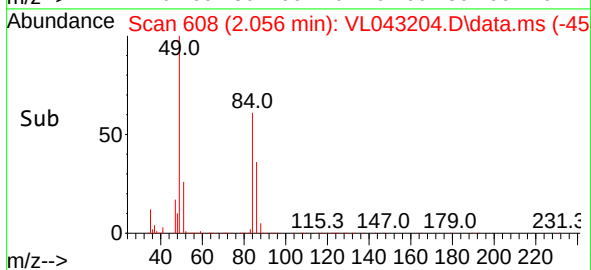
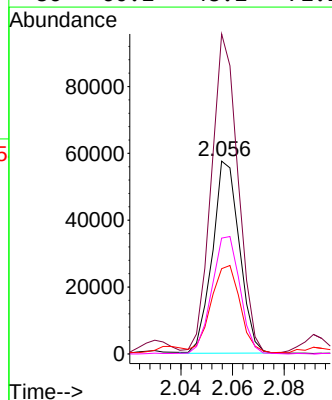
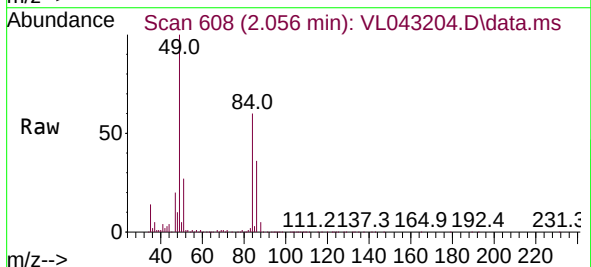
Manual Integrations
APPROVED

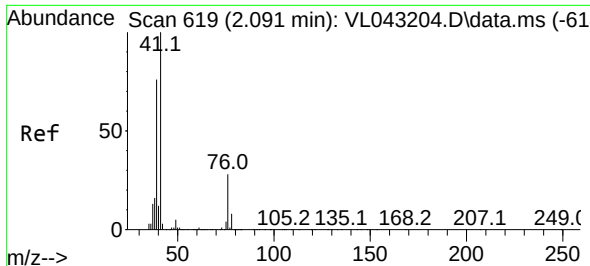
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 9.708 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

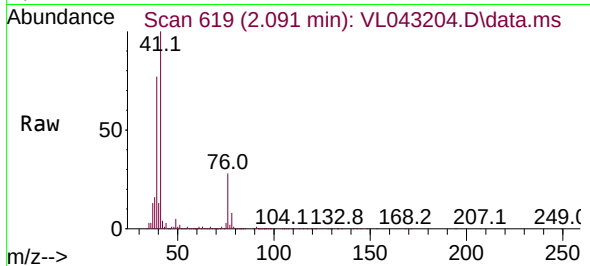
Tgt Ion: 84 Resp: 41868
Ion Ratio Lower Upper
84 100
49 166.1 132.9 199.3
51 43.5 34.8 52.2
86 60.2 48.2 72.2





#21
 Allyl Chloride
 Concen: 9.087 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

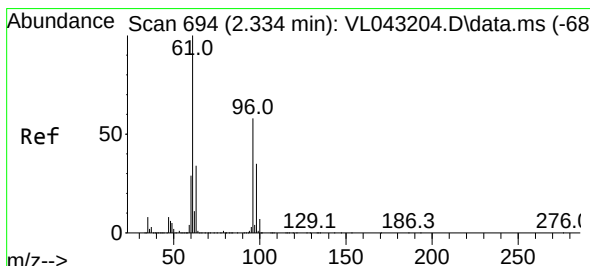
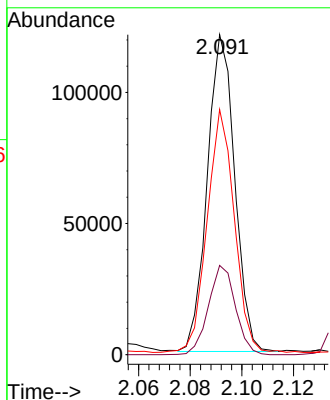
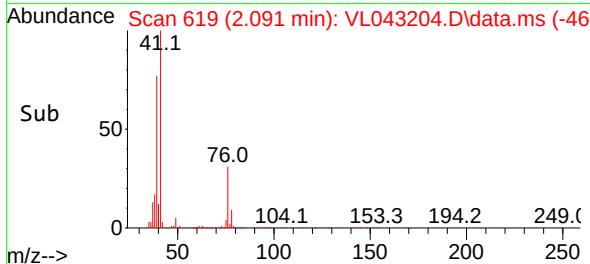
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



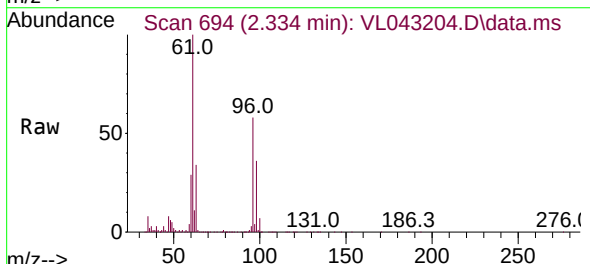
Tgt Ion: 41 Resp: 89266
 Ion Ratio Lower Upper
 41 100
 76 27.6 22.1 33.1
 39 76.2 61.0 91.4

Manual Integrations
 APPROVED

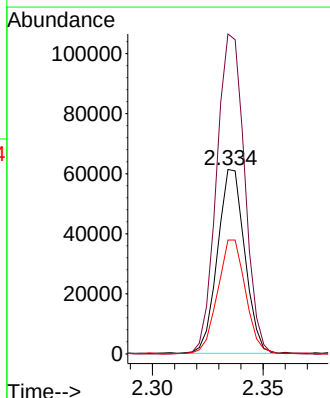
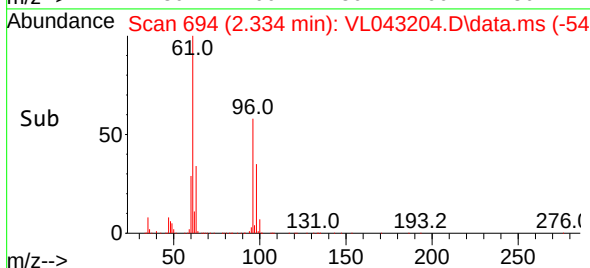
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

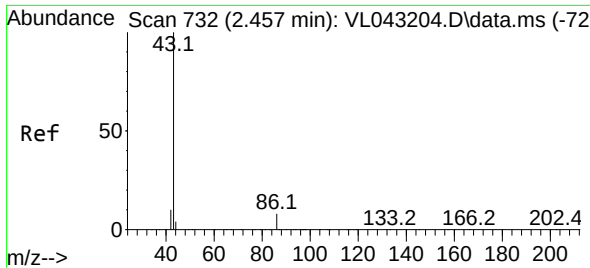


#22
 trans-1,2-Dichloroethene
 Concen: 8.793 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02



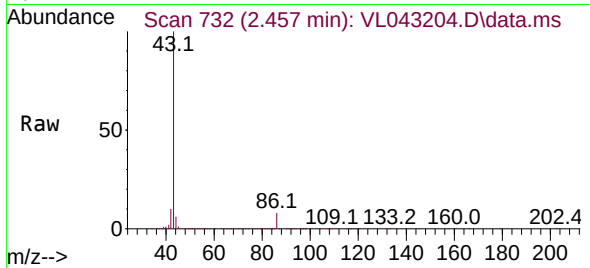
Tgt Ion: 96 Resp: 52470
 Ion Ratio Lower Upper
 96 100
 61 173.8 139.0 208.6
 98 61.8 49.4 74.2





#23
 Vinyl Acetate
 Concen: 9.670 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

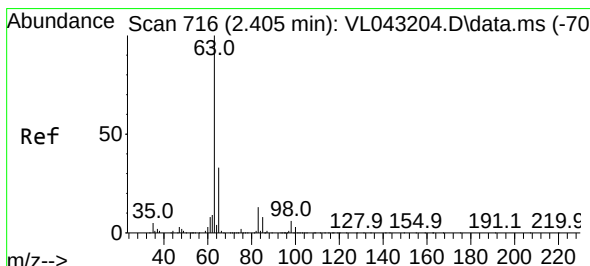
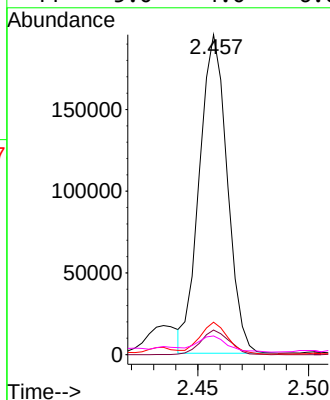
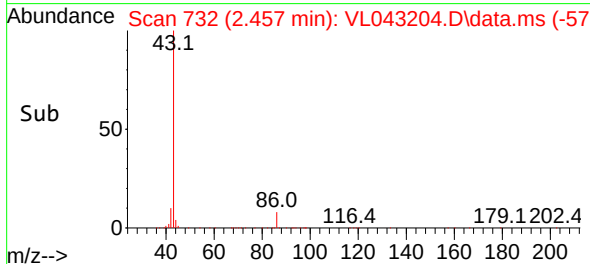
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 43 Resp: 170459
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.2 9.2
 42 10.0 8.0 12.0
 44 5.0 4.0 6.0

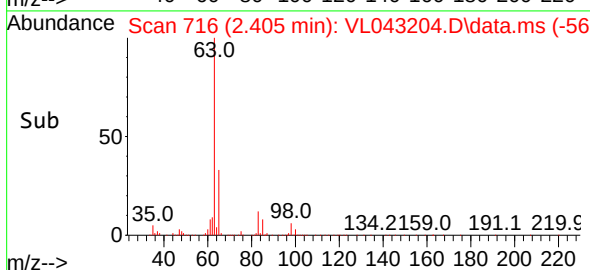
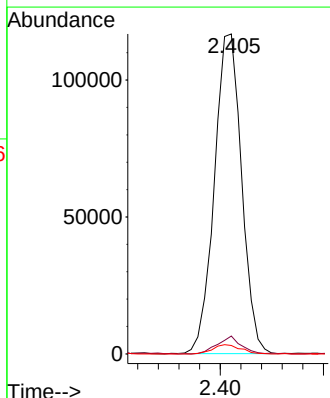
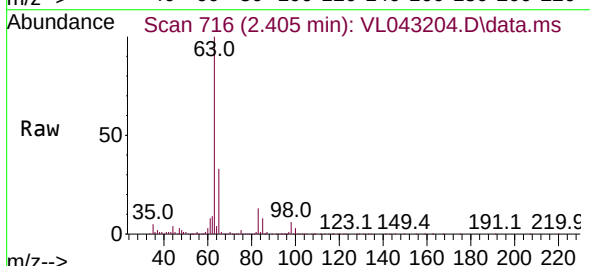
Manual Integrations
 APPROVED

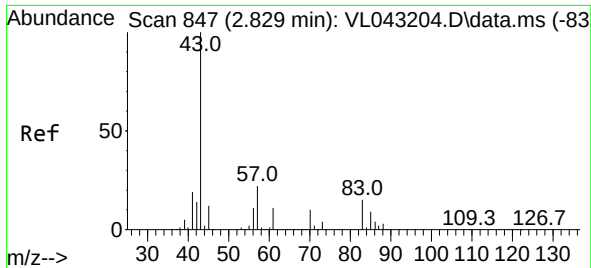
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#24
 1,1-Dichloroethane
 Concen: 9.287 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

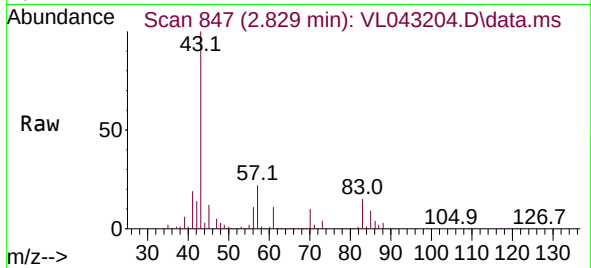
Tgt Ion: 63 Resp: 106970
 Ion Ratio Lower Upper
 63 100
 98 5.6 2.8 8.4
 100 2.6 1.3 3.9





#25
Ethyl Acetate
Concen: 9.190 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

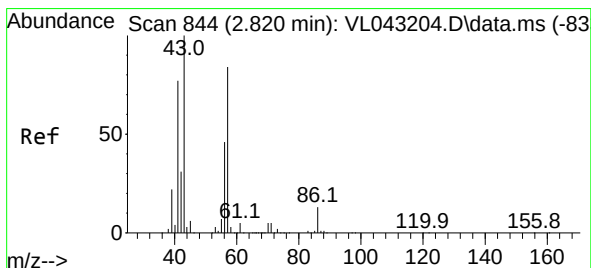
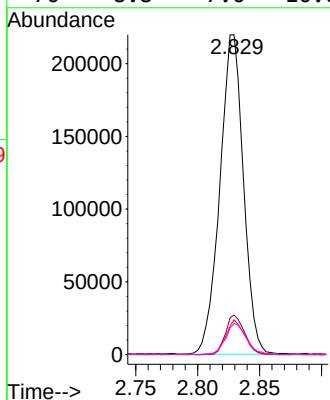
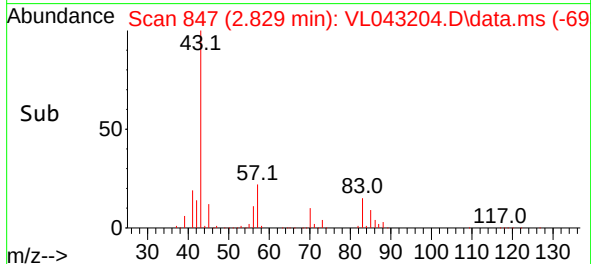
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



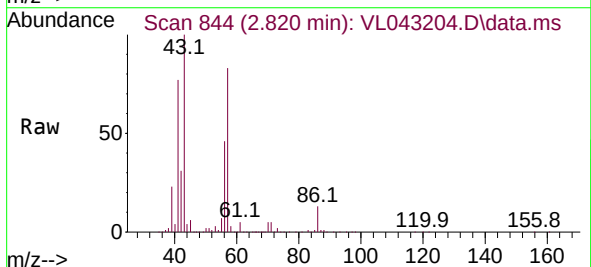
Tgt Ion: 43 Resp: 289921
Ion Ratio Lower Upper
43 100
45 10.1 8.1 12.1
61 8.7 7.0 10.4
70 8.8 7.0 10.6

Manual Integrations
APPROVED

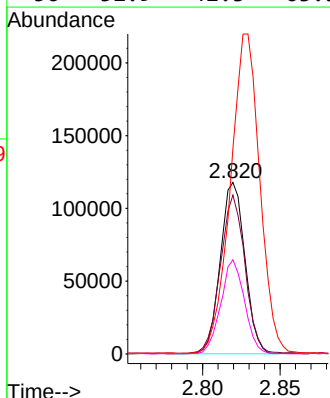
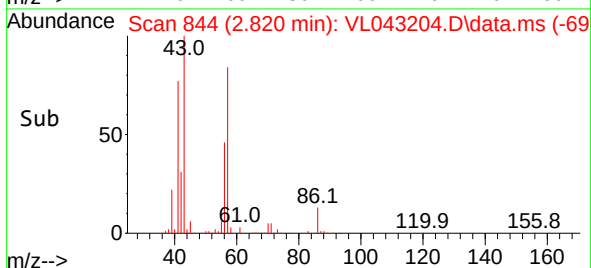
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

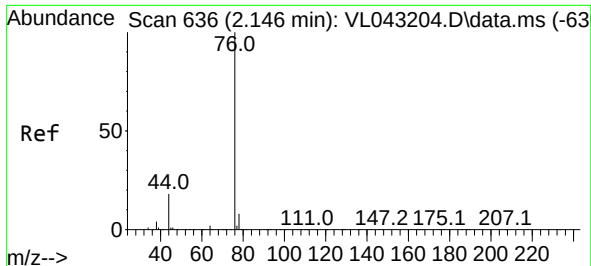


#26
Hexane
Concen: 9.402 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



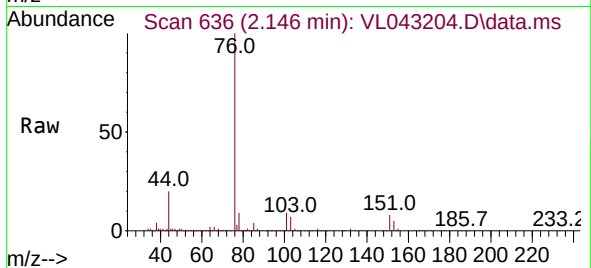
Tgt Ion: 57 Resp: 129809
Ion Ratio Lower Upper
57 100
41 93.2 74.6 111.8
43 223.7 179.0 268.4
56 52.9 42.3 63.5





#27
Carbon Disulfide
Concen: 9.371 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

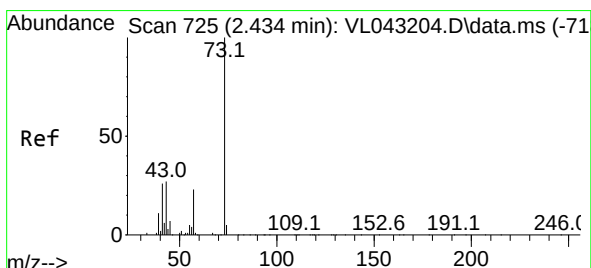
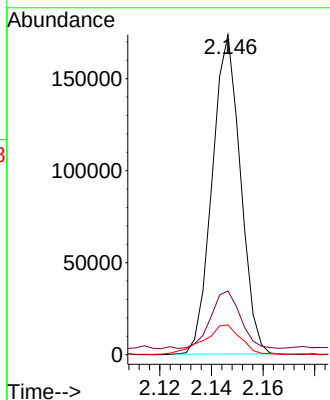
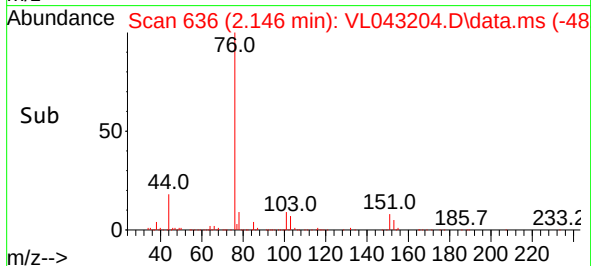
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



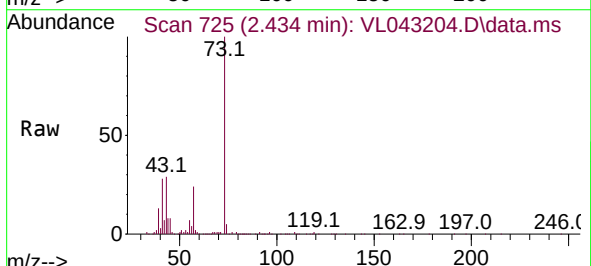
Tgt Ion: 76 Resp: 132086
Ion Ratio Lower Upper
76 100
44 20.1 16.1 24.1
78 12.0 9.6 14.4

Manual Integrations
APPROVED

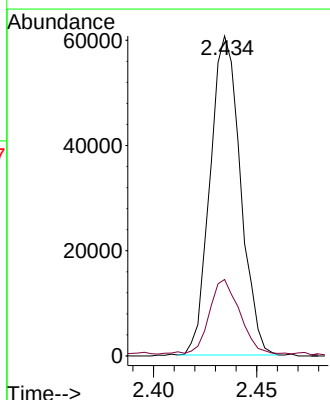
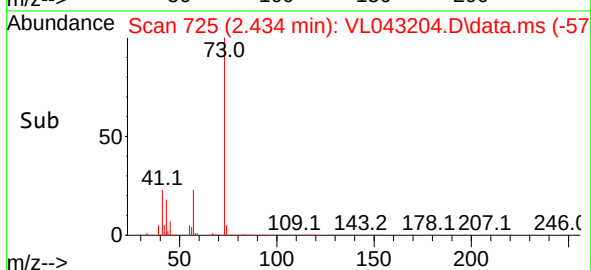
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

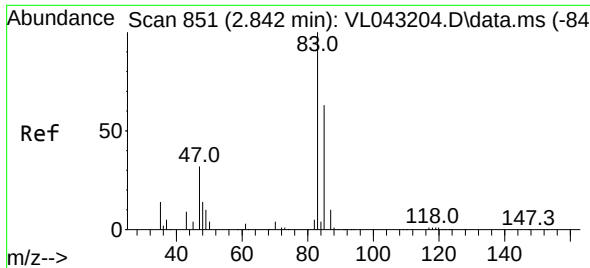


#28
Methyl tert-Butyl Ether
Concen: 9.165 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



Tgt Ion: 73 Resp: 62115
Ion Ratio Lower Upper
73 100
57 24.8 19.8 29.8





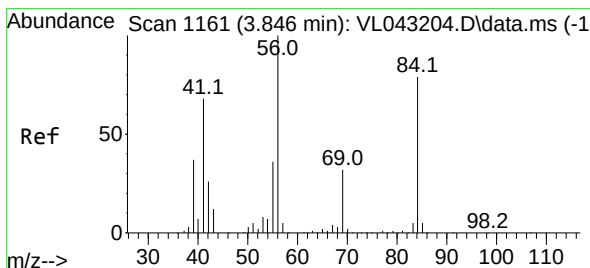
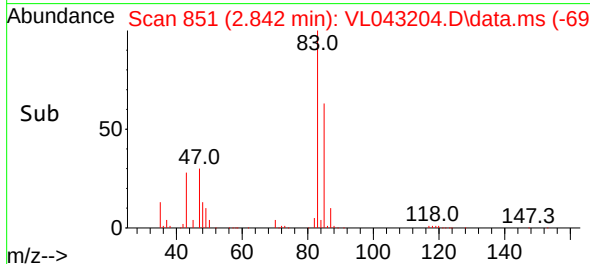
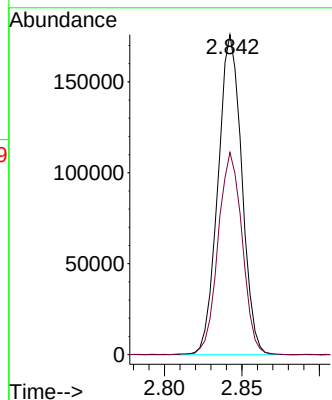
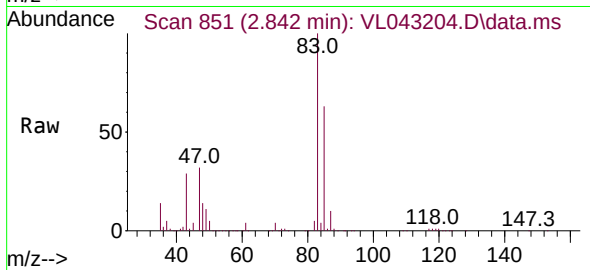
#29
Chloroform
Concen: 9.561 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 187620
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7

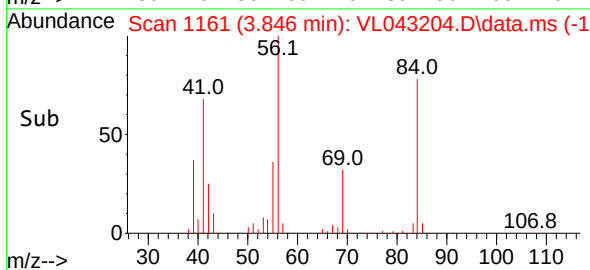
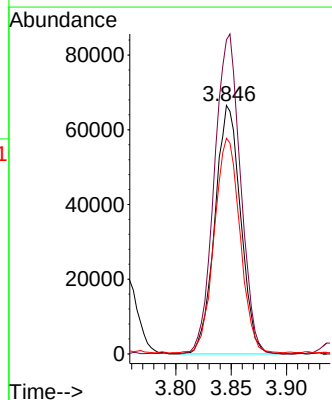
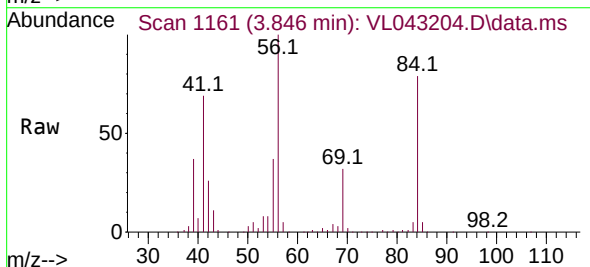
Manual Integrations
APPROVED

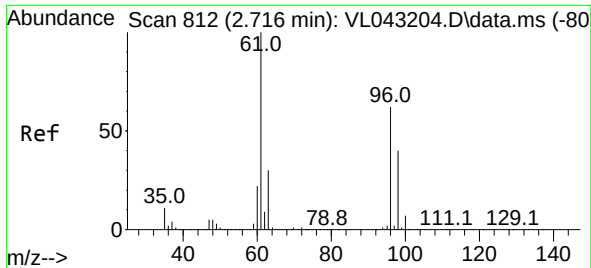
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 9.297 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

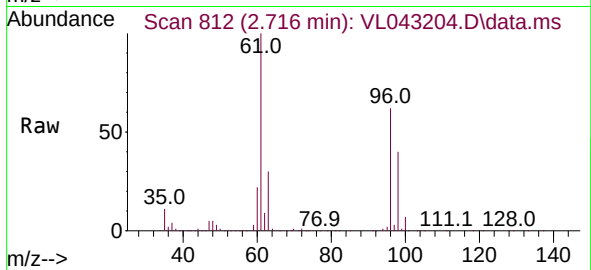
Tgt Ion: 84 Resp: 107621
Ion Ratio Lower Upper
84 100
56 130.9 104.7 157.1
41 86.3 69.0 103.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.499 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

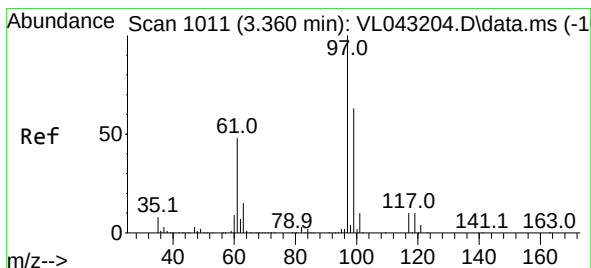
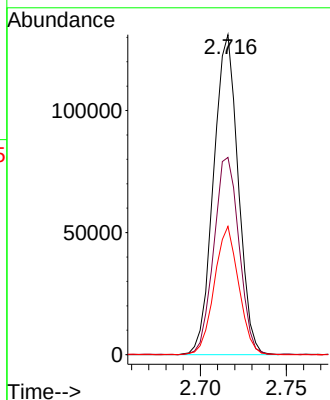
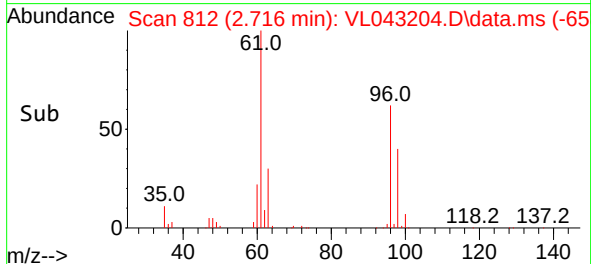
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



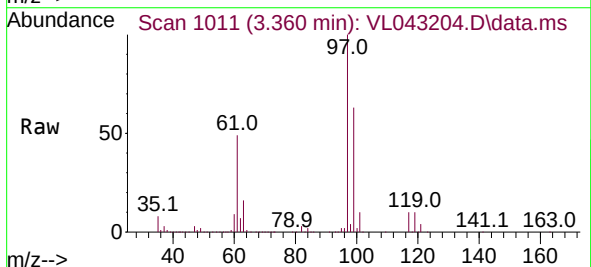
Tgt Ion: 61 Resp: 130352
 Ion Ratio Lower Upper
 61 100
 96 61.6 49.3 73.9
 98 40.1 32.1 48.1

Manual Integrations
 APPROVED

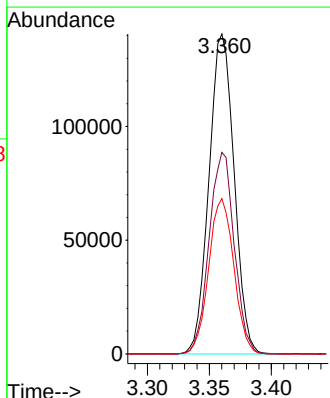
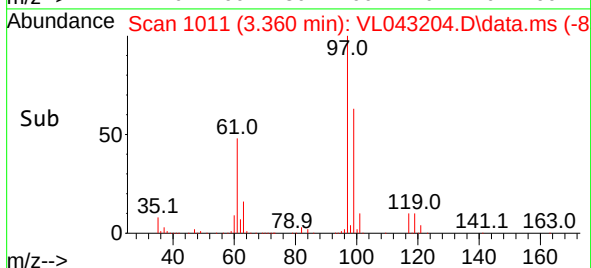
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

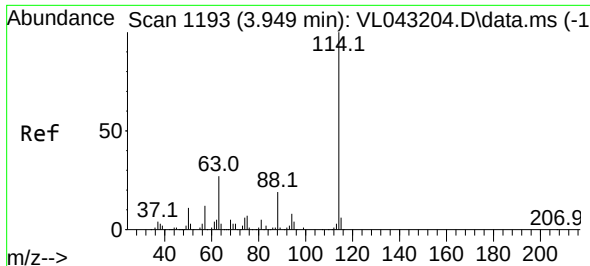


#32
 1,1,1-Trichloroethane
 Concen: 9.381 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02



Tgt Ion: 97 Resp: 198036
 Ion Ratio Lower Upper
 97 100
 99 62.9 50.3 75.5
 61 48.6 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VL043204.D

Acq: 18 Nov 2025 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

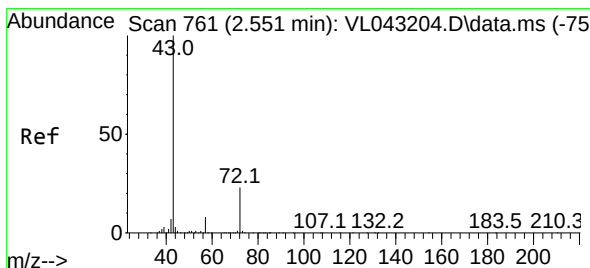
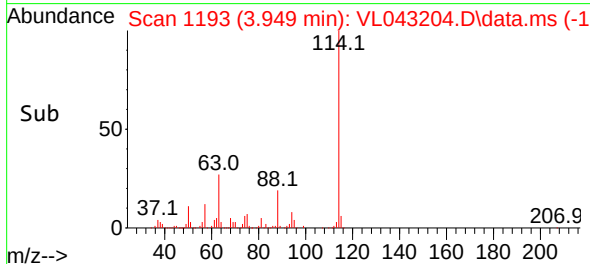
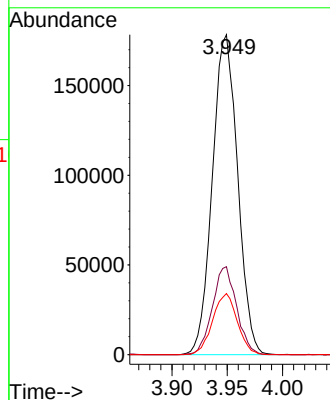
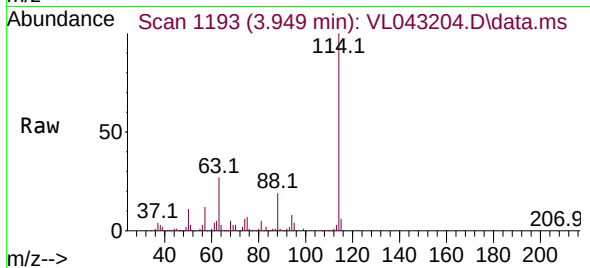
Tgt Ion:114 Resp: 283830

Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.0	31.6
88	18.6	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 9.121 ppbv

RT: 2.551 min Scan# 761

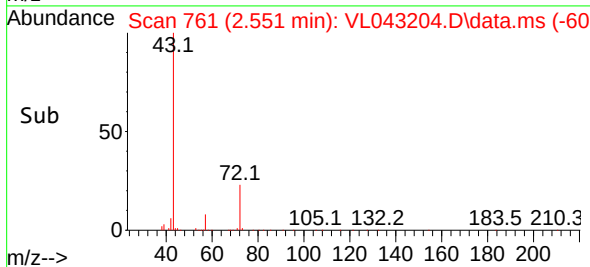
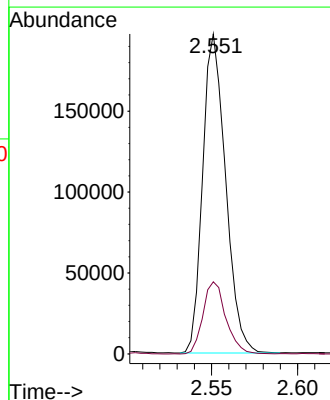
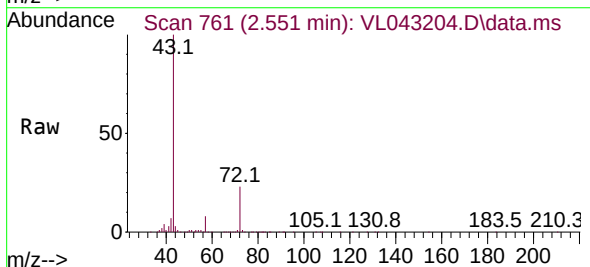
Delta R.T. 0.000 min

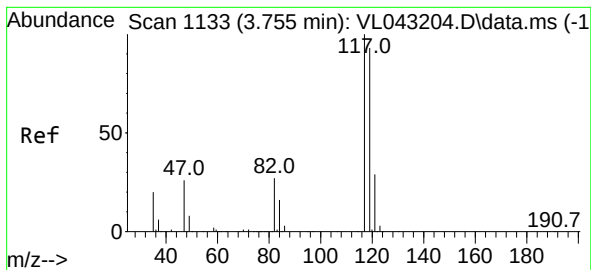
Lab File: VL043204.D

Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 182749

Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1





#35

Carbon Tetrachloride

Concen: 9.322 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. 0.000 min

Lab File: VL043204.D

Acq: 18 Nov 2025 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:117 Resp: 200831

Ion Ratio Lower Upper

117 100

119 93.3 74.6 112.0

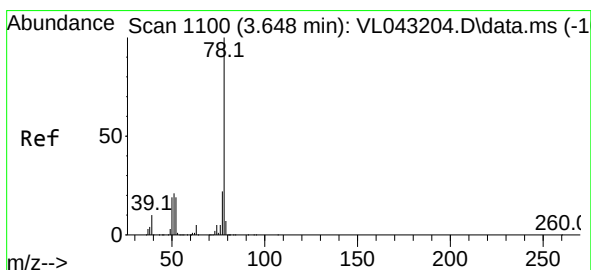
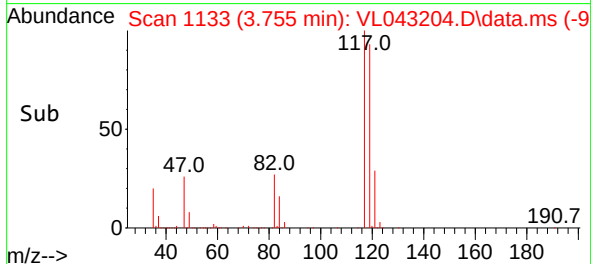
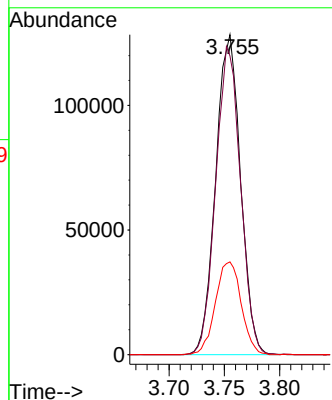
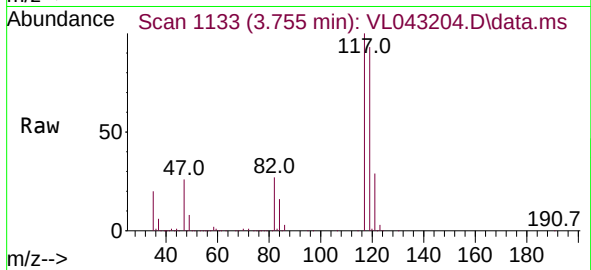
121 29.0 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#36

Benzene

Concen: 9.453 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. 0.000 min

Lab File: VL043204.D

Acq: 18 Nov 2025 10:02

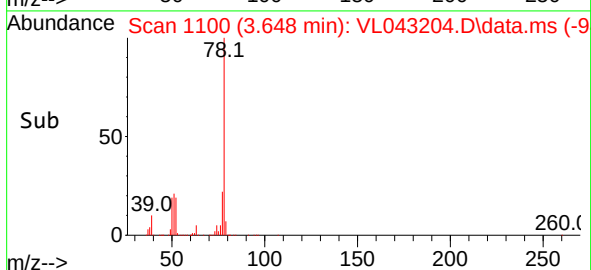
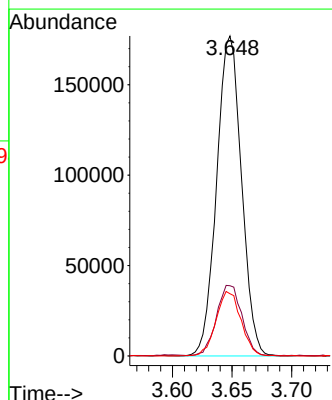
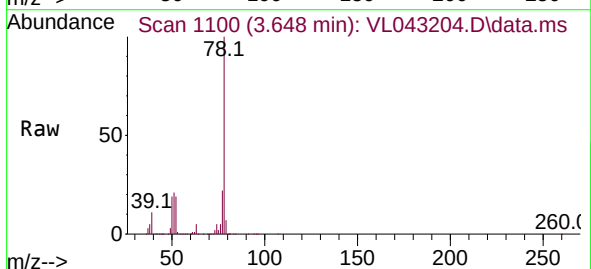
Tgt Ion: 78 Resp: 256954

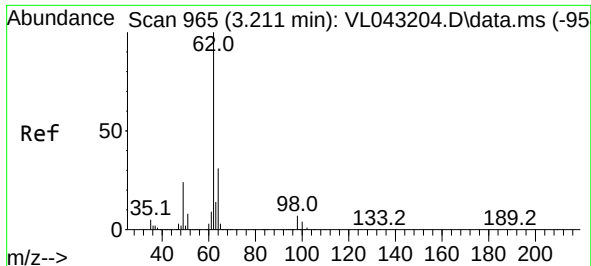
Ion Ratio Lower Upper

78 100

77 21.9 17.5 26.3

50 19.4 15.5 23.3





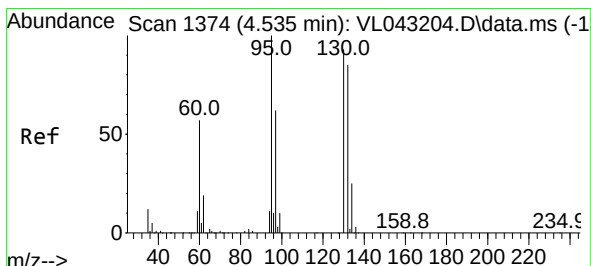
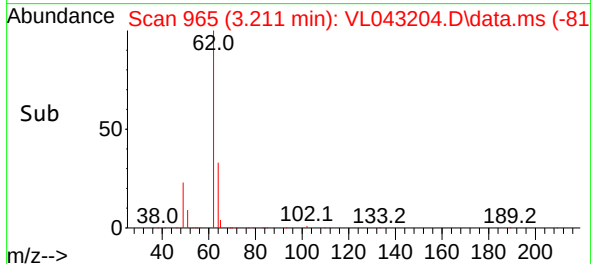
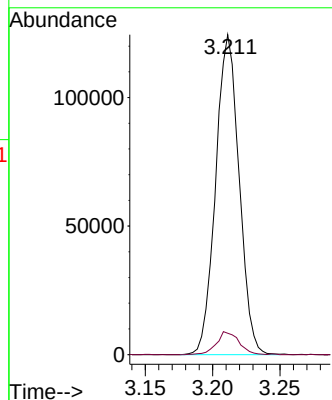
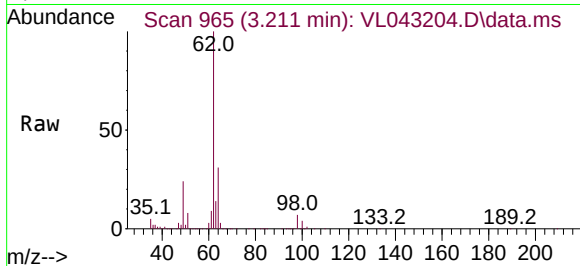
#37
1,2-Dichloroethane
Concen: 9.483 ppbv
RT: 3.211 min Scan# 965
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 150769
Ion Ratio Lower Upper
62 100
98 6.9 5.5 8.3

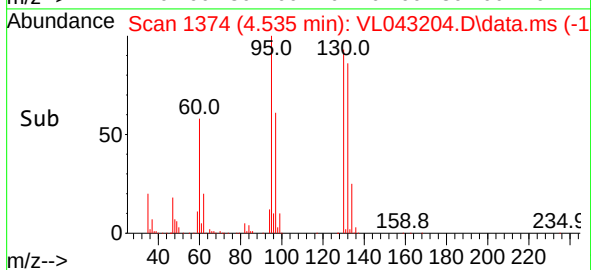
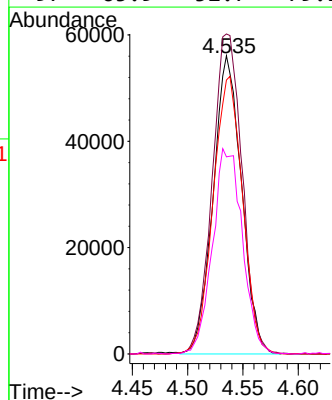
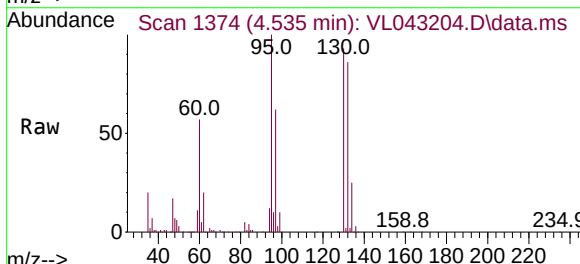
Manual Integrations
APPROVED

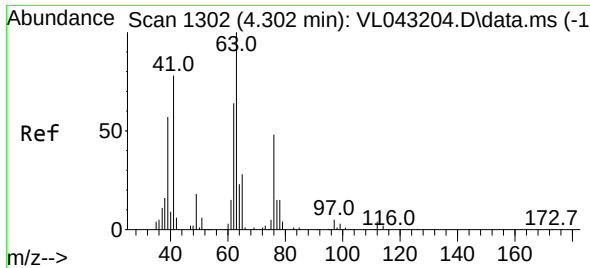
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 9.398 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

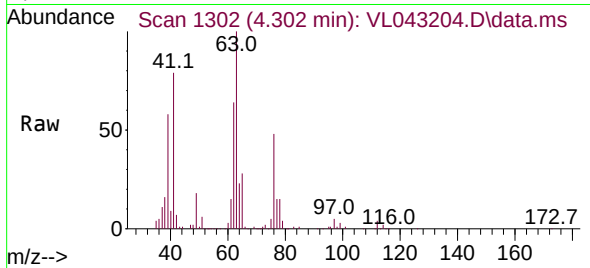
Tgt Ion:130 Resp: 100136
Ion Ratio Lower Upper
130 100
95 107.1 85.7 128.5
132 91.7 73.4 110.0
97 65.9 52.7 79.1





#39
 1,2-Dichloropropane
 Concen: 9.559 ppbv
 RT: 4.302 min Scan# 1302
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

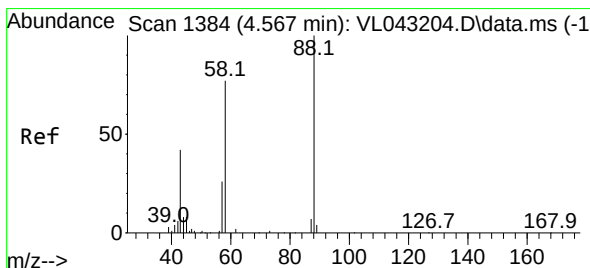
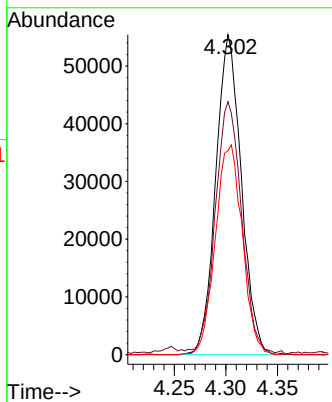
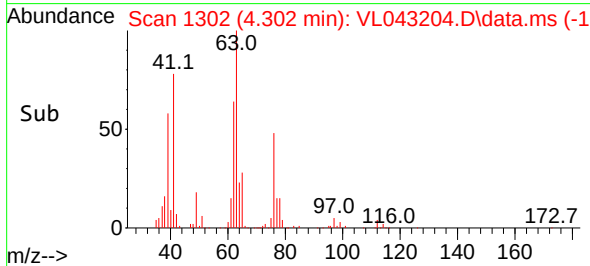
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 63 Resp: 95092
 Ion Ratio Lower Upper
 63 100
 41 78.2 62.6 93.8
 62 63.8 51.0 76.6

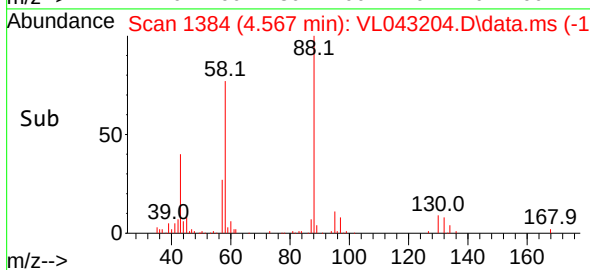
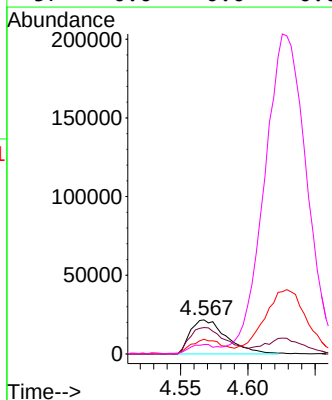
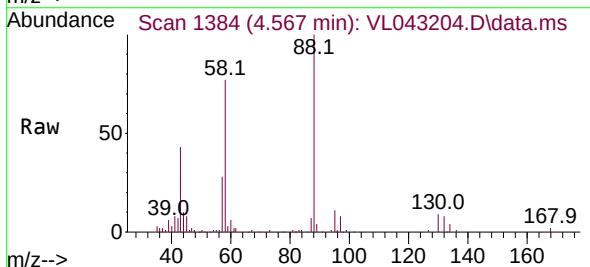
Manual Integrations
 APPROVED

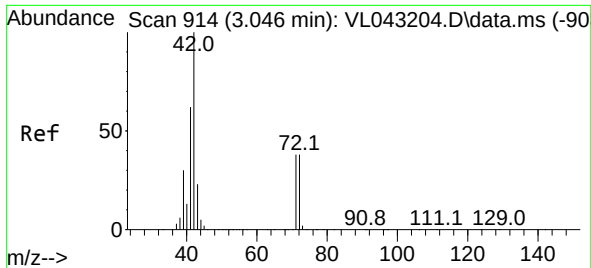
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#40
 1,4-Dioxane
 Concen: 9.043 ppbv
 RT: 4.567 min Scan# 1384
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

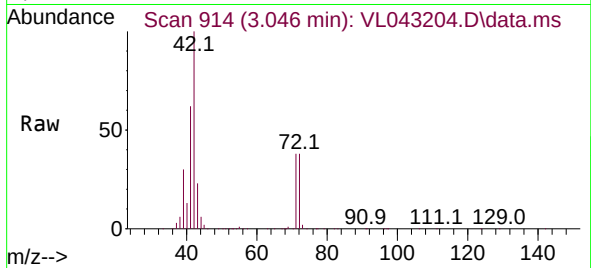
Tgt Ion: 88 Resp: 40441
 Ion Ratio Lower Upper
 88 100
 58 78.8 63.0 94.6
 43 40.6 32.5 48.7
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.426 ppbv
RT: 3.046 min Scan# 914
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

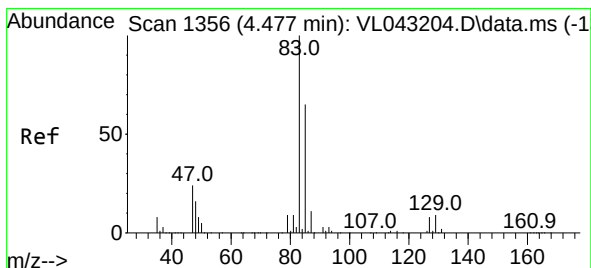
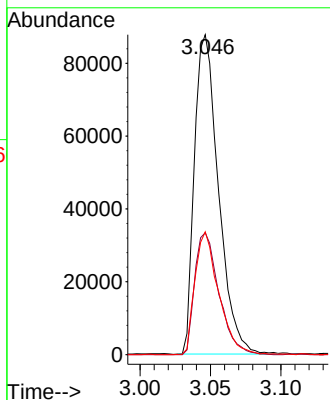
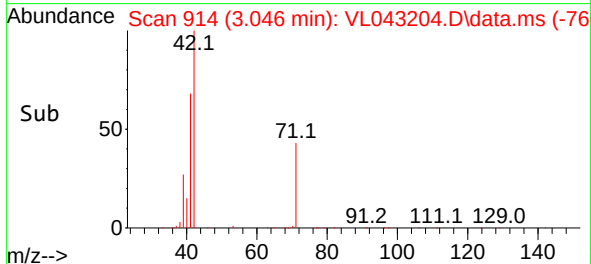
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



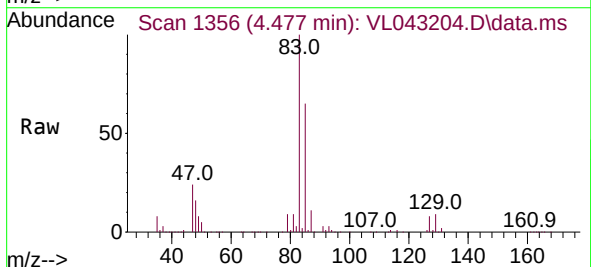
Tgt Ion: 42 Resp: 104294
Ion Ratio Lower Upper
42 100
72 38.3 30.6 46.0
71 38.1 30.5 45.7

Manual Integrations
APPROVED

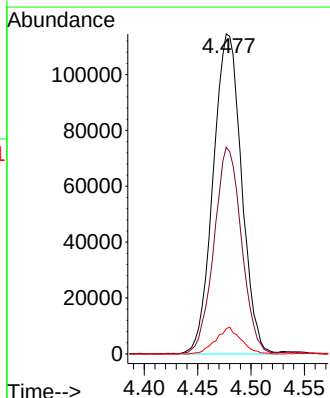
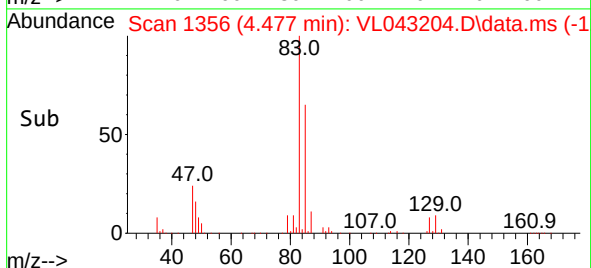
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

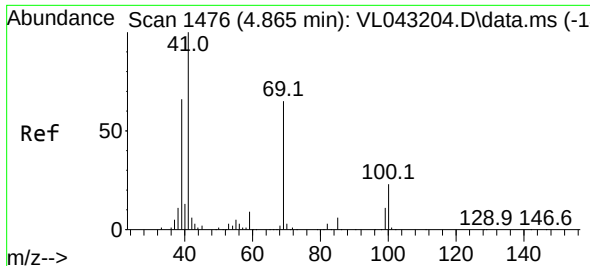


#42
Bromodichloromethane
Concen: 9.643 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



Tgt Ion: 83 Resp: 211504
Ion Ratio Lower Upper
83 100
85 64.6 51.7 77.5
127 7.9 6.3 9.5





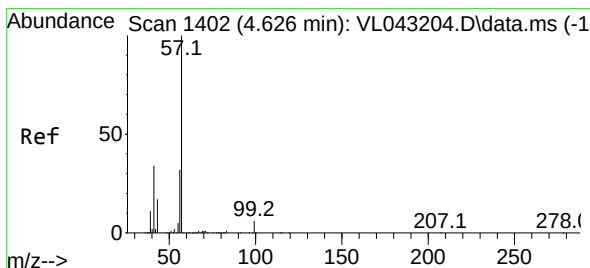
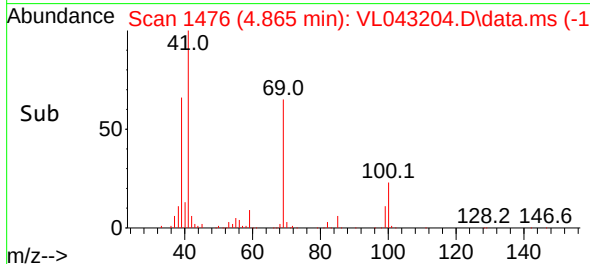
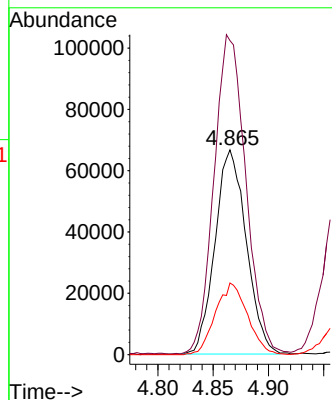
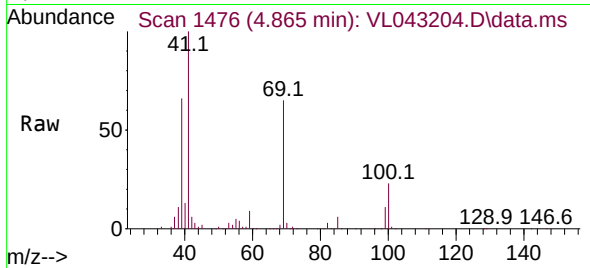
#43
Methyl Methacrylate
Concen: 9.080 ppbv
RT: 4.865 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 131003
Ion Ratio Lower Upper
69 100
41 158.4 126.7 190.1
100 35.8 28.6 43.0

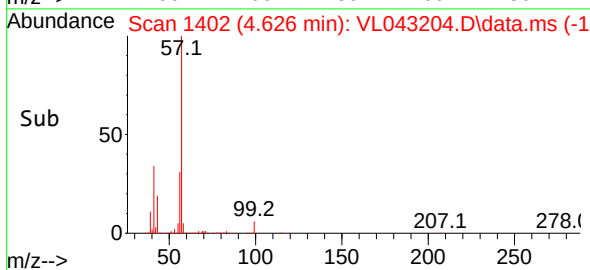
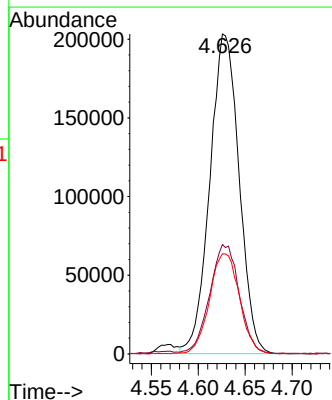
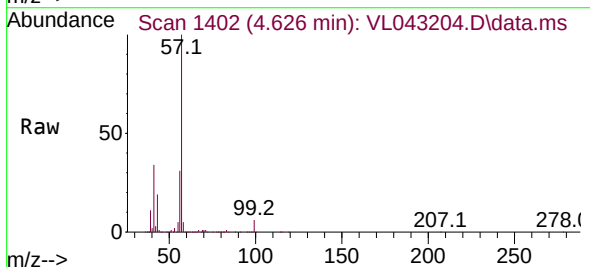
Manual Integrations
APPROVED

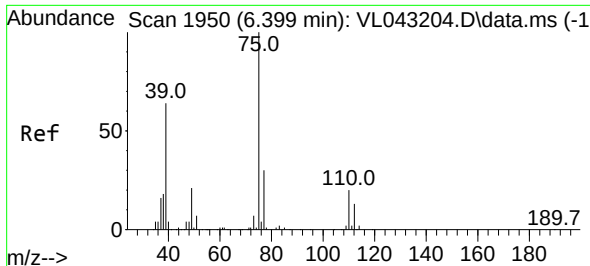
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#44
2,2,4-Trimethylpentane
Concen: 9.451 ppbv
RT: 4.626 min Scan# 1402
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

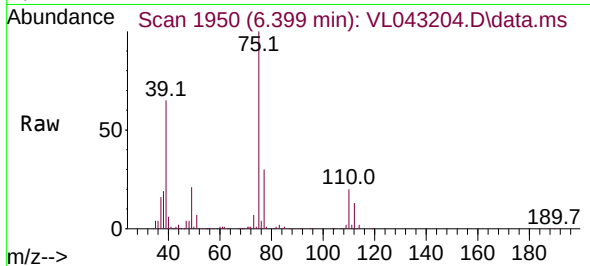
Tgt Ion: 57 Resp: 441234
Ion Ratio Lower Upper
57 100
41 35.0 28.0 42.0
56 32.0 25.6 38.4





#45
 t-1,3-Dichloropropene
 Concen: 9.601 ppbv
 RT: 6.399 min Scan# 1950
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

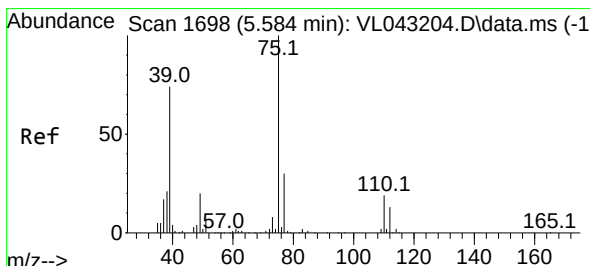
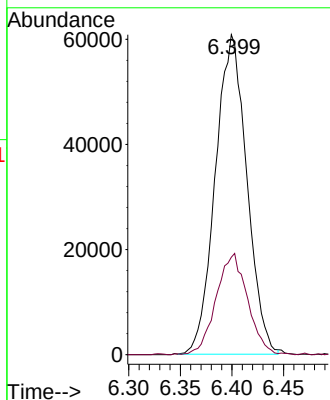
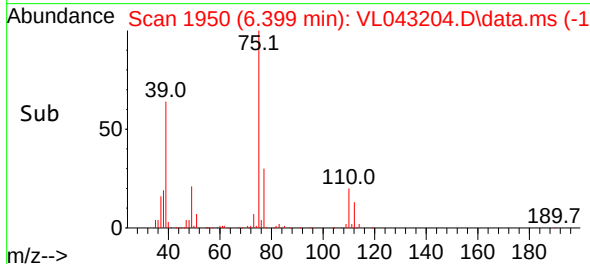
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 75 Resp: 129122
 Ion Ratio Lower Upper
 75 100
 77 30.4 24.3 36.5

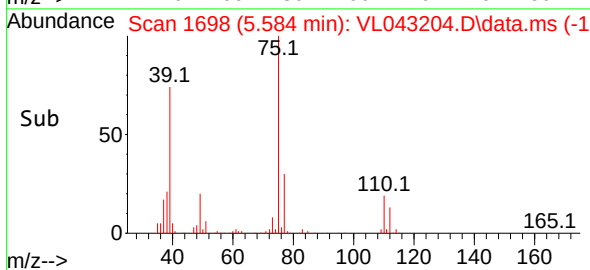
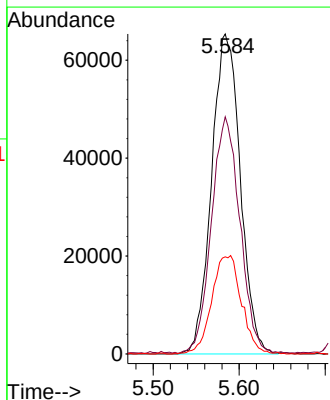
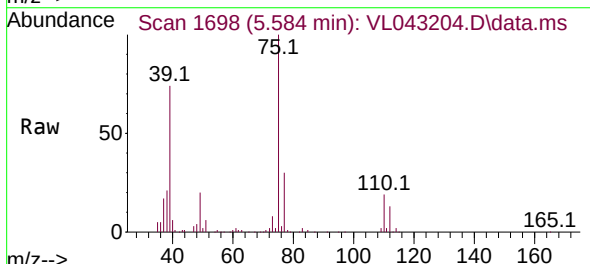
Manual Integrations
 APPROVED

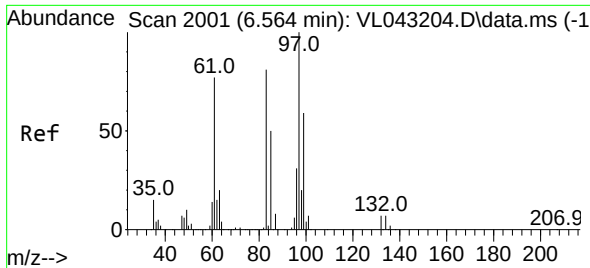
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.603 ppbv
 RT: 5.584 min Scan# 1698
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

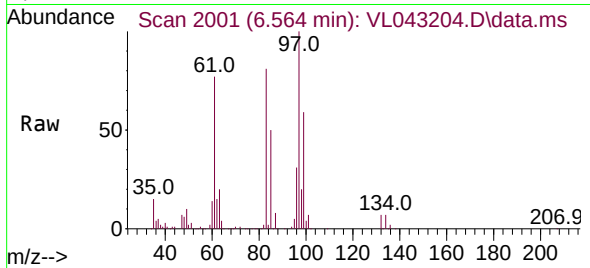
Tgt Ion: 75 Resp: 151655
 Ion Ratio Lower Upper
 75 100
 39 73.9 59.1 88.7
 77 30.2 24.2 36.2





#47
1,1,2-Trichloroethane
Concen: 9.193 ppbv
RT: 6.564 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

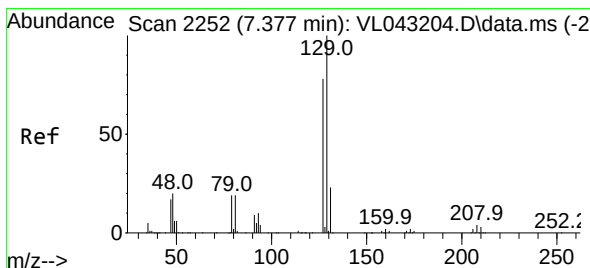
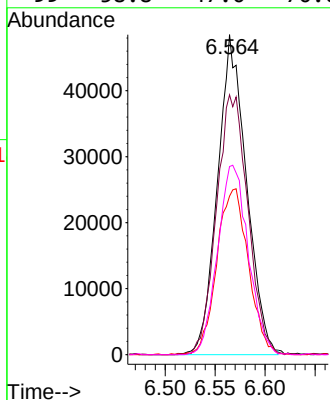
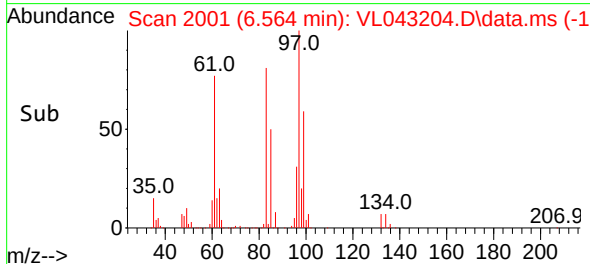
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 97 Resp: 97512
Ion Ratio Lower Upper
97 100
83 80.8 64.6 97.0
85 49.3 39.4 59.2
99 58.8 47.0 70.6

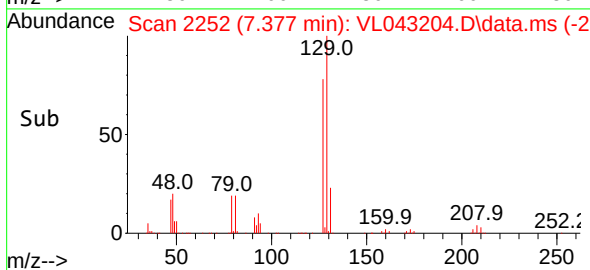
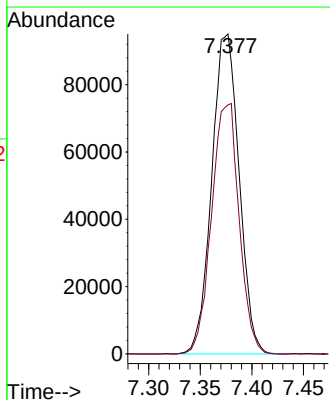
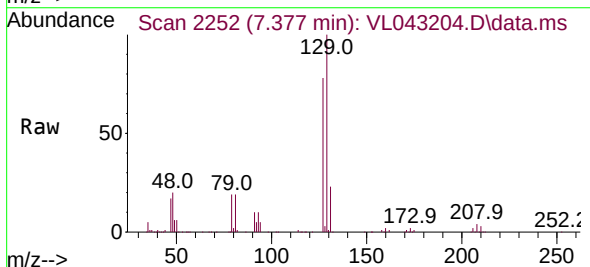
Manual Integrations
APPROVED

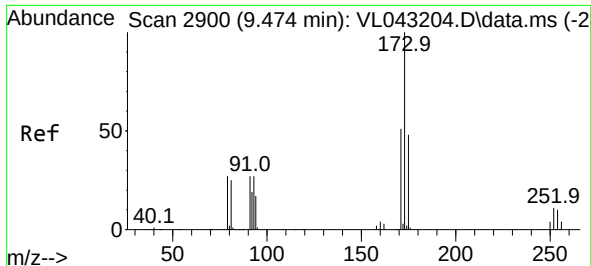
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#48
Dibromochloromethane
Concen: 9.670 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:129 Resp: 175529
Ion Ratio Lower Upper
129 100
127 78.6 39.3 117.9





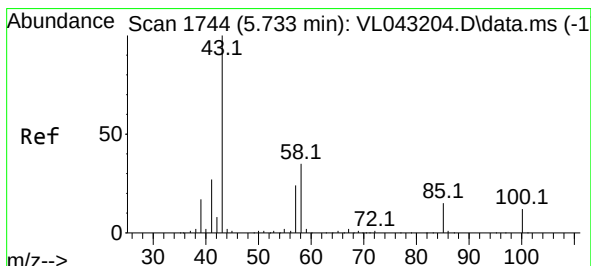
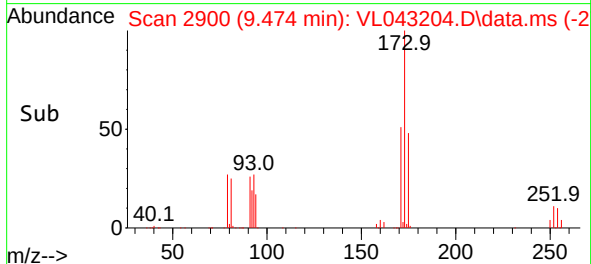
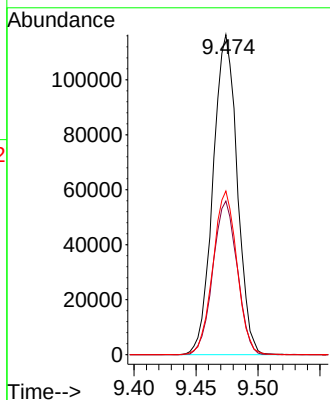
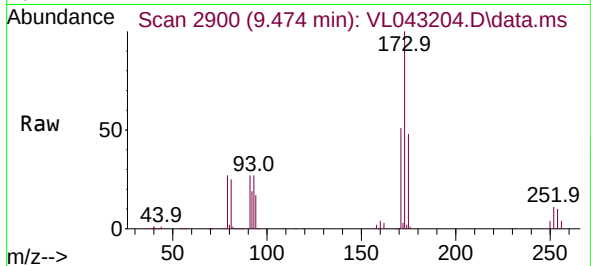
#49
Bromoform
Concen: 9.800 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 157563
Ion Ratio Lower Upper
173 100
175 48.3 38.6 58.0
171 50.8 40.6 61.0

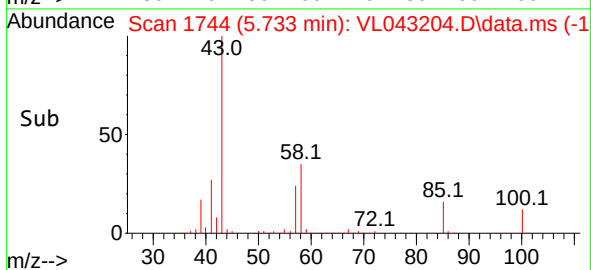
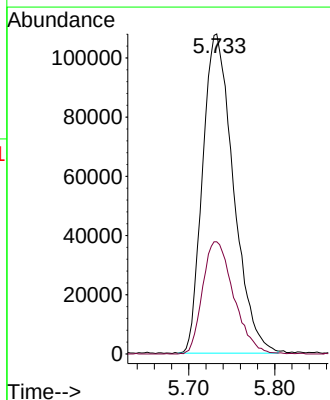
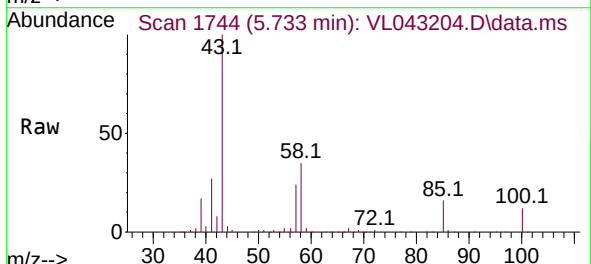
Manual Integrations
APPROVED

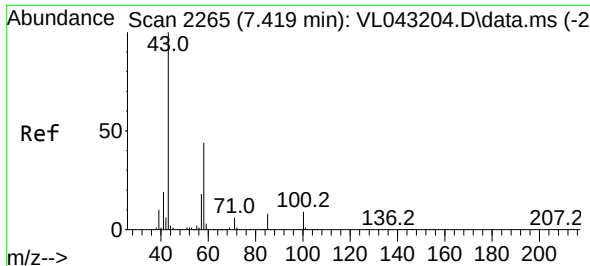
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 9.509 ppbv
RT: 5.733 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 268369
Ion Ratio Lower Upper
43 100
58 35.5 28.4 42.6





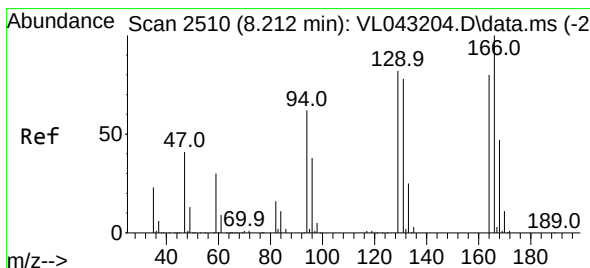
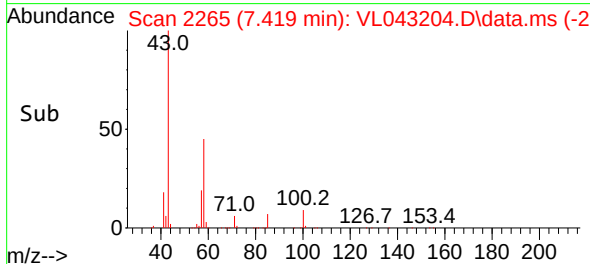
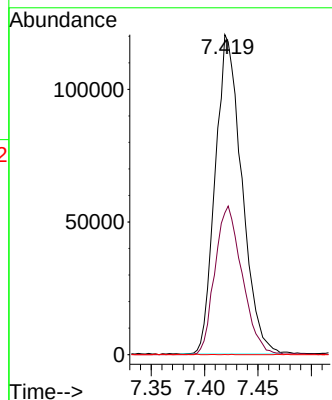
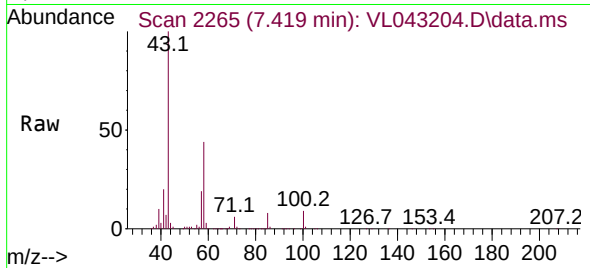
#51
2-Hexanone
Concen: 9.503 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 208268
Ion Ratio Lower Upper
43 100
58 48.0 38.4 57.6
98 0.0 0.0 0.0

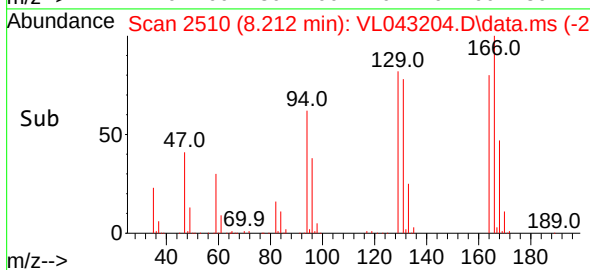
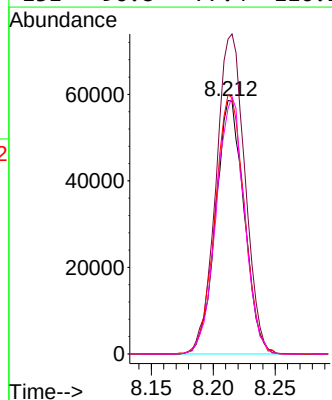
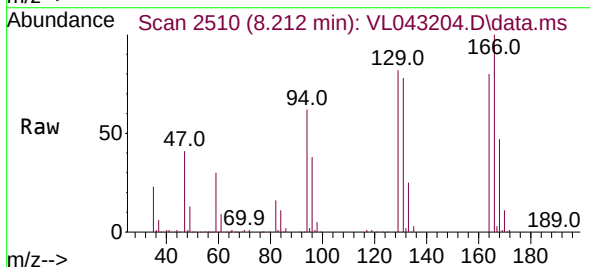
Manual Integrations
APPROVED

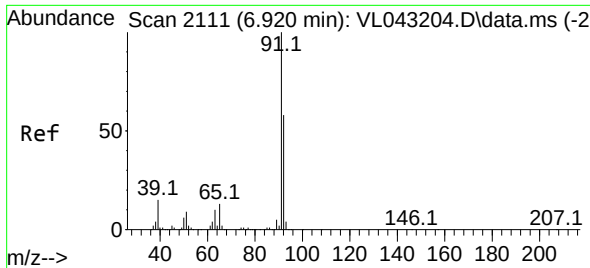
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 9.249 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

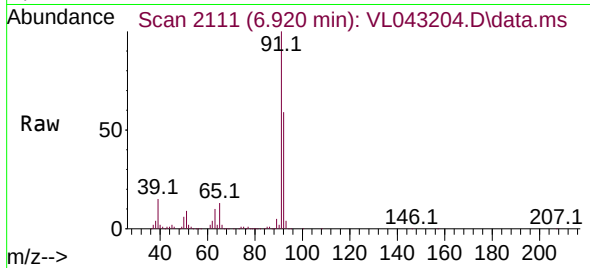
Tgt Ion:164 Resp: 93518
Ion Ratio Lower Upper
164 100
166 124.3 99.4 149.2
129 102.3 81.8 122.8
131 96.8 77.4 116.2





#53
Toluene
Concen: 9.422 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

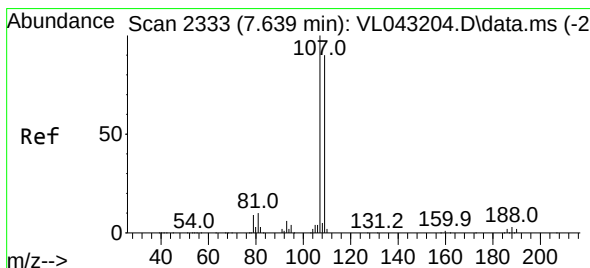
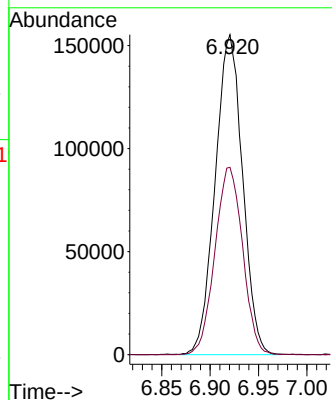
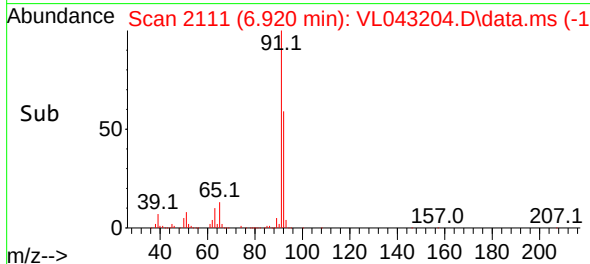
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



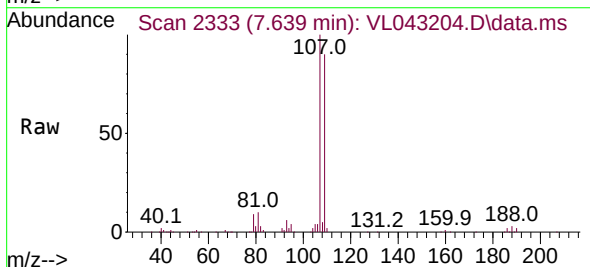
Tgt Ion: 91 Resp: 305169
Ion Ratio Lower Upper
91 100
92 59.2 47.4 71.0

Manual Integrations
APPROVED

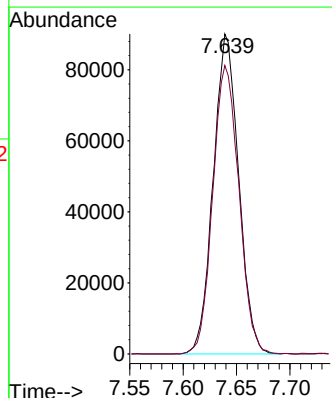
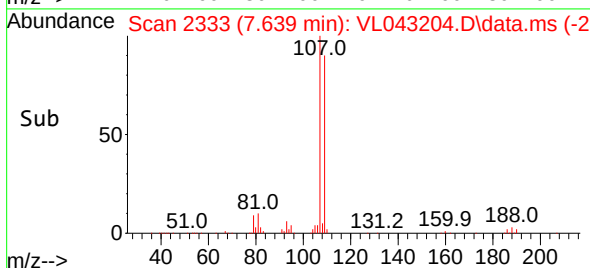
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

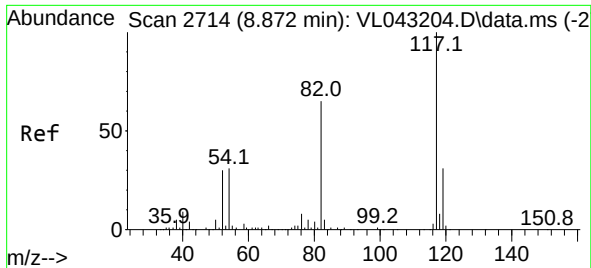


#54
1,2-Dibromoethane
Concen: 9.588 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



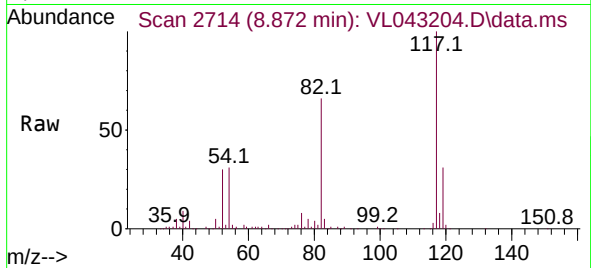
Tgt Ion:107 Resp: 148973
Ion Ratio Lower Upper
107 100
109 90.1 72.1 108.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

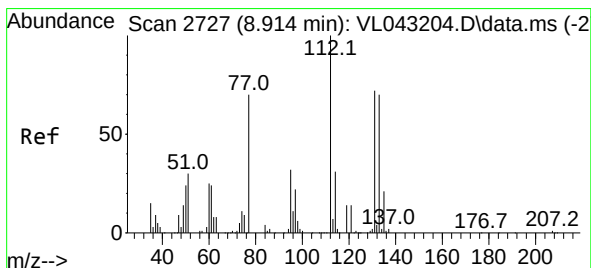
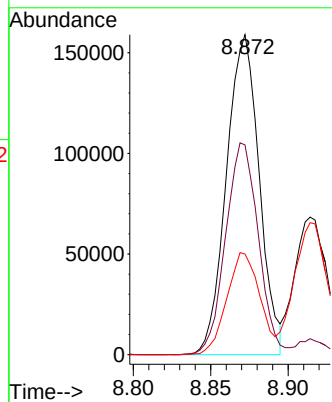
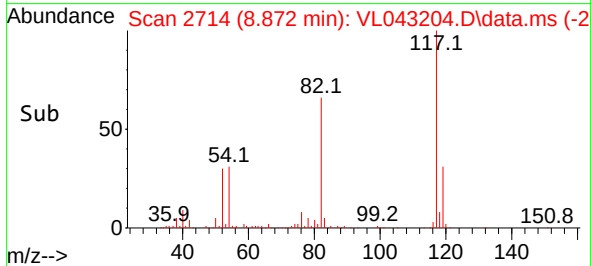
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 234772
Ion Ratio Lower Upper
117 100
82 70.1 56.1 84.1
119 31.3 25.0 37.6

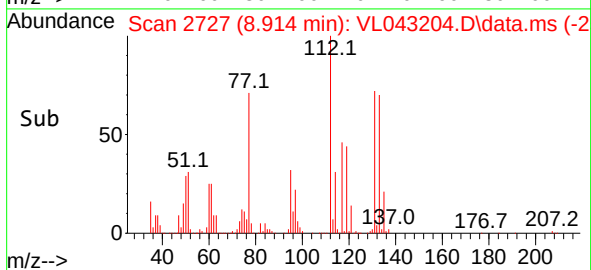
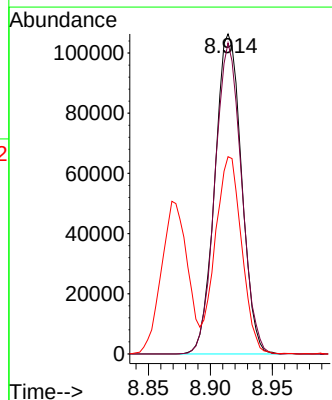
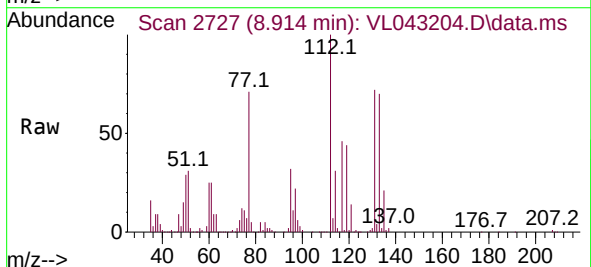
Manual Integrations
APPROVED

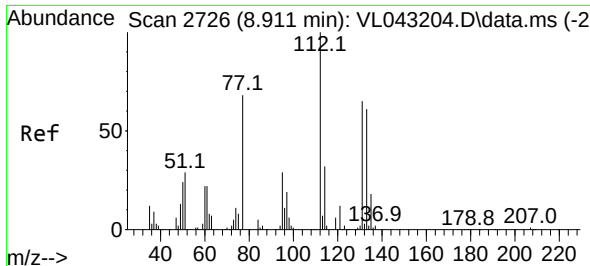
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.207 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

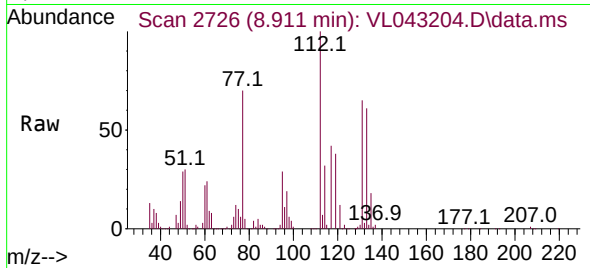
Tgt Ion:131 Resp: 158856
Ion Ratio Lower Upper
131 100
133 96.8 77.4 116.2
119 61.4 49.1 73.7





#57
Chlorobenzene
Concen: 9.438 ppbv
RT: 8.911 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

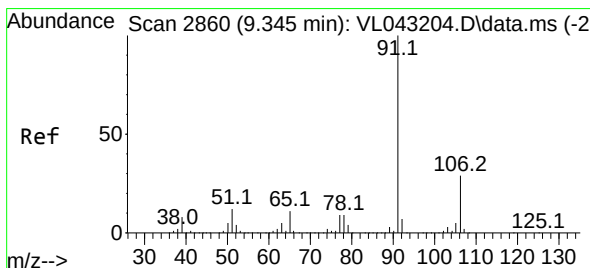
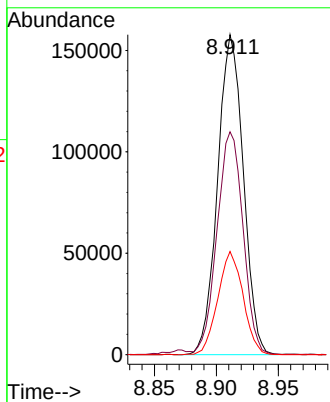
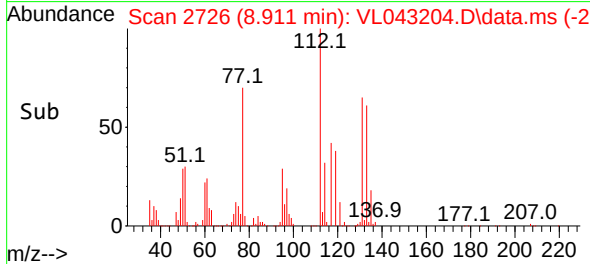
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:112 Resp: 227490
Ion Ratio Lower Upper
112 100
77 69.4 55.5 83.3
114 32.3 29.1 35.5

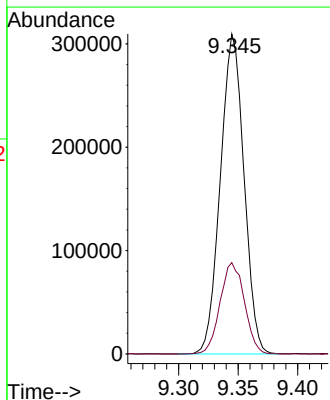
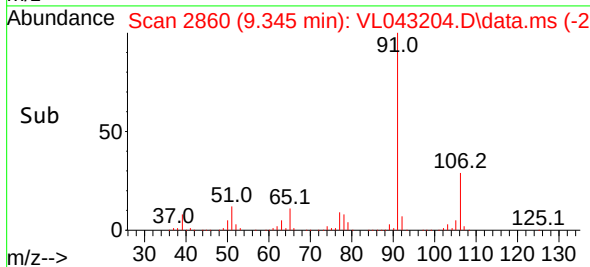
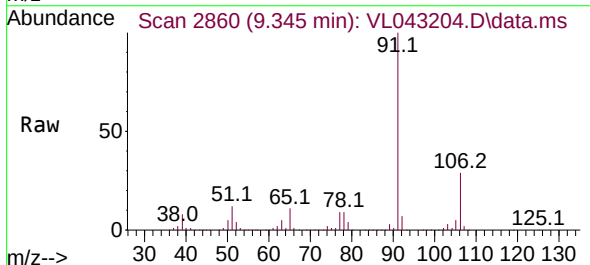
Manual Integrations
APPROVED

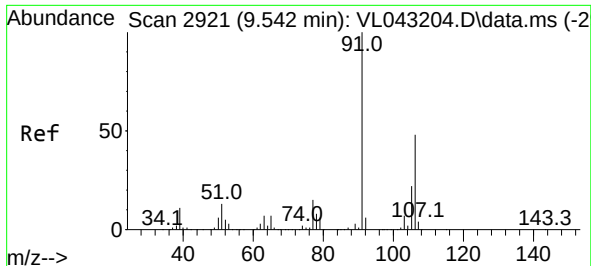
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 9.461 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 427530
Ion Ratio Lower Upper
91 100
106 28.5 22.8 34.2





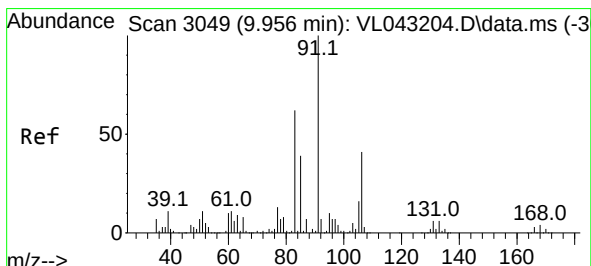
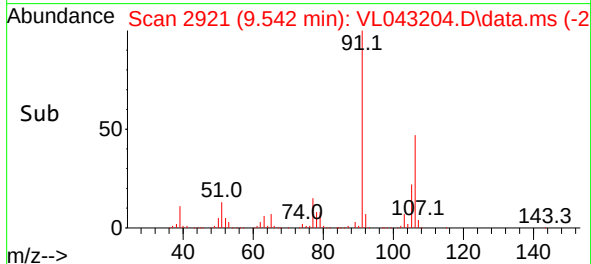
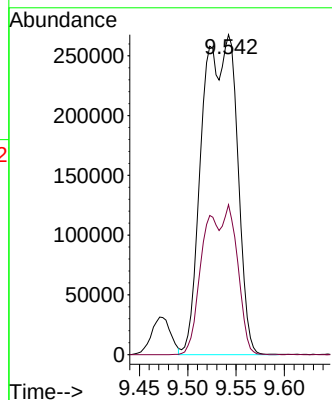
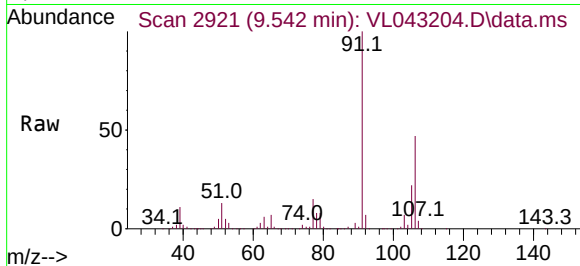
#59
m/p-Xylene
Concen: 18.519 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 67337
Ion Ratio Lower Upper
91 100
106 45.1 36.1 54.1

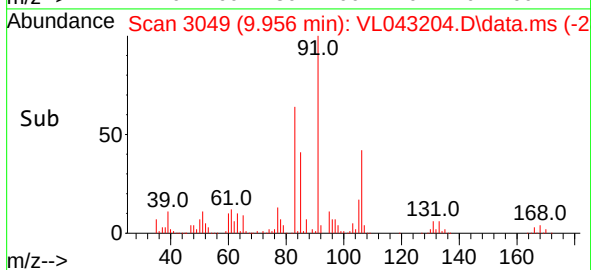
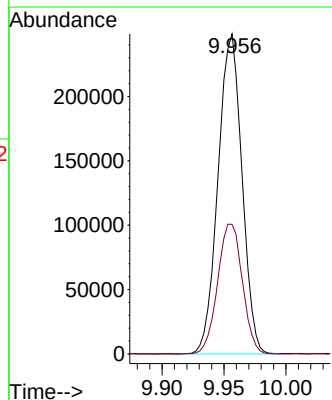
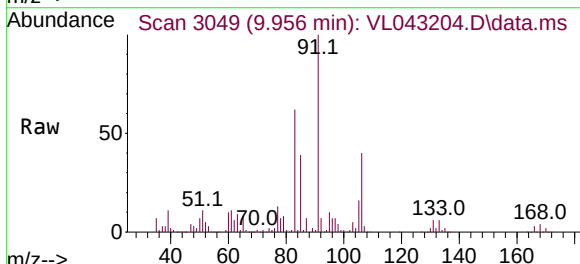
Manual Integrations
APPROVED

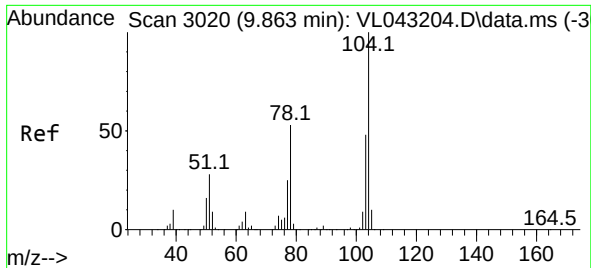
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 9.202 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 333044
Ion Ratio Lower Upper
91 100
106 41.9 20.9 62.8





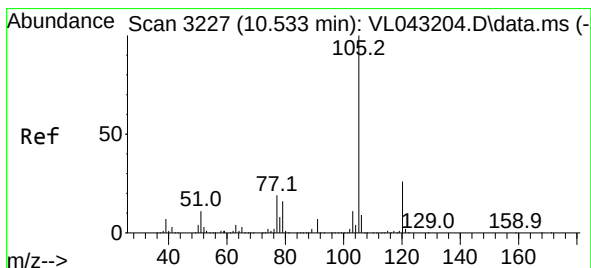
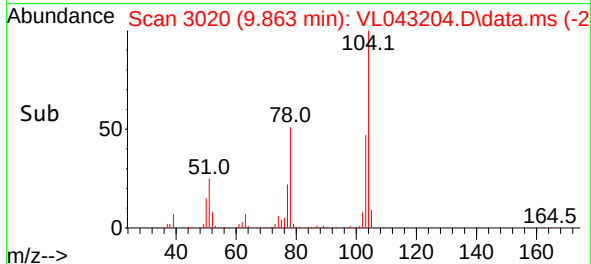
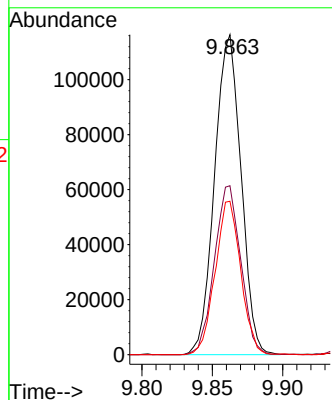
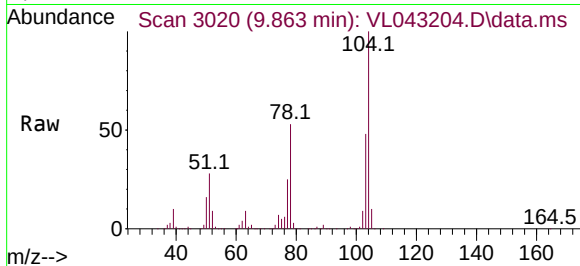
#61
Styrene
Concen: 9.607 ppbv
RT: 9.863 min Scan# 3020
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 152172
Ion Ratio Lower Upper
104 100
78 52.6 42.1 63.1
103 46.5 37.2 55.8

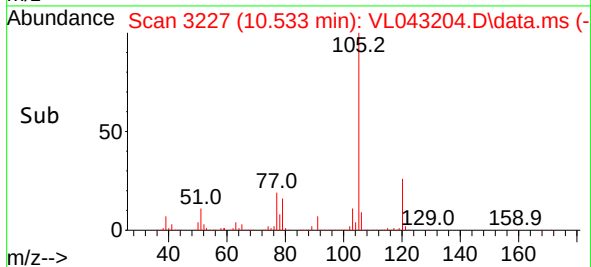
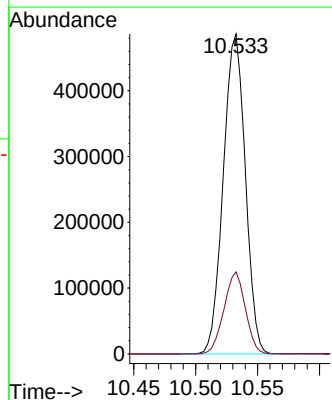
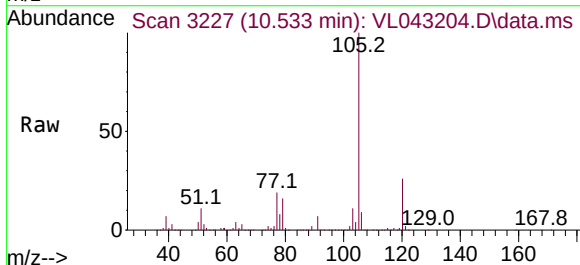
Manual Integrations
APPROVED

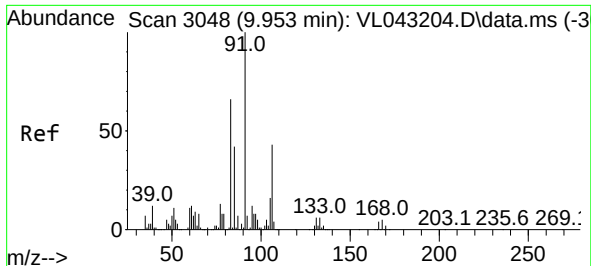
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#62
Isopropylbenzene
Concen: 9.269 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 600155
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





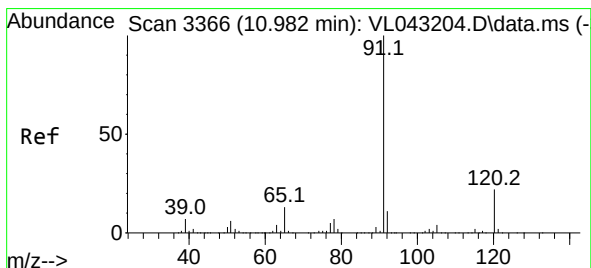
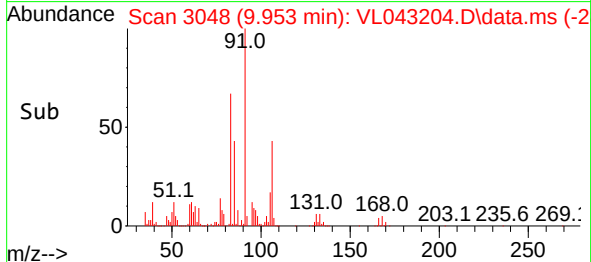
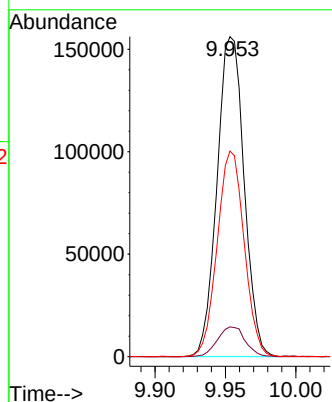
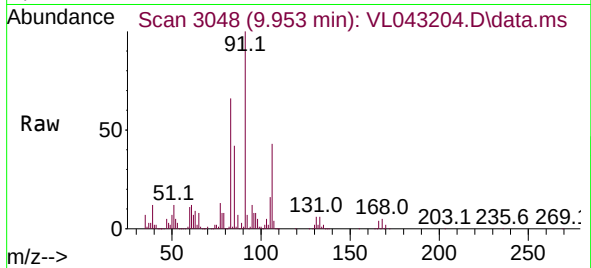
#63
1,1,2,2-Tetrachloroethane
Concen: 9.109 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 209272
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 63.9 31.9 95.9

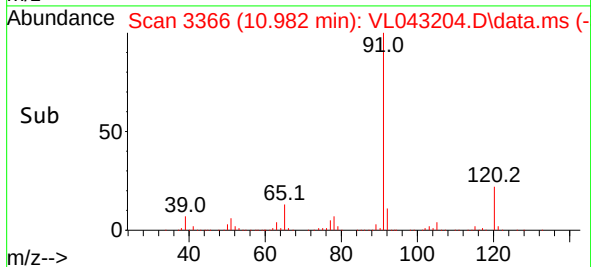
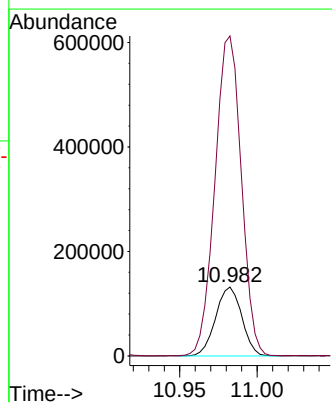
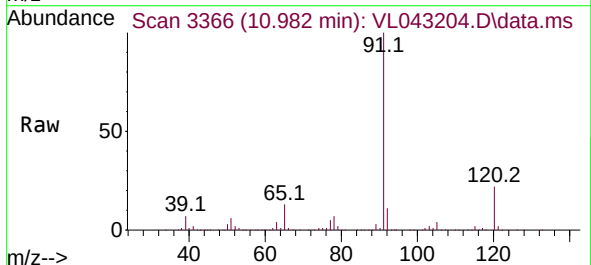
Manual Integrations
APPROVED

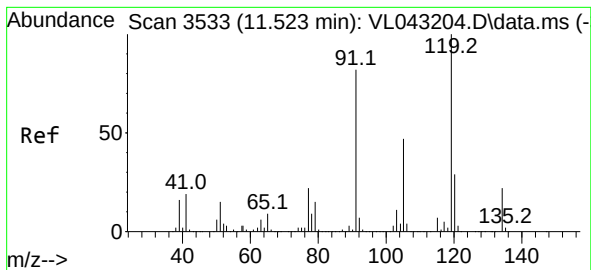
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#64
n-propylbenzene
Concen: 9.271 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:120 Resp: 154239
Ion Ratio Lower Upper
120 100
91 471.4 377.1 565.7





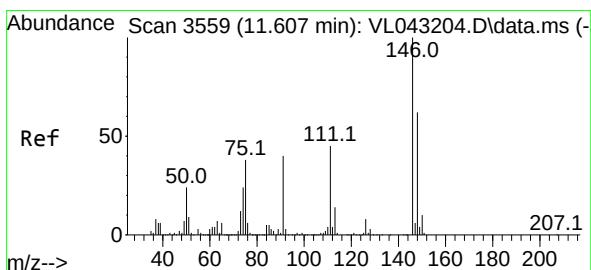
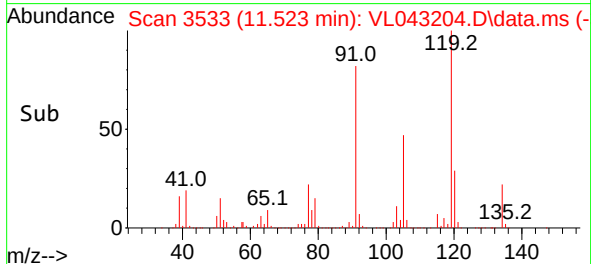
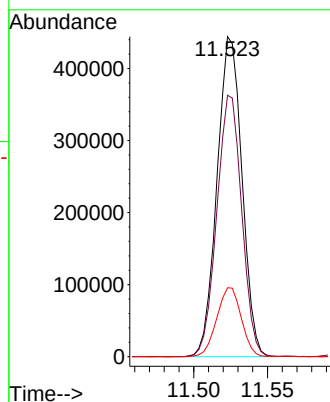
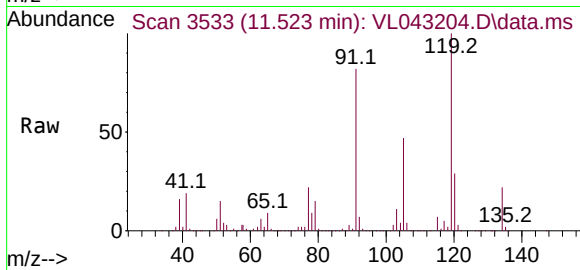
#65
tert-Butylbenzene
Concen: 9.029 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 522106
Ion Ratio Lower Upper
119 100
91 81.6 65.3 97.9
134 21.2 17.0 25.4

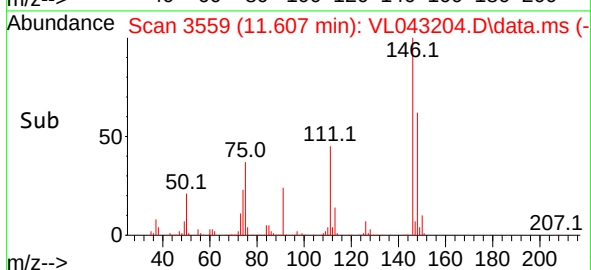
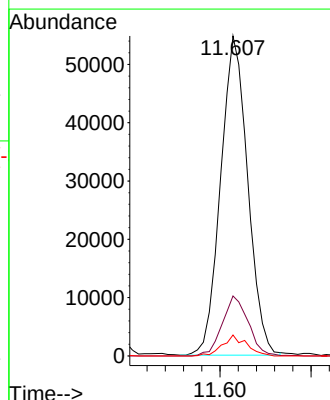
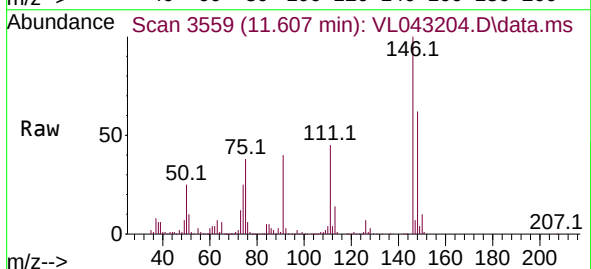
Manual Integrations
APPROVED

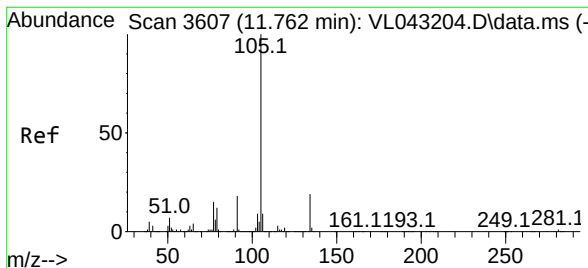
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#66
Benzyl Chloride
Concen: 9.649 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

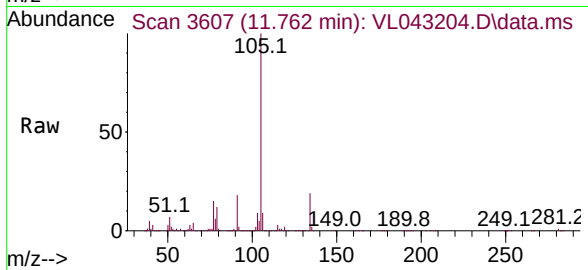
Tgt Ion: 91 Resp: 56620
Ion Ratio Lower Upper
91 100
126 18.0 14.4 21.6
128 5.7 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 9.039 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

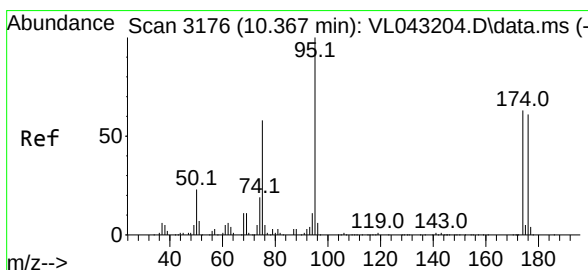
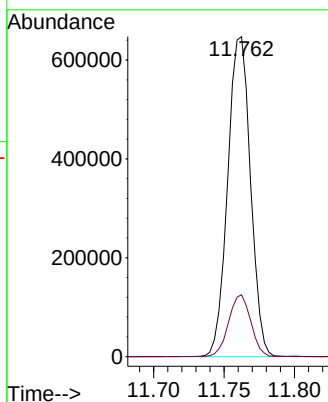
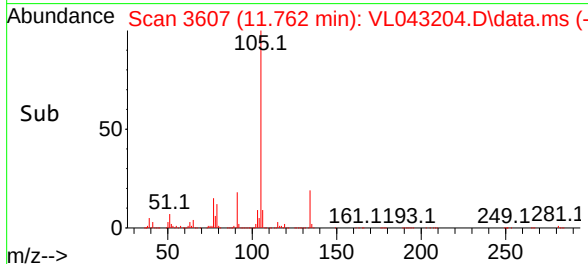
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



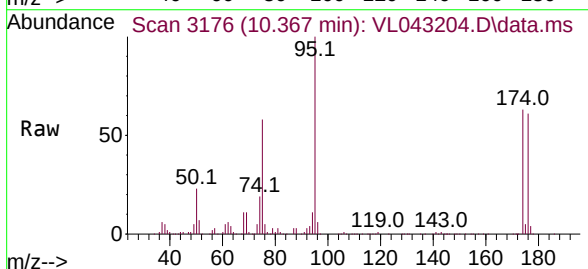
Tgt Ion:105 Resp: 729573
 Ion Ratio Lower Upper
 105 100
 134 18.8 15.0 22.6

Manual Integrations
 APPROVED

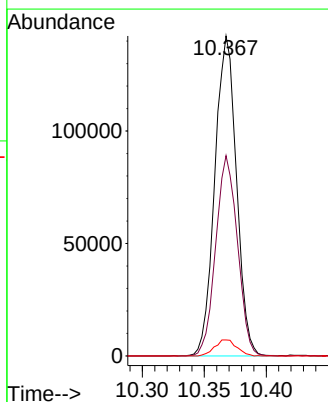
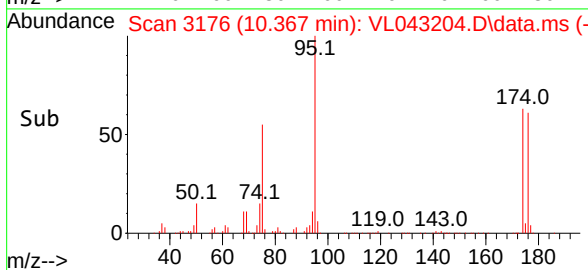
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

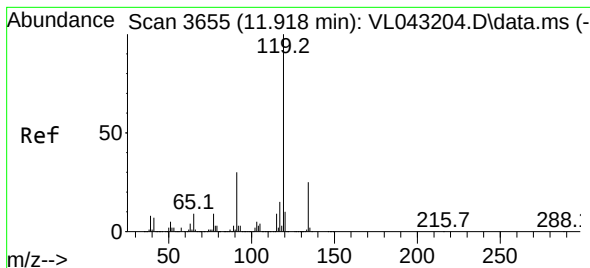


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.025 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02



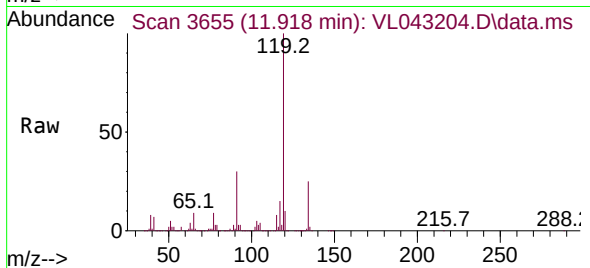
Tgt Ion: 95 Resp: 172524
 Ion Ratio Lower Upper
 95 100
 174 62.7 50.2 75.2
 175 5.1 4.1 6.1





#69
p-Isopropyltoluene
Concen: 9.135 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

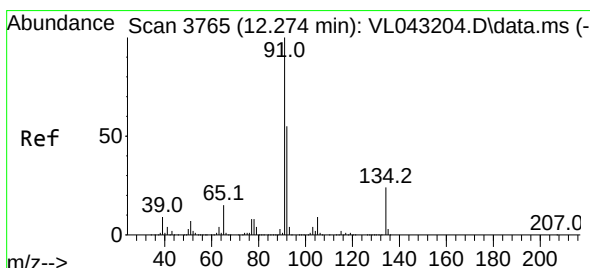
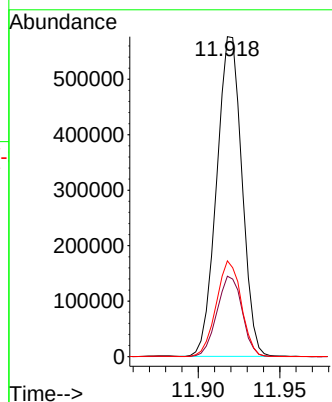
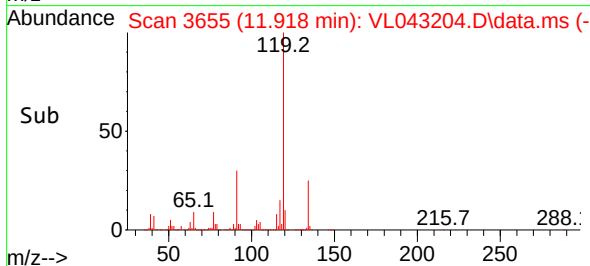
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



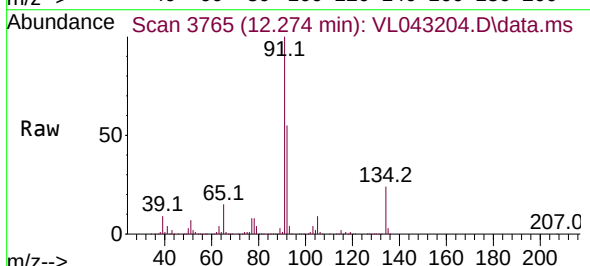
Tgt Ion: 119 Resp: 624586
Ion Ratio Lower Upper
119 100
134 25.2 20.2 30.2
91 29.8 23.8 35.8

Manual Integrations
APPROVED

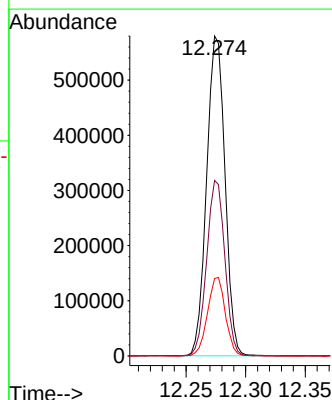
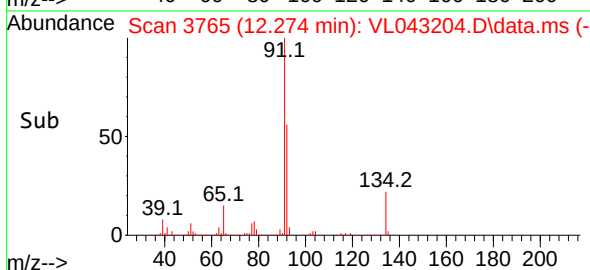
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

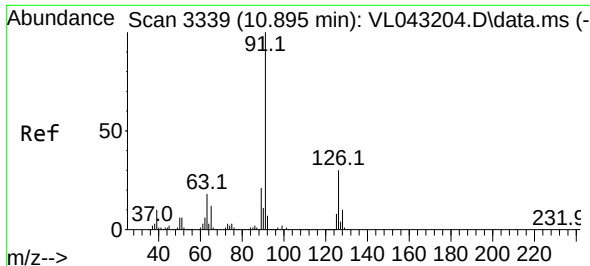


#70
n-Butylbenzene
Concen: 9.341 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



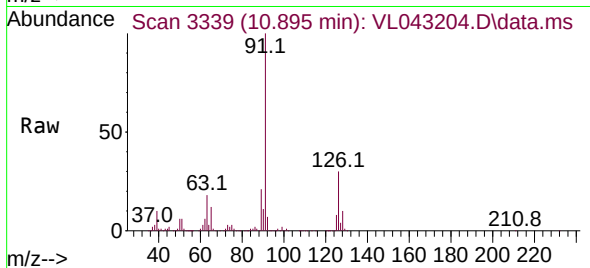
Tgt Ion: 91 Resp: 619610
Ion Ratio Lower Upper
91 100
92 54.4 43.5 65.3
134 23.8 19.0 28.6





#71
2-Chlorotoluene
Concen: 9.245 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

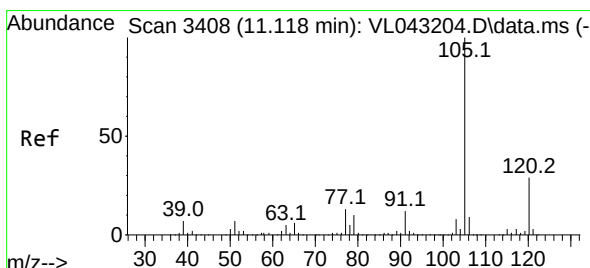
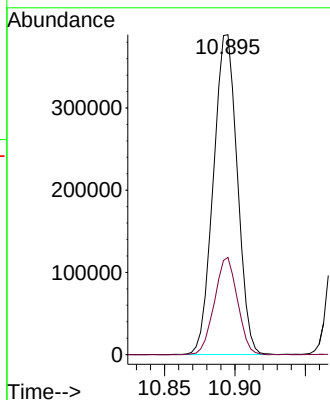
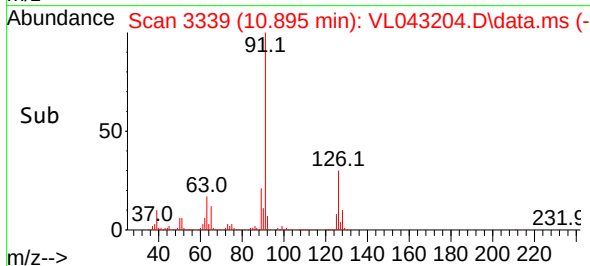
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



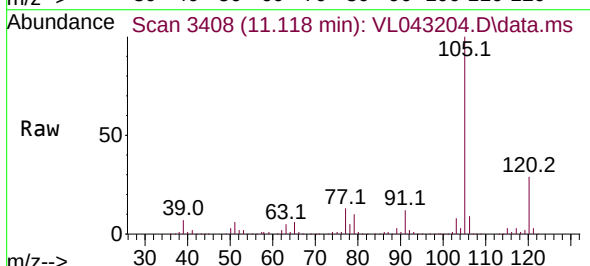
Tgt Ion: 91 Resp: 460118
Ion Ratio Lower Upper
91 100
126 29.2 11.7 46.7

Manual Integrations
APPROVED

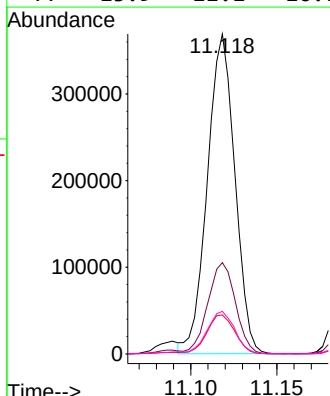
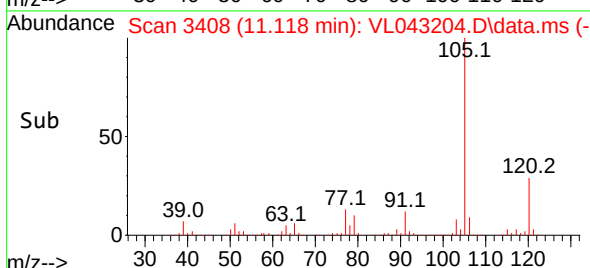
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

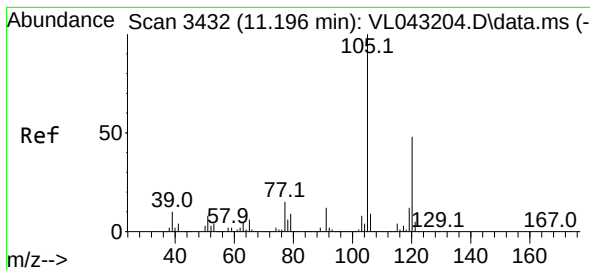


#72
4-Ethyltoluene
Concen: 9.316 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02



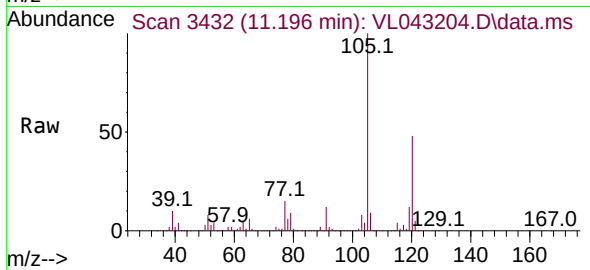
Tgt Ion:105 Resp: 410587
Ion Ratio Lower Upper
105 100
120 29.8 23.8 35.8
91 12.9 10.3 15.5
77 13.9 11.1 16.7





#73
 1,3,5-Trimethylbenzene
 Concen: 9.244 ppbv
 RT: 11.196 min Scan# 3432
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02

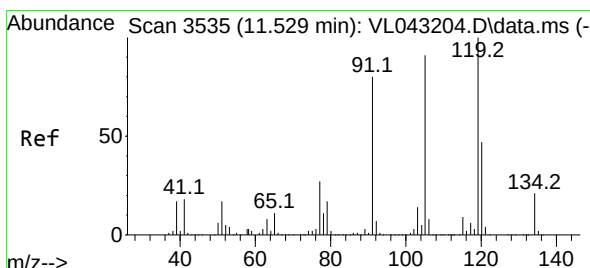
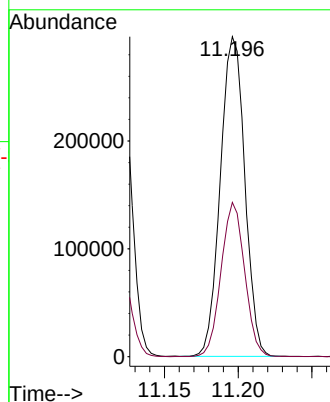
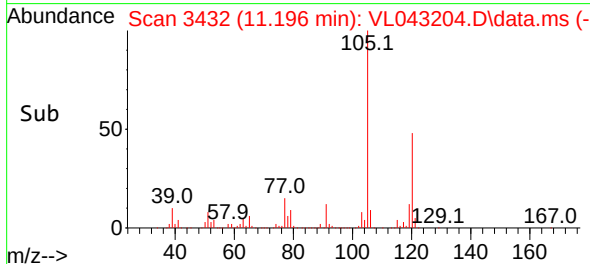
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



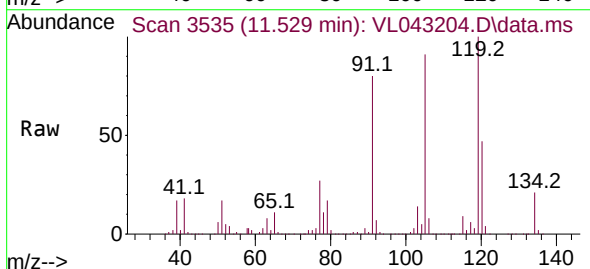
Tgt Ion:105 Resp: 341900
 Ion Ratio Lower Upper
 105 100
 120 48.2 38.6 57.8

Manual Integrations
 APPROVED

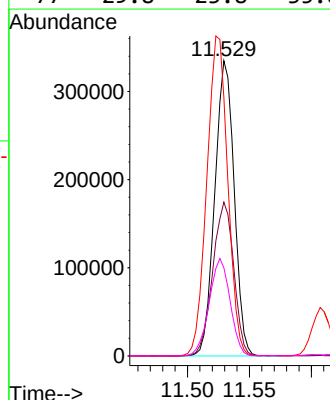
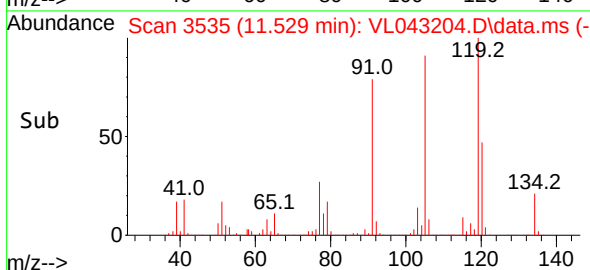
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

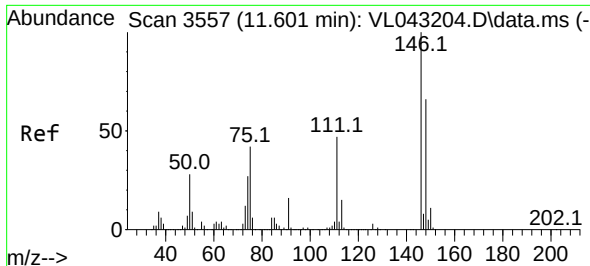


#74
 1,2,4-Trimethylbenzene
 Concen: 9.005 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. 0.000 min
 Lab File: VL043204.D
 Acq: 18 Nov 2025 10:02



Tgt Ion:105 Resp: 363476
 Ion Ratio Lower Upper
 105 100
 120 52.1 41.7 62.5
 91 87.5 70.0 105.0
 77 29.8 23.8 35.8





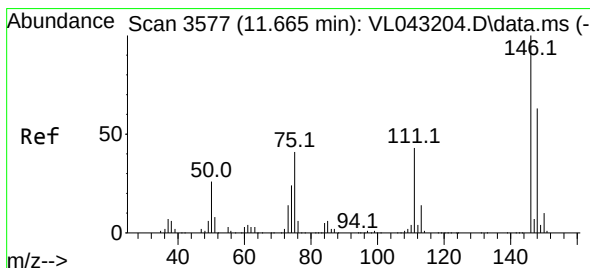
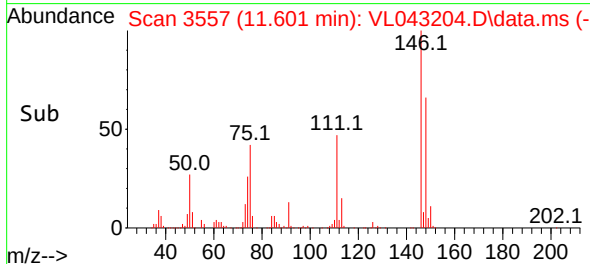
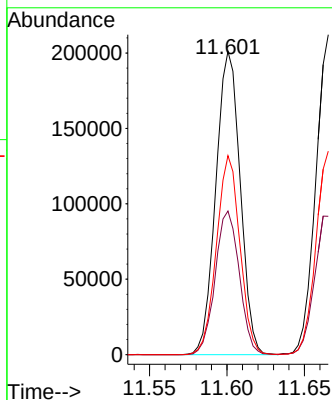
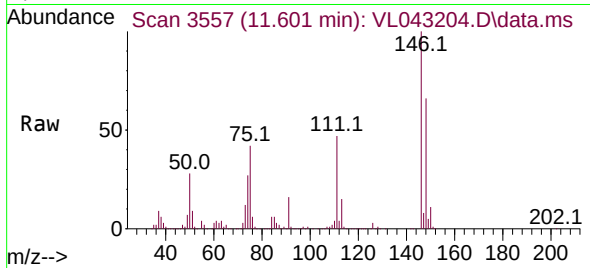
#75
1,3-Dichlorobenzene
Concen: 9.335 ppbv
RT: 11.601 min Scan# 3557
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 219894
Ion Ratio Lower Upper
146 100
111 46.9 23.4 70.3
148 63.3 31.6 95.0

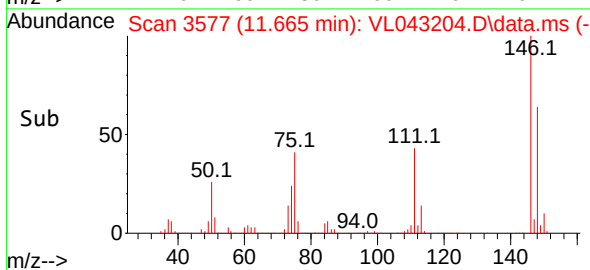
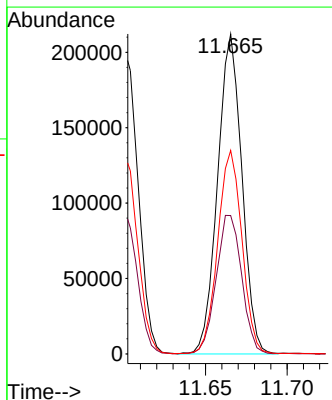
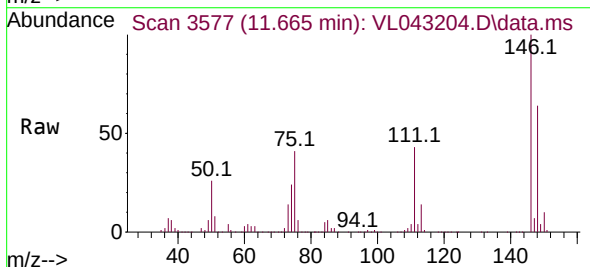
Manual Integrations
APPROVED

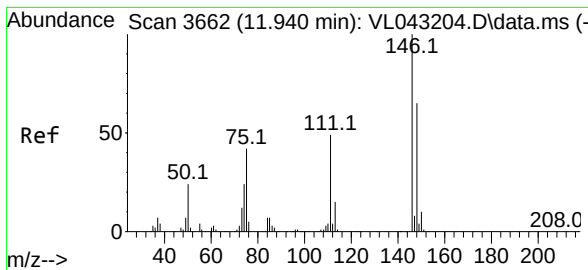
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#76
1,4-Dichlorobenzene
Concen: 9.363 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:146 Resp: 220576
Ion Ratio Lower Upper
146 100
111 45.5 22.8 68.3
148 63.6 31.8 95.4





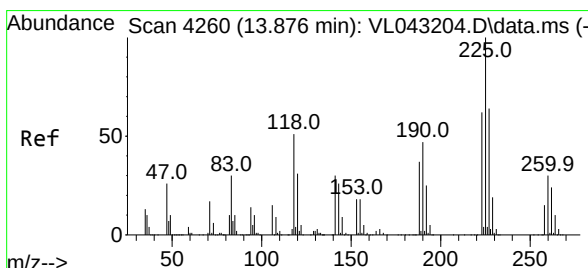
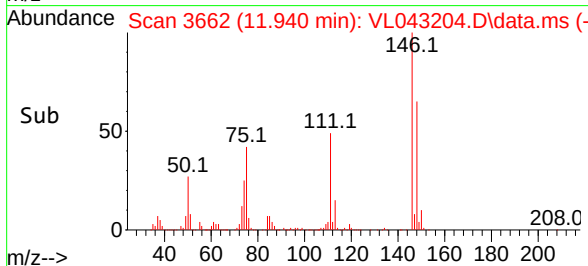
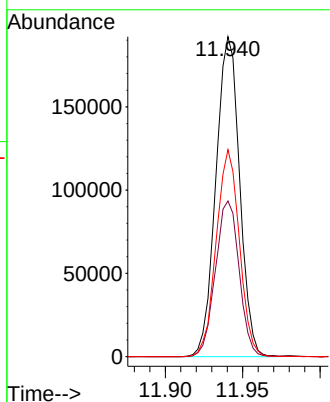
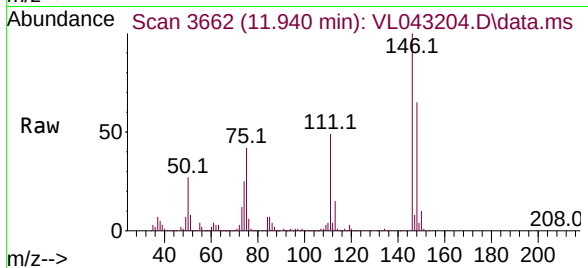
#77
1,2-Dichlorobenzene
Concen: 9.044 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 204826
Ion Ratio Lower Upper
146 100
111 48.7 24.3 73.0
148 63.1 31.6 94.7

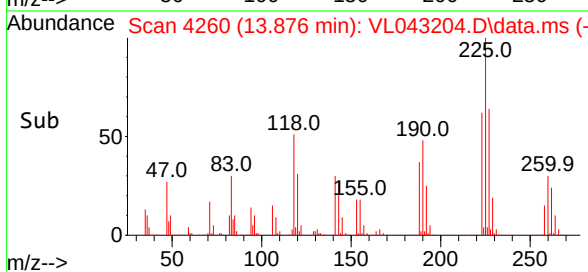
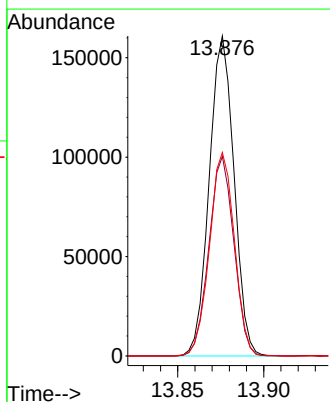
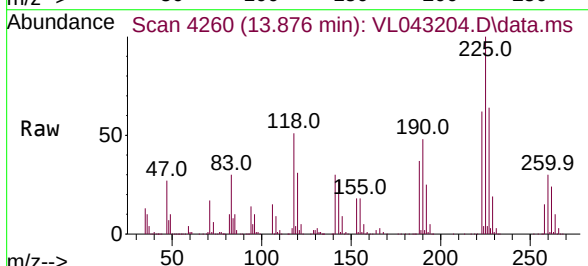
Manual Integrations
APPROVED

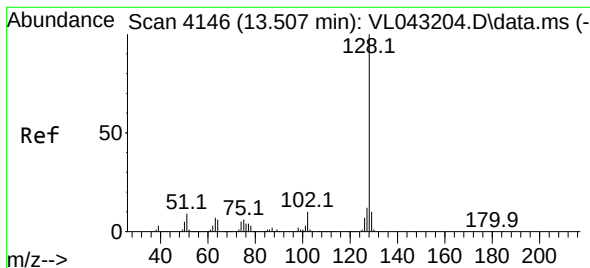
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#78
Hexachloro-1,3-Butadiene
Concen: 8.520 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:225 Resp: 161034
Ion Ratio Lower Upper
225 100
223 62.8 50.2 75.4
227 63.9 51.1 76.7





#79

Naphthalene

Concen: 9.795 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. 0.000 min

Lab File: VL043204.D

Acq: 18 Nov 2025 10:02

Instrument :

MSVOA_L

ClientSampleId :

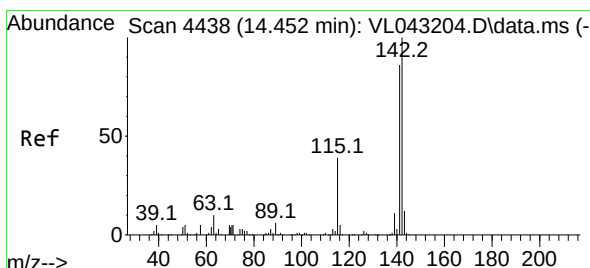
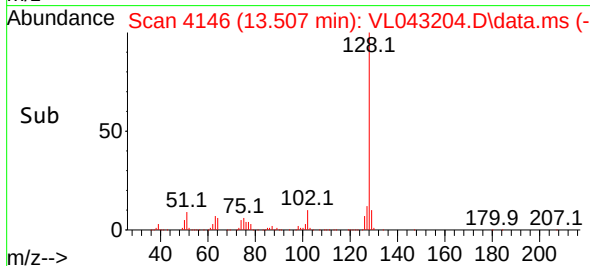
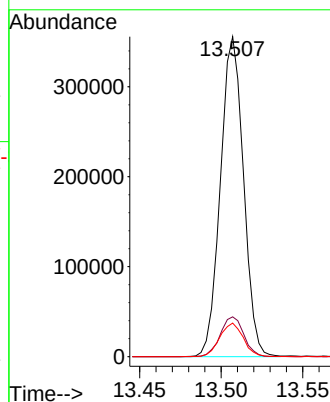
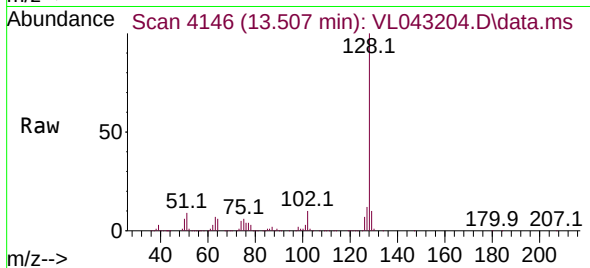
VSTDICCC010

Tgt Ion:	128	Resp:	351148
Ion Ratio	Lower	Upper	
128	100		
127	12.4	9.9	14.9
129	10.5	8.4	12.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#80

Naphthalene,2-methyl-

Concen: 9.895 ppbv

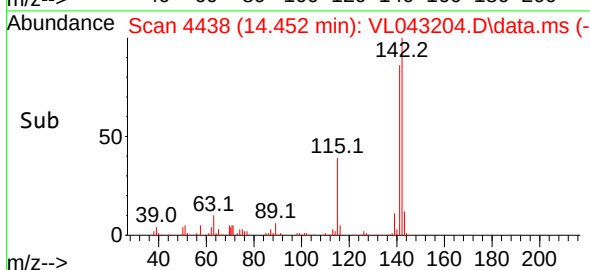
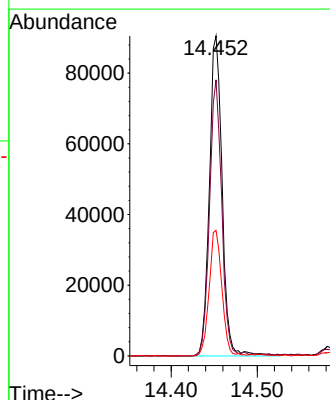
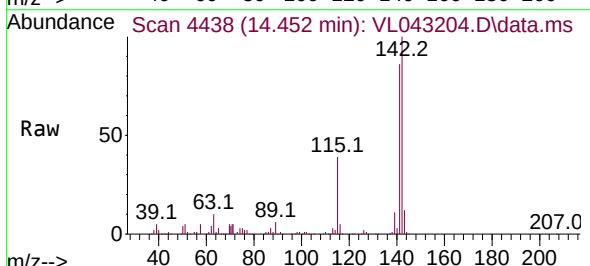
RT: 14.452 min Scan# 4438

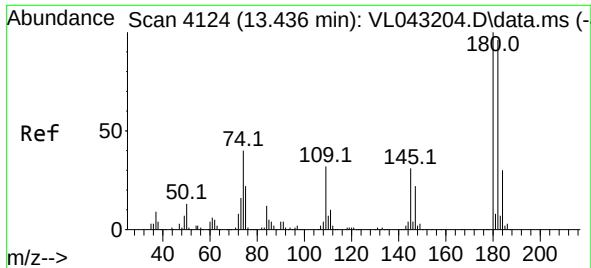
Delta R.T. 0.000 min

Lab File: VL043204.D

Acq: 18 Nov 2025 10:02

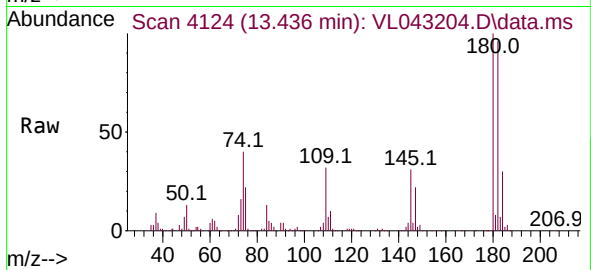
Tgt Ion:	142	Resp:	93113
Ion Ratio	Lower	Upper	
142	100		
141	83.9	67.1	100.7
115	39.9	31.9	47.9





#81
1,2,4-Trichlorobenzene
Concen: 9.923 ppbv
RT: 13.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

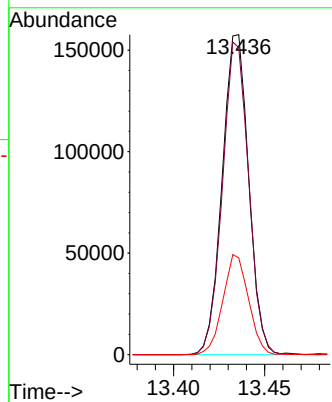
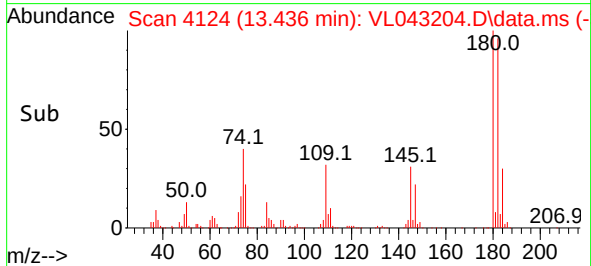
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:180 Resp: 159091
Ion Ratio Lower Upper
180 100
182 96.8 77.4 116.2
184 30.3 24.2 36.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043205.D
 Acq On : 18 Nov 2025 10:37
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:50:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	104644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	284629	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	230646	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 171009 10.115 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	30881	2.092	ppbv	98
3) Chlorodifluoromethane	1.476	51	30069	2.072	ppbv	98
4) Chloromethane	1.534	50	11890	2.155	ppbv	96
5) Vinyl Chloride	1.580	62	12040	1.995	ppbv	96
6) Bromomethane	1.670	94	5981	2.044	ppbv	99
7) Chloroethane	1.706	64	4943	2.103	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	26409	2.151	ppbv	98
9) Propene	1.486	41	12993	1.930	ppbv #	1
10) Heptane	4.972	43	36171m	1.958	ppbv	
11) Trichlorofluoromethane	1.878	101	31124	2.177	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	23336	2.090	ppbv	100
13) Ethanol	1.722	45	5266	2.430	ppbv	86
14) Bromoethene	1.784	108	9129	2.133	ppbv	95
15) Acetone	1.835	43	31785	2.186	ppbv	91
16) 1,3-Butadiene	1.609	39	13101	2.021	ppbv	89
17) tert-Butyl alcohol	2.039	59	39348	2.062	ppbv	95
18) 1,1-Dichloroethene	2.036	96	10780	2.074	ppbv	94
19) Isopropyl Alcohol	1.887	45	17229	2.097	ppbv #	71
20) Methylene Chloride	2.062	84	12238	2.248	ppbv	96
21) Allyl Chloride	2.098	41	19580	2.002	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	12537	2.110	ppbv	94
23) Vinyl Acetate	2.460	43	35205	2.006	ppbv #	97
24) 1,1-Dichloroethane	2.408	63	24987	2.179	ppbv	99
25) Ethyl Acetate	2.832	43	64343	2.048	ppbv	99
26) Hexane	2.826	57	28776	2.093	ppbv	97
27) Carbon Disulfide	2.149	76	29964	2.135	ppbv #	91
28) Methyl tert-Butyl Ether	2.438	73	14101	2.090	ppbv #	85
29) Chloroform	2.849	83	40355	2.065	ppbv	98
30) Cyclohexane	3.855	84	23659	2.053	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	27663	2.024	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	42547	2.024	ppbv	99
34) 2-Butanone	2.557	43	41884	2.085	ppbv	99
35) Carbon Tetrachloride	3.765	117	41949	1.942	ppbv	96
36) Benzene	3.654	78	56141m	2.060	ppbv	
37) 1,2-Dichloroethane	3.218	62	32188	2.019	ppbv	100
38) Trichloroethene	4.548	130	21105m	1.975	ppbv	
39) 1,2-Dichloropropane	4.312	63	19913	1.996	ppbv	93
40) 1,4-Dioxane	4.580	88	8829m	1.969	ppbv	
41) Tetrahydrofuran	3.056	42	22912	2.065	ppbv	99
42) Bromodichloromethane	4.490	83	44584	2.027	ppbv	98
43) Methyl Methacrylate	4.875	69	29071	2.009	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	92261	1.971	ppbv	96
45) t-1,3-Dichloropropene	6.406	75	27833m	2.064	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043205.D
 Acq On : 18 Nov 2025 10:37
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:50:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

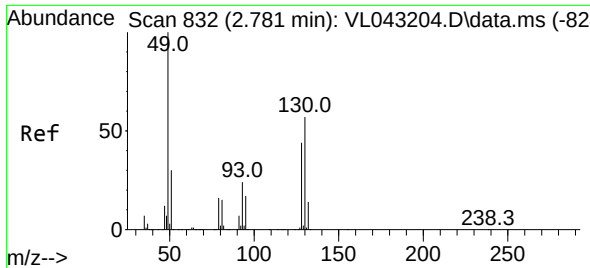
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	31986	2.020	ppbv	91
47) 1,1,2-Trichloroethane	6.577	97	21542m	2.025	ppbv	
48) Dibromochloromethane	7.386	129	37758m	2.074	ppbv	
49) Bromoform	9.480	173	33057	2.050	ppbv	98
50) 4-Methyl-2-Pentanone	5.745	43	58461	2.066	ppbv	98
51) 2-Hexanone	7.432	43	46444	2.113	ppbv #	99
52) Tetrachloroethene	8.218	164	19856	1.958	ppbv	96
53) Toluene	6.927	91	65238	2.008	ppbv	97
54) 1,2-Dibromoethane	7.648	107	31266	2.007	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	35099	2.071	ppbv	99
57) Chlorobenzene	8.917	112	50228	2.121	ppbv	97
58) Ethyl Benzene	9.351	91	92649	2.087	ppbv	98
59) m/p-Xylene	9.529	91	148300m	4.151	ppbv	
60) o-Xylene	9.959	91	76540	2.153	ppbv	100
61) Styrene	9.866	104	33188	2.133	ppbv	98
62) Isopropylbenzene	10.536	105	135853	2.136	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.963	83	47439	2.102	ppbv	99
64) n-propylbenzene	10.985	120	34915	2.136	ppbv	99
65) tert-Butylbenzene	11.529	119	122064	2.149	ppbv	99
66) Benzyl Chloride	11.610	91	11870	2.059	ppbv	99
67) sec-Butylbenzene	11.765	105	170529	2.151	ppbv	100
69) p-Isopropyltoluene	11.921	119	147482	2.195	ppbv	98
70) n-Butylbenzene	12.280	91	144148	2.212	ppbv	99
71) 2-Chlorotoluene	10.898	91	101951	2.085	ppbv	100
72) 4-Ethyltoluene	11.121	105	92654	2.140	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	76655	2.110	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	86286	2.176	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	48961	2.116	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	48881	2.112	ppbv	98
77) 1,2-Dichlorobenzene	11.944	146	48431	2.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	42456	2.287	ppbv	99
79) Naphthalene	13.510	128	85788	2.436	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	20685	2.237	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	37521	2.382	ppbv	99

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



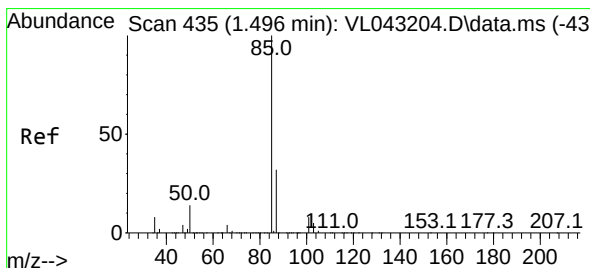
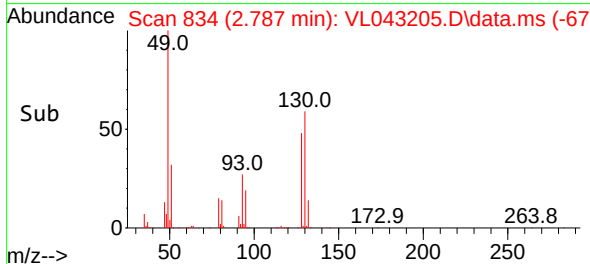
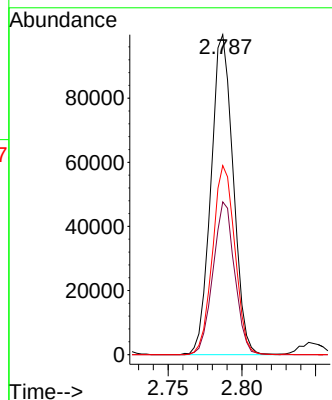
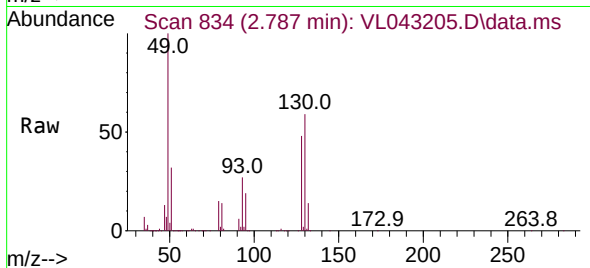
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 104644
Ion Ratio Lower Upper
49 100
128 46.4 23.0 69.0
130 59.1 29.9 89.7

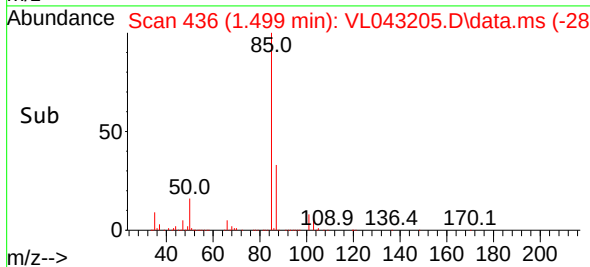
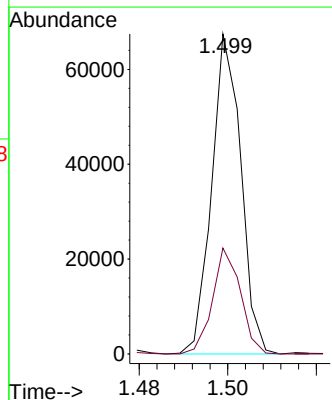
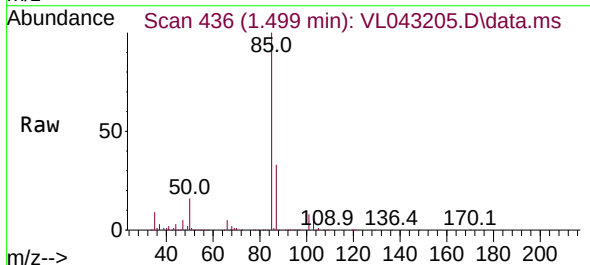
Manual Integrations
APPROVED

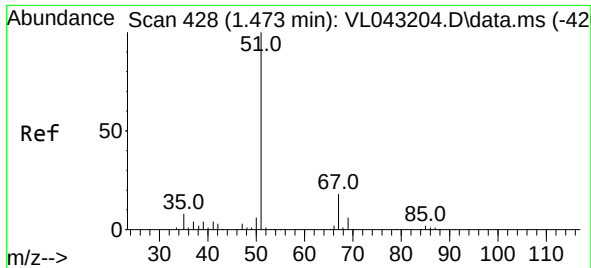
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 2.092 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 30881
Ion Ratio Lower Upper
85 100
87 33.1 25.4 38.2





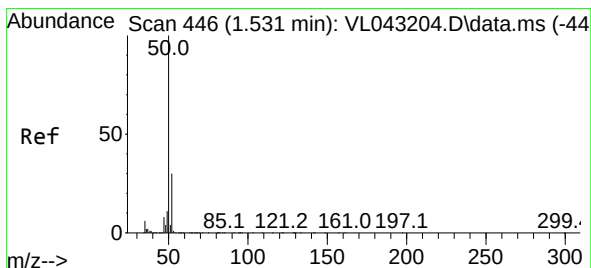
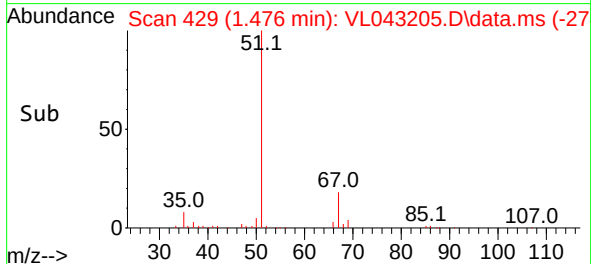
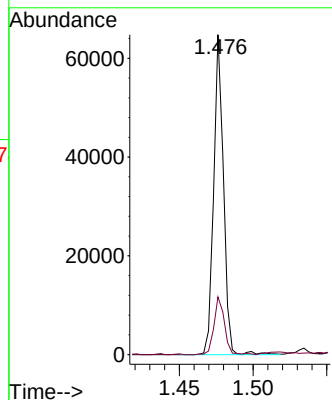
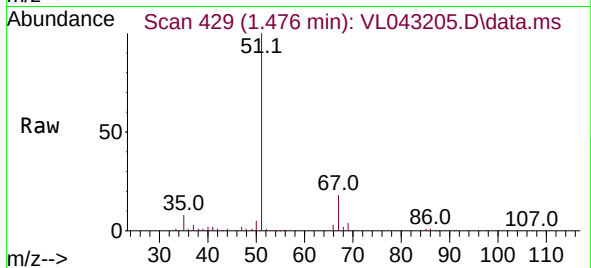
#3
Chlorodifluoromethane
Concen: 2.072 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 30069
Ion Ratio Lower Upper
51 100
67 19.4 14.9 22.3

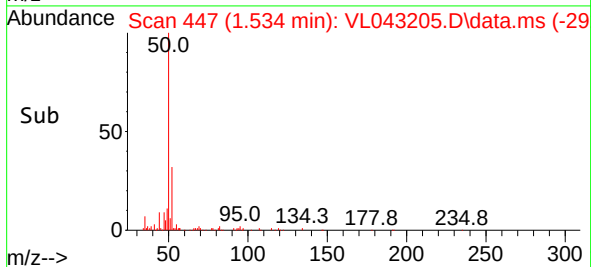
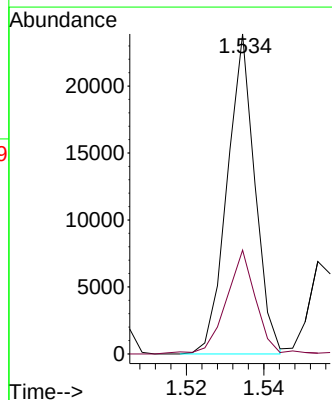
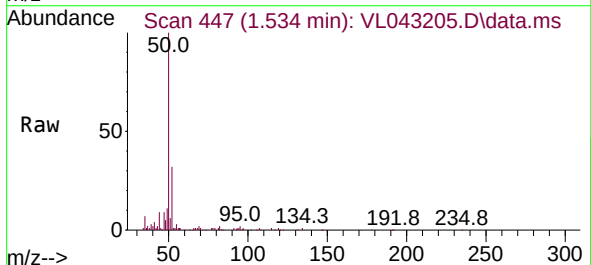
Manual Integrations
APPROVED

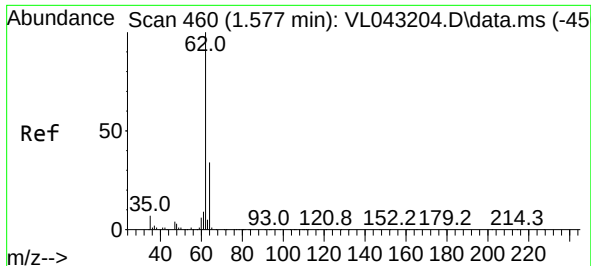
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 2.155 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 50 Resp: 11890
Ion Ratio Lower Upper
50 100
52 32.0 24.1 36.1





#5
 Vinyl Chloride
 Concen: 1.995 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

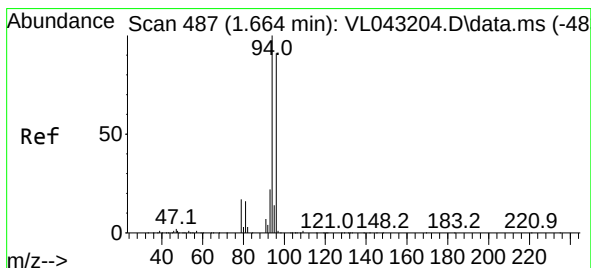
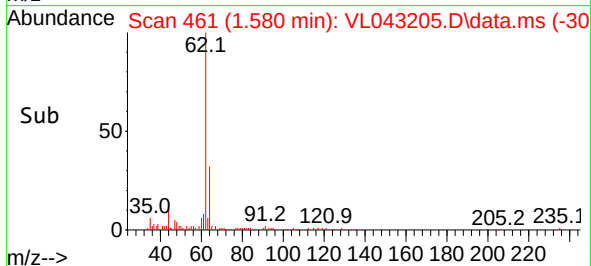
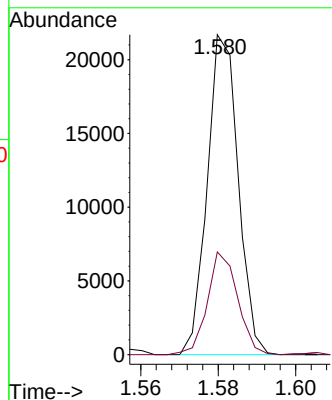
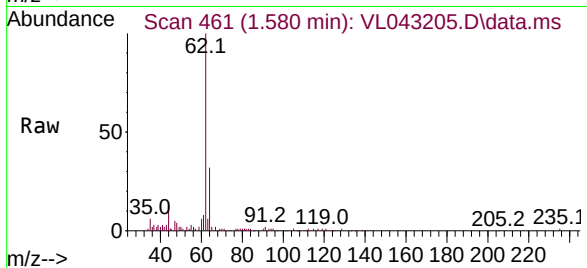
VSTDICC002

Tgt Ion: 62 Resp: 12040
 Ion Ratio Lower Upper
 62 100
 64 32.1 27.3 40.9

Manual Integrations

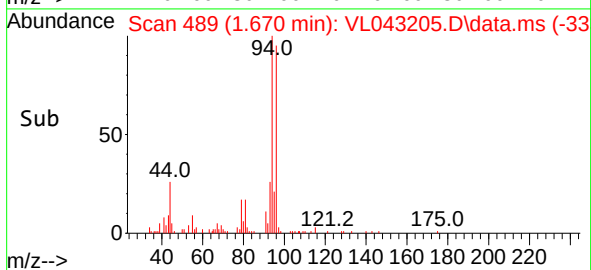
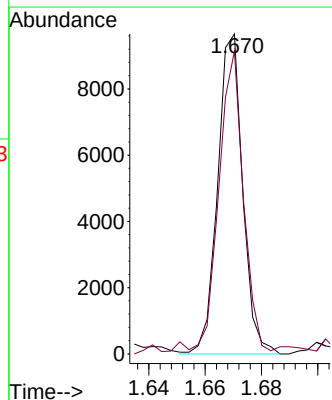
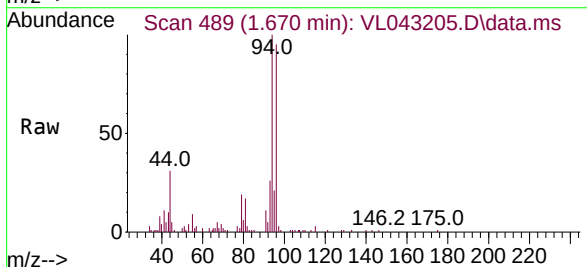
APPROVED

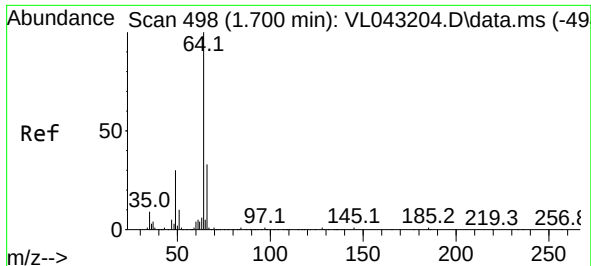
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#6
 Bromomethane
 Concen: 2.044 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.006 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

Tgt Ion: 94 Resp: 5981
 Ion Ratio Lower Upper
 94 100
 96 92.4 72.9 109.3





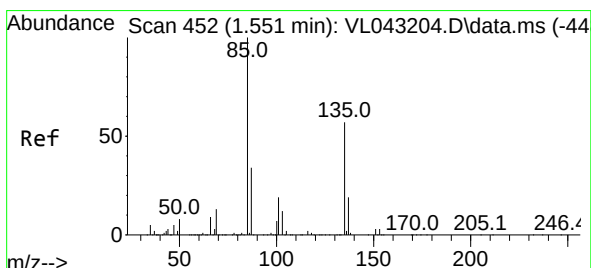
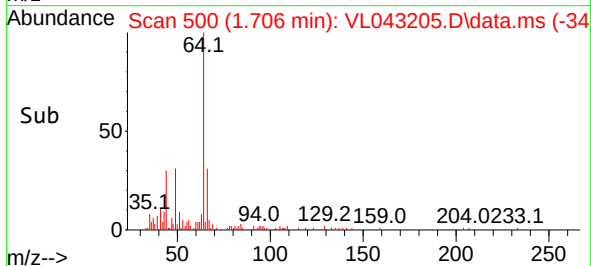
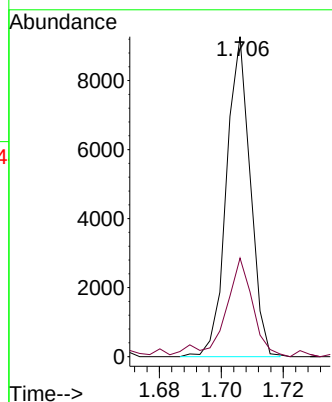
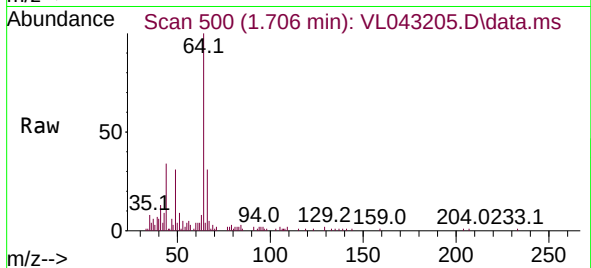
#7
Chloroethane
Concen: 2.103 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 64 Resp: 4943
Ion Ratio Lower Upper
64 100
66 30.8 26.8 40.2

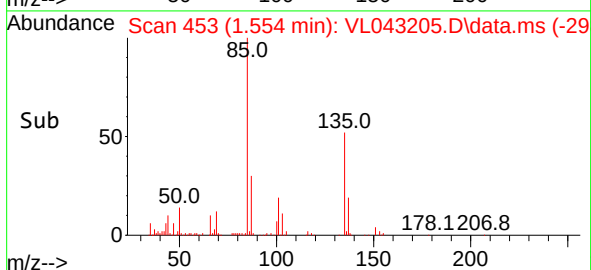
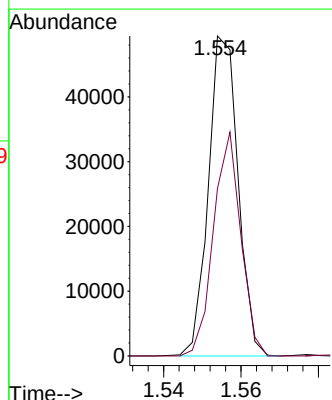
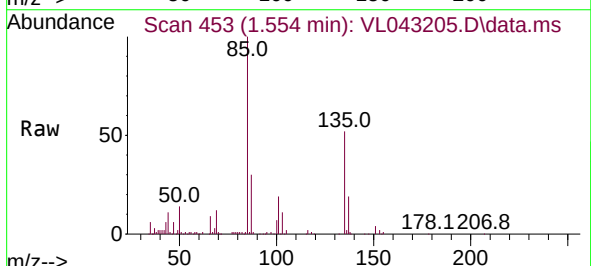
Manual Integrations
APPROVED

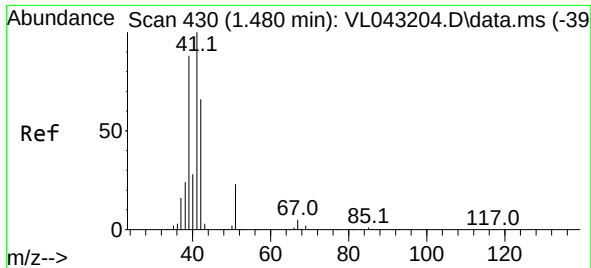
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#8
Dichlorotetrafluoroethane
Concen: 2.151 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 26409
Ion Ratio Lower Upper
85 100
135 64.3 52.6 79.0





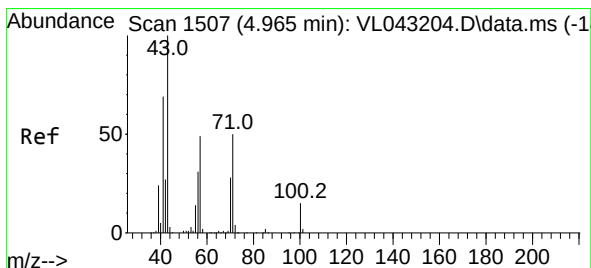
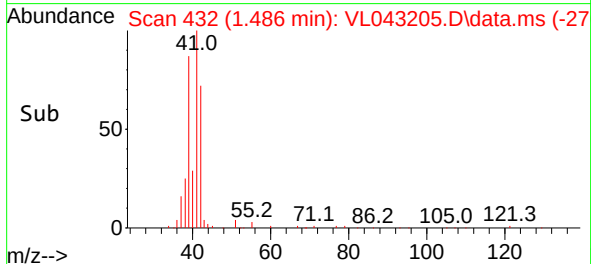
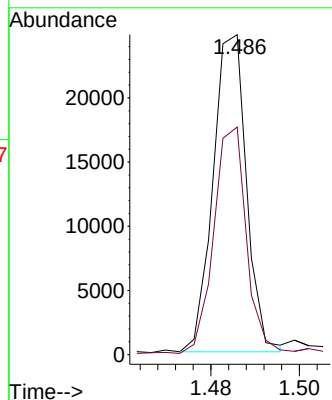
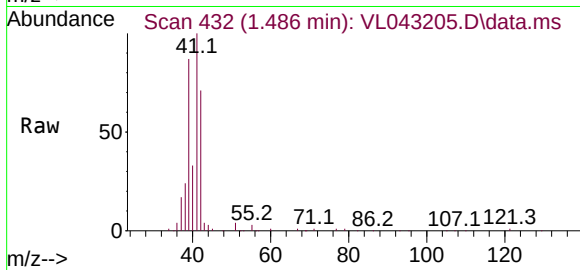
#9
Propene
Concen: 1.930 ppbv
RT: 1.486 min Scan# 430
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 12993
Ion Ratio Lower Upper
41 100
42 75.1 3.7 5.5

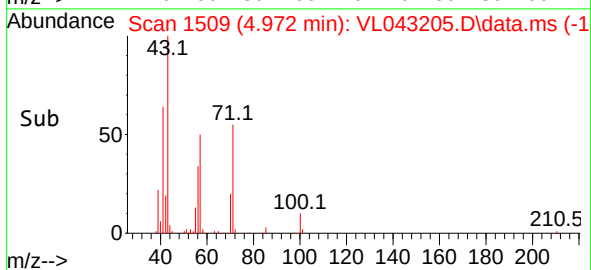
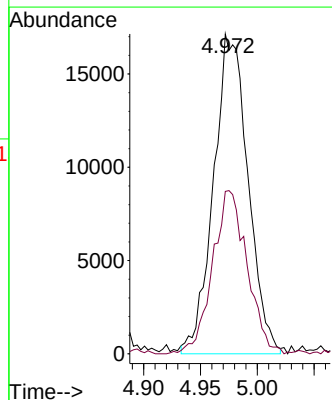
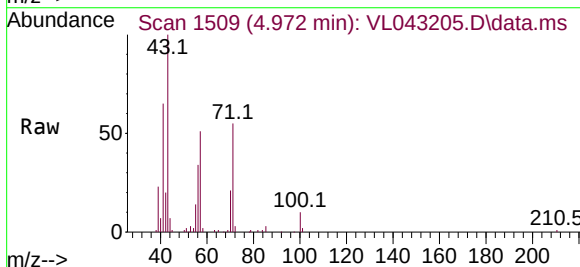
Manual Integrations
APPROVED

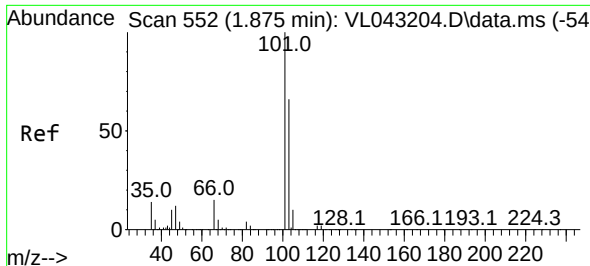
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#10
Heptane
Concen: 1.958 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

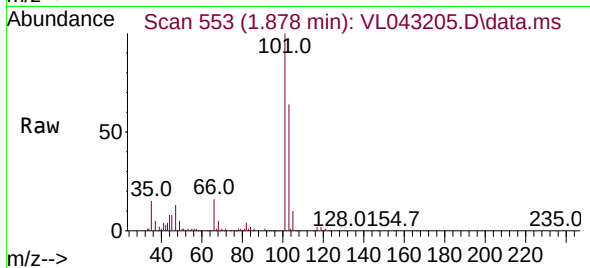
Tgt Ion: 43 Resp: 36171
Ion Ratio Lower Upper
43 100
57 0.0 39.7 59.5





#11
 Trichlorofluoromethane
 Concen: 2.177 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

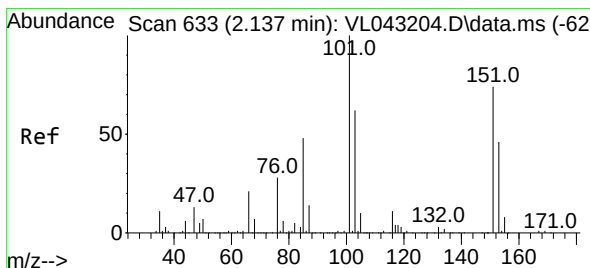
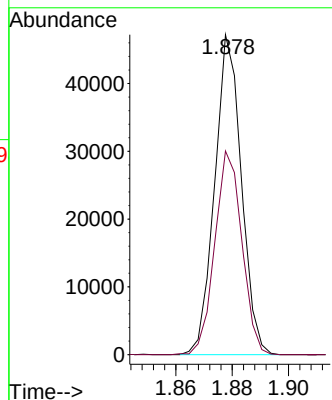
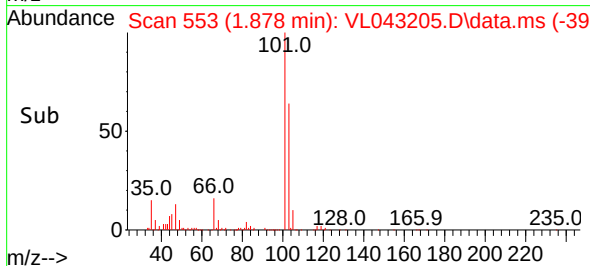
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



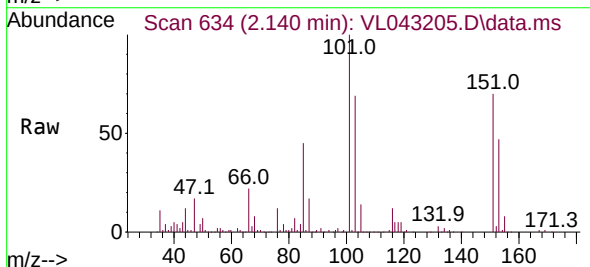
Tgt Ion:101 Resp: 31124
 Ion Ratio Lower Upper
 101 100
 103 63.6 52.6 79.0

Manual Integrations
 APPROVED

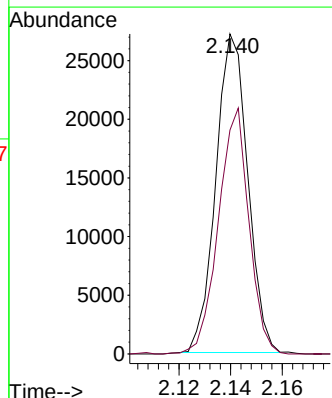
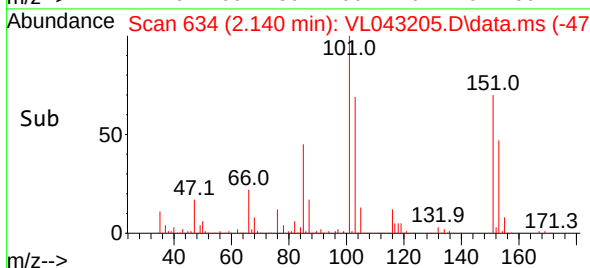
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

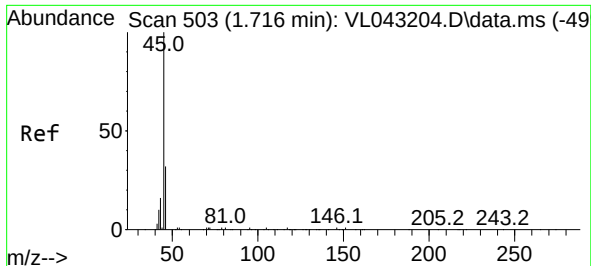


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.090 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37



Tgt Ion:101 Resp: 23336
 Ion Ratio Lower Upper
 101 100
 151 73.8 59.2 88.8





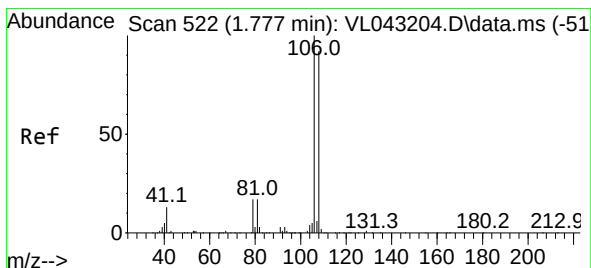
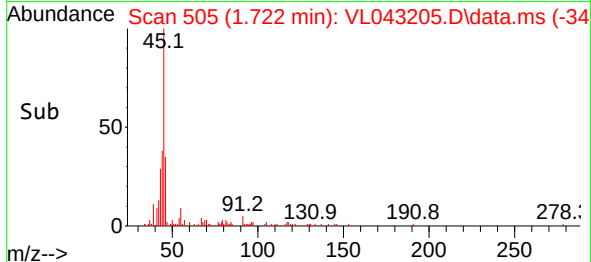
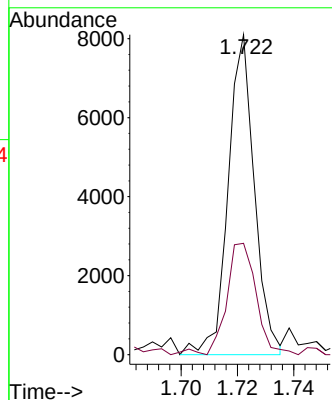
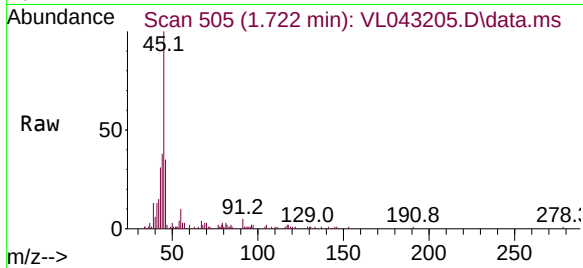
#13
Ethanol
Concen: 2.430 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 45 Resp: 5266
Ion Ratio Lower Upper
45 100
46 45.7 15.0 59.8

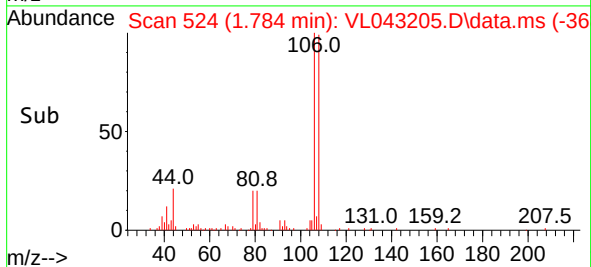
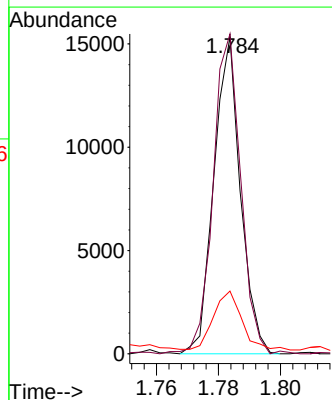
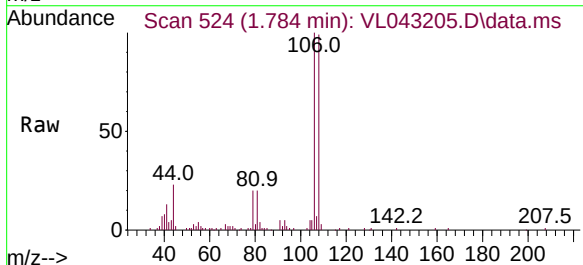
Manual Integrations
APPROVED

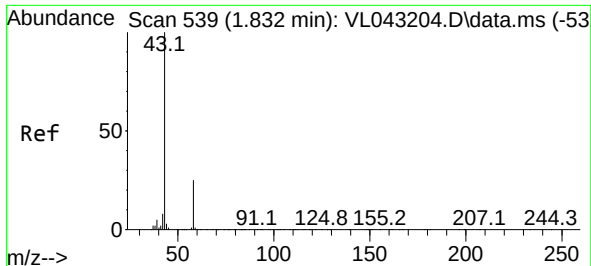
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#14
Bromoethene
Concen: 2.133 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

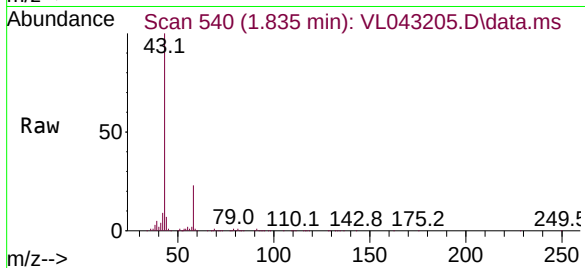
Tgt Ion:108 Resp: 9129
Ion Ratio Lower Upper
108 100
106 106.6 88.9 133.3
79 24.3 16.5 24.7





#15
Acetone
Concen: 2.186 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

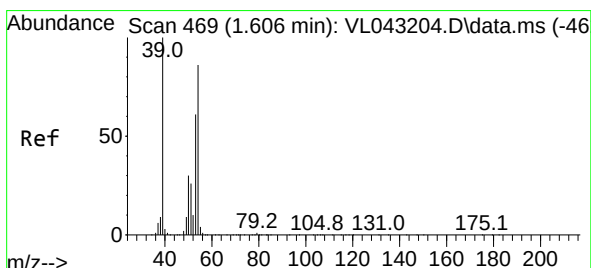
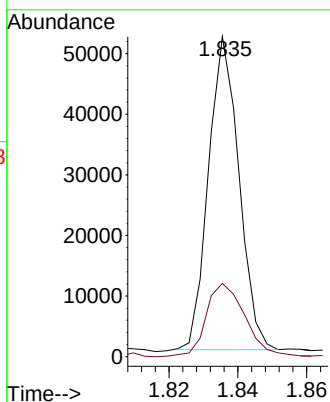
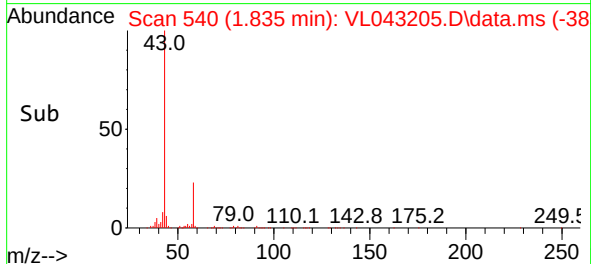
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 31785
Ion Ratio Lower Upper
43 100
58 30.6 20.7 31.1

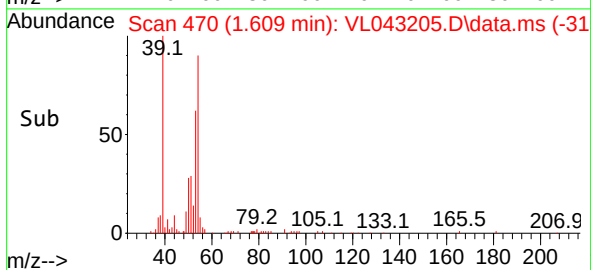
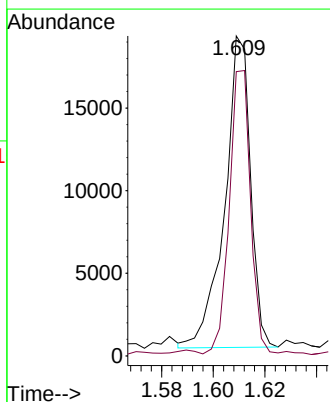
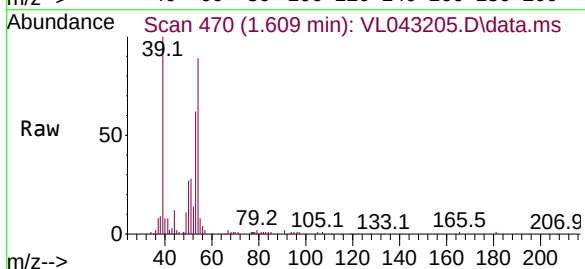
Manual Integrations
APPROVED

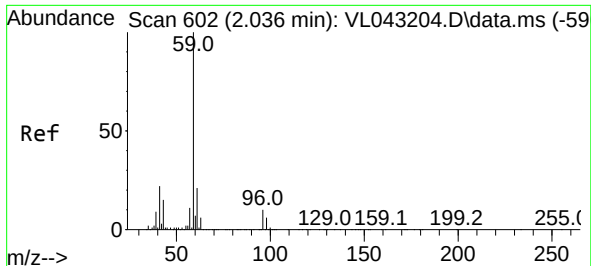
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

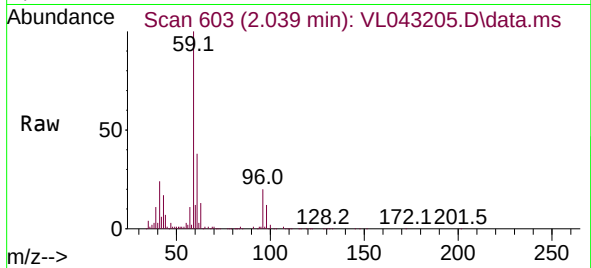
Tgt Ion: 39 Resp: 13101
Ion Ratio Lower Upper
39 100
54 83.3 59.4 89.2





#17
tert-Butyl alcohol
Concen: 2.062 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

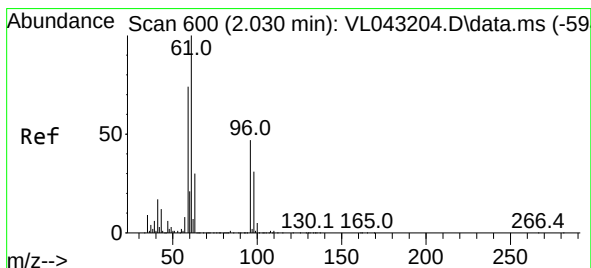
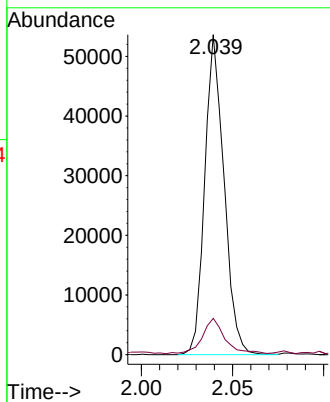
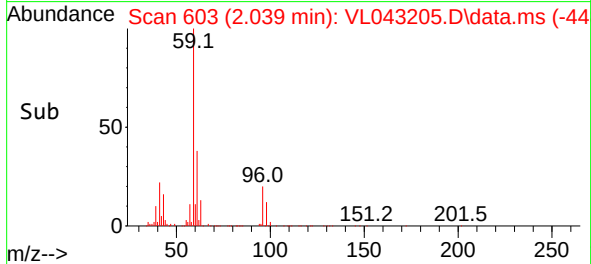
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



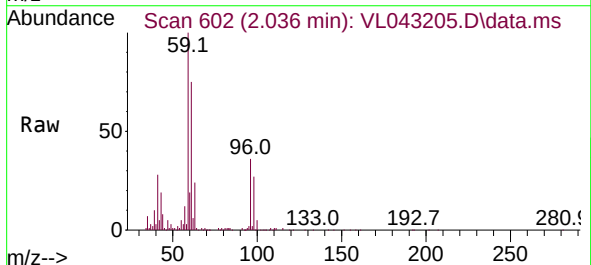
Tgt Ion: 59 Resp: 39348
Ion Ratio Lower Upper
59 100
57 13.3 9.0 13.4

Manual Integrations
APPROVED

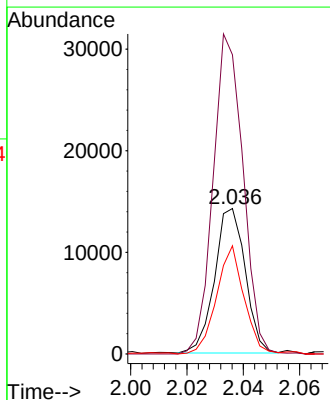
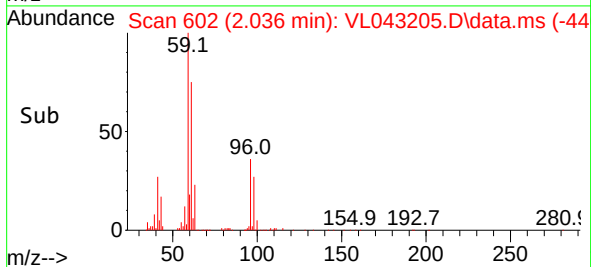
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

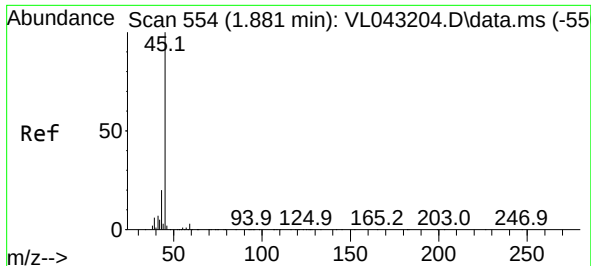


#18
1,1-Dichloroethene
Concen: 2.074 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37



Tgt Ion: 96 Resp: 10780
Ion Ratio Lower Upper
96 100
61 207.0 170.6 255.8
98 74.8 52.2 78.4





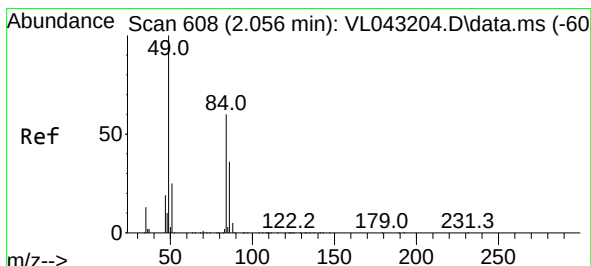
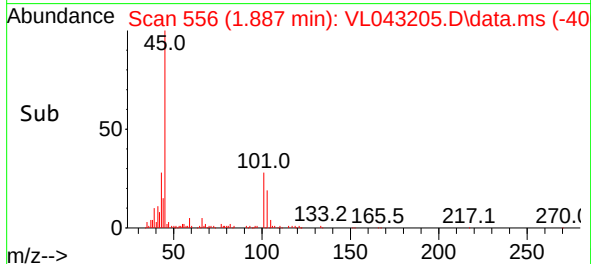
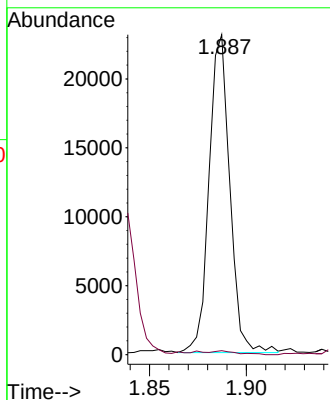
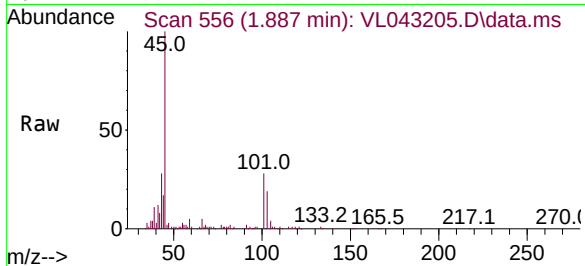
#19
Isopropyl Alcohol
Concen: 2.097 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 17229
Ion Ratio Lower Upper
45 100
58 56.6 31.3 46.9

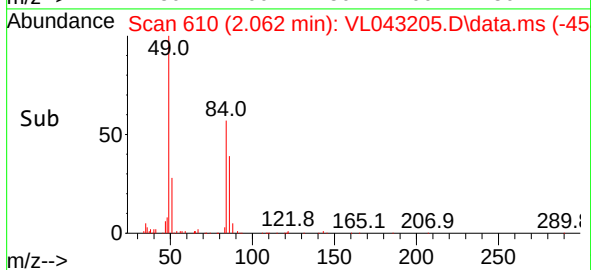
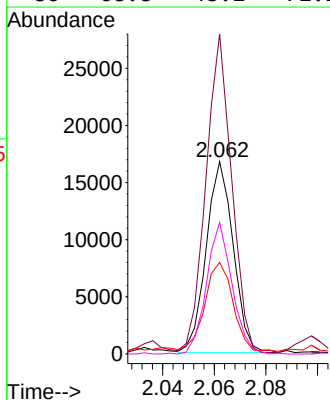
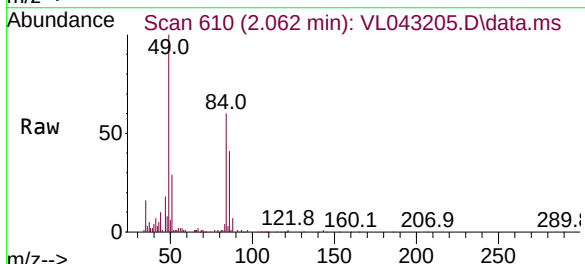
Manual Integrations
APPROVED

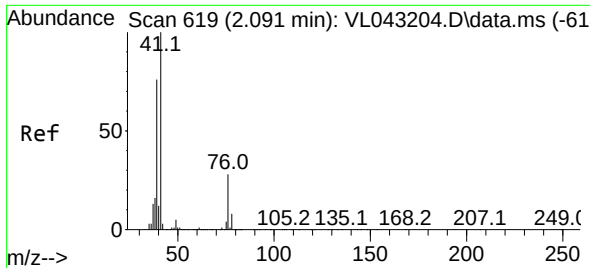
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 2.248 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

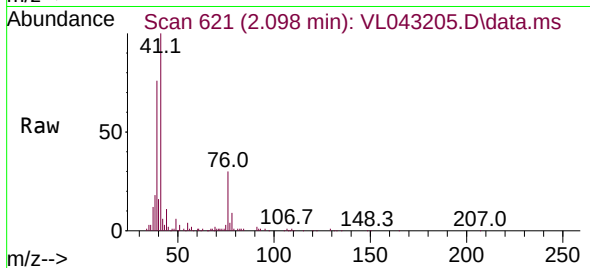
Tgt Ion: 84 Resp: 12238
Ion Ratio Lower Upper
84 100
49 166.8 132.9 199.3
51 46.5 34.8 52.2
86 68.8 48.2 72.2





#21
 Allyl Chloride
 Concen: 2.002 ppbv
 RT: 2.098 min Scan# 619
 Delta R.T. 0.006 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

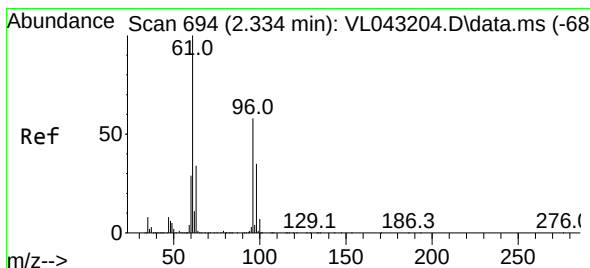
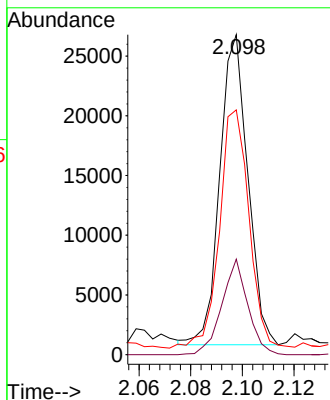
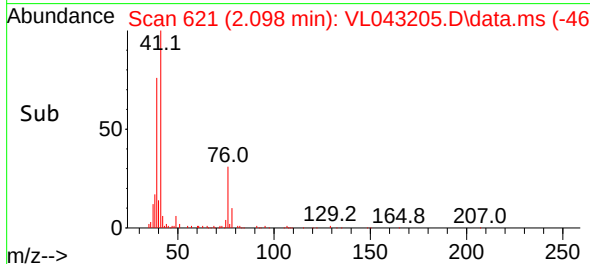
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



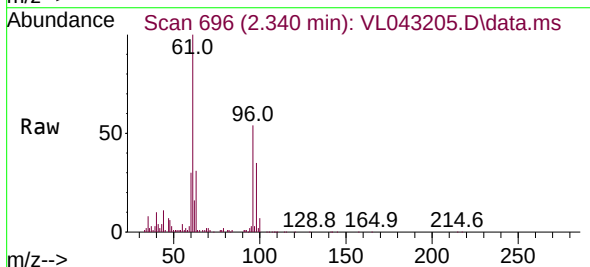
Tgt Ion: 41 Resp: 19580
 Ion Ratio Lower Upper
 41 100
 76 28.6 22.1 33.1
 39 81.8 61.0 91.4

Manual Integrations
 APPROVED

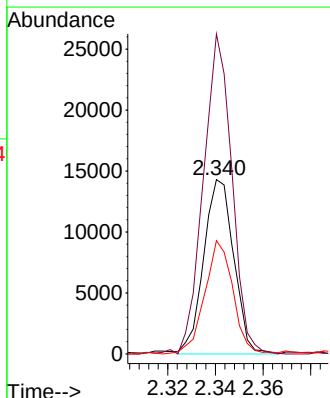
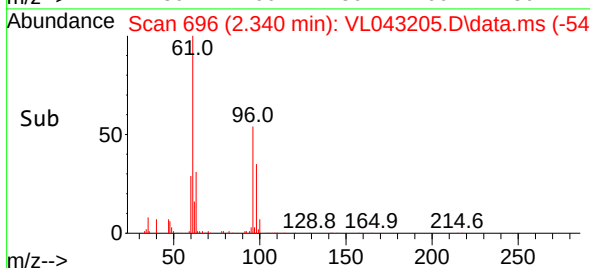
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

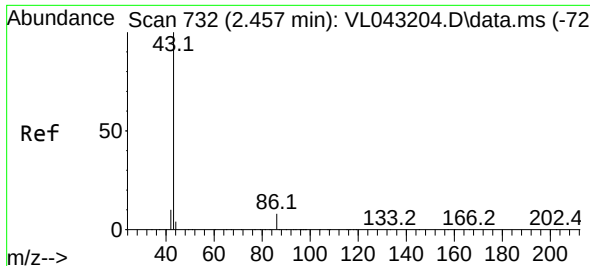


#22
 trans-1,2-Dichloroethene
 Concen: 2.110 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.006 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37



Tgt Ion: 96 Resp: 12537
 Ion Ratio Lower Upper
 96 100
 61 183.6 139.0 208.6
 98 64.3 49.4 74.2





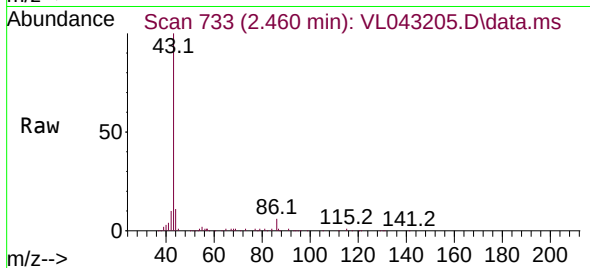
#23
 Vinyl Acetate
 Concen: 2.006 ppbv
 RT: 2.460 min Scan# 732
 Delta R.T. 0.003 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

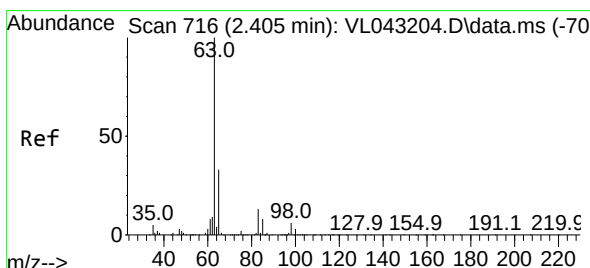
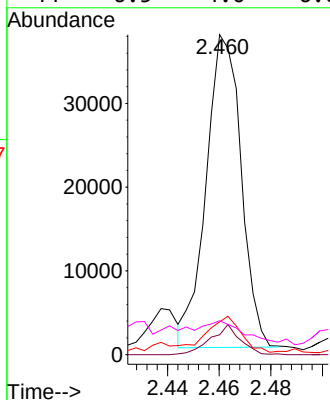
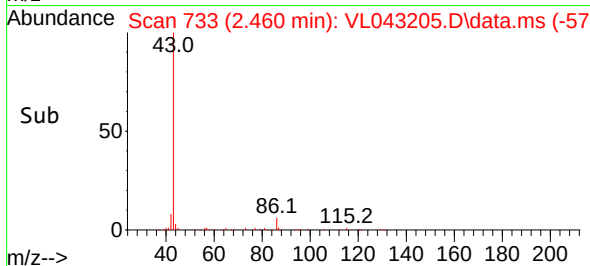


Tgt Ion: 43 Resp: 35205
 Ion Ratio Lower Upper
 43 100
 86 6.8 6.2 9.2
 42 9.5 8.0 12.0
 44 6.5 4.0 6.0#

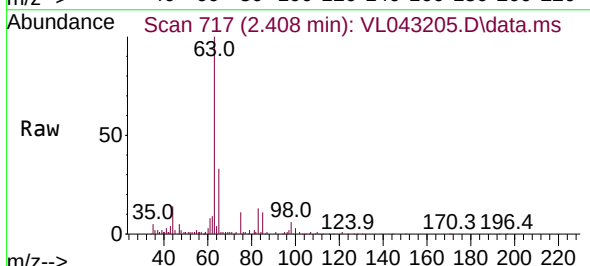
Manual Integrations

APPROVED

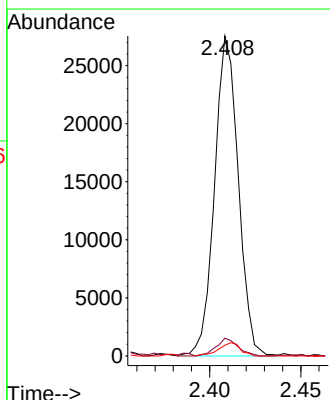
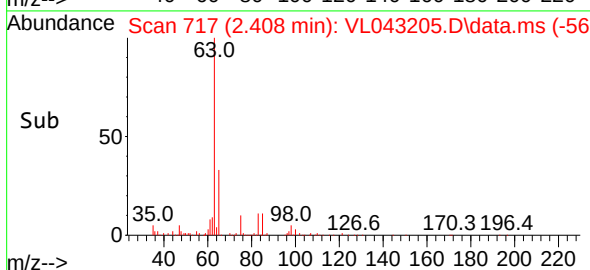
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

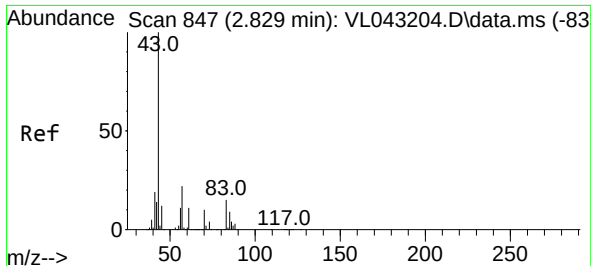


#24
 1,1-Dichloroethane
 Concen: 2.179 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37



Tgt Ion: 63 Resp: 24987
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.8 8.4
 100 3.3 1.3 3.9





#25

Ethyl Acetate

Concen: 2.048 ppbv

RT: 2.832 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 43 Resp: 6434

Ion Ratio Lower Upper

43 100

45 9.6 8.1 12.1

61 8.5 7.0 10.4

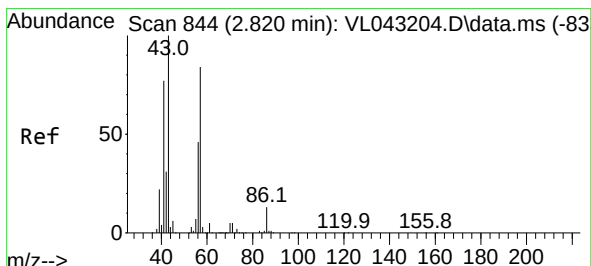
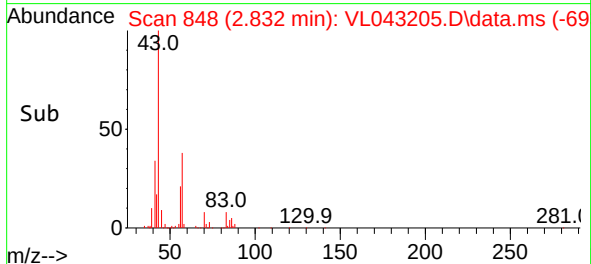
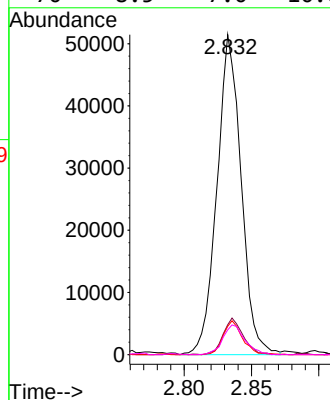
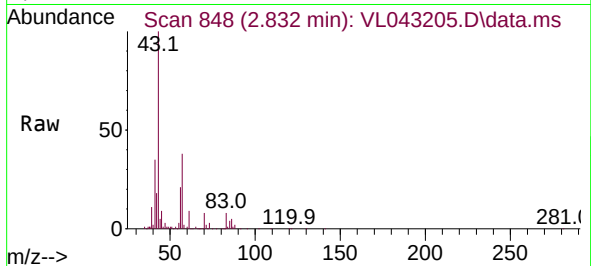
70 8.5 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#26

Hexane

Concen: 2.093 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.006 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Tgt Ion: 57 Resp: 28776

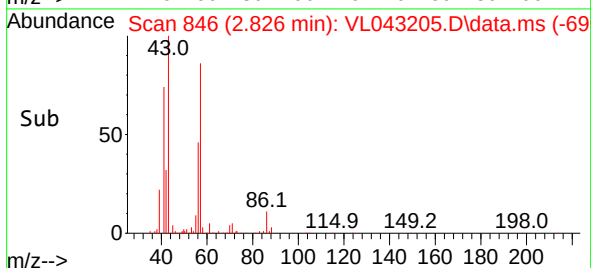
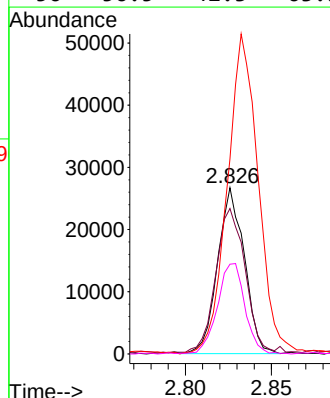
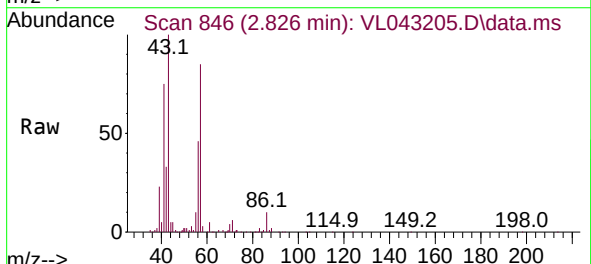
Ion Ratio Lower Upper

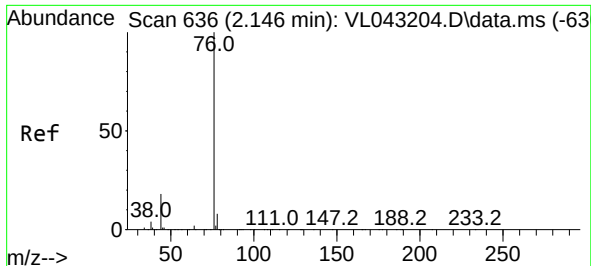
57 100

41 96.3 74.6 111.8

43 221.0 179.0 268.4

56 56.5 42.3 63.5





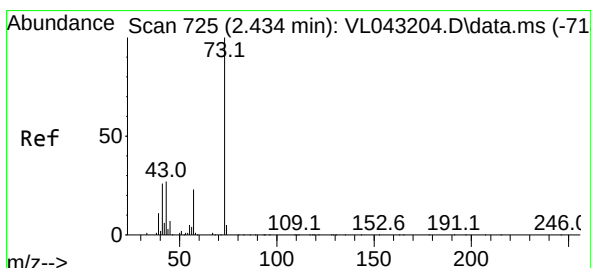
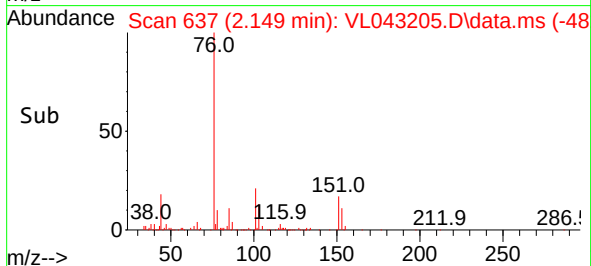
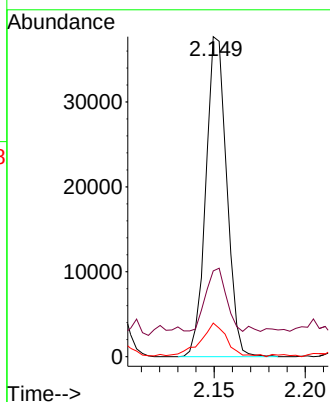
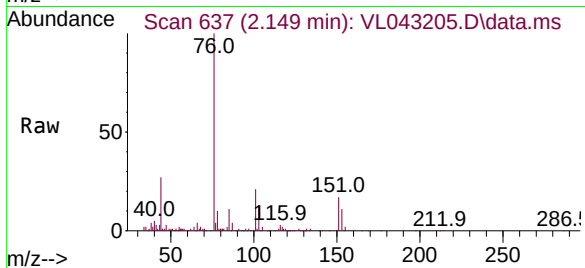
#27
Carbon Disulfide
Concen: 2.135 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 76 Resp: 29964
Ion Ratio Lower Upper
76 100
44 26.0 16.1 24.1
78 13.5 9.6 14.4

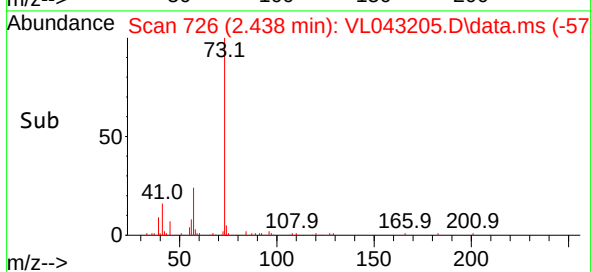
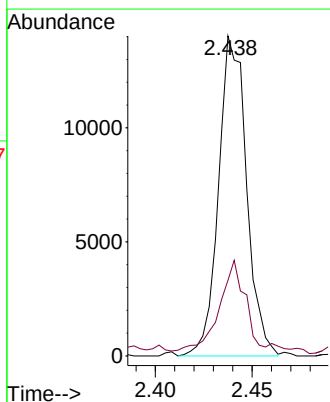
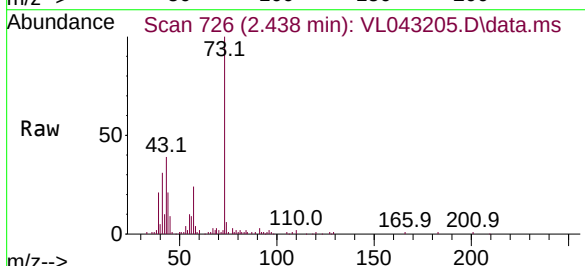
Manual Integrations
APPROVED

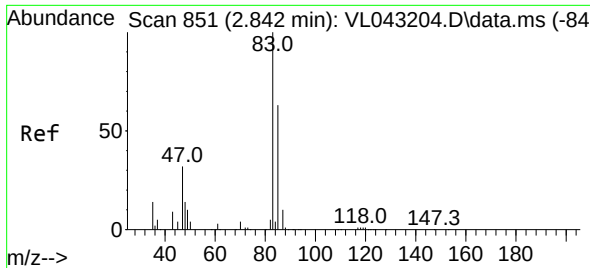
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#28
Methyl tert-Butyl Ether
Concen: 2.090 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

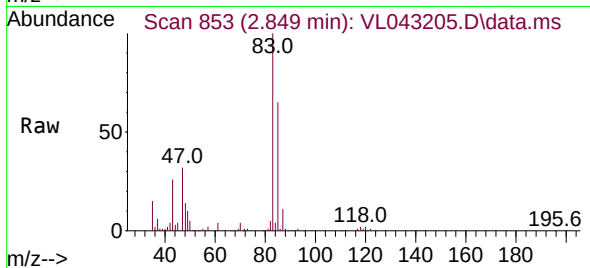
Tgt Ion: 73 Resp: 14101
Ion Ratio Lower Upper
73 100
57 32.5 19.8 29.8





#29
Chloroform
Concen: 2.065 ppbv
RT: 2.849 min Scan# 851
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

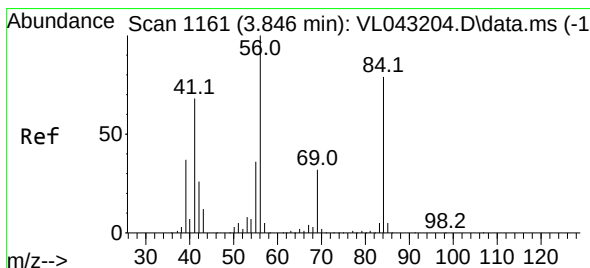
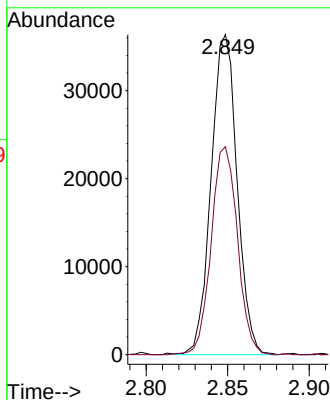
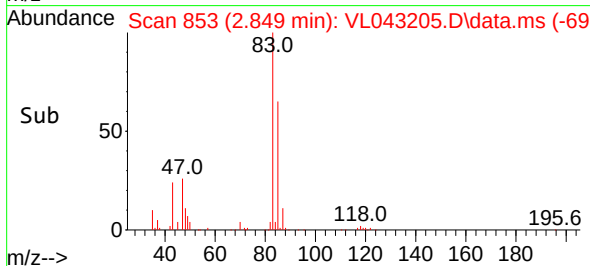
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



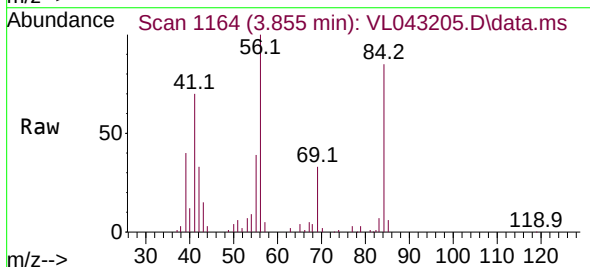
Tgt Ion: 83 Resp: 4035
Ion Ratio Lower Upper
83 100
85 65.0 50.5 75.7

Manual Integrations
APPROVED

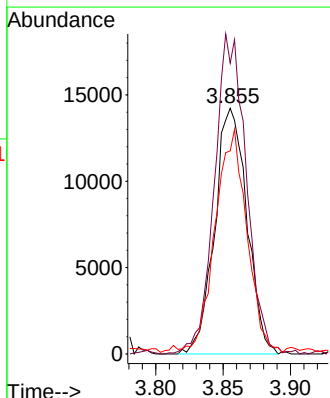
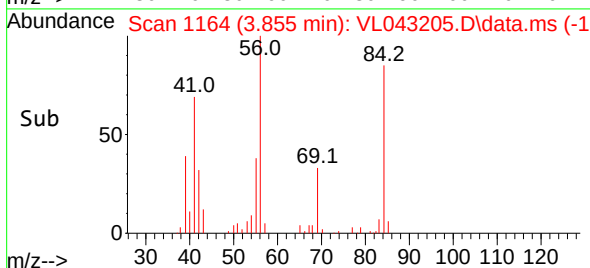
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

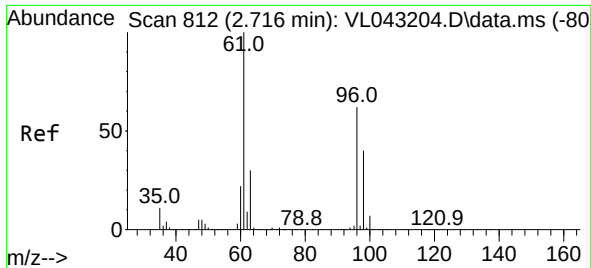


#30
Cyclohexane
Concen: 2.053 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37



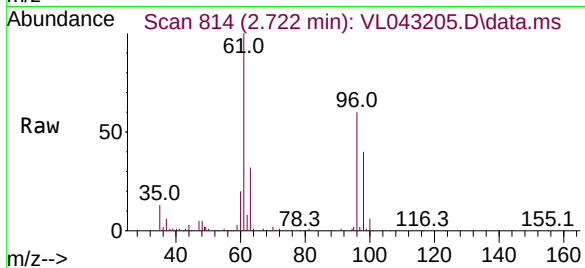
Tgt Ion: 84 Resp: 23659
Ion Ratio Lower Upper
84 100
56 129.3 104.7 157.1
41 89.8 69.0 103.6





#31
 cis-1,2-Dichloroethene
 Concen: 2.024 ppbv
 RT: 2.722 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

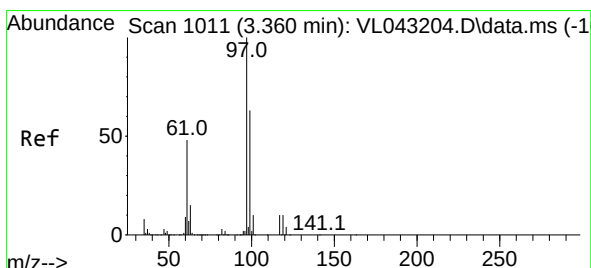
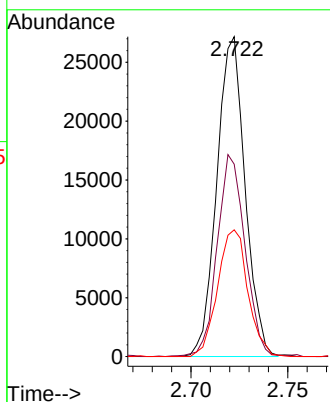
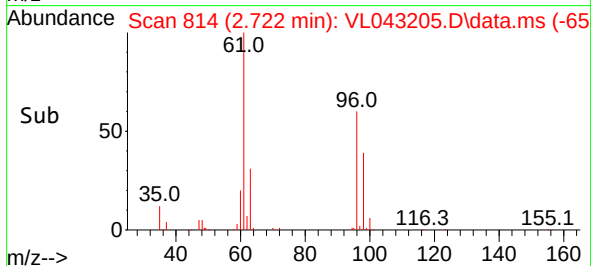
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



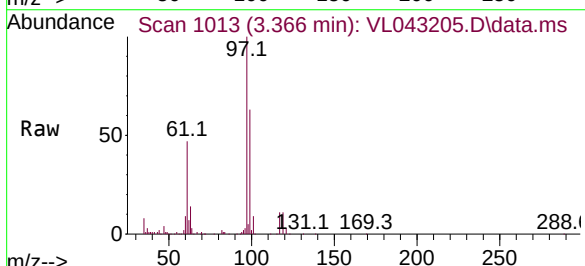
Tgt Ion: 61 Resp: 27663
 Ion Ratio Lower Upper
 61 100
 96 59.9 49.3 73.9
 98 39.6 32.1 48.1

Manual Integrations
 APPROVED

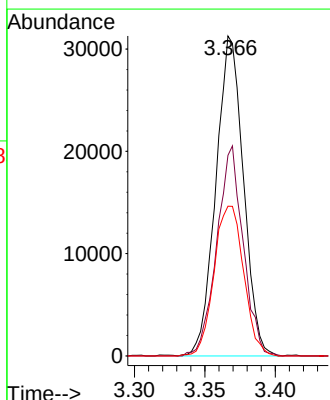
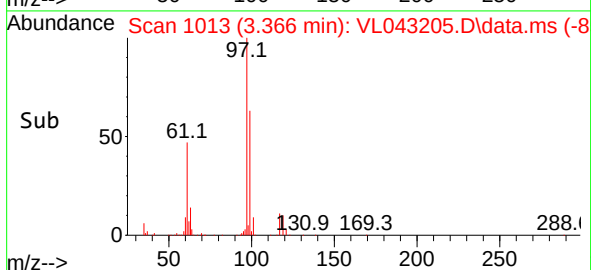
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

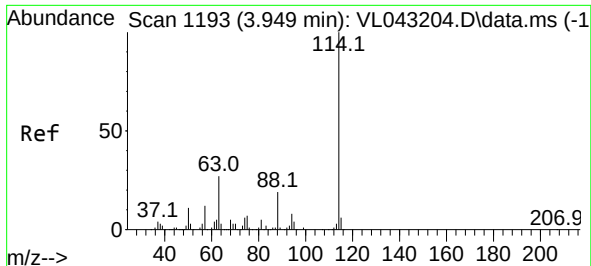


#32
 1,1,1-Trichloroethane
 Concen: 2.024 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.006 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37



Tgt Ion: 97 Resp: 42547
 Ion Ratio Lower Upper
 97 100
 99 62.8 50.3 75.5
 61 50.4 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

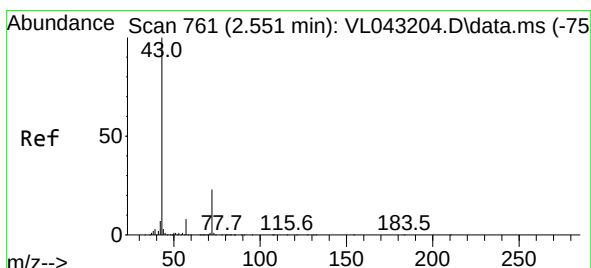
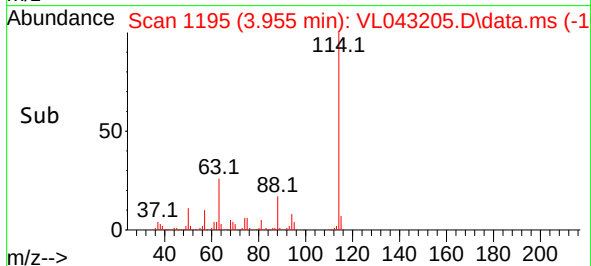
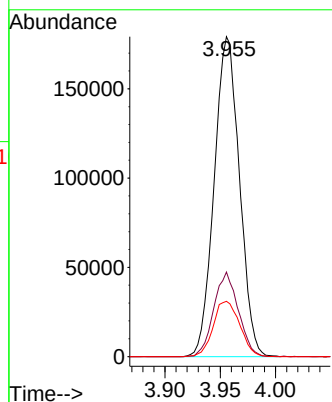
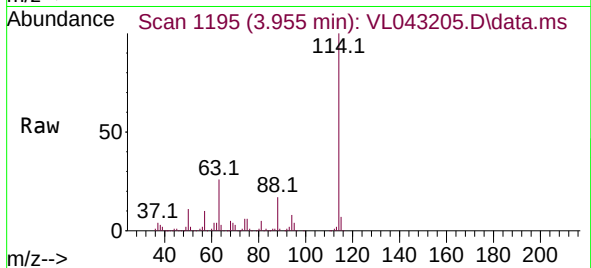
VSTDIC002

Tgt Ion:	114	Resp:	284629
Ion Ratio	Lower	Upper	
114	100		
63	25.7	21.0	31.6
88	18.2	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 2.085 ppbv

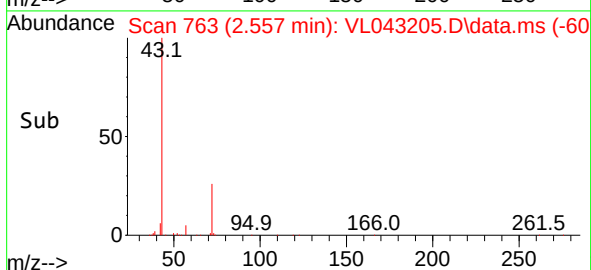
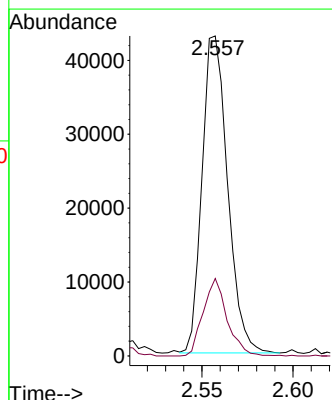
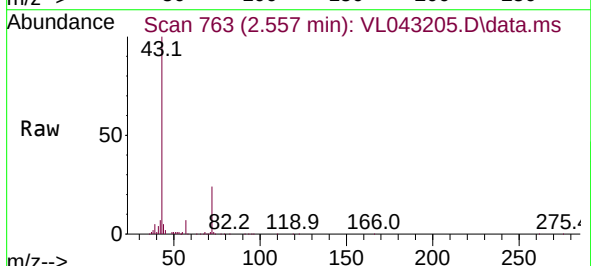
RT: 2.557 min Scan# 763

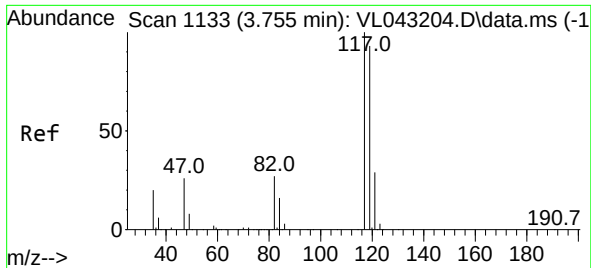
Delta R.T. 0.006 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

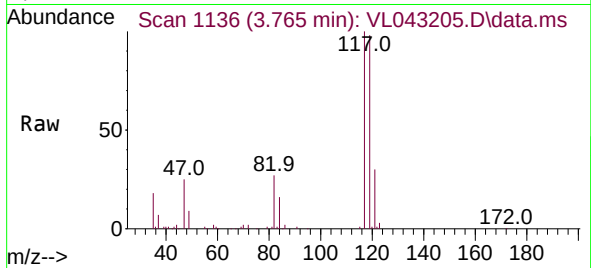
Tgt Ion:	43	Resp:	41884
Ion Ratio	Lower	Upper	
43	100		
72	22.9	18.1	27.1





#35
Carbon Tetrachloride
Concen: 1.942 ppbv
RT: 3.765 min Scan# 1133
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

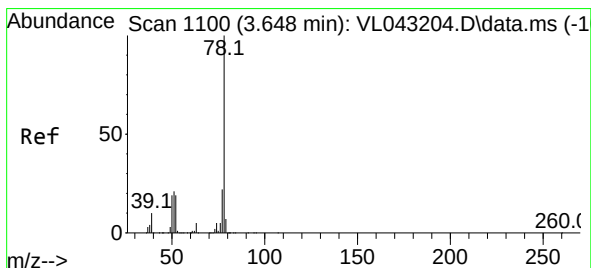
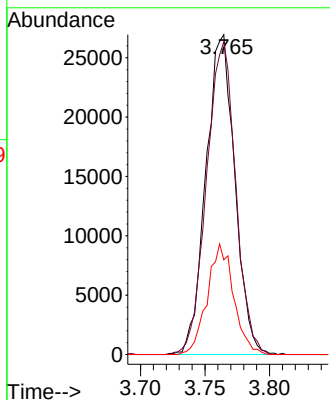
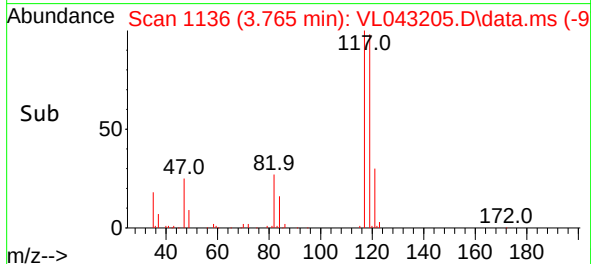
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



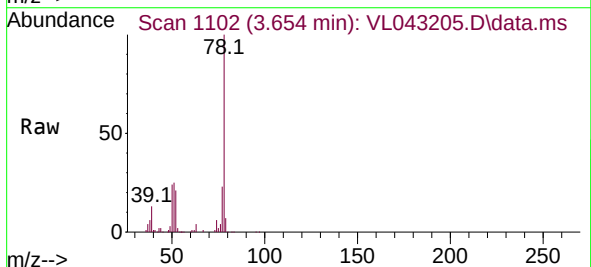
Tgt Ion: 117 Resp: 41949
Ion Ratio Lower Upper
117 100
119 97.8 74.6 112.0
121 29.6 23.2 34.8

Manual Integrations
APPROVED

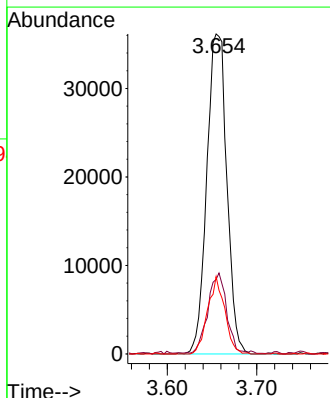
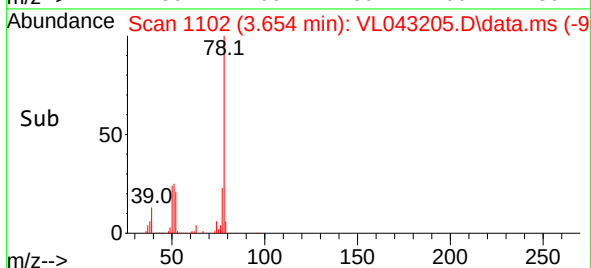
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

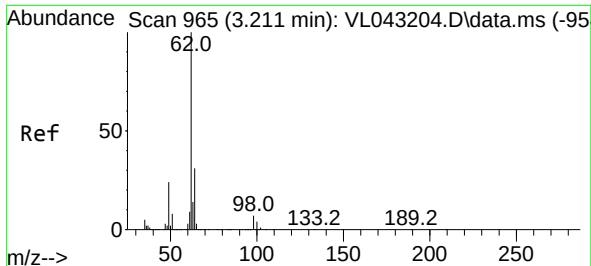


#36
Benzene
Concen: 2.060 ppbv m
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37



Tgt Ion: 78 Resp: 56141
Ion Ratio Lower Upper
78 100
77 23.3 17.5 26.3
50 24.1 15.5 23.3#





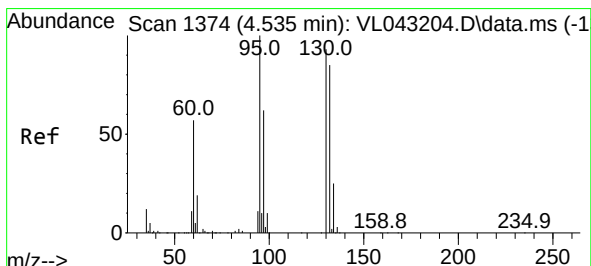
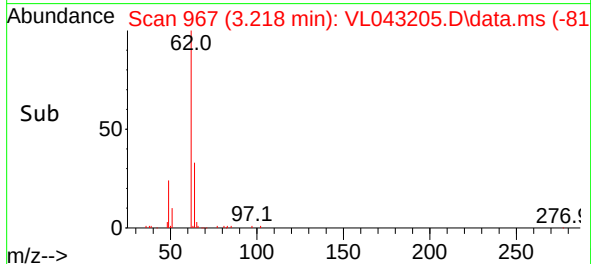
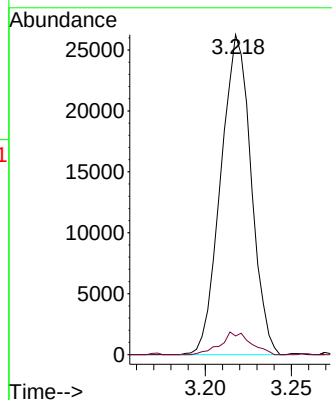
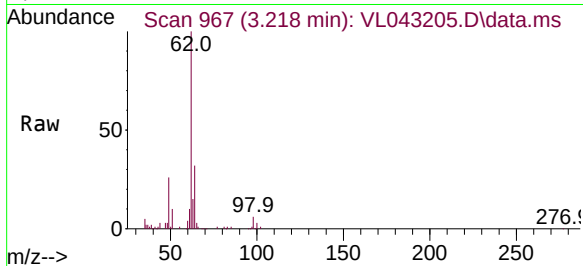
#37
1,2-Dichloroethane
Concen: 2.019 ppbv
RT: 3.218 min Scan# 965
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 62 Resp: 32188
Ion Ratio Lower Upper
62 100
98 7.0 5.5 8.3

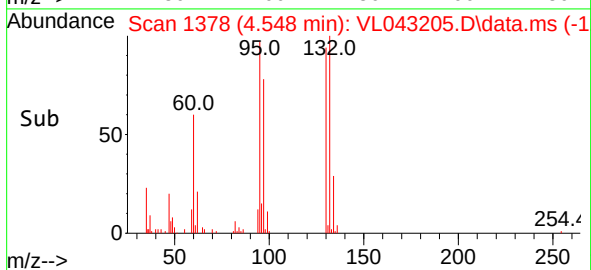
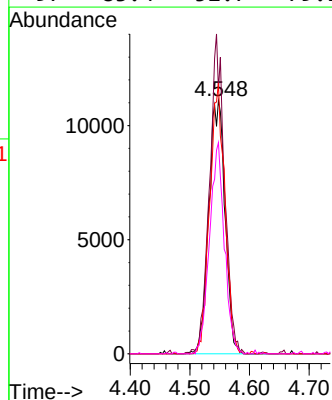
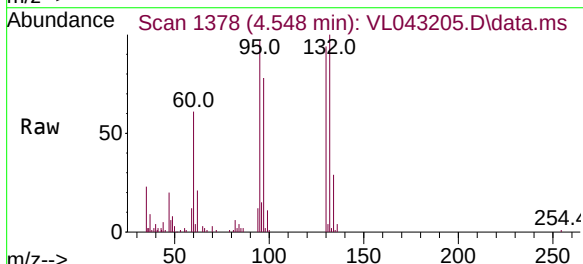
Manual Integrations
APPROVED

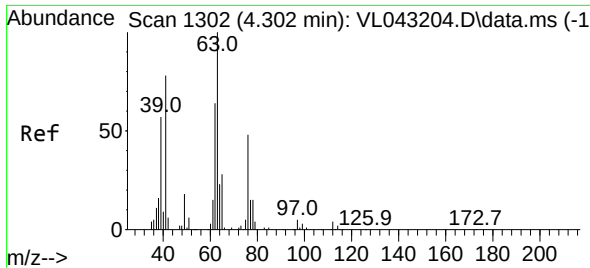
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 1.975 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:130 Resp: 21105
Ion Ratio Lower Upper
130 100
95 104.0 85.7 128.5
132 106.9 73.4 110.0
97 83.4 52.7 79.1#





#39

1,2-Dichloropropane

Concen: 1.996 ppbv

RT: 4.312 min Scan# 1302

Delta R.T. 0.010 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

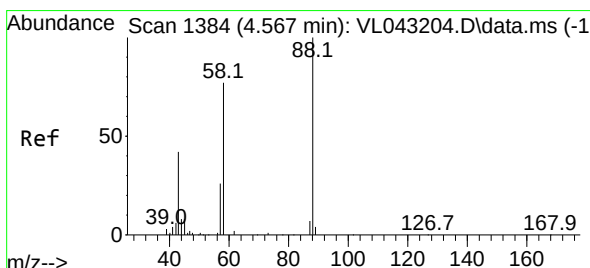
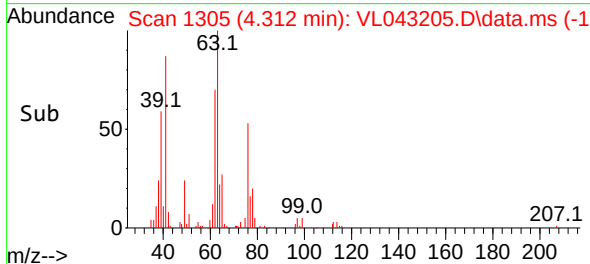
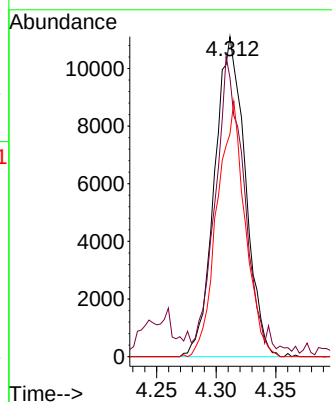
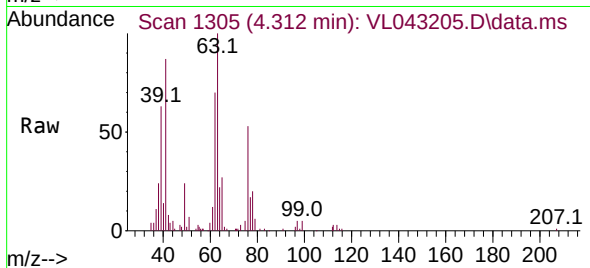
VSTDICC002

Tgt Ion:	63	Resp:	1991
Ion	Ratio	Lower	Upper
63	100		
41	83.9	62.6	93.8
62	69.5	51.0	76.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#40

1,4-Dioxane

Concen: 1.969 ppbv m

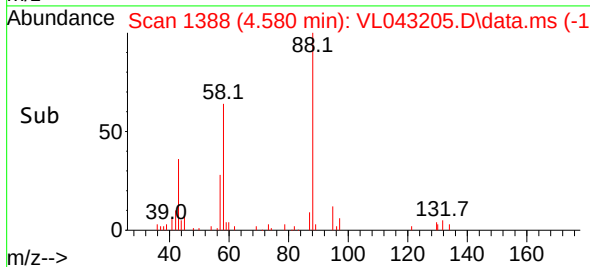
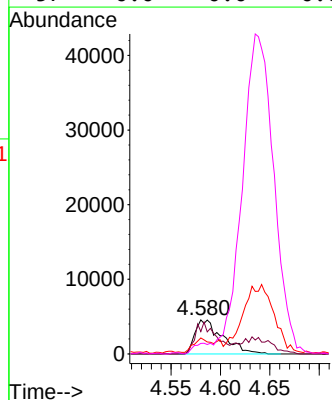
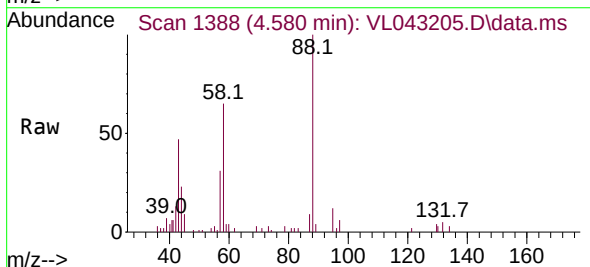
RT: 4.580 min Scan# 1388

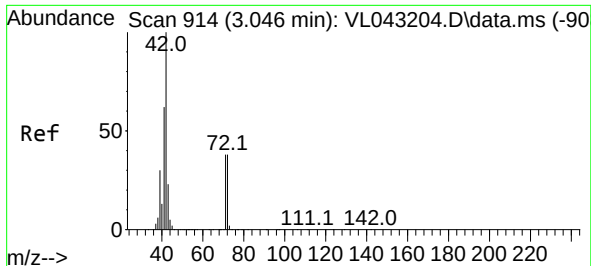
Delta R.T. 0.013 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

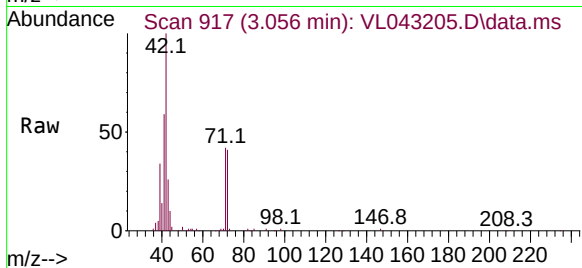
Tgt Ion:	88	Resp:	8829
Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	0.0	32.5	48.7#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 2.065 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

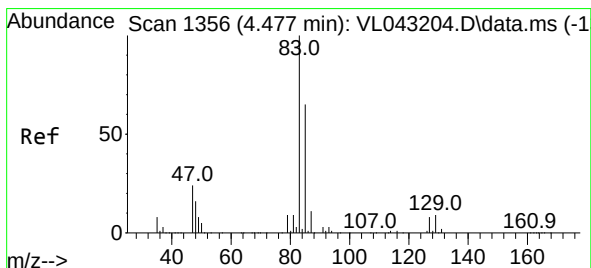
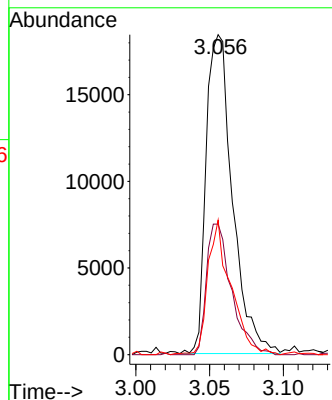
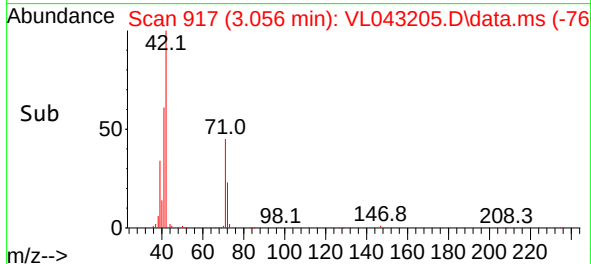
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 42 Resp: 22912
Ion Ratio Lower Upper
42 100
72 38.8 30.6 46.0
71 37.9 30.5 45.7

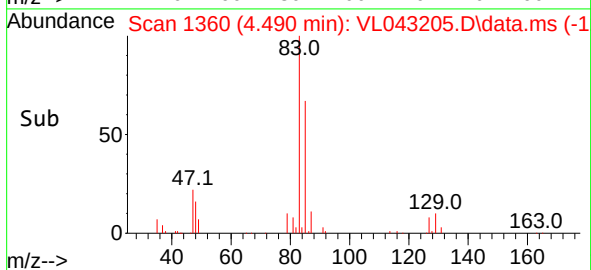
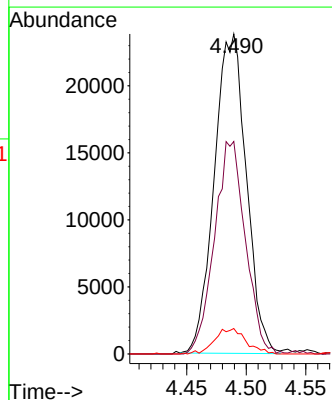
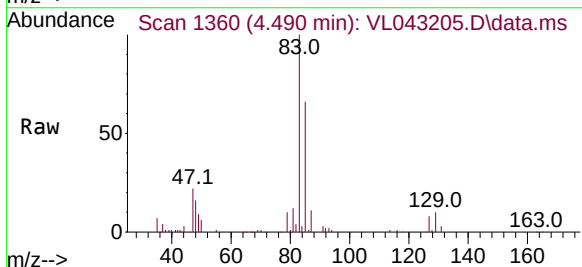
Manual Integrations
APPROVED

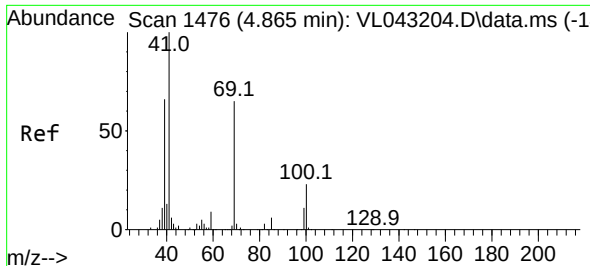
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#42
Bromodichloromethane
Concen: 2.027 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 83 Resp: 44584
Ion Ratio Lower Upper
83 100
85 66.6 51.7 77.5
127 7.9 6.3 9.5





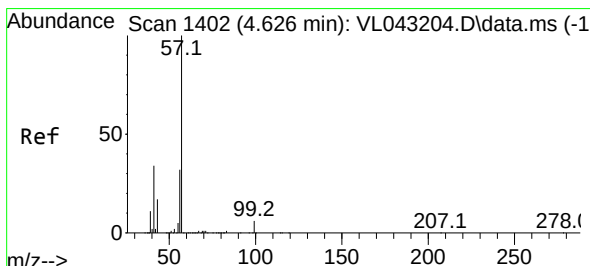
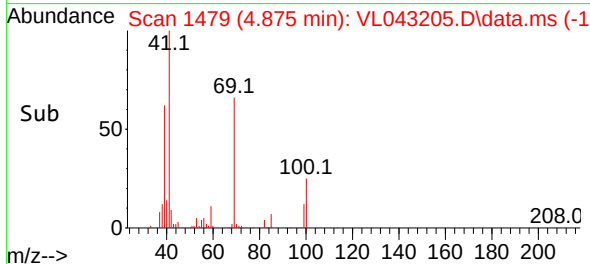
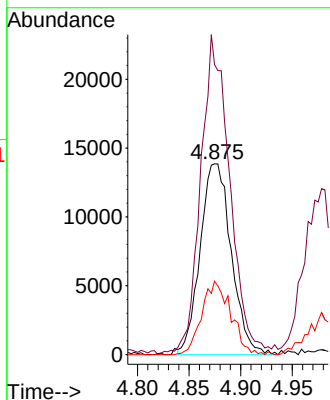
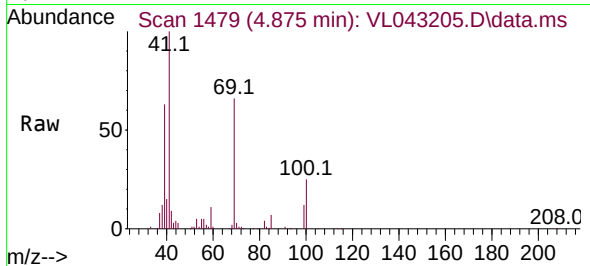
#43
Methyl Methacrylate
Concen: 2.009 ppbv
RT: 4.875 min Scan# 1476
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 69 Resp: 2907
Ion Ratio Lower Upper
69 100
41 157.2 126.7 190.1
100 36.0 28.6 43.0

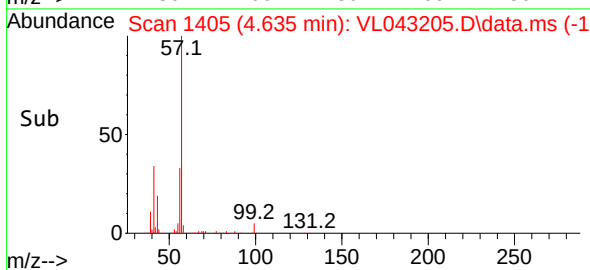
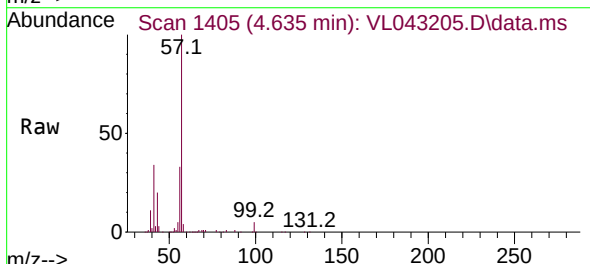
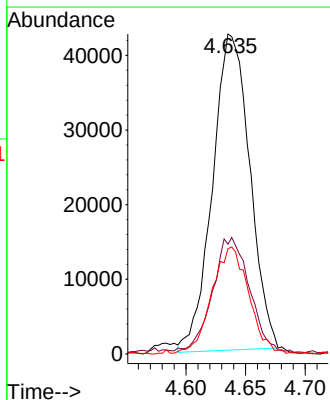
Manual Integrations
APPROVED

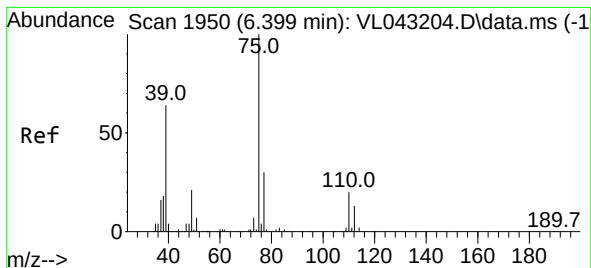
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#44
2,2,4-Trimethylpentane
Concen: 1.971 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 57 Resp: 92261
Ion Ratio Lower Upper
57 100
41 37.8 28.0 42.0
56 33.9 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 2.064 ppbv m

RT: 6.406 min Scan# 1950

Delta R.T. 0.006 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 75 Resp: 27833

Ion Ratio Lower Upper

75 100

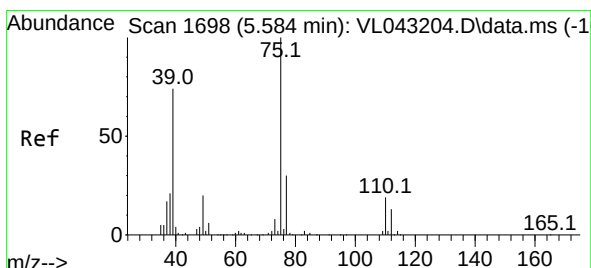
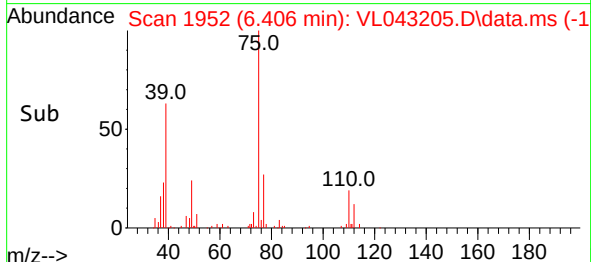
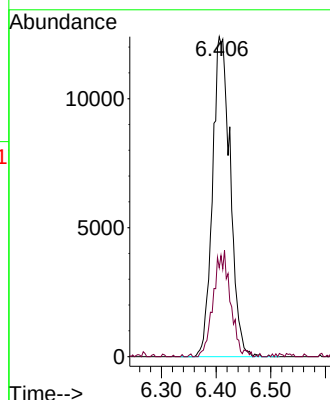
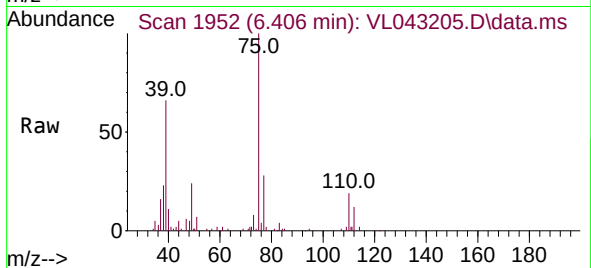
77 27.8 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#46

cis-1,3-Dichloropropene

Concen: 2.020 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.010 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

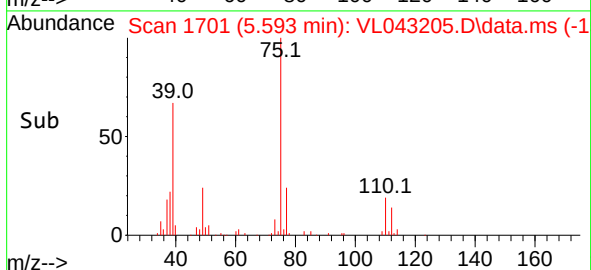
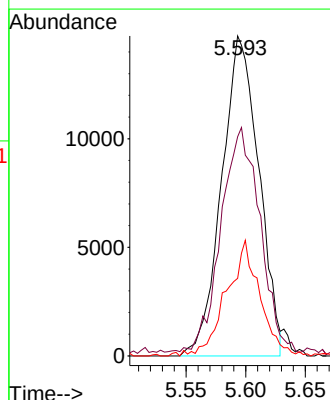
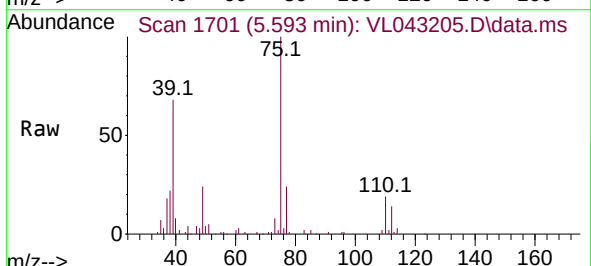
Tgt Ion: 75 Resp: 31986

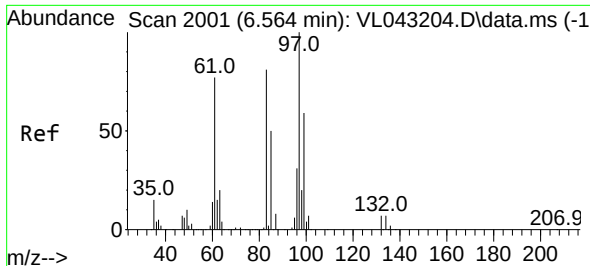
Ion Ratio Lower Upper

75 100

39 67.2 59.1 88.7

77 24.2 24.2 36.2





#47

1,1,2-Trichloroethane

Concen: 2.025 ppbv m

RT: 6.577 min Scan# 2001

Delta R.T. 0.013 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

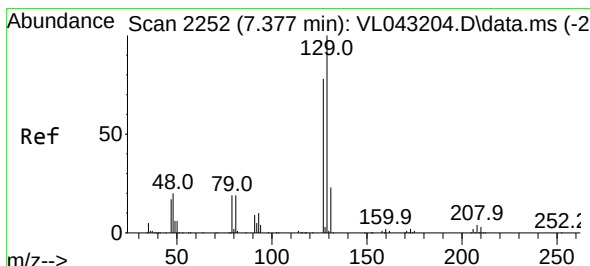
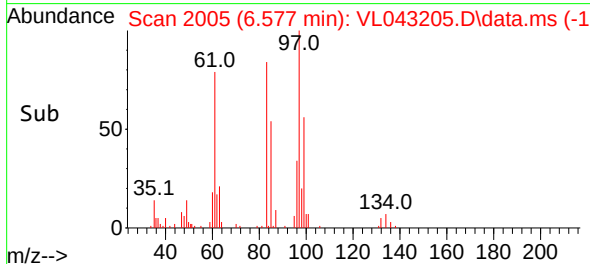
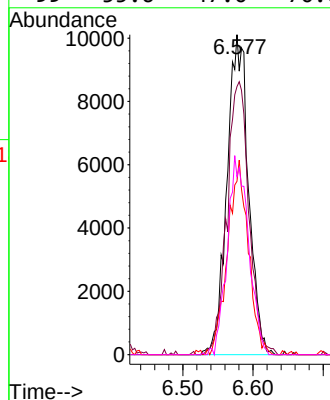
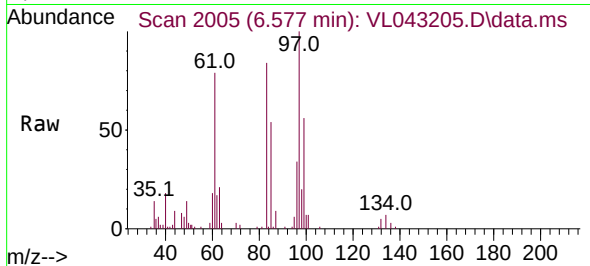
VSTDIC002

Tgt Ion:	97	Resp:	2154
Ion	Ratio	Lower	Upper
97	100		
83	83.8	64.6	97.0
85	54.2	39.4	59.2
99	55.6	47.0	70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#48

Dibromochloromethane

Concen: 2.074 ppbv m

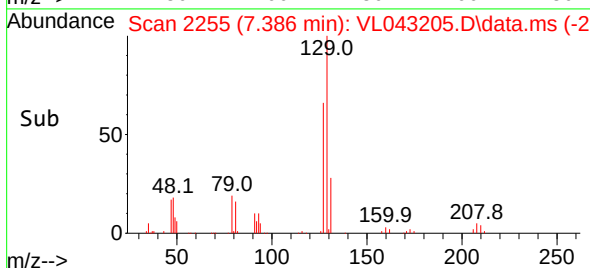
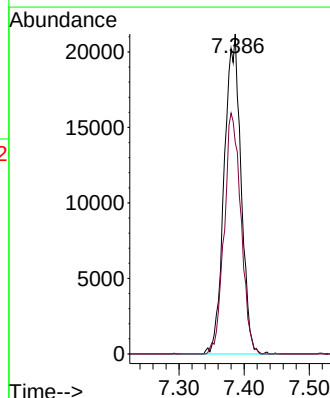
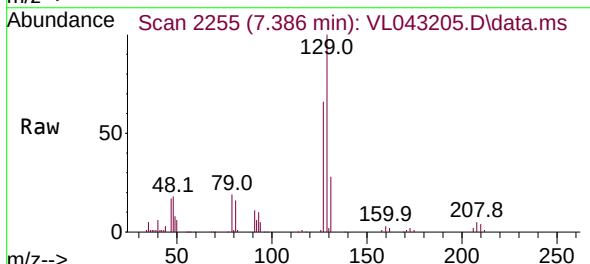
RT: 7.386 min Scan# 2255

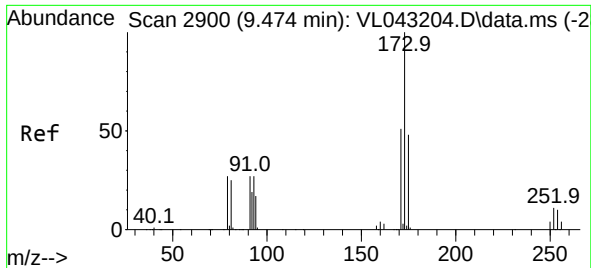
Delta R.T. 0.010 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Tgt Ion:	129	Resp:	37758
Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.3	117.9





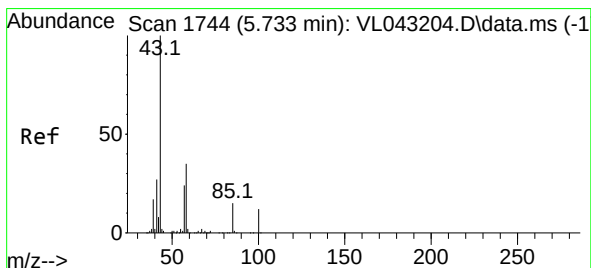
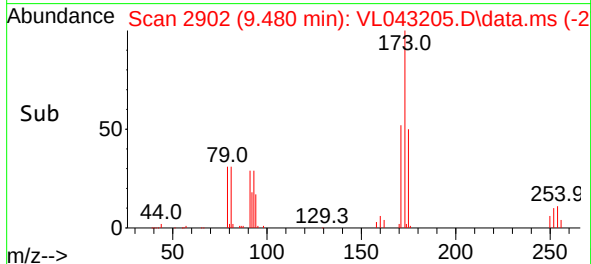
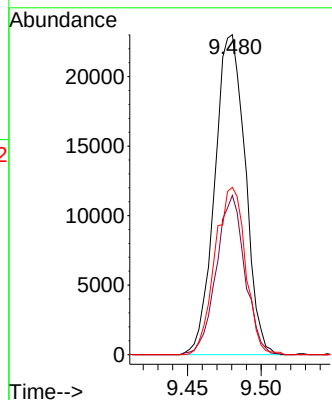
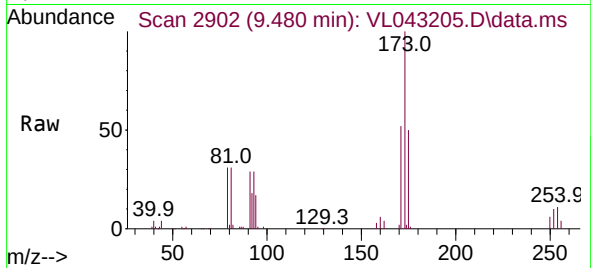
#49
Bromoform
Concen: 2.050 ppbv
RT: 9.480 min Scan# 2900
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:173 Resp: 3305
Ion Ratio Lower Upper
173 100
175 46.6 38.6 58.0
171 52.4 40.6 61.0

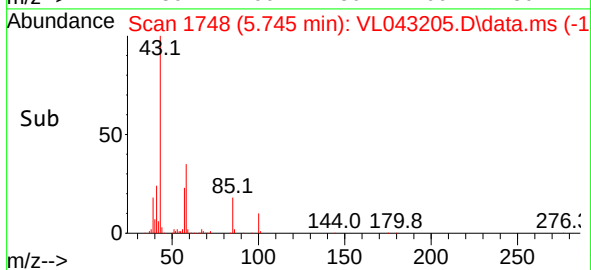
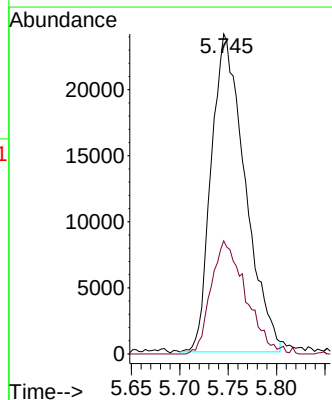
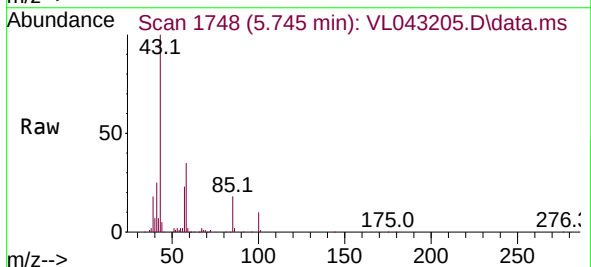
Manual Integrations
APPROVED

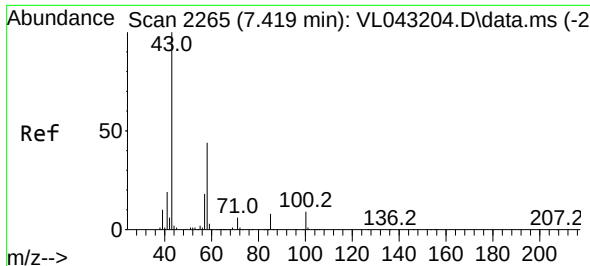
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

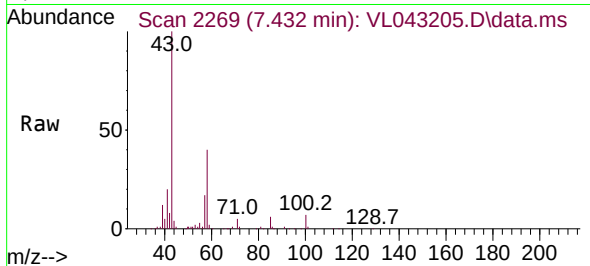
Tgt Ion: 43 Resp: 58461
Ion Ratio Lower Upper
43 100
58 36.7 28.4 42.6





#51
2-Hexanone
Concen: 2.113 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

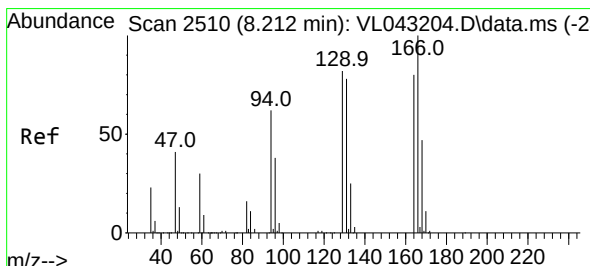
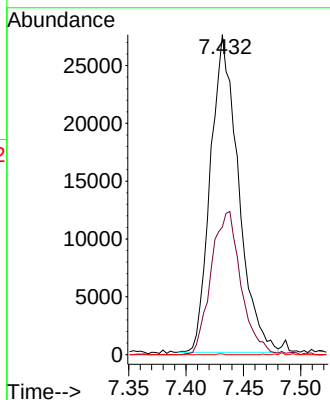
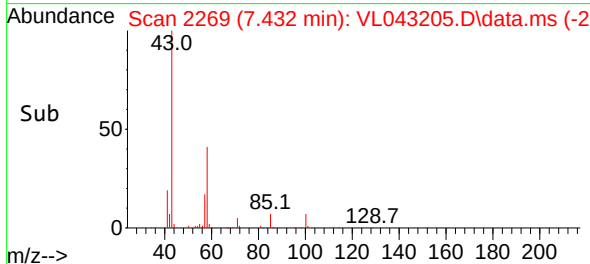
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 4644
Ion Ratio Lower Upper
43 100
58 48.4 38.4 57.6
98 0.2 0.0 0.0

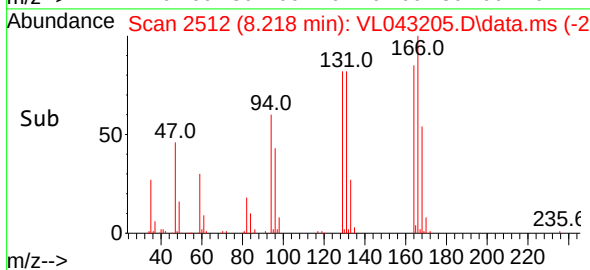
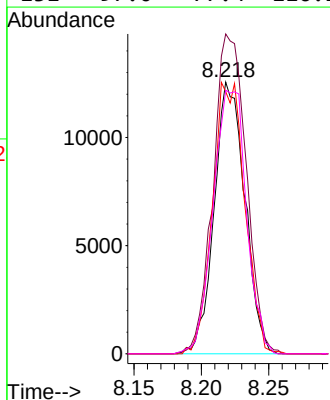
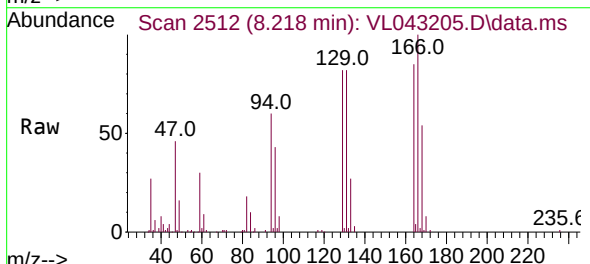
Manual Integrations
APPROVED

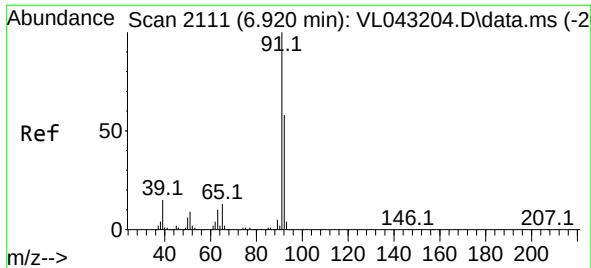
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 1.958 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:164 Resp: 19856
Ion Ratio Lower Upper
164 100
166 117.2 99.4 149.2
129 96.5 81.8 122.8
131 97.0 77.4 116.2





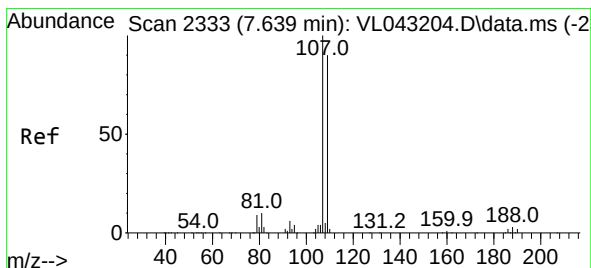
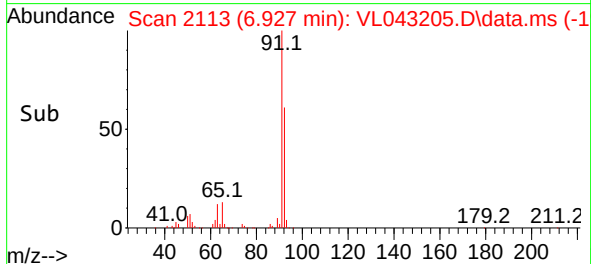
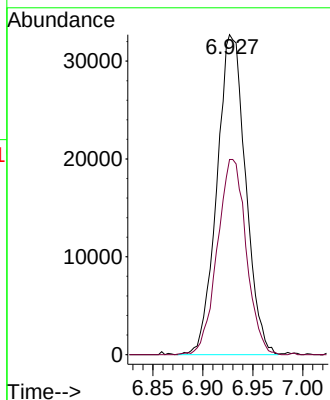
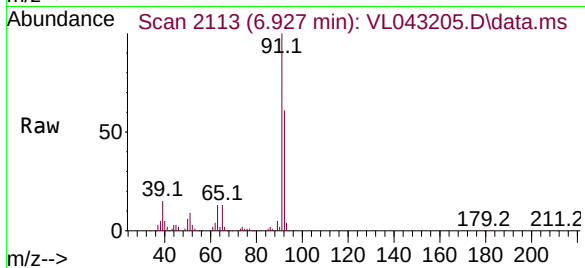
#53
Toluene
Concen: 2.008 ppbv
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 65238
Ion Ratio Lower Upper
91 100
92 61.5 47.4 71.0

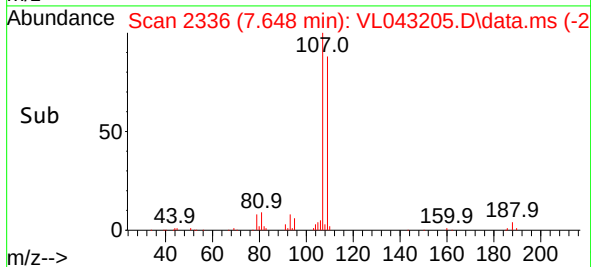
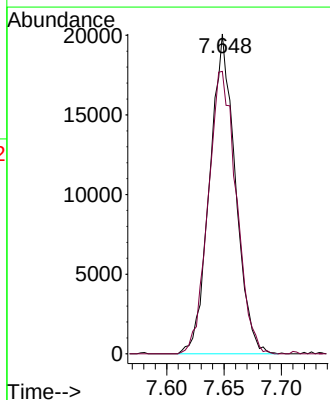
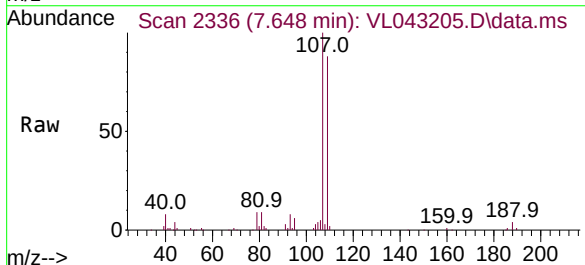
Manual Integrations
APPROVED

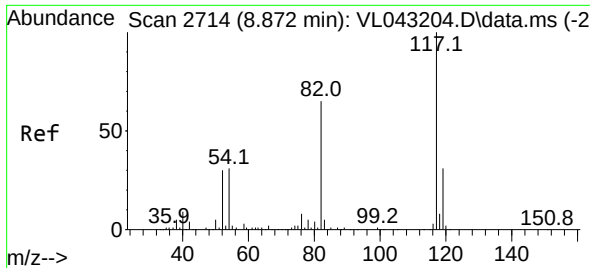
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#54
1,2-Dibromoethane
Concen: 2.007 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

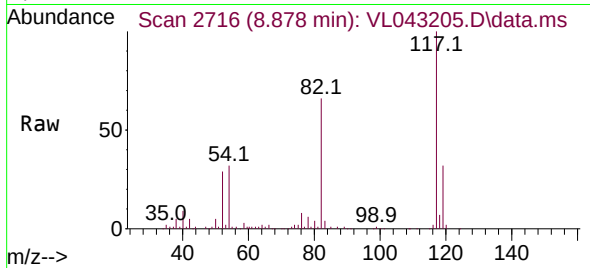
Tgt Ion:107 Resp: 31266
Ion Ratio Lower Upper
107 100
109 88.3 72.1 108.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2714
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

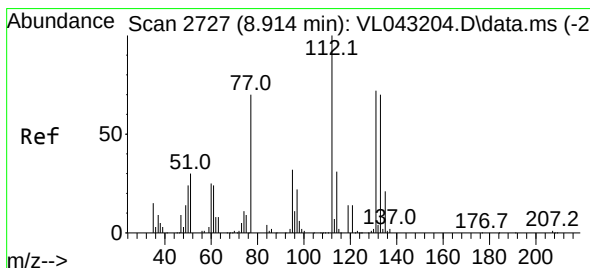
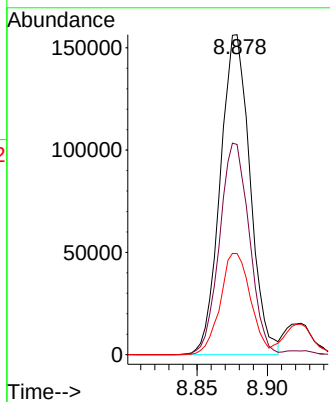
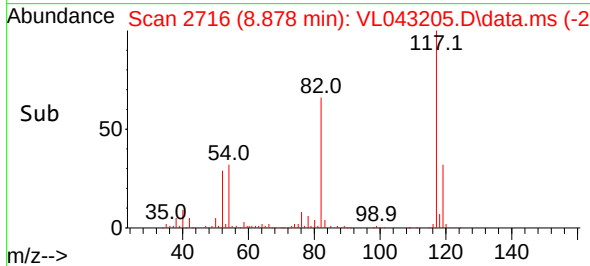
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:117 Resp: 230646
Ion Ratio Lower Upper
117 100
82 67.2 56.1 84.1
119 32.0 25.0 37.6

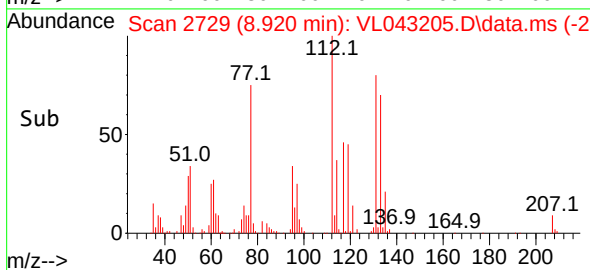
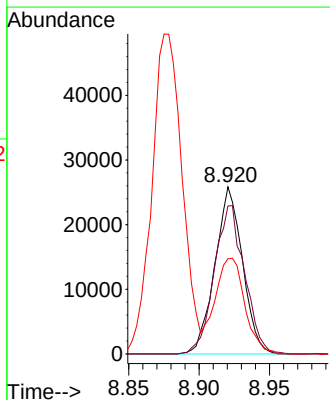
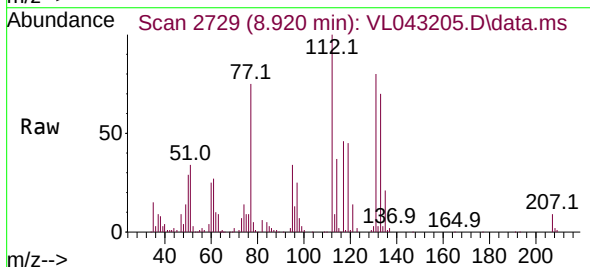
Manual Integrations
APPROVED

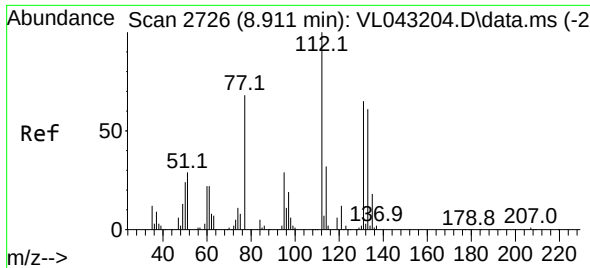
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 2.071 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

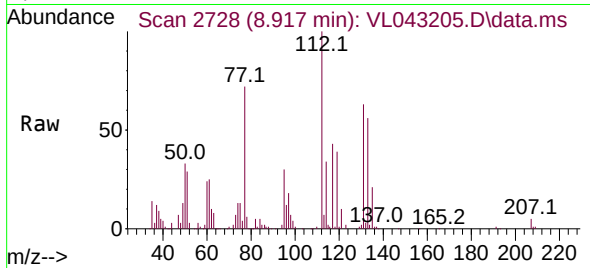
Tgt Ion:131 Resp: 35099
Ion Ratio Lower Upper
131 100
133 97.4 77.4 116.2
119 60.1 49.1 73.7





#57
Chlorobenzene
Concen: 2.121 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

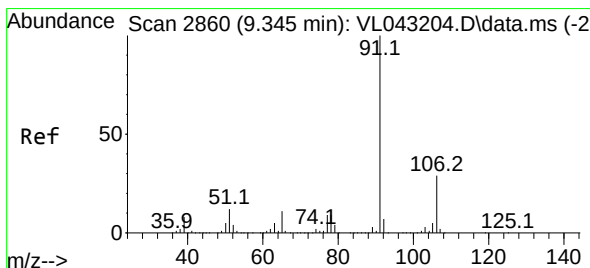
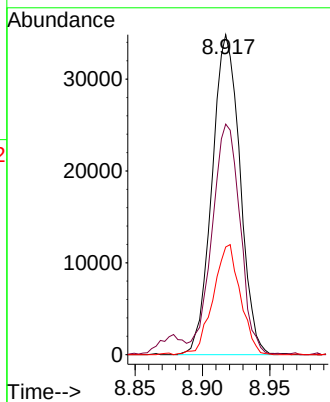
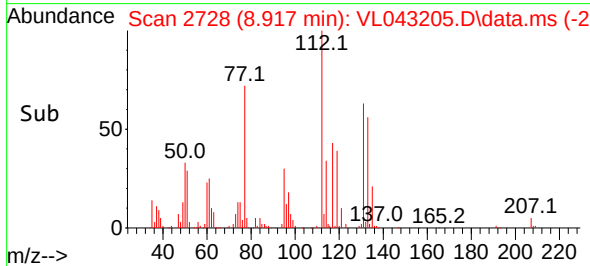
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 112 Resp: 50228
Ion Ratio Lower Upper
112 100
77 71.6 55.5 83.3
114 33.6 29.1 35.5

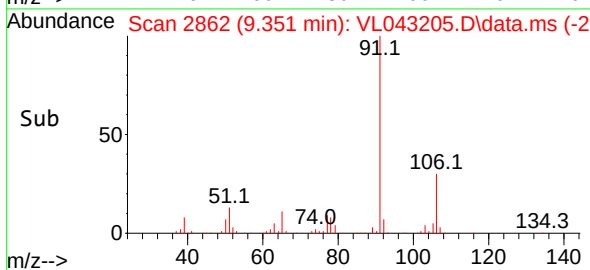
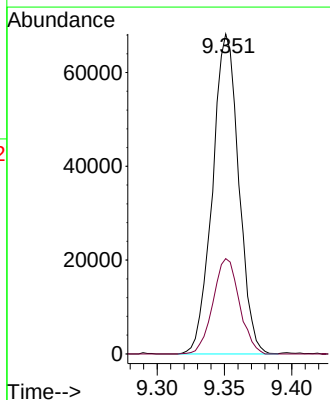
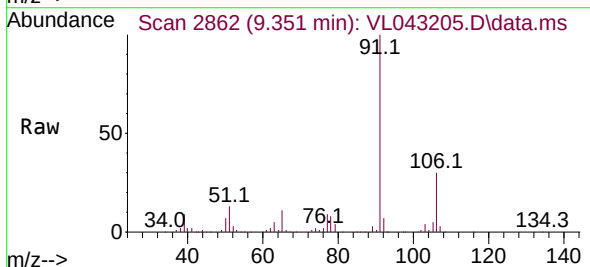
Manual Integrations
APPROVED

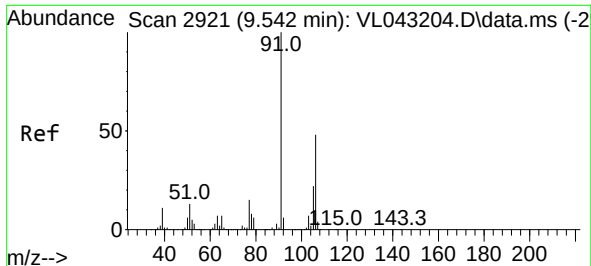
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 2.087 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 92649
Ion Ratio Lower Upper
91 100
106 29.8 22.8 34.2





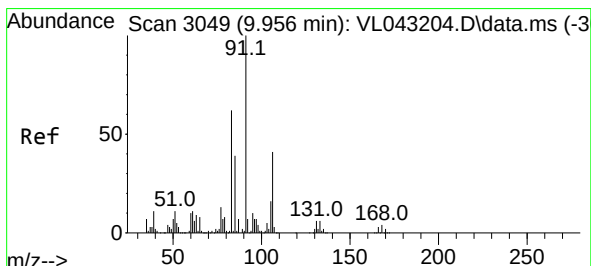
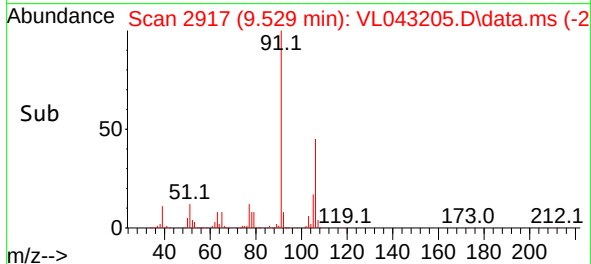
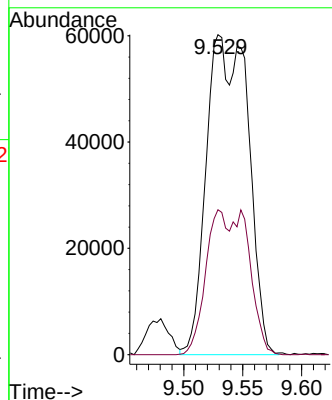
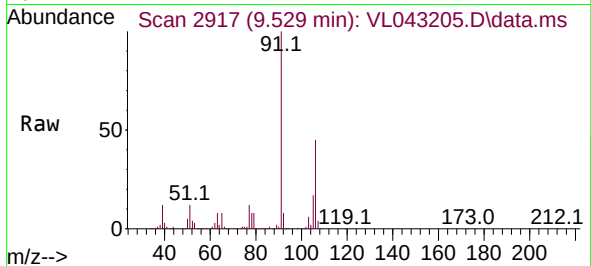
#59
m/p-Xylene
Concen: 4.151 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 148300
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1

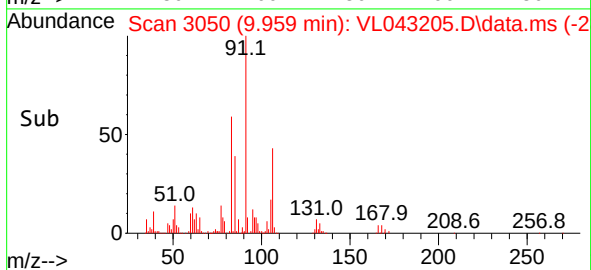
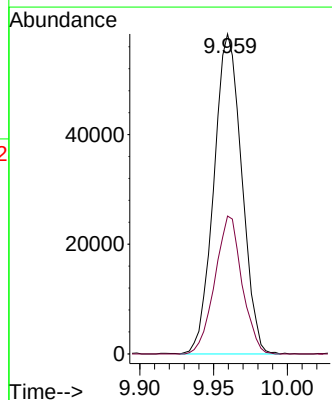
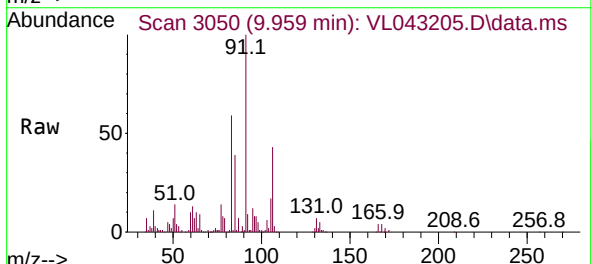
Manual Integrations
APPROVED

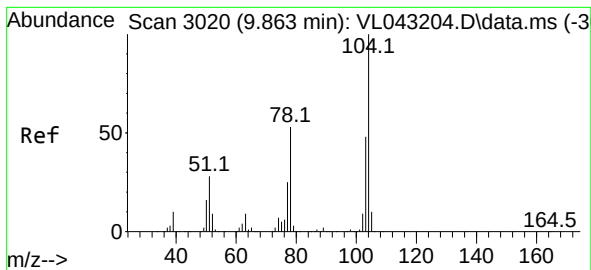
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 2.153 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 76540
Ion Ratio Lower Upper
91 100
106 41.9 20.9 62.8





#61

Styrene

Concen: 2.133 ppbv

RT: 9.866 min Scan# 3020

Delta R.T. 0.003 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

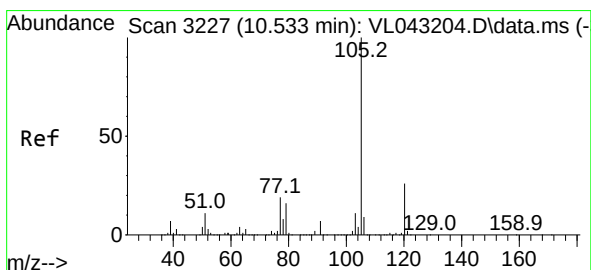
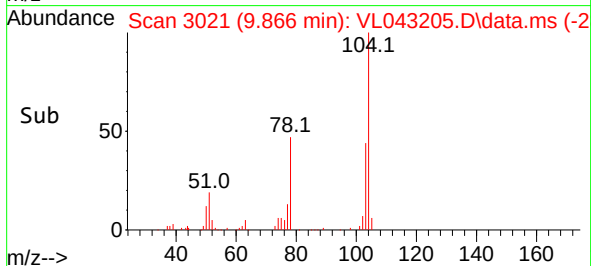
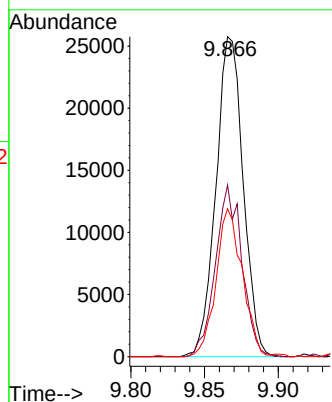
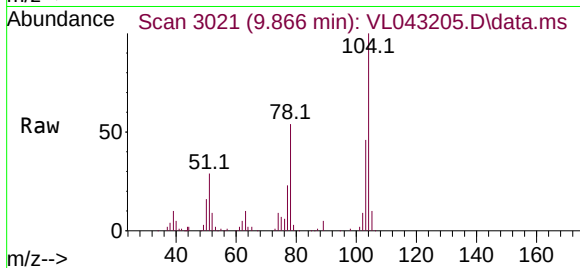
VSTDIC002

Tgt Ion:104	Resp:	33188
Ion Ratio	Lower	Upper
104	100	
78	52.1	42.1 63.1
103	44.9	37.2 55.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#62

Isopropylbenzene

Concen: 2.136 ppbv

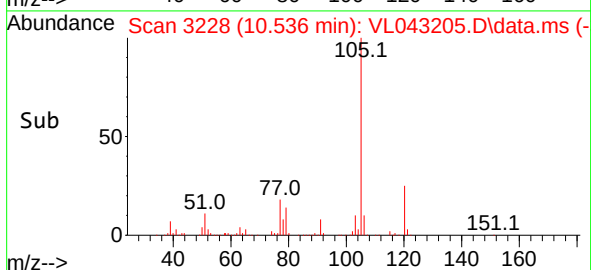
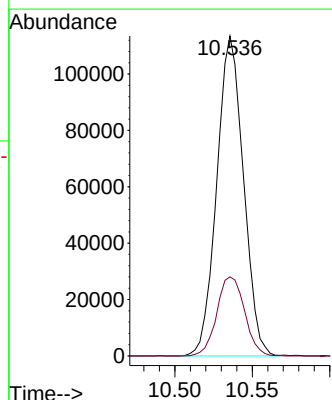
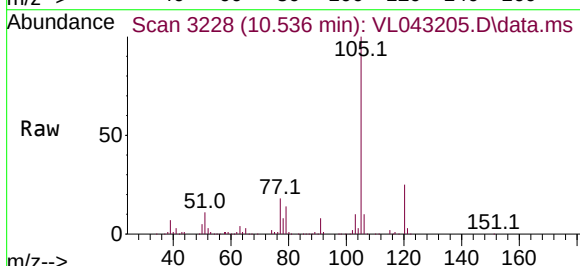
RT: 10.536 min Scan# 3228

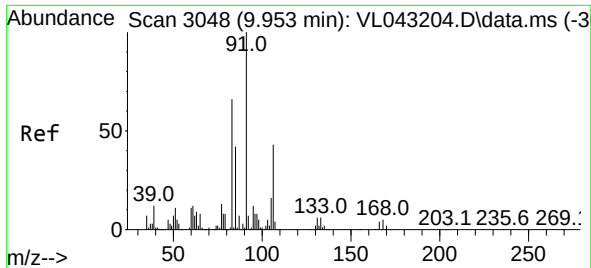
Delta R.T. 0.003 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Tgt Ion:105	Resp:	135853
Ion Ratio	Lower	Upper
105	100	
120	25.6	19.8 29.8





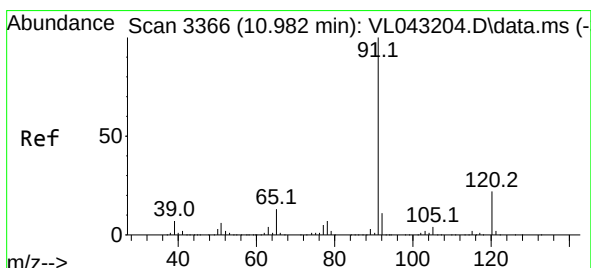
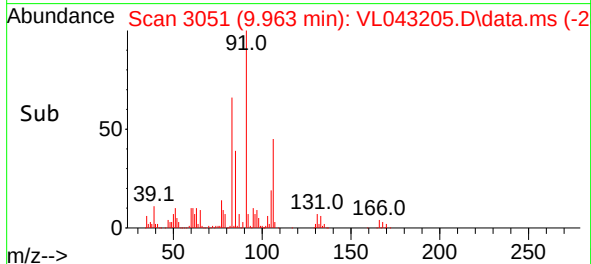
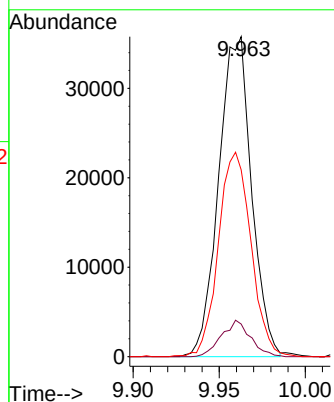
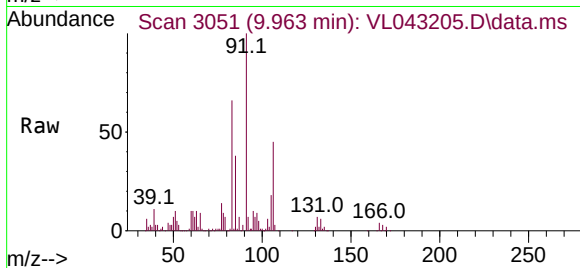
#63
1,1,2,2-Tetrachloroethane
Concen: 2.102 ppbv
RT: 9.963 min Scan# 3048
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 47439
Ion Ratio Lower Upper
83 100
131 10.0 4.8 14.3
85 63.4 31.9 95.9

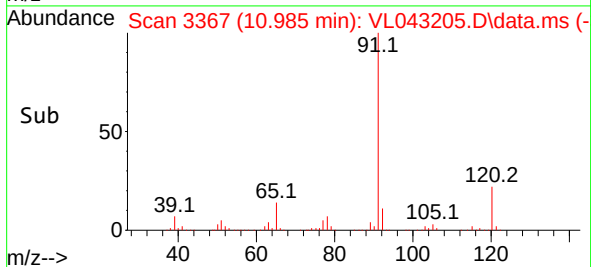
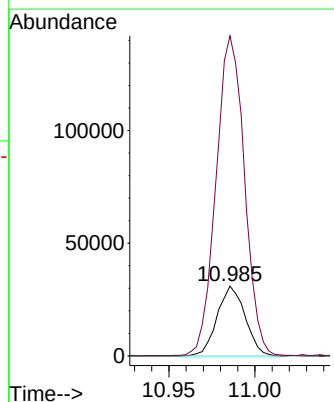
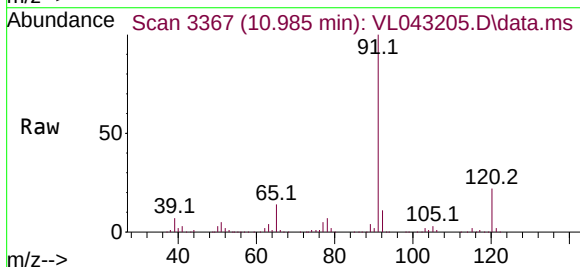
Manual Integrations
APPROVED

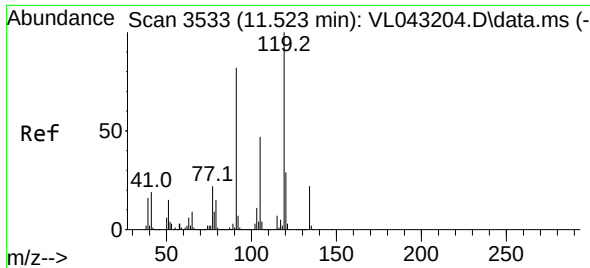
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#64
n-propylbenzene
Concen: 2.136 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:120 Resp: 34915
Ion Ratio Lower Upper
120 100
91 467.6 377.1 565.7





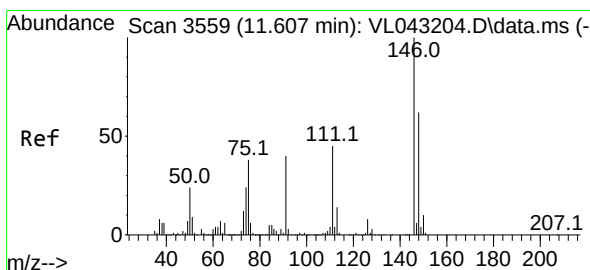
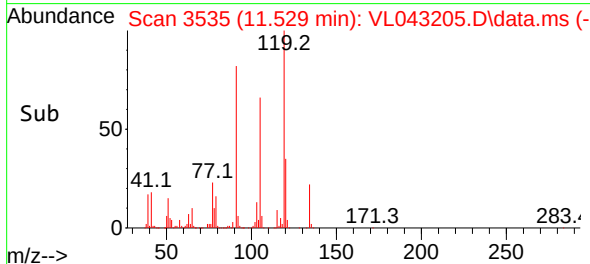
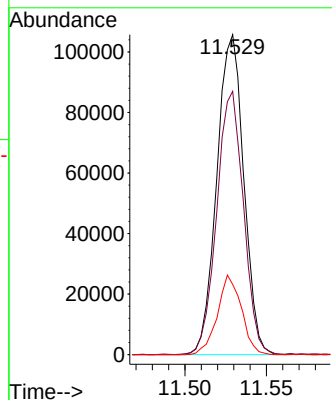
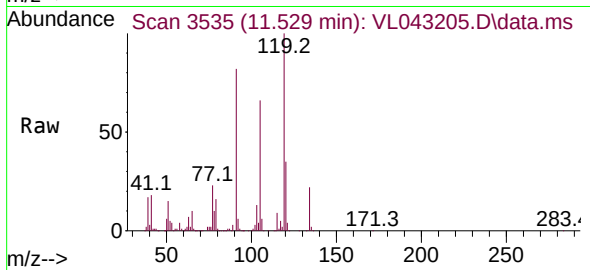
#65
tert-Butylbenzene
Concen: 2.149 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 122064
Ion Ratio Lower Upper
119 100
91 82.0 65.3 97.9
134 22.1 17.0 25.4

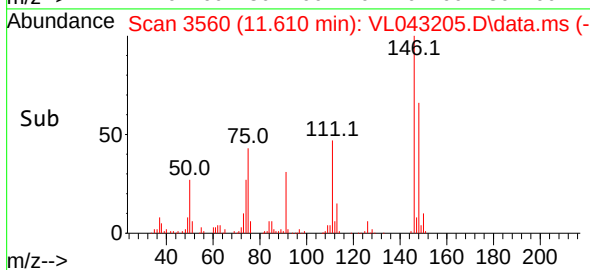
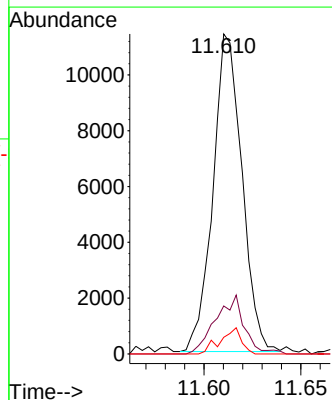
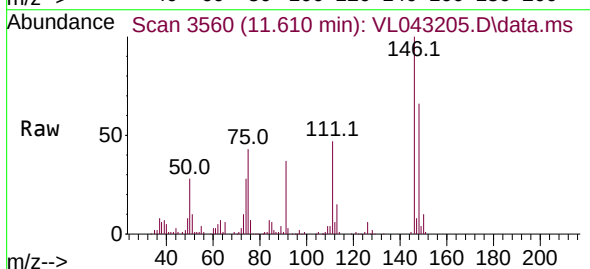
Manual Integrations
APPROVED

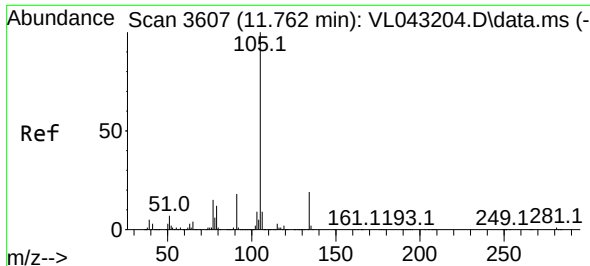
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#66
Benzyl Chloride
Concen: 2.059 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

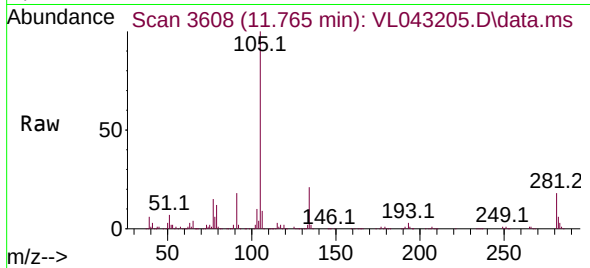
Tgt Ion: 91 Resp: 11870
Ion Ratio Lower Upper
91 100
126 18.3 14.4 21.6
128 5.9 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.765 min Scan# 3607
 Delta R.T. 0.003 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

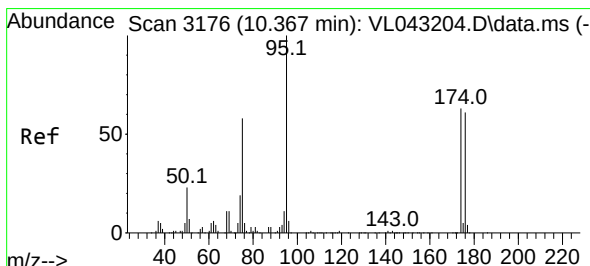
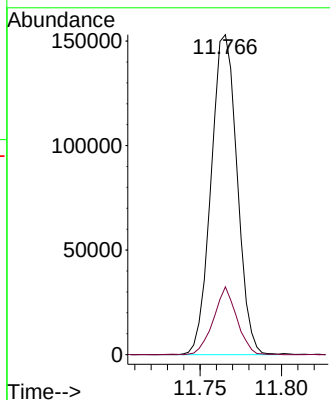
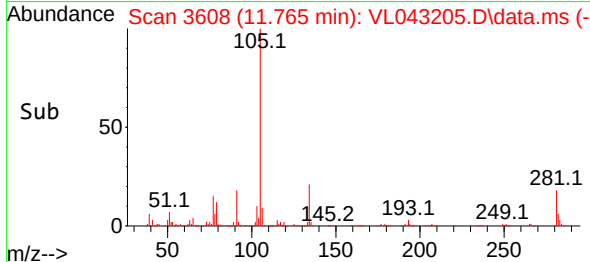
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002



Tgt Ion:105 Resp: 170529
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.0 22.6

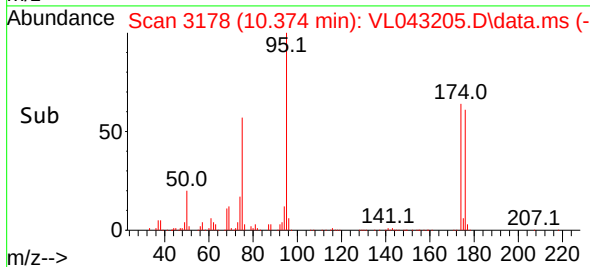
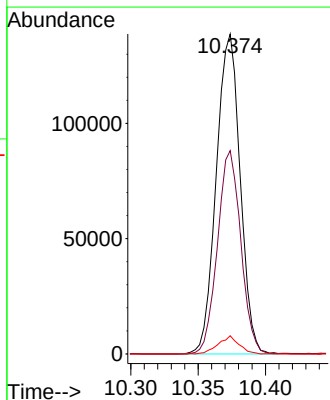
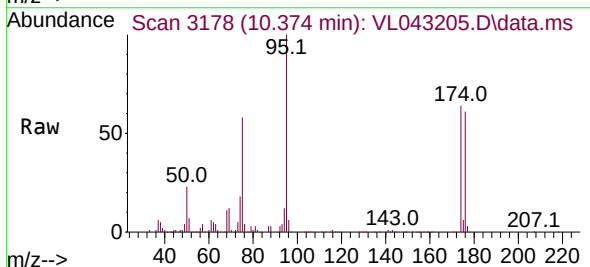
Manual Integrations
 APPROVED

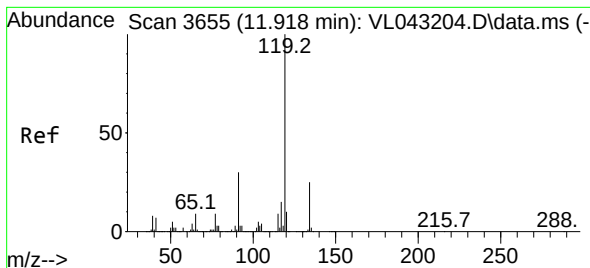
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.115 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.006 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

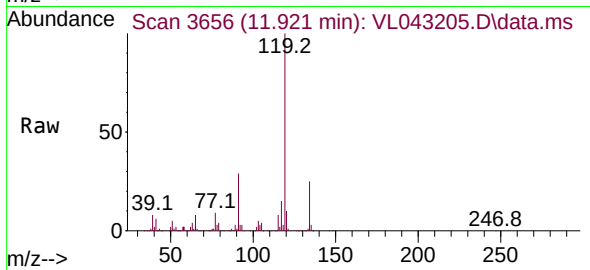
Tgt Ion: 95 Resp: 171009
 Ion Ratio Lower Upper
 95 100
 174 62.1 50.2 75.2
 175 4.9 4.1 6.1





#69
 p-Isopropyltoluene
 Concen: 2.195 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. 0.003 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37

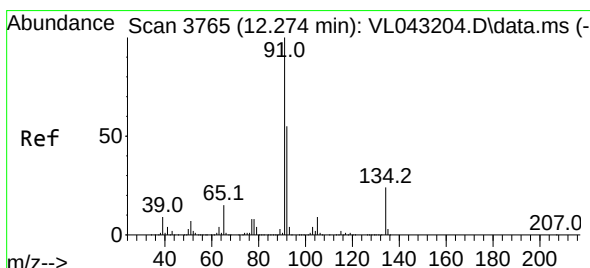
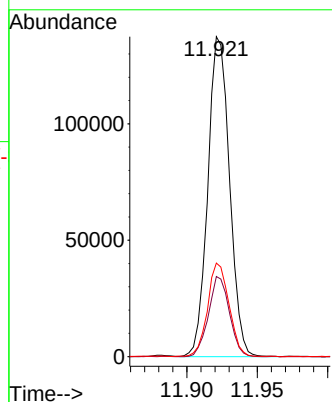
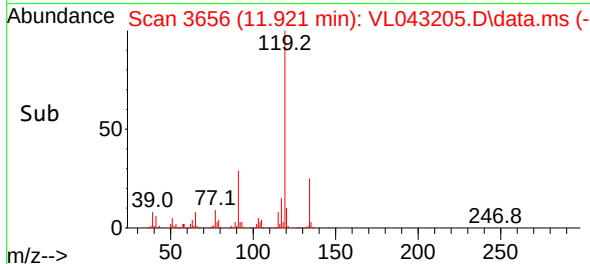
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



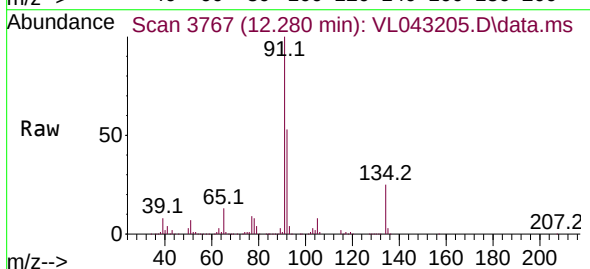
Tgt Ion: 119 Resp: 147482
 Ion Ratio Lower Upper
 119 100
 134 24.2 20.2 30.2
 91 29.1 23.8 35.8

Manual Integrations
 APPROVED

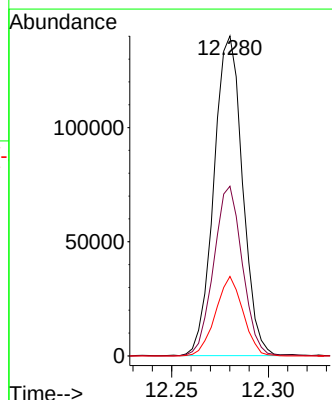
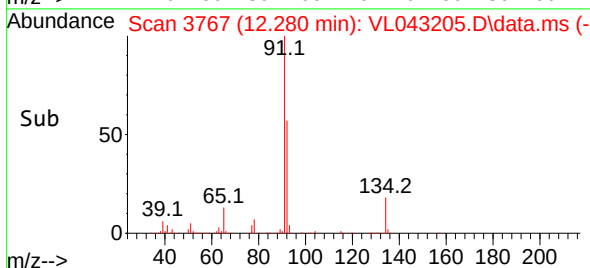
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

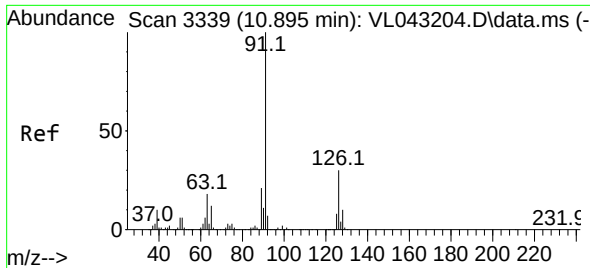


#70
 n-Butylbenzene
 Concen: 2.212 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.006 min
 Lab File: VL043205.D
 Acq: 18 Nov 2025 10:37



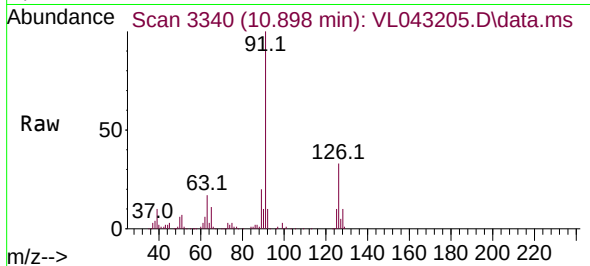
Tgt Ion: 91 Resp: 144148
 Ion Ratio Lower Upper
 91 100
 92 53.3 43.5 65.3
 134 23.8 19.0 28.6





#71
2-Chlorotoluene
Concen: 2.085 ppbv
RT: 10.898 min Scan# 3339
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

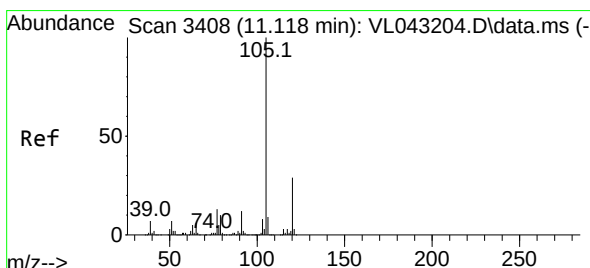
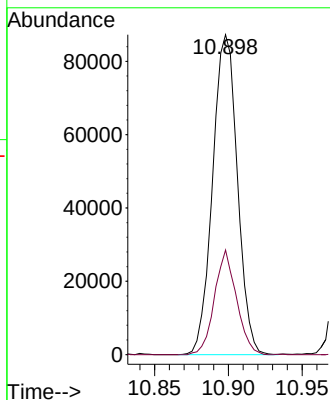
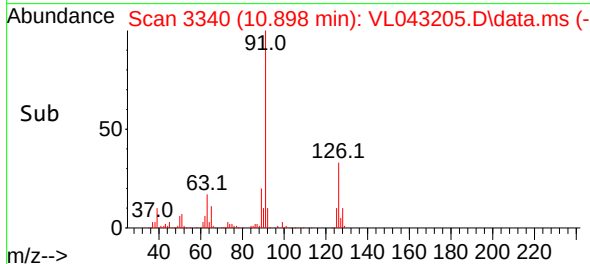
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 91 Resp: 10195
Ion Ratio Lower Upper
91 100
126 29.0 11.7 46.7

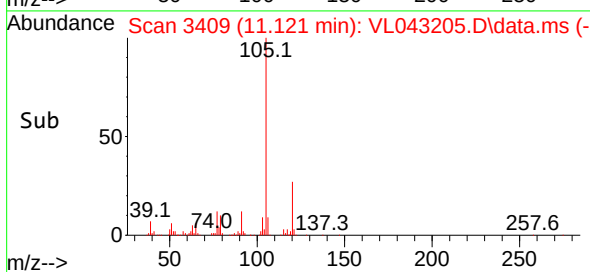
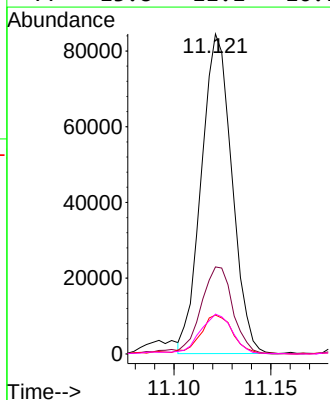
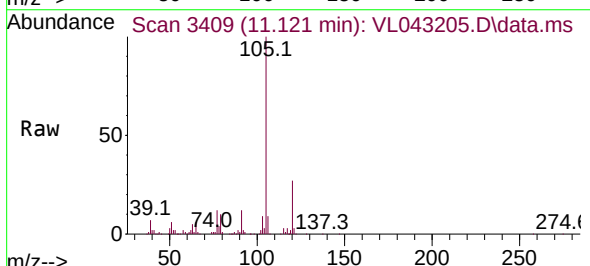
Manual Integrations
APPROVED

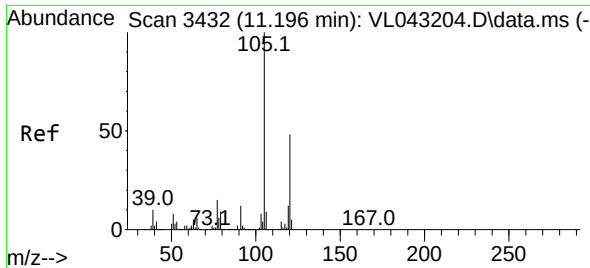
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#72
4-Ethyltoluene
Concen: 2.140 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

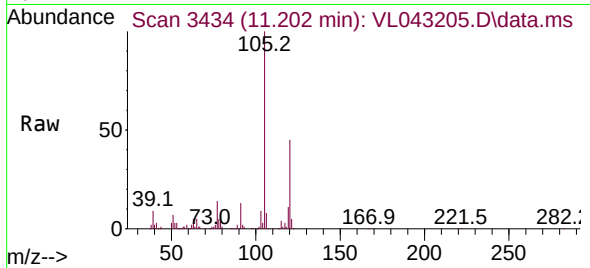
Tgt Ion:105 Resp: 92654
Ion Ratio Lower Upper
105 100
120 29.1 23.8 35.8
91 13.7 10.3 15.5
77 13.8 11.1 16.7





#73
1,3,5-Trimethylbenzene
Concen: 2.110 ppbv
RT: 11.202 min Scan# 3432
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

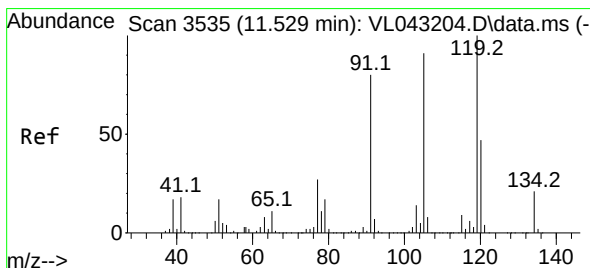
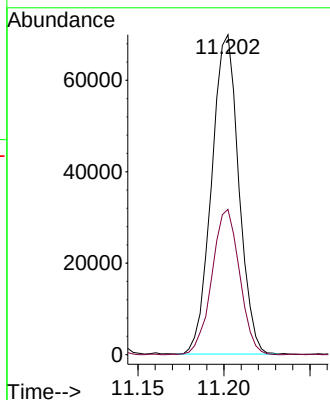
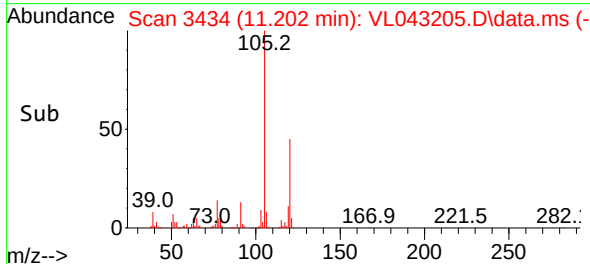
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:105 Resp: 7665
Ion Ratio Lower Upper
105 100
120 45.5 38.6 57.8

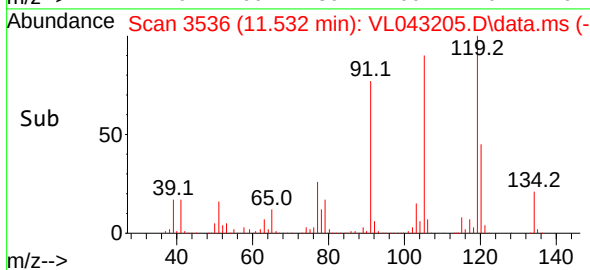
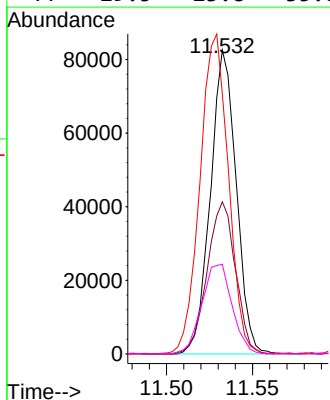
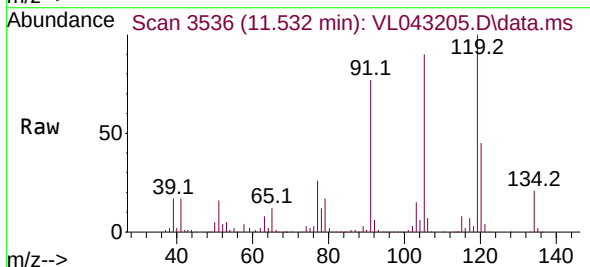
Manual Integrations
APPROVED

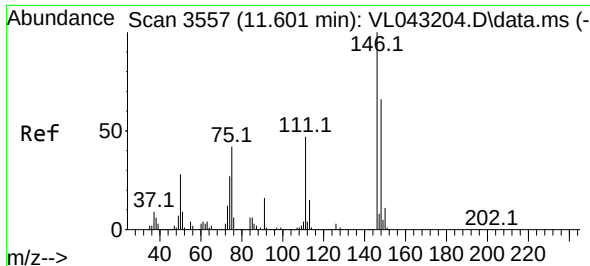
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#74
1,2,4-Trimethylbenzene
Concen: 2.176 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 86286
Ion Ratio Lower Upper
105 100
120 50.0 41.7 62.5
91 85.2 70.0 105.0
77 29.5 23.8 35.8





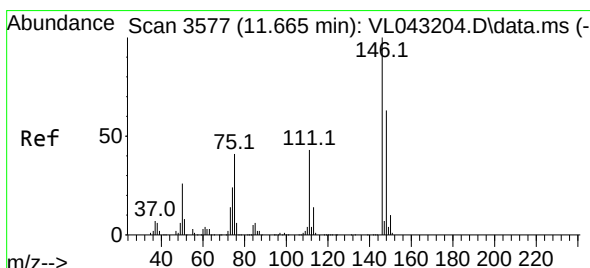
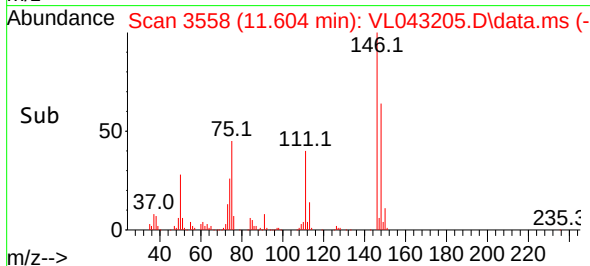
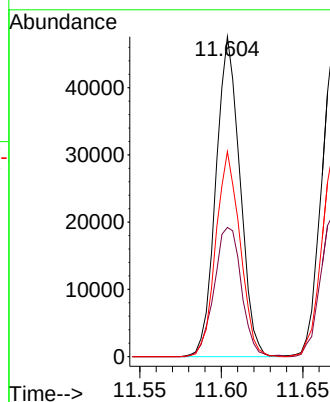
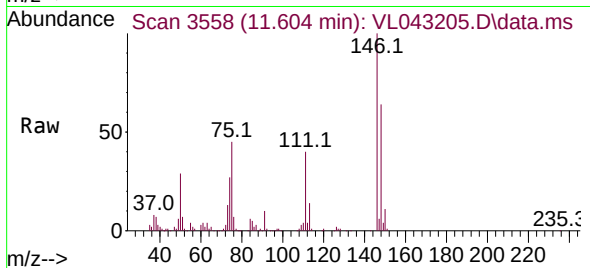
#75
1,3-Dichlorobenzene
Concen: 2.116 ppbv
RT: 11.604 min Scan# 3557
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:146 Resp: 48961
Ion Ratio Lower Upper
146 100
111 45.7 23.4 70.3
148 64.6 31.6 95.0

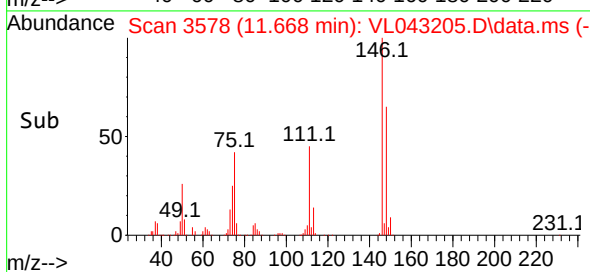
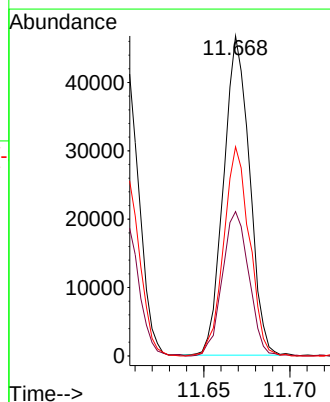
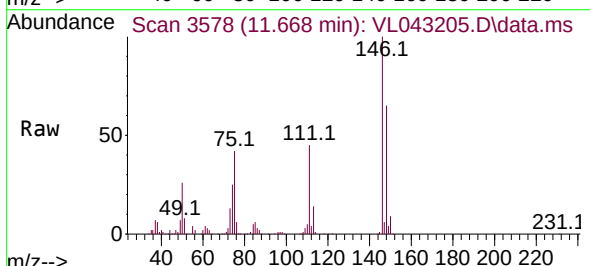
Manual Integrations
APPROVED

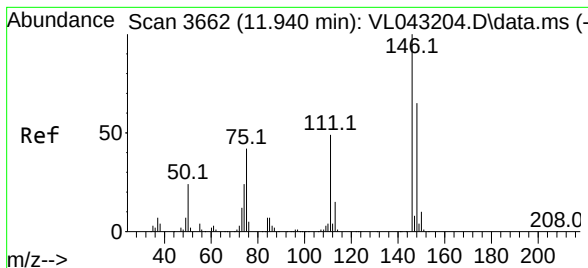
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#76
1,4-Dichlorobenzene
Concen: 2.112 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:146 Resp: 48881
Ion Ratio Lower Upper
146 100
111 46.3 22.8 68.3
148 65.3 31.8 95.4





#77

1,2-Dichlorobenzene

Concen: 2.177 ppbv

RT: 11.944 min Scan# 3662

Delta R.T. 0.003 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

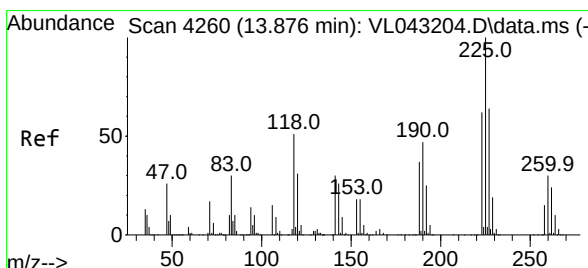
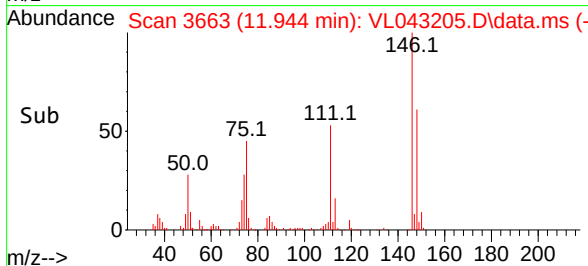
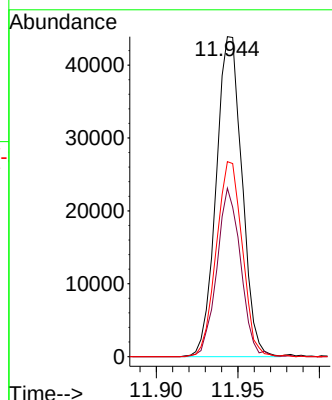
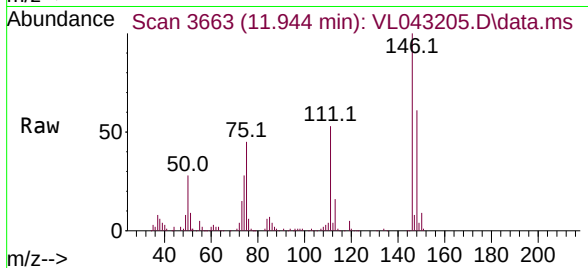
VSTDICC002

Tgt Ion:	146	Resp:	4843
Ion Ratio	Lower	Upper	
146	100		
111	48.5	24.3	73.0
148	61.3	31.6	94.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.287 ppbv

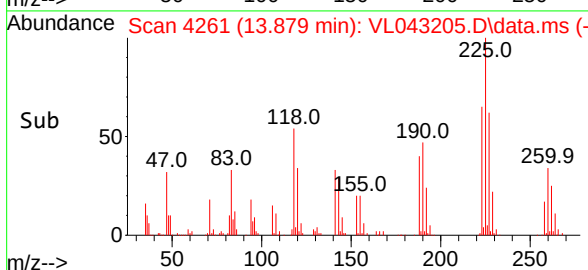
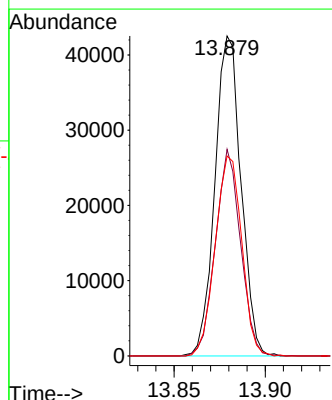
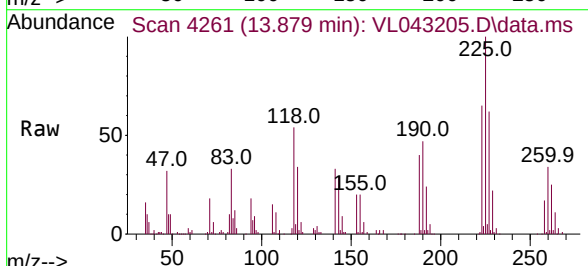
RT: 13.879 min Scan# 4261

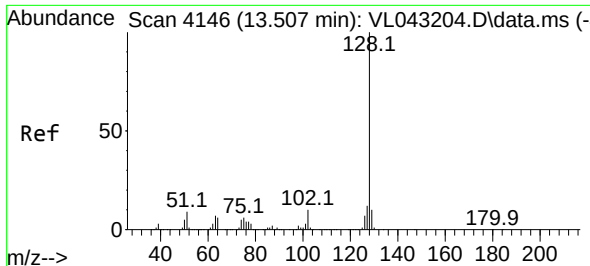
Delta R.T. 0.003 min

Lab File: VL043205.D

Acq: 18 Nov 2025 10:37

Tgt Ion:	225	Resp:	42456
Ion Ratio	Lower	Upper	
225	100		
223	62.1	50.2	75.4
227	63.4	51.1	76.7





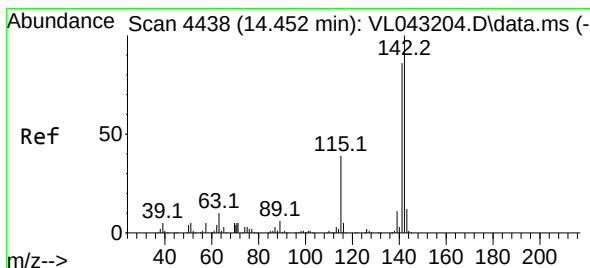
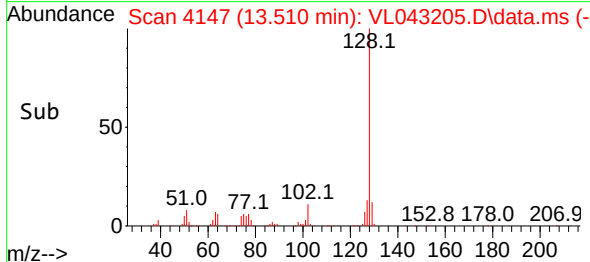
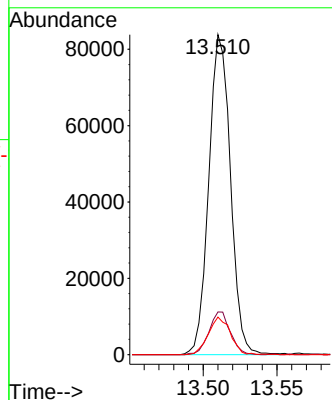
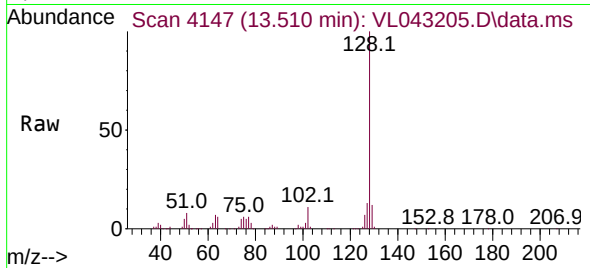
#79
Naphthalene
Concen: 2.436 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:128 Resp: 85788
Ion Ratio Lower Upper
128 100
127 13.3 9.9 14.9
129 11.7 8.4 12.6

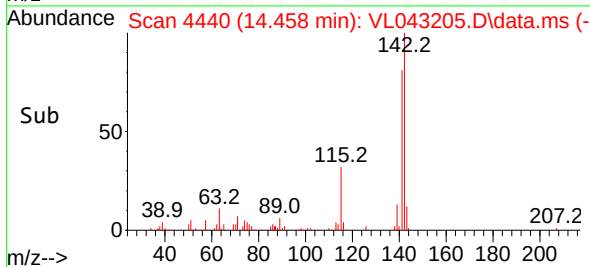
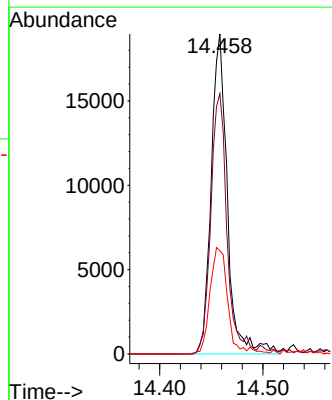
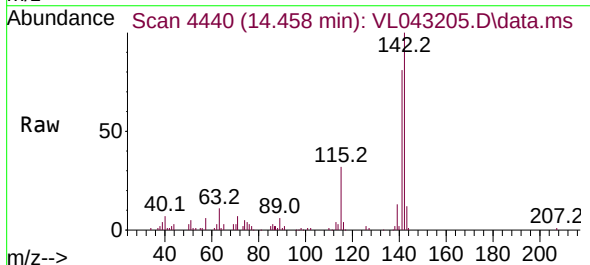
Manual Integrations
APPROVED

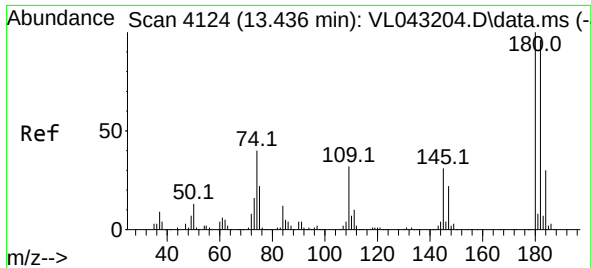
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#80
Naphthalene,2-methyl-
Concen: 2.237 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:142 Resp: 20685
Ion Ratio Lower Upper
142 100
141 82.9 67.1 100.7
115 36.9 31.9 47.9





#81

1,2,4-Trichlorobenzene

Concen: 2.382 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043205.D

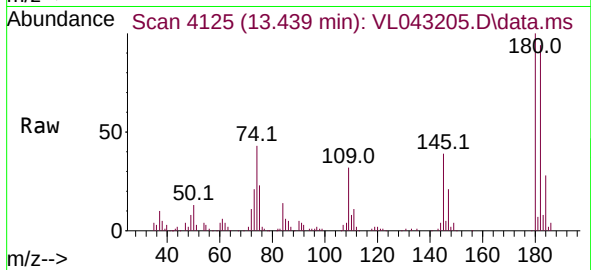
Acq: 18 Nov 2025 10:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

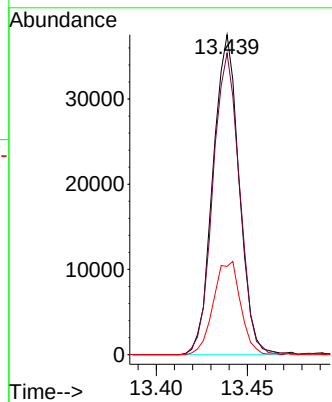
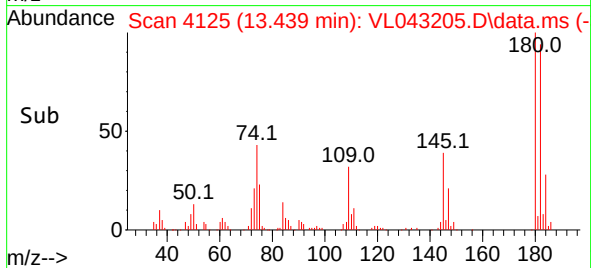


Tgt Ion:180	Resp:	3752
Ion Ratio	Lower	Upper
180	100	
182	95.8	77.4 116.2
184	30.4	24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043206.D
 Acq On : 18 Nov 2025 11:10
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:51:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	102795	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	278732	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	227998	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 167061 9.996 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	15474	1.067	ppbv	100
3) Chlorodifluoromethane	1.476	51	14437	1.013	ppbv #	92
4) Chloromethane	1.531	50	5751	1.061	ppbv	92
5) Vinyl Chloride	1.580	62	5967	1.007	ppbv	95
6) Bromomethane	1.667	94	3104	1.080	ppbv	94
7) Chloroethane	1.706	64	2550	1.104	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	12759	1.058	ppbv	98
9) Propene	1.483	41	6147	0.929	ppbv #	1
10) Heptane	4.972	43	18544	1.022	ppbv	100
11) Trichlorofluoromethane	1.877	101	15571	1.108	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	11743	1.071	ppbv	99
13) Ethanol	1.719	45	2373	1.115	ppbv	67
14) Bromoethene	1.780	108	4345	1.033	ppbv #	91
15) Acetone	1.835	43	16353	1.145	ppbv	90
16) 1,3-Butadiene	1.609	39	6469	1.016	ppbv	96
17) tert-Butyl alcohol	2.039	59	20703	1.104	ppbv #	92
18) 1,1-Dichloroethene	2.033	96	5447	1.067	ppbv	97
19) Isopropyl Alcohol	1.884	45	8849	1.097	ppbv #	43
20) Methylene Chloride	2.059	84	7297	1.030	ppbv	85
21) Allyl Chloride	2.094	41	9198	0.957	ppbv #	84
22) trans-1,2-Dichloroethene	2.340	96	6313	1.082	ppbv	94
23) Vinyl Acetate	2.460	43	16779	0.973	ppbv	98
24) 1,1-Dichloroethane	2.405	63	12062	1.071	ppbv	94
25) Ethyl Acetate	2.832	43	32108	1.041	ppbv	98
26) Hexane	2.819	57	14639	1.084	ppbv	99
27) Carbon Disulfide	2.149	76	14637	1.062	ppbv #	30
28) Methyl tert-Butyl Ether	2.441	73	7236	1.092	ppbv #	83
29) Chloroform	2.845	83	19509	1.016	ppbv	91
30) Cyclohexane	3.852	84	12269	1.084	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	13889	1.035	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	20745	1.005	ppbv	99
34) 2-Butanone	2.554	43	20940	1.064	ppbv	96
35) Carbon Tetrachloride	3.758	117	21497	1.016	ppbv	96
36) Benzene	3.648	78	27911	1.046	ppbv	99
37) 1,2-Dichloroethane	3.214	62	16159	1.035	ppbv	99
38) Trichloroethene	4.538	130	10809m	1.033	ppbv	
39) 1,2-Dichloropropane	4.311	63	10147	1.039	ppbv	91
40) 1,4-Dioxane	4.577	88	4616m	1.051	ppbv	
41) Tetrahydrofuran	3.052	42	11176	1.029	ppbv	96
42) Bromodichloromethane	4.480	83	22150	1.028	ppbv #	98
43) Methyl Methacrylate	4.871	69	14821	1.046	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	49203m	1.073	ppbv	
45) t-1,3-Dichloropropene	6.402	75	13149m	0.996	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043206.D
 Acq On : 18 Nov 2025 11:10
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:51:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

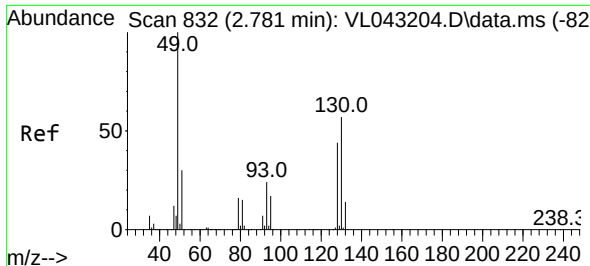
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

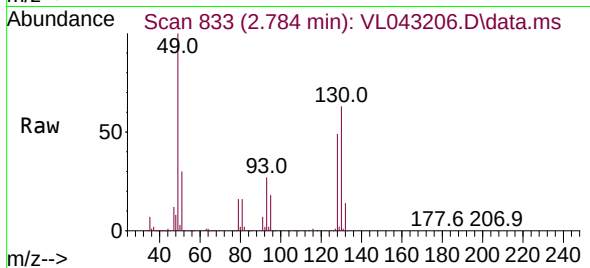
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	15527	1.001	ppbv #	95
47) 1,1,2-Trichloroethane	6.577	97	10369	0.995	ppbv #	85
48) Dibromochloromethane	7.377	129	18560	1.041	ppbv	93
49) Bromoform	9.477	173	15858	1.004	ppbv	98
50) 4-Methyl-2-Pentanone	5.745	43	29560	1.067	ppbv	99
51) 2-Hexanone	7.428	43	22438	1.043	ppbv #	98
52) Tetrachloroethene	8.215	164	10080	1.015	ppbv	90
53) Toluene	6.923	91	32951	1.036	ppbv	100
54) 1,2-Dibromoethane	7.645	107	15865	1.040	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	17535	1.046	ppbv	99
57) Chlorobenzene	8.914	112	24806	1.060	ppbv	98
58) Ethyl Benzene	9.344	91	46455	1.059	ppbv	96
59) m/p-Xylene	9.545	91	73461m	2.080	ppbv	
60) o-Xylene	9.956	91	37054	1.054	ppbv	97
61) Styrene	9.866	104	15730	1.023	ppbv	95
62) Isopropylbenzene	10.532	105	67163	1.068	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	23083	1.035	ppbv	97
64) n-propylbenzene	10.985	120	17289	1.070	ppbv	100
65) tert-Butylbenzene	11.526	119	61258	1.091	ppbv	99
66) Benzyl Chloride	11.610	91	5729	1.005	ppbv	96
67) sec-Butylbenzene	11.762	105	84989	1.084	ppbv	99
69) p-Isopropyltoluene	11.921	119	69993	1.054	ppbv	99
70) n-Butylbenzene	12.277	91	69323	1.076	ppbv	99
71) 2-Chlorotoluene	10.895	91	51452	1.065	ppbv	100
72) 4-Ethyltoluene	11.118	105	44403	1.037	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	38350	1.068	ppbv	91
74) 1,2,4-Trimethylbenzene	11.532	105	42051	1.073	ppbv #	81
75) 1,3-Dichlorobenzene	11.600	146	24011	1.050	ppbv	98
76) 1,4-Dichlorobenzene	11.665	146	23543	1.029	ppbv	97
77) 1,2-Dichlorobenzene	11.940	146	24248	1.103	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	20489	1.116	ppbv	99
79) Naphthalene	13.507	128	36462	1.047	ppbv	95
80) Naphthalene,2-methyl-	14.455	142	7375	0.807	ppbv	95
81) 1,2,4-Trichlorobenzene	13.436	180	15785	1.014	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

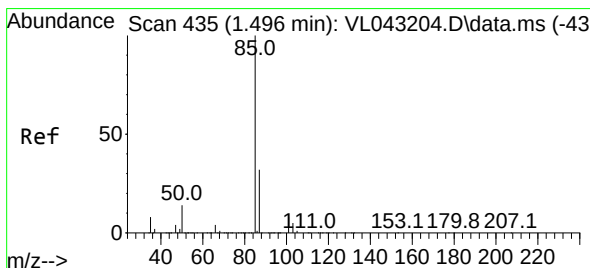
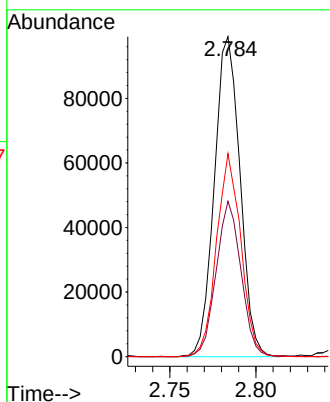
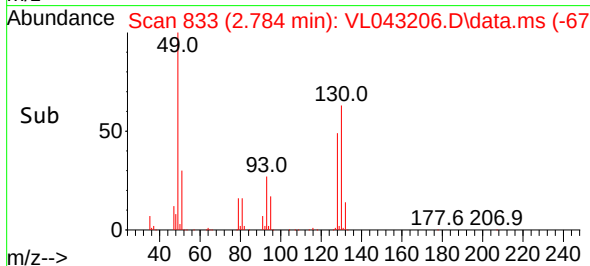
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



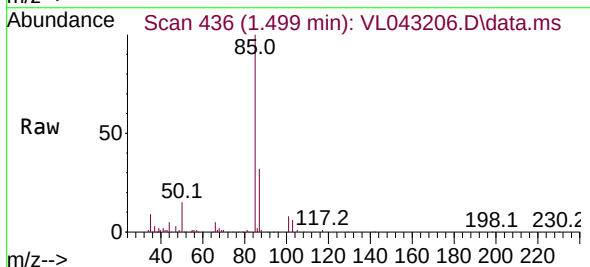
Tgt Ion: 49 Resp: 102795
Ion Ratio Lower Upper
49 100
128 46.9 23.0 69.0
130 60.1 29.9 89.7

Manual Integrations
APPROVED

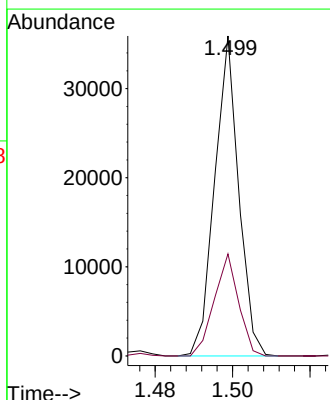
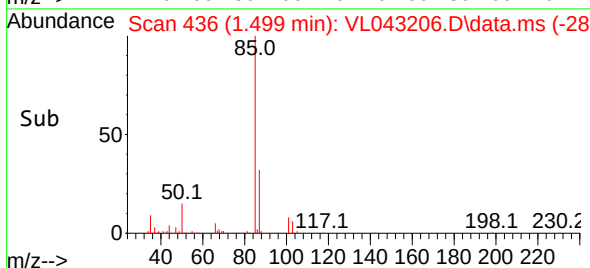
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

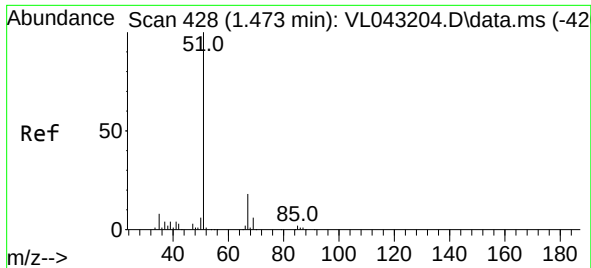


#2
Dichlorodifluoromethane
Concen: 1.067 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10



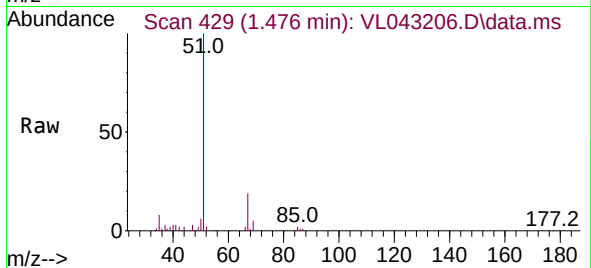
Tgt Ion: 85 Resp: 15474
Ion Ratio Lower Upper
85 100
87 31.9 25.4 38.2





#3
Chlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

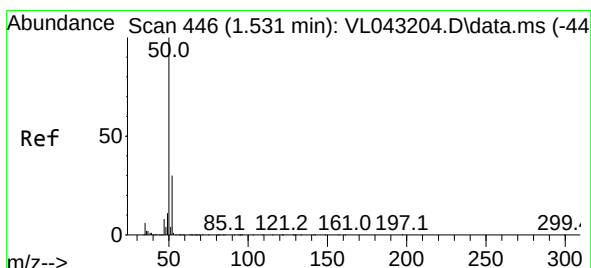
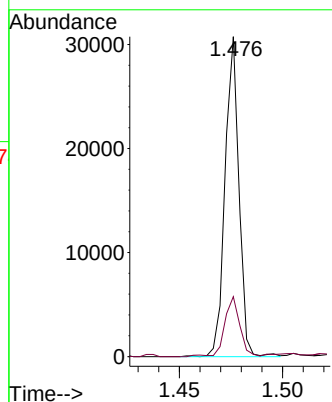
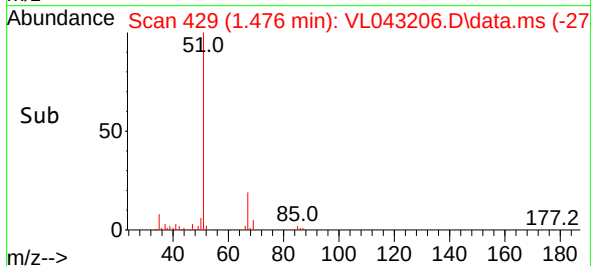
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



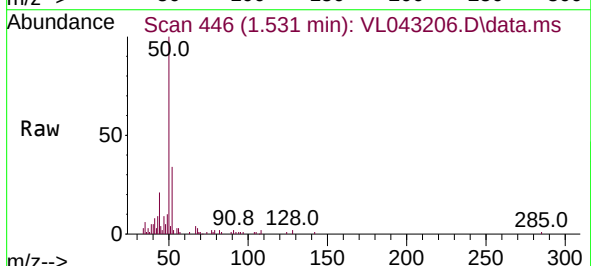
Tgt Ion: 51 Resp: 1443
Ion Ratio Lower Upper
51 100
67 22.3 14.9 22.3

Manual Integrations
APPROVED

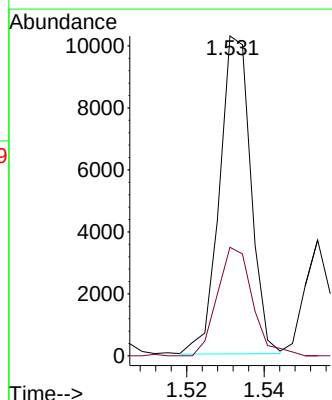
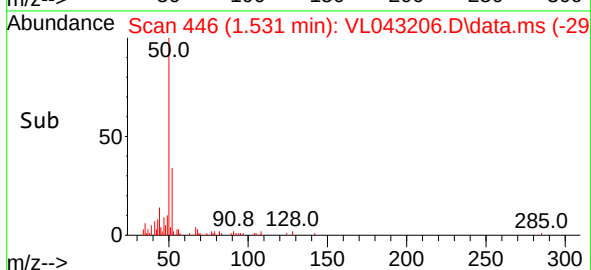
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

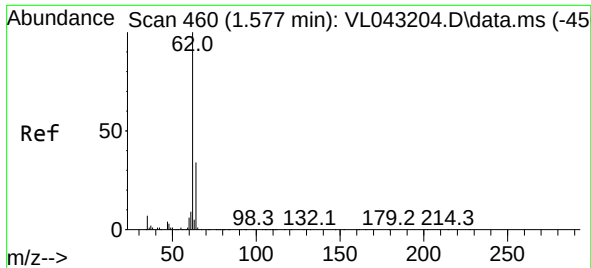


#4
Chloromethane
Concen: 1.061 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10



Tgt Ion: 50 Resp: 5751
Ion Ratio Lower Upper
50 100
52 34.2 24.1 36.1





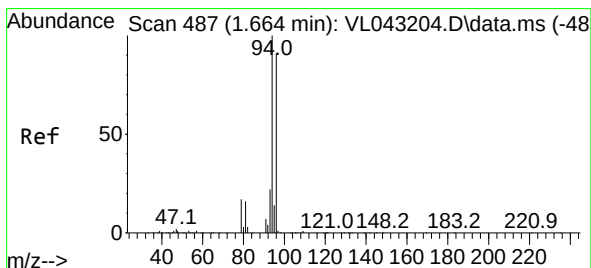
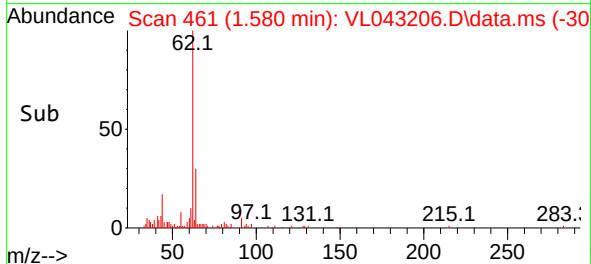
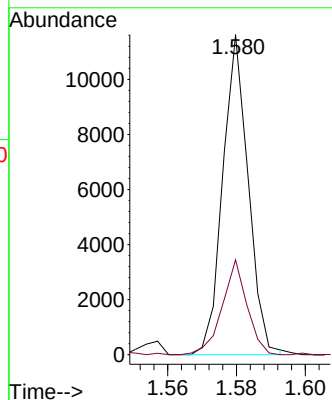
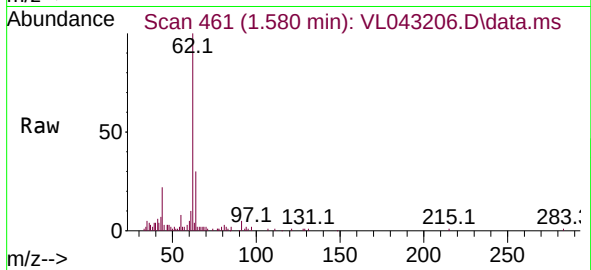
#5
 Vinyl Chloride
 Concen: 1.007 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 596
 Ion Ratio Lower Upper
 62 100
 64 31.3 27.3 40.9

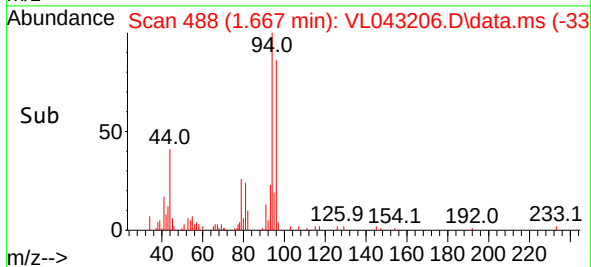
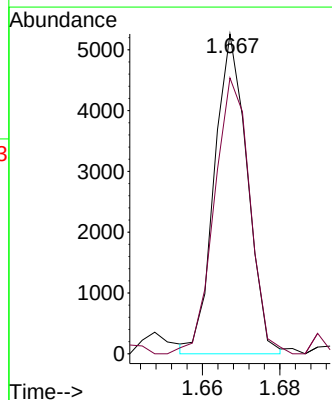
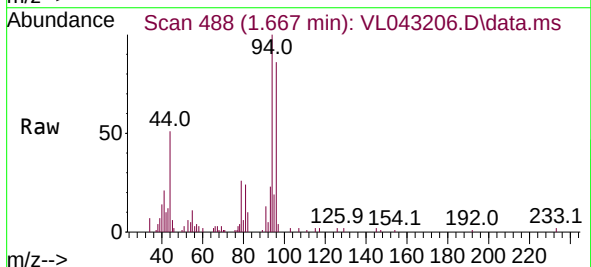
Manual Integrations
 APPROVED

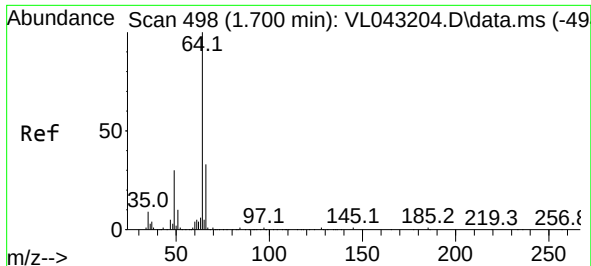
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#6
 Bromomethane
 Concen: 1.080 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

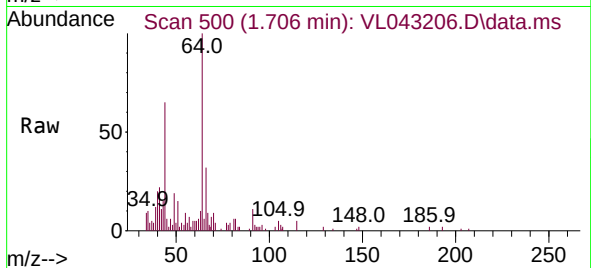
Tgt Ion: 94 Resp: 3104
 Ion Ratio Lower Upper
 94 100
 96 85.7 72.9 109.3





#7
Chloroethane
Concen: 1.104 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

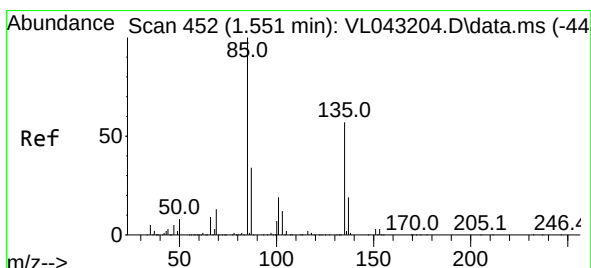
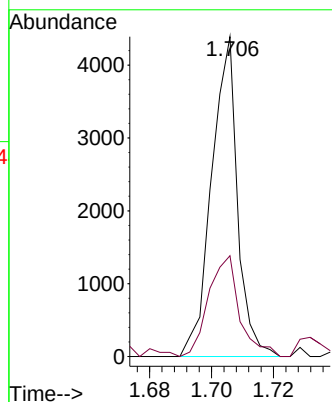
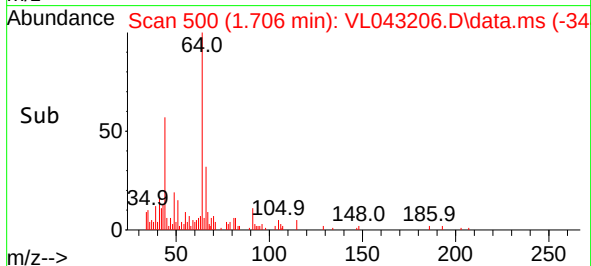
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 64 Resp: 2550
Ion Ratio Lower Upper
64 100
66 31.5 26.8 40.2

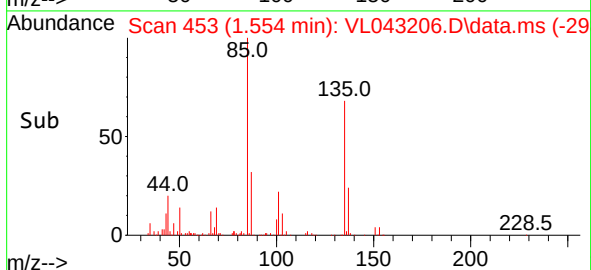
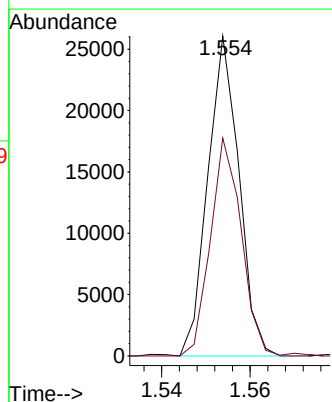
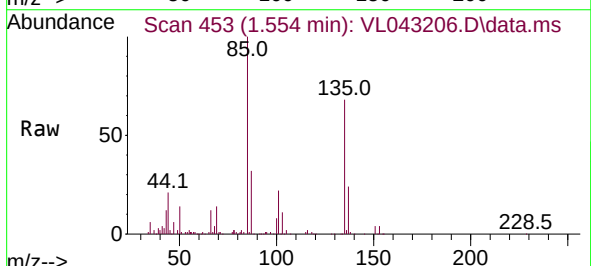
Manual Integrations
APPROVED

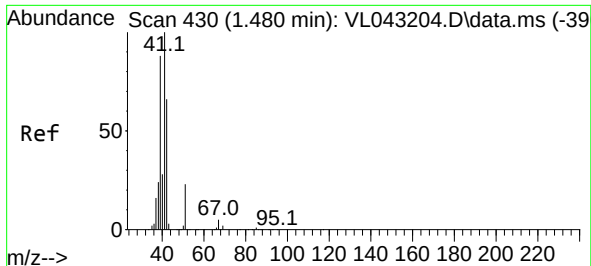
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#8
Dichlorotetrafluoroethane
Concen: 1.058 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

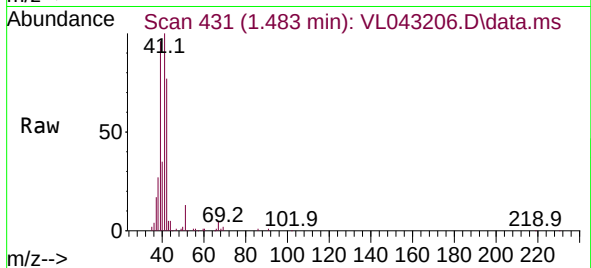
Tgt Ion: 85 Resp: 12759
Ion Ratio Lower Upper
85 100
135 67.7 52.6 79.0





#9
Propene
Concen: 0.929 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

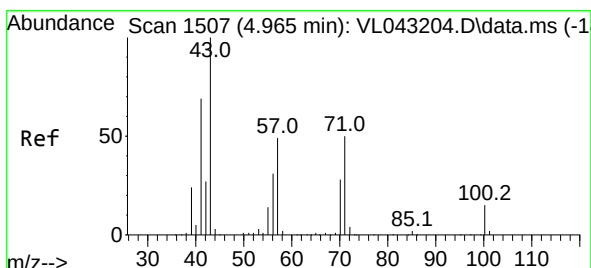
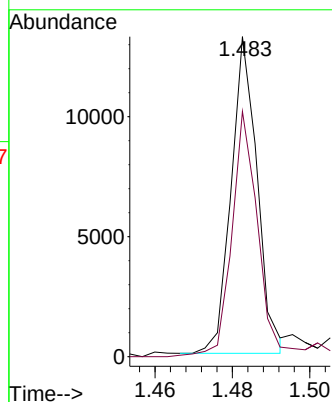
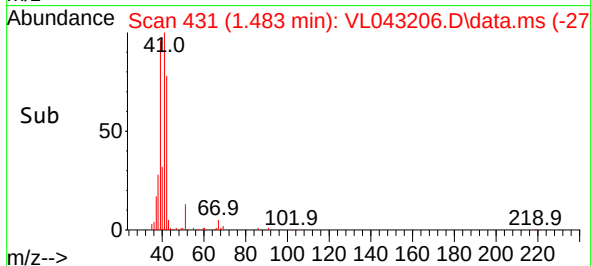
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 41 Resp: 6147
Ion Ratio Lower Upper
41 100
42 80.0 3.7 5.5

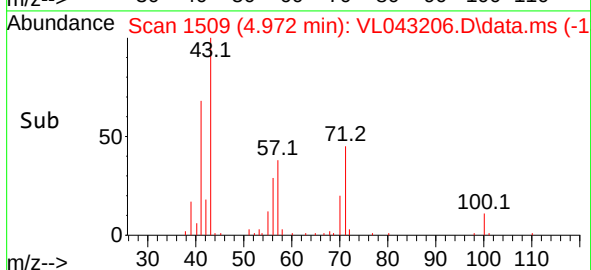
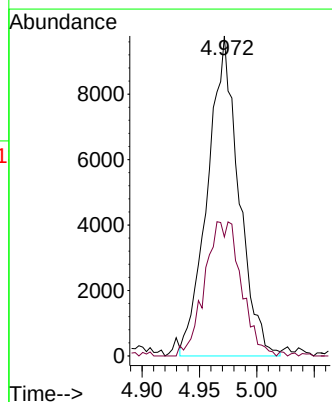
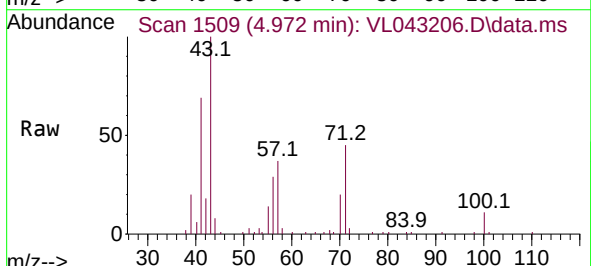
Manual Integrations
APPROVED

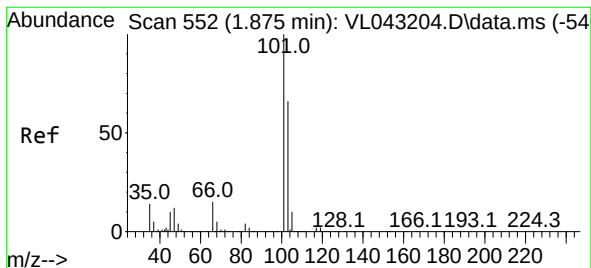
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#10
Heptane
Concen: 1.022 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 18544
Ion Ratio Lower Upper
43 100
57 49.3 39.7 59.5





#11

Trichlorofluoromethane

Concen: 1.108 ppbv

RT: 1.877 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion:101 Resp: 1557

Ion Ratio Lower Upper

101 100

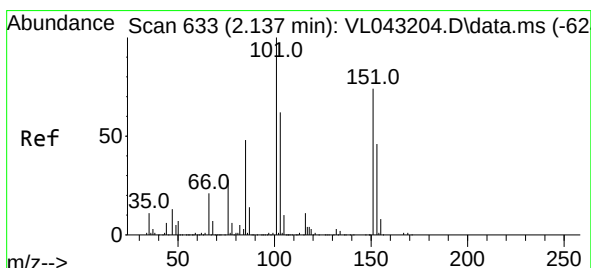
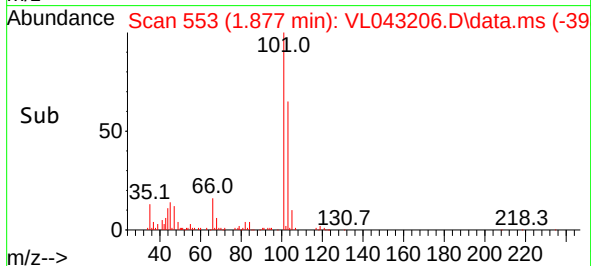
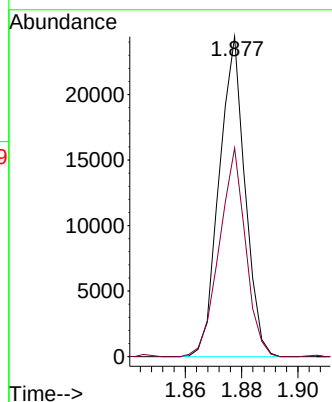
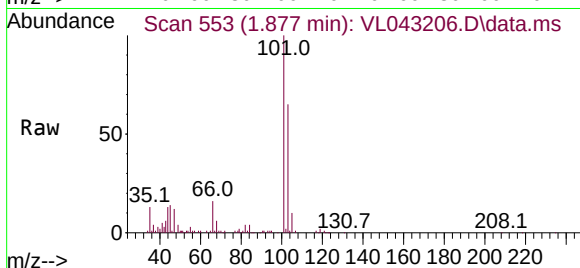
103 65.2 52.6 79.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.071 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL043206.D

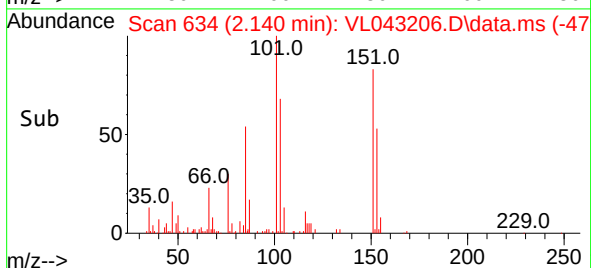
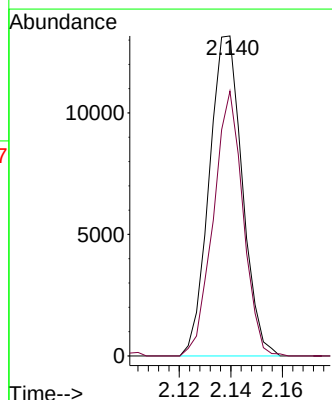
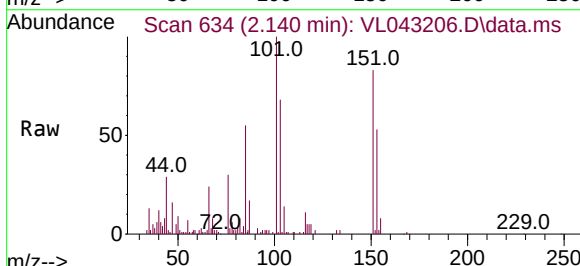
Acq: 18 Nov 2025 11:10

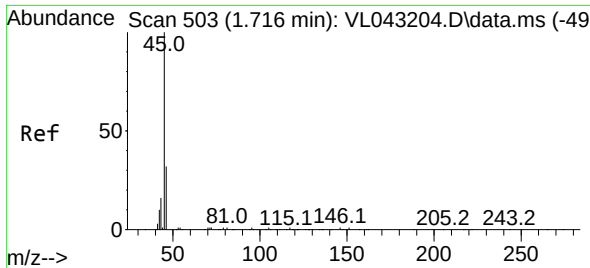
Tgt Ion:101 Resp: 11743

Ion Ratio Lower Upper

101 100

151 74.6 59.2 88.8





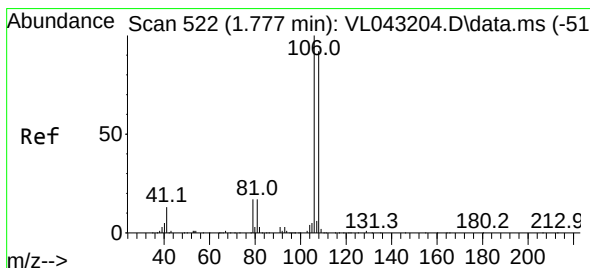
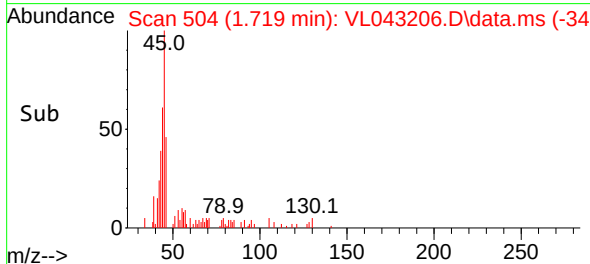
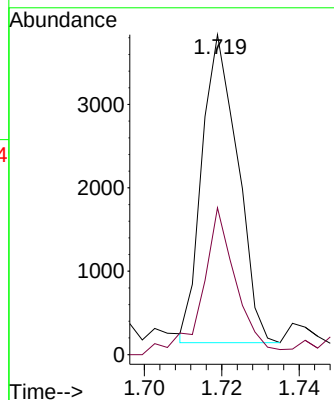
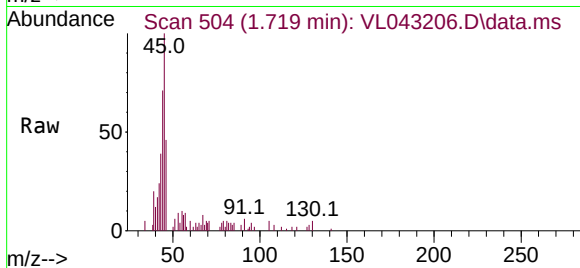
#13
Ethanol
Concen: 1.115 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 2373
Ion Ratio Lower Upper
45 100
46 57.0 15.0 59.8

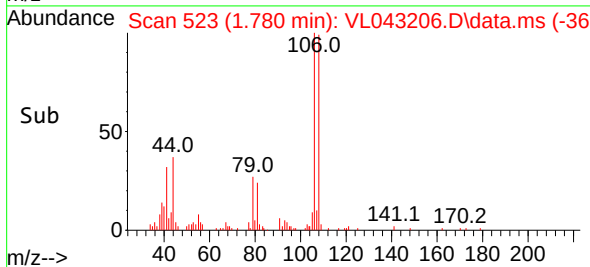
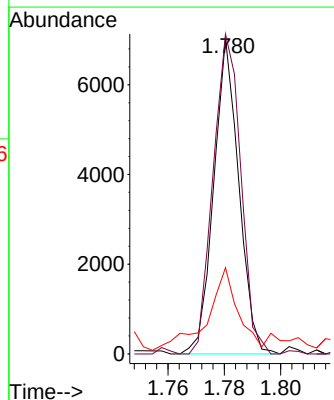
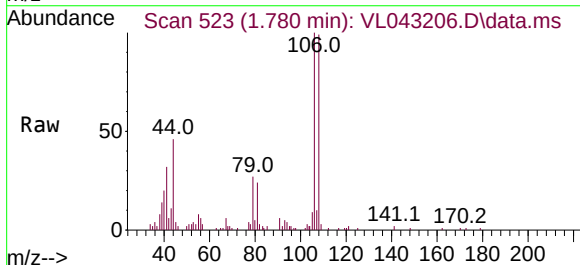
Manual Integrations
APPROVED

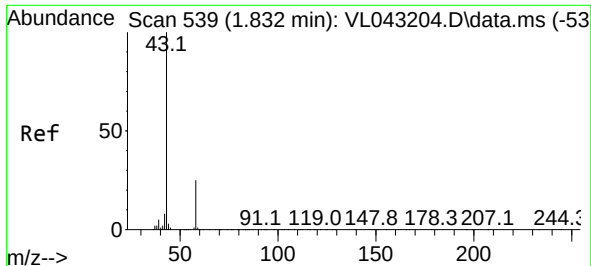
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#14
Bromoethene
Concen: 1.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:108 Resp: 4345
Ion Ratio Lower Upper
108 100
106 114.0 88.9 133.3
79 39.2 16.5 24.7#





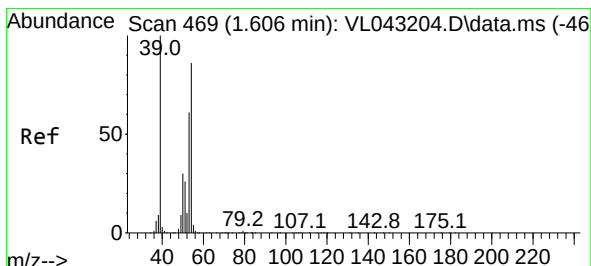
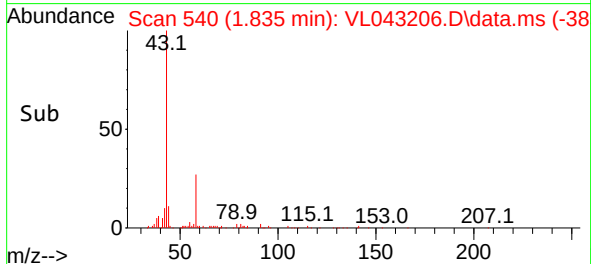
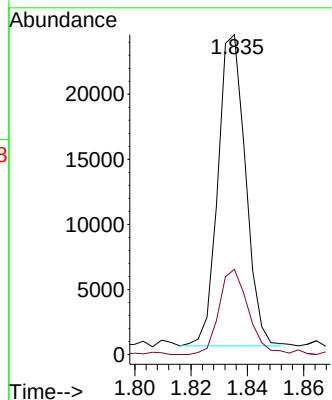
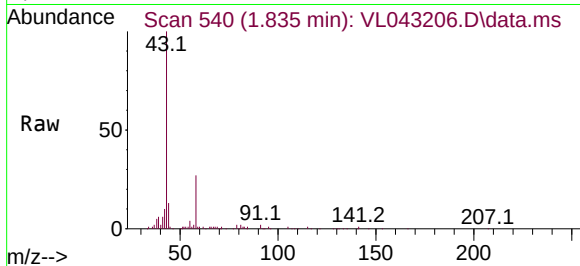
#15
Acetone
Concen: 1.145 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1635
Ion Ratio Lower Upper
43 100
58 30.9 20.7 31.1

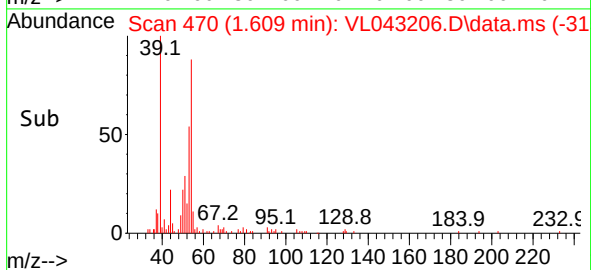
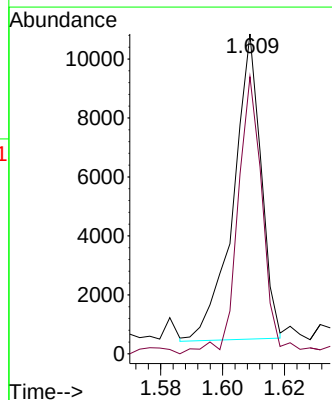
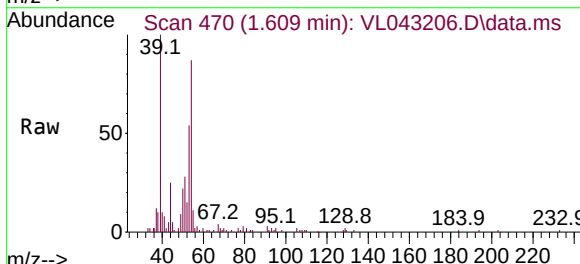
Manual Integrations
APPROVED

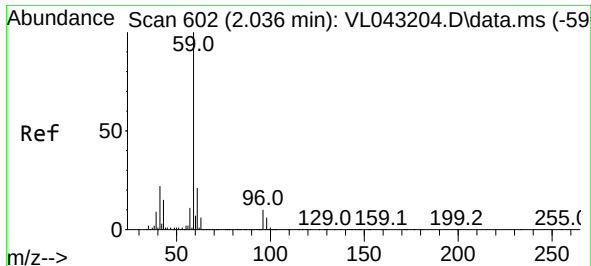
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#16
1,3-Butadiene
Concen: 1.016 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 39 Resp: 6469
Ion Ratio Lower Upper
39 100
54 77.8 59.4 89.2





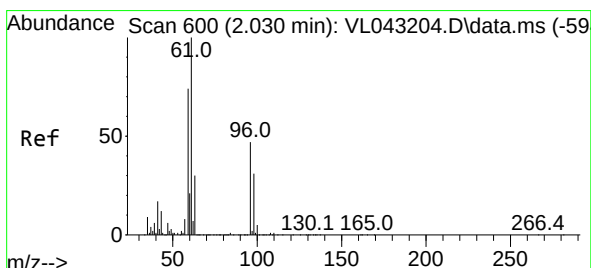
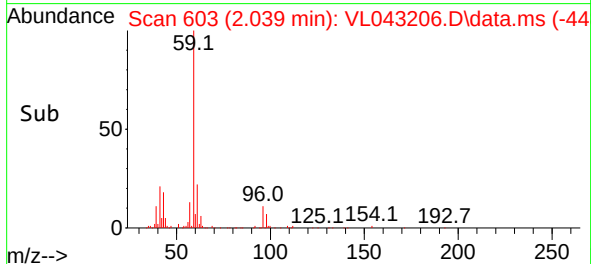
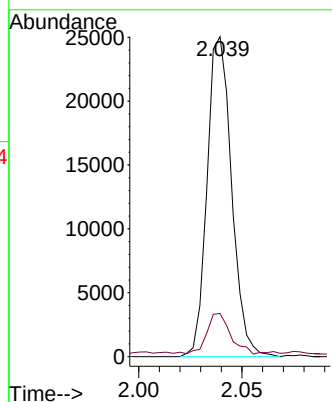
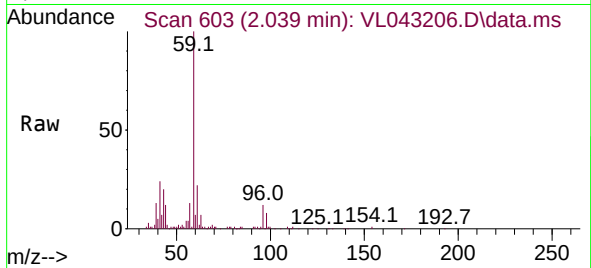
#17
tert-Butyl alcohol
Concen: 1.104 ppbv
RT: 2.039 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 20703
Ion Ratio Lower Upper
59 100
57 14.1 9.0 13.4

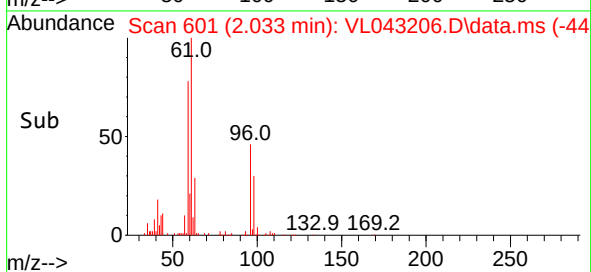
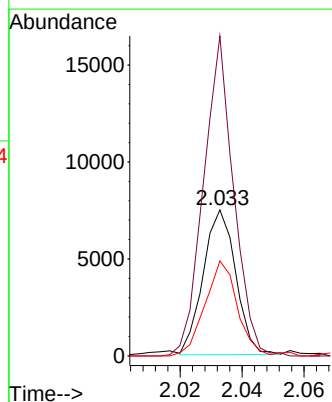
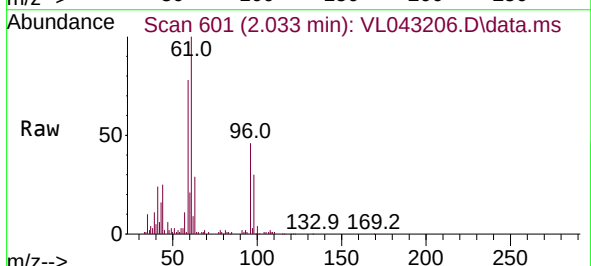
Manual Integrations
APPROVED

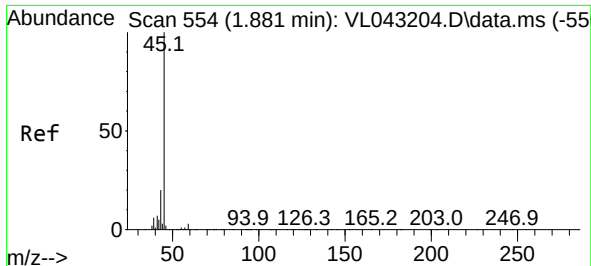
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#18
1,1-Dichloroethene
Concen: 1.067 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 96 Resp: 5447
Ion Ratio Lower Upper
96 100
61 219.3 170.6 255.8
98 63.7 52.2 78.4





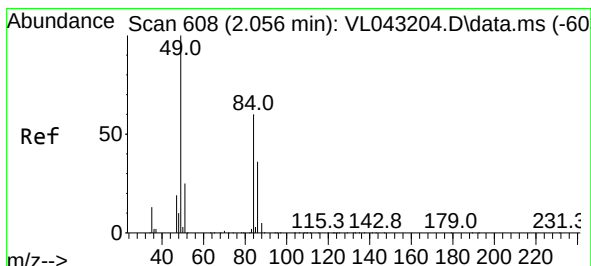
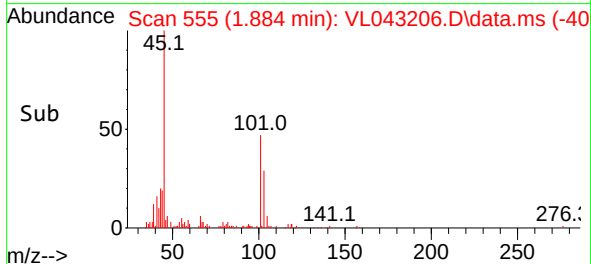
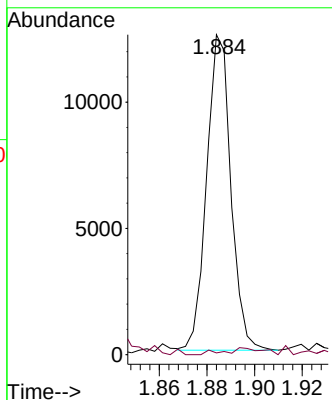
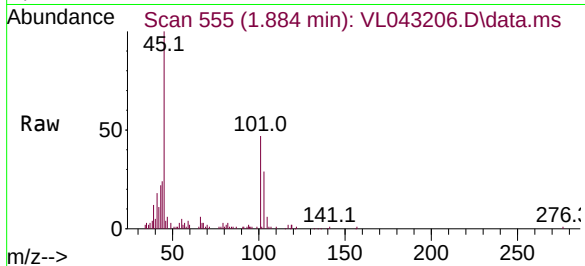
#19
Isopropyl Alcohol
Concen: 1.097 ppbv
RT: 1.884 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 8849
Ion Ratio Lower Upper
45 100
58 4.0 31.3 46.9

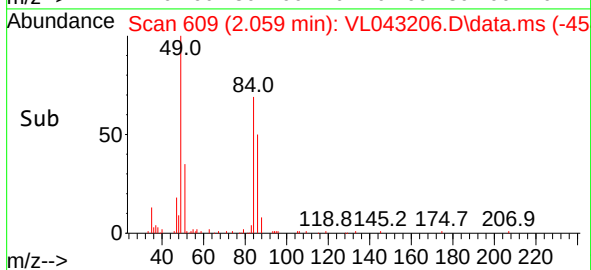
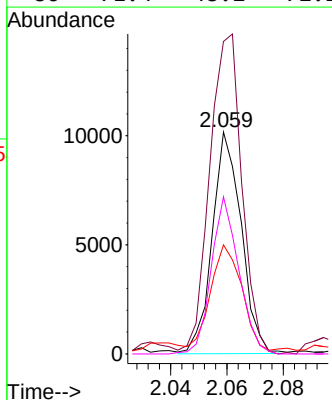
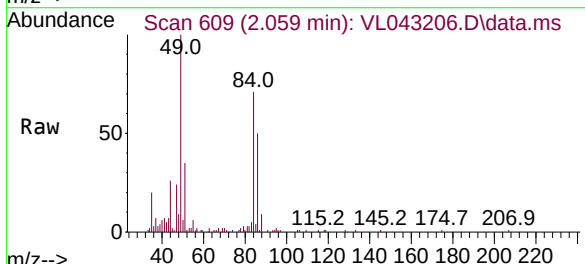
Manual Integrations
APPROVED

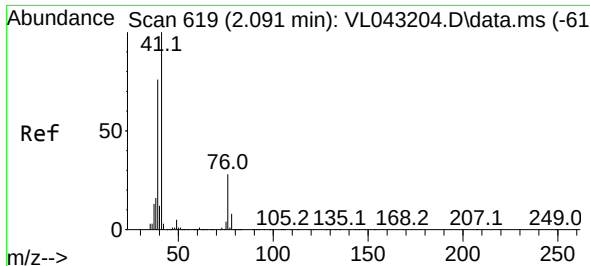
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 1.030 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

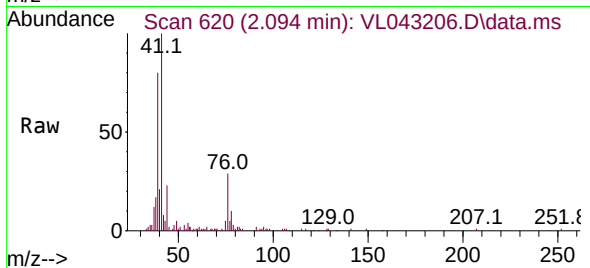
Tgt Ion: 84 Resp: 7297
Ion Ratio Lower Upper
84 100
49 142.0 132.9 199.3
51 47.3 34.8 52.2
86 71.4 48.2 72.2





#21
 Allyl Chloride
 Concen: 0.957 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

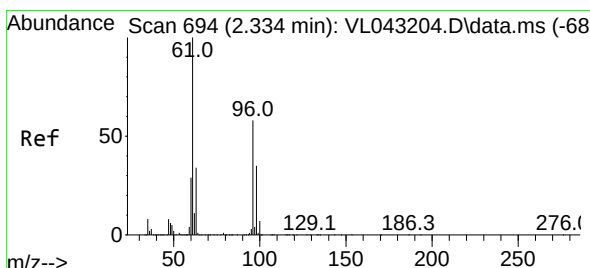
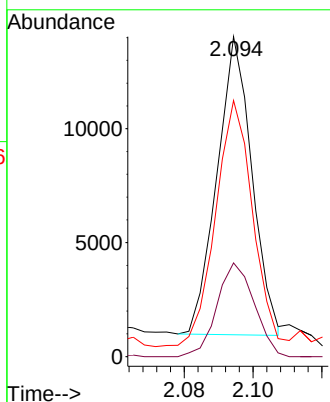
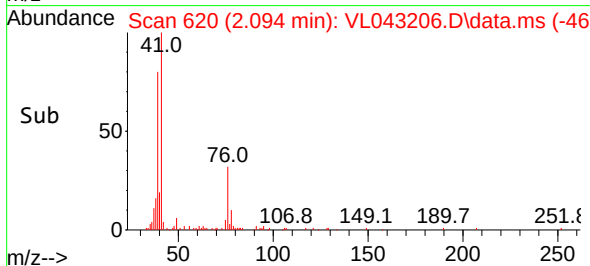
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



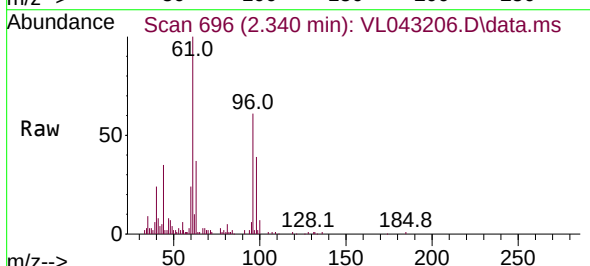
Tgt Ion: 41 Resp: 9198
 Ion Ratio Lower Upper
 41 100
 76 33.5 22.1 33.1
 39 91.7 61.0 91.4

Manual Integrations
 APPROVED

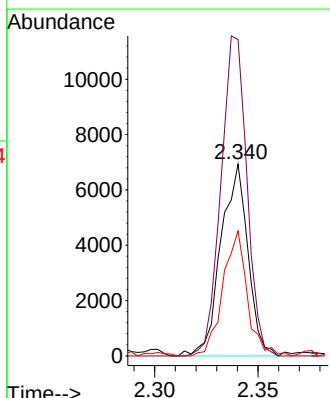
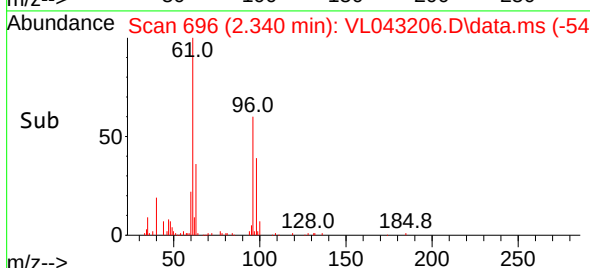
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

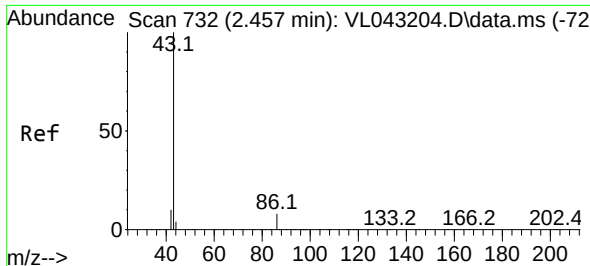


#22
 trans-1,2-Dichloroethene
 Concen: 1.082 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.006 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10



Tgt Ion: 96 Resp: 6313
 Ion Ratio Lower Upper
 96 100
 61 165.0 139.0 208.6
 98 65.1 49.4 74.2





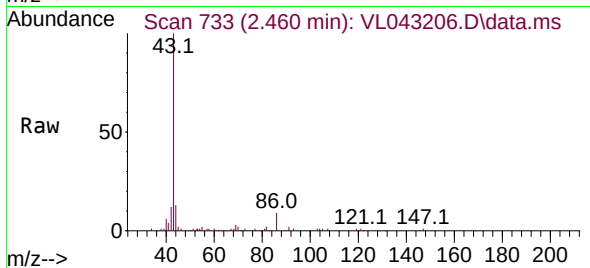
#23
 Vinyl Acetate
 Concen: 0.973 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.003 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

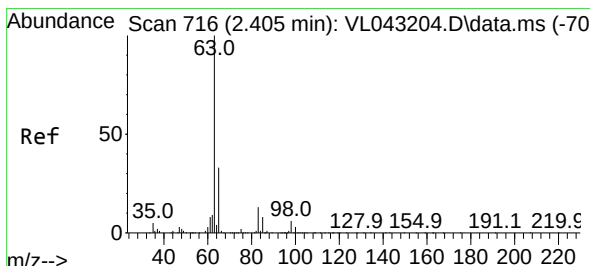
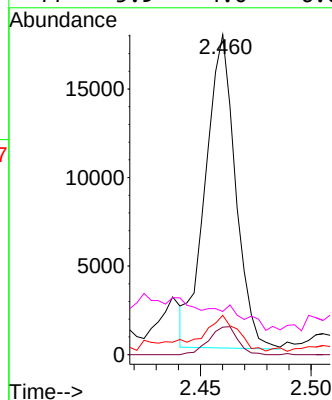
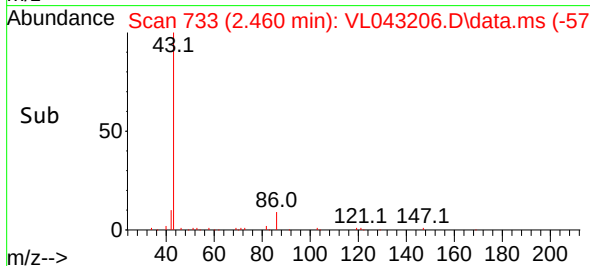


Tgt Ion: 43 Resp: 16779
 Ion Ratio Lower Upper
 43 100
 86 8.8 6.2 9.2
 42 10.4 8.0 12.0
 44 5.9 4.0 6.0

Manual Integrations

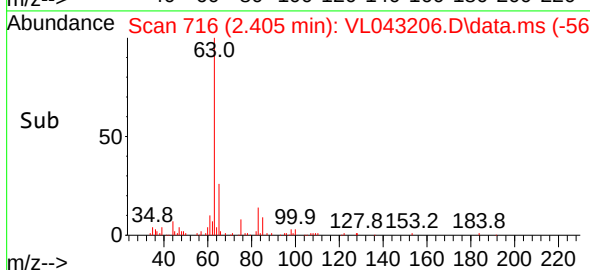
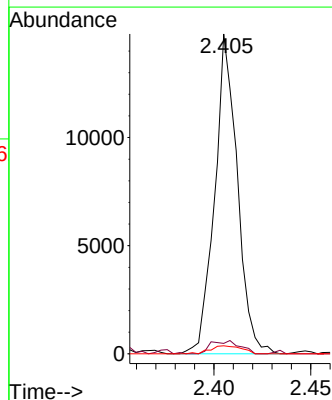
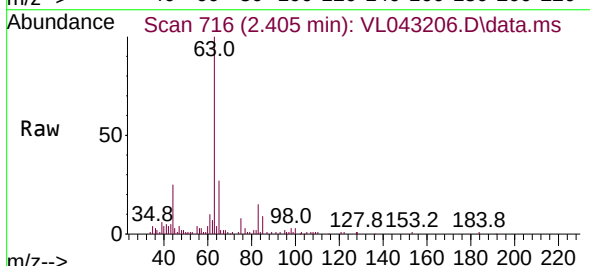
APPROVED

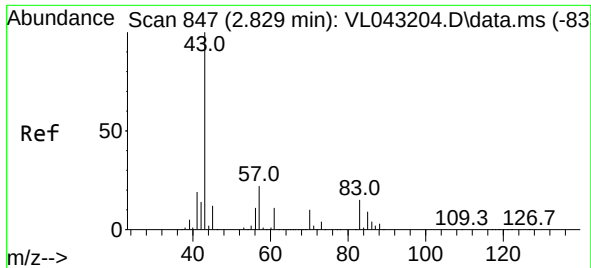
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#24
 1,1-Dichloroethane
 Concen: 1.071 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

Tgt Ion: 63 Resp: 12062
 Ion Ratio Lower Upper
 63 100
 98 2.9 2.8 8.4
 100 2.5 1.3 3.9





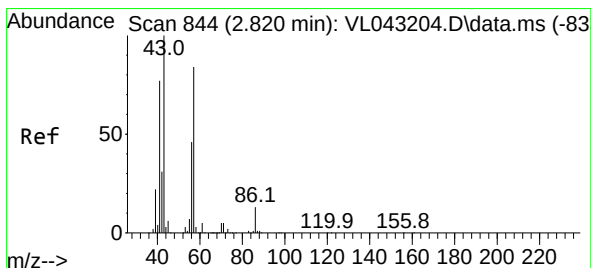
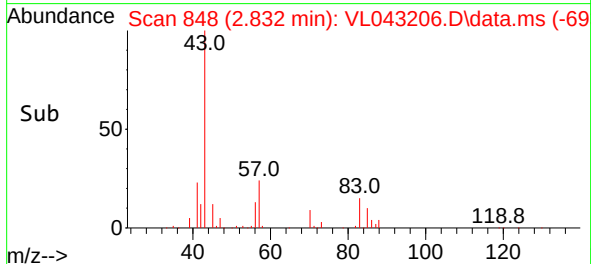
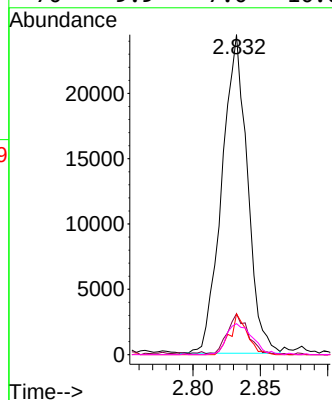
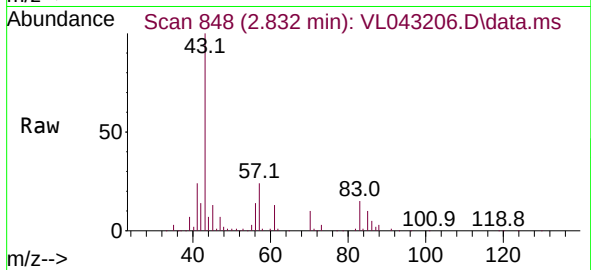
#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 32108
Ion Ratio Lower Upper
43 100
45 11.1 8.1 12.1
61 8.7 7.0 10.4
70 9.9 7.0 10.6

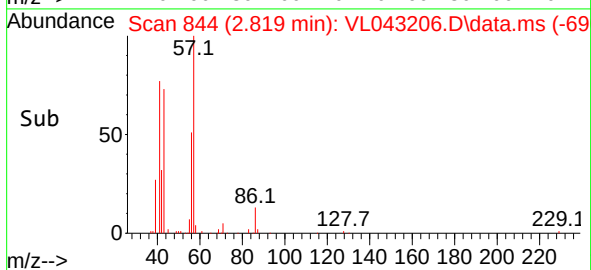
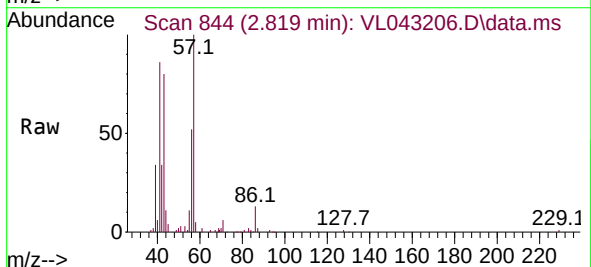
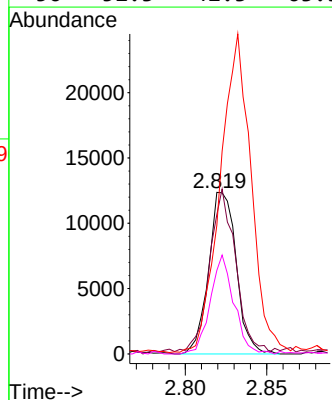
Manual Integrations
APPROVED

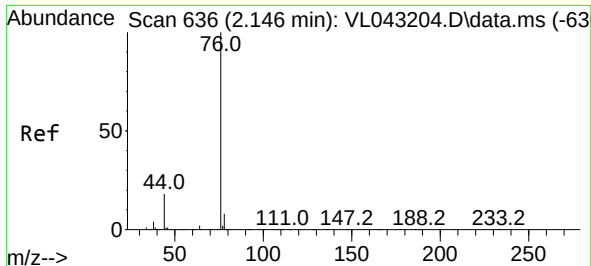
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#26
Hexane
Concen: 1.084 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 57 Resp: 14639
Ion Ratio Lower Upper
57 100
41 96.8 74.6 111.8
43 222.8 179.0 268.4
56 52.3 42.3 63.5





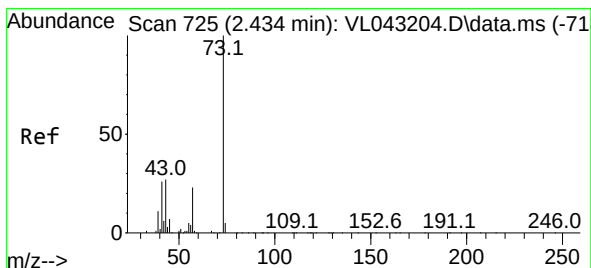
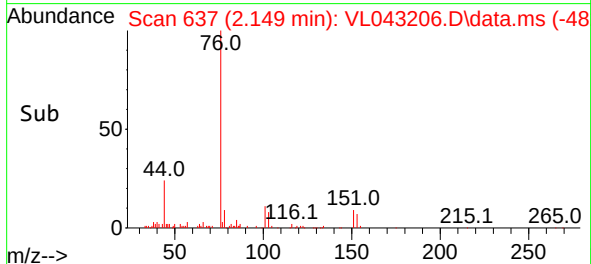
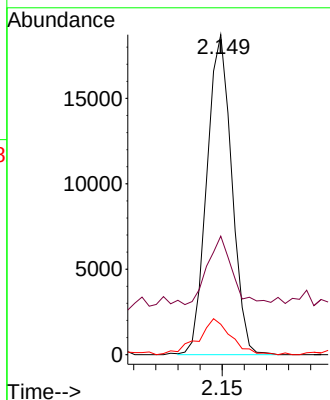
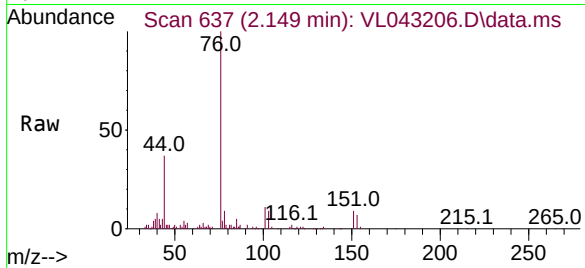
#27
Carbon Disulfide
Concen: 1.062 ppbv
RT: 2.149 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

Tgt Ion: 76 Resp: 1463
Ion Ratio Lower Upper
76 100
44 69.6 16.1 24.1
78 14.8 9.6 14.4

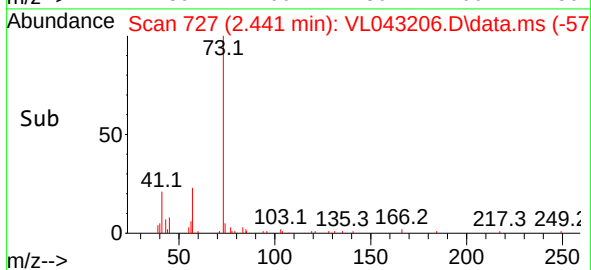
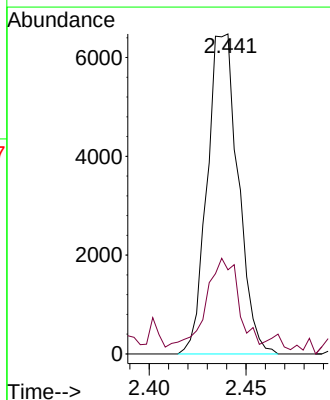
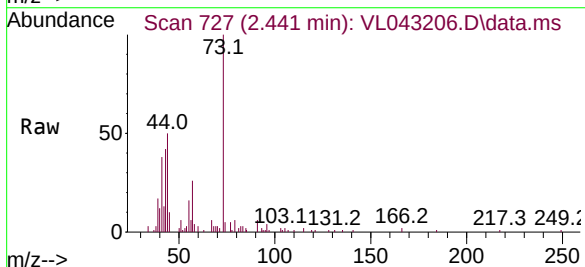
Manual Integrations
APPROVED

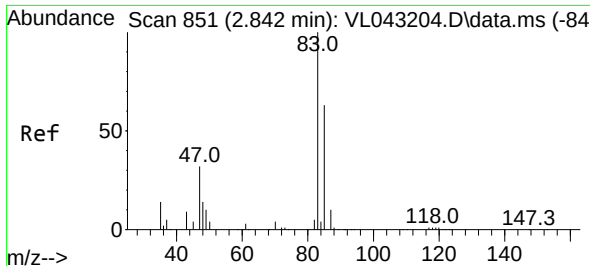
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#28
Methyl tert-Butyl Ether
Concen: 1.092 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 73 Resp: 7236
Ion Ratio Lower Upper
73 100
57 33.1 19.8 29.8





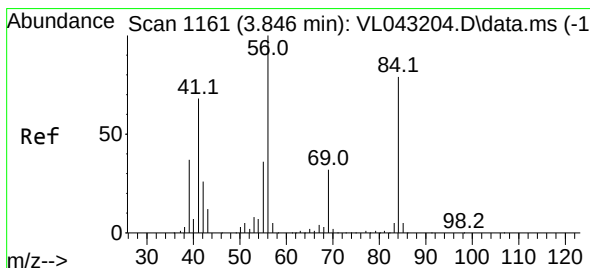
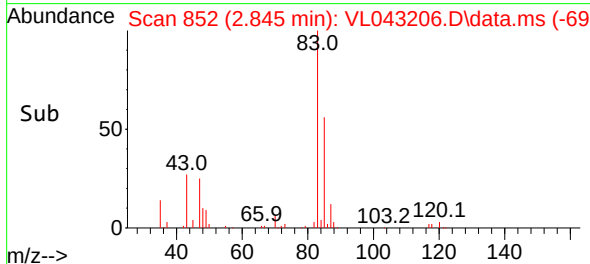
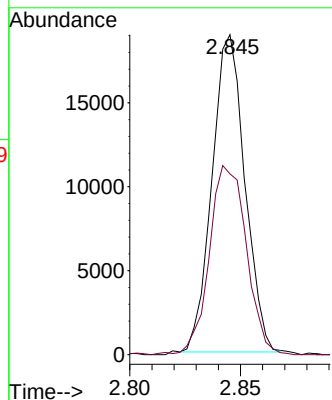
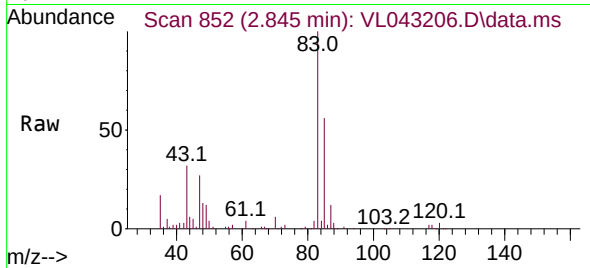
#29
Chloroform
Concen: 1.016 ppbv
RT: 2.845 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 83 Resp: 19509
Ion Ratio Lower Upper
83 100
85 56.3 50.5 75.7

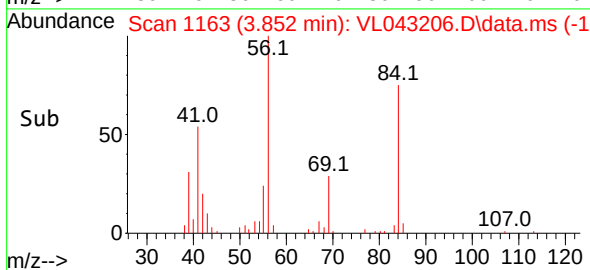
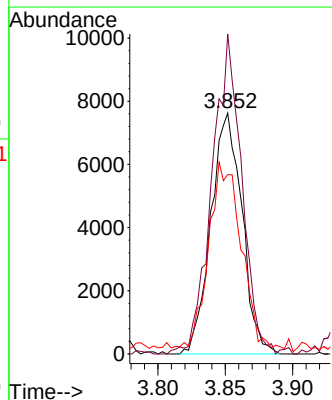
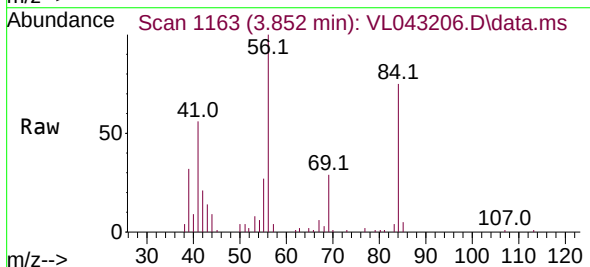
Manual Integrations
APPROVED

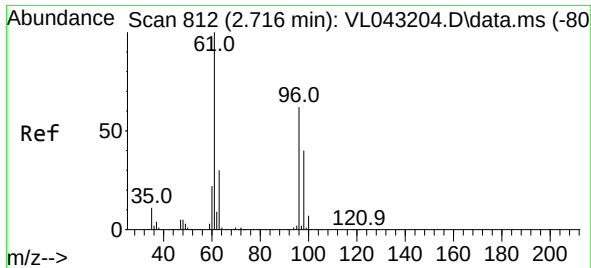
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 1.084 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 84 Resp: 12269
Ion Ratio Lower Upper
84 100
56 127.5 104.7 157.1
41 90.4 69.0 103.6





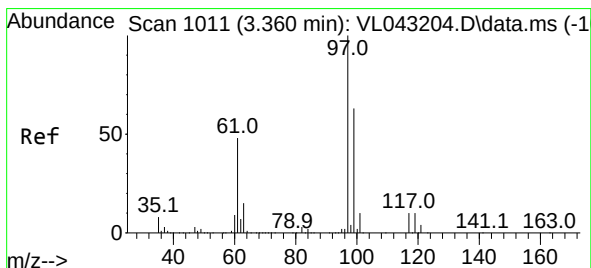
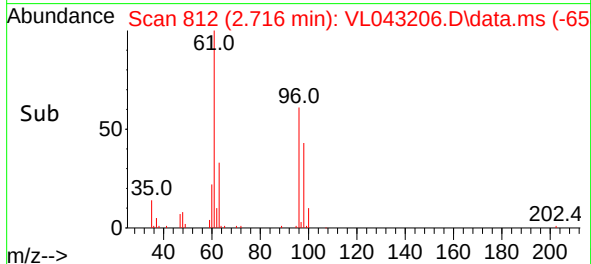
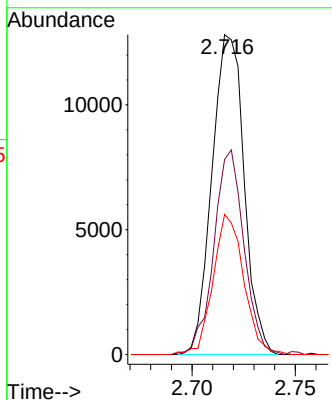
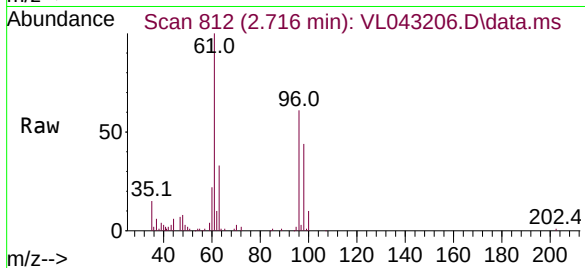
#31
 cis-1,2-Dichloroethene
 Concen: 1.035 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 61 Resp: 13889
 Ion Ratio Lower Upper
 61 100
 96 60.4 49.3 73.9
 98 43.0 32.1 48.1

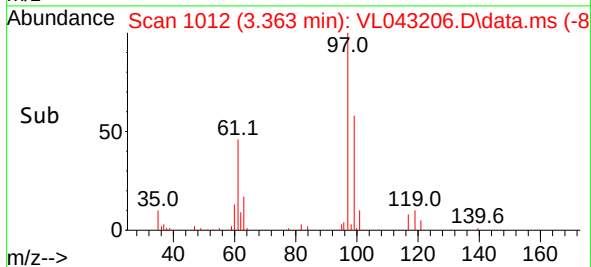
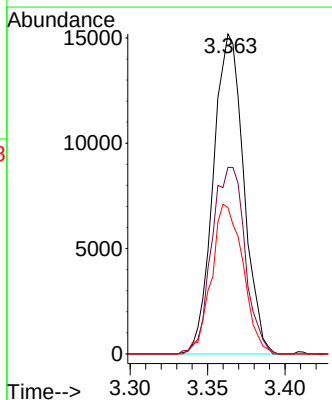
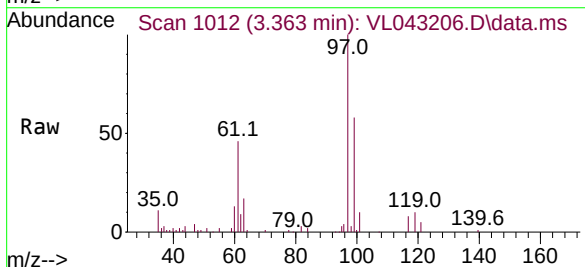
Manual Integrations
 APPROVED

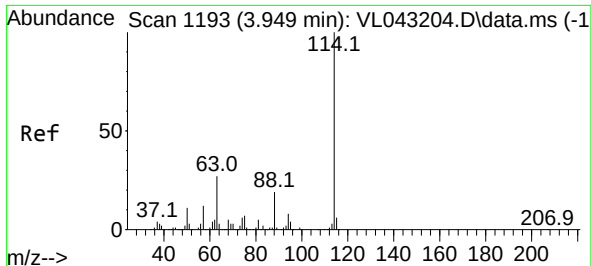
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#32
 1,1,1-Trichloroethane
 Concen: 1.005 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.003 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

Tgt Ion: 97 Resp: 20745
 Ion Ratio Lower Upper
 97 100
 99 63.6 50.3 75.5
 61 48.3 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

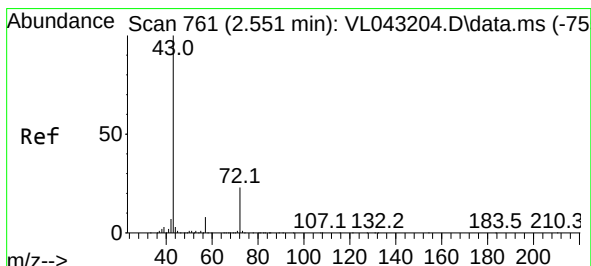
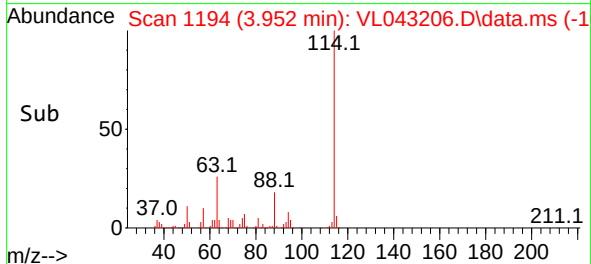
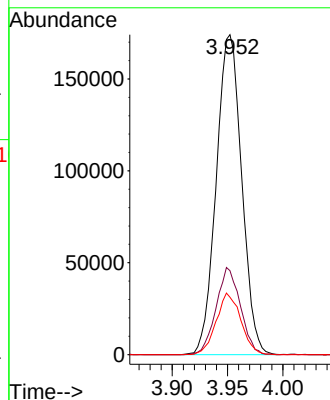
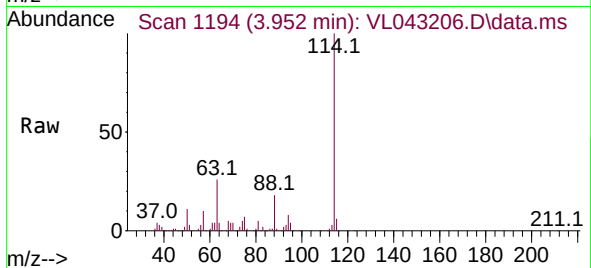
VSTDICC001

Tgt Ion:	114	Resp:	278732
Ion Ratio	Lower	Upper	
114	100		
63	26.0	21.0	31.6
88	18.6	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 1.064 ppbv

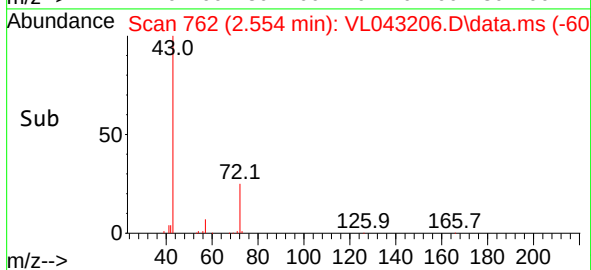
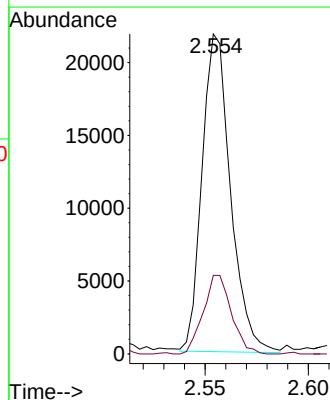
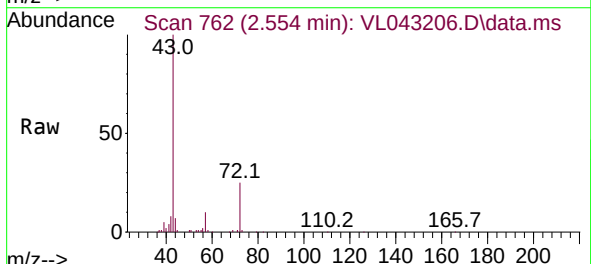
RT: 2.554 min Scan# 762

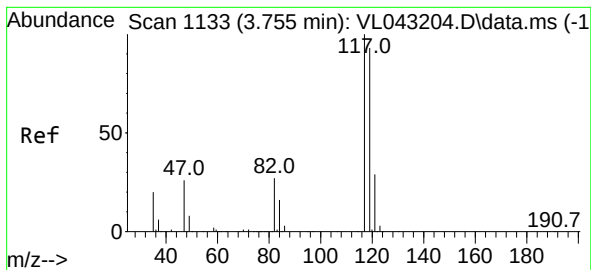
Delta R.T. 0.003 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Tgt Ion:	43	Resp:	20940
Ion Ratio	Lower	Upper	
43	100		
72	24.7	18.1	27.1





#35

Carbon Tetrachloride

Concen: 1.016 ppbv

RT: 3.758 min Scan# 1133

Delta R.T. 0.003 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

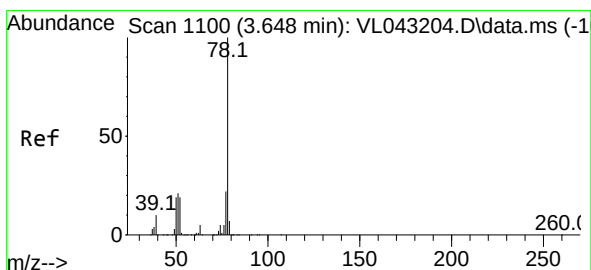
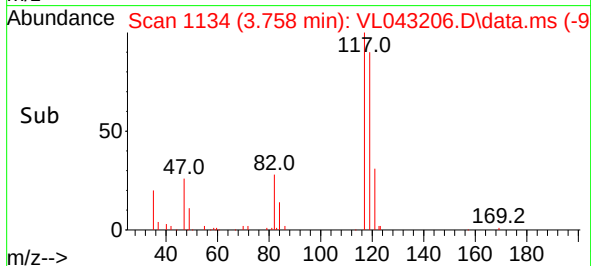
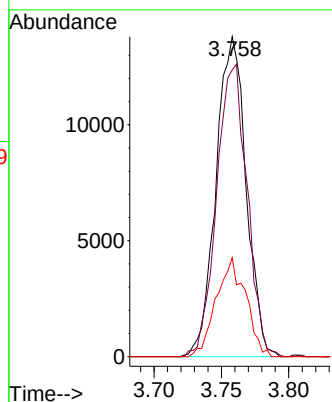
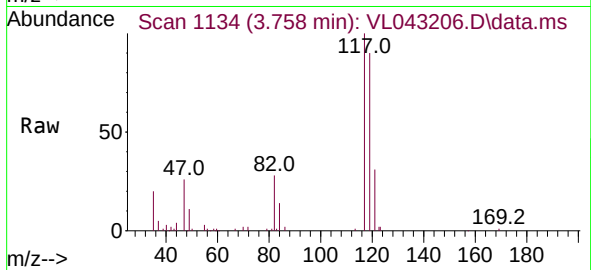
Tgt Ion: 117 Resp: 2149

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.6	112.0
121	30.9	23.2	34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36

Benzene

Concen: 1.046 ppbv

RT: 3.648 min Scan# 1100

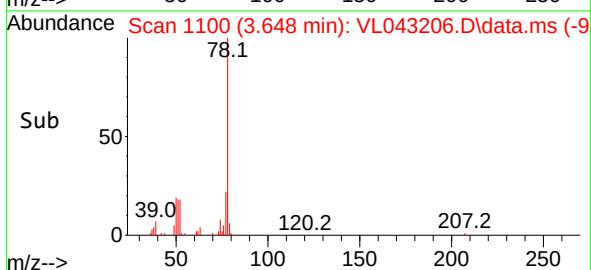
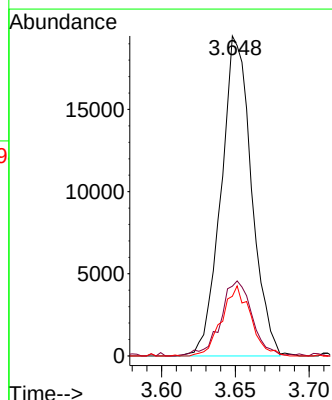
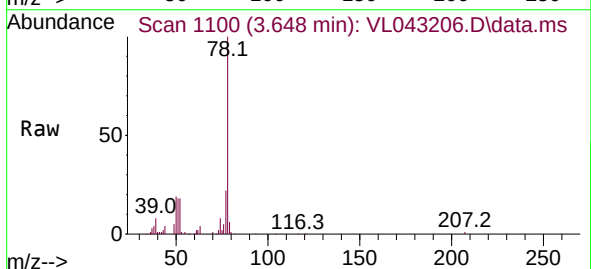
Delta R.T. -0.000 min

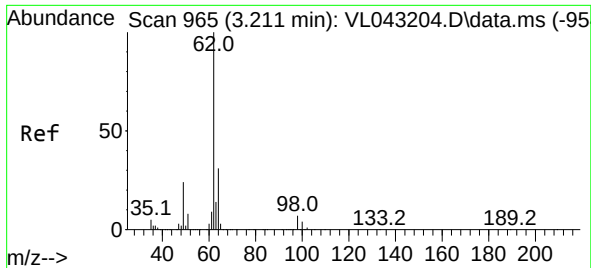
Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Tgt Ion: 78 Resp: 27911

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.5	26.3
50	18.6	15.5	23.3





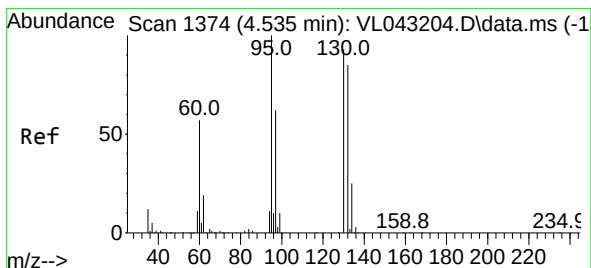
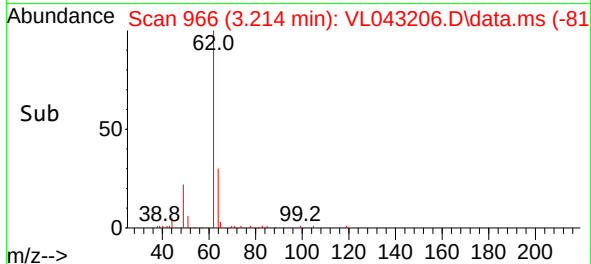
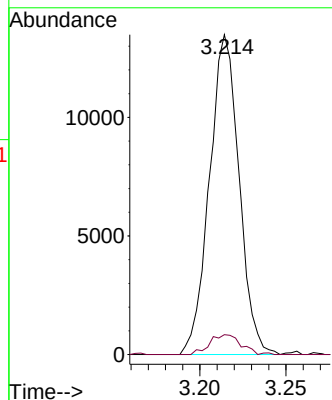
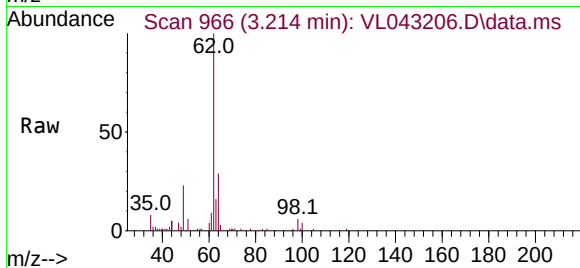
#37
1,2-Dichloroethane
Concen: 1.035 ppbv
RT: 3.214 min Scan# 965
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 16159
Ion Ratio Lower Upper
62 100
98 6.7 5.5 8.3

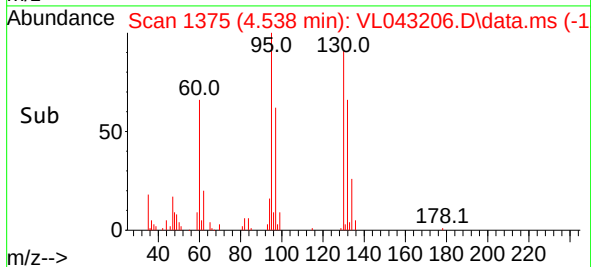
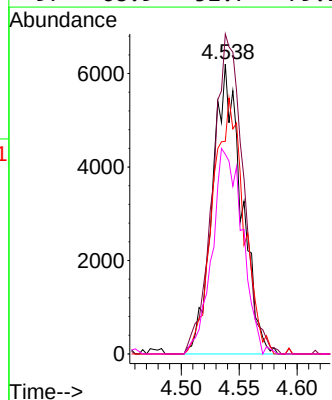
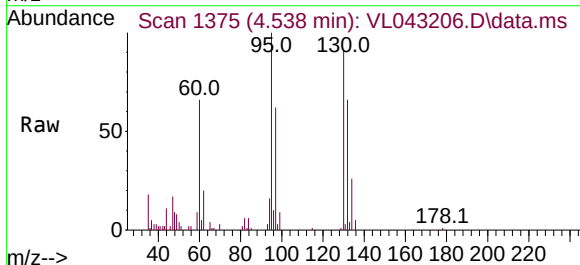
Manual Integrations
APPROVED

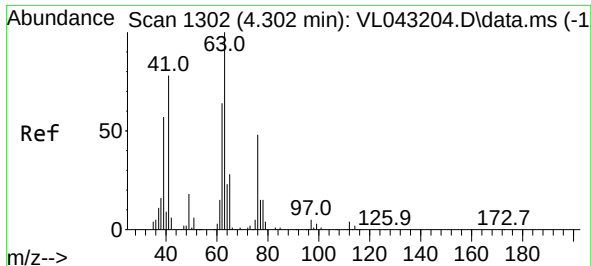
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 1.033 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:130 Resp: 10809
Ion Ratio Lower Upper
130 100
95 110.4 85.7 128.5
132 73.3 73.4 110.0#
97 68.9 52.7 79.1





#39

1,2-Dichloropropane

Concen: 1.039 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.009 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

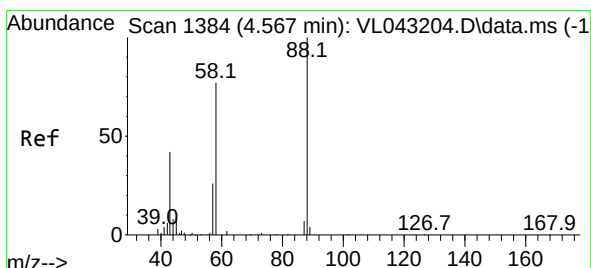
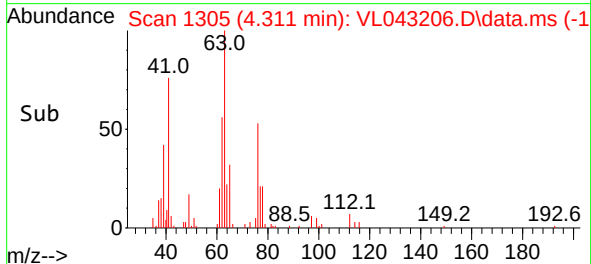
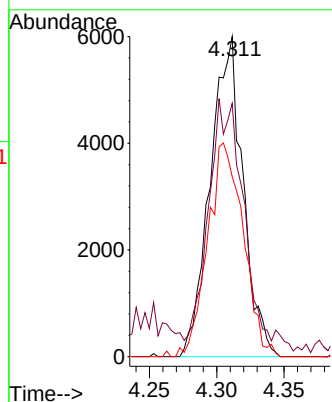
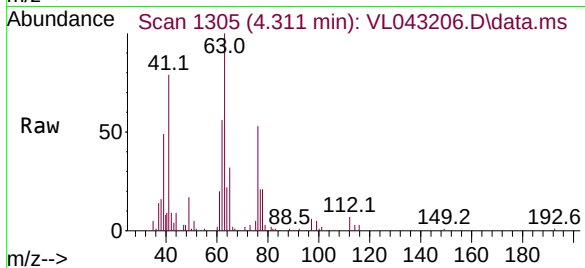
VSTDICC001

Tgt Ion: 63	Resp: 1014
Ion Ratio	Lower Upper
63	100
41	70.5 62.6 93.8
62	56.2 51.0 76.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#40

1,4-Dioxane

Concen: 1.051 ppbv m

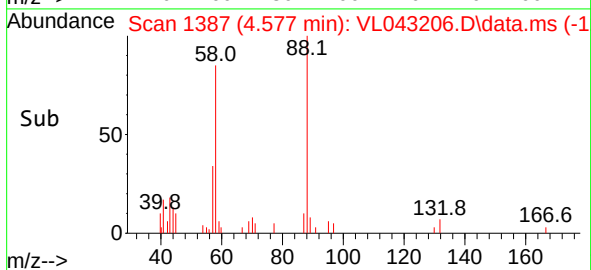
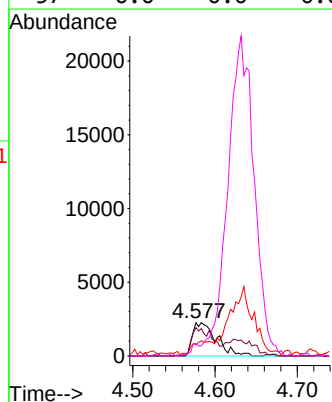
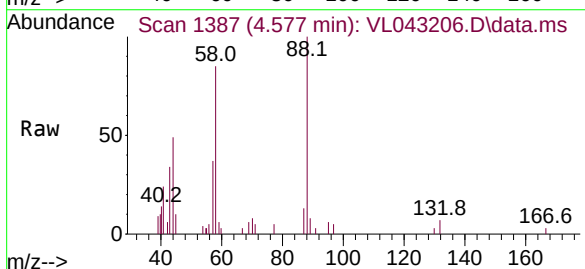
RT: 4.577 min Scan# 1387

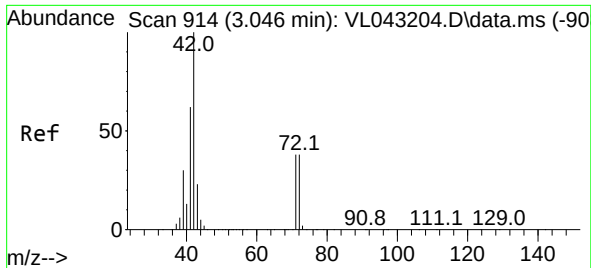
Delta R.T. 0.009 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Tgt Ion: 88	Resp: 4616
Ion Ratio	Lower Upper
88	100
58	69.6 63.0 94.6
43	0.0 32.5 48.7#
57	0.0 0.0 0.0





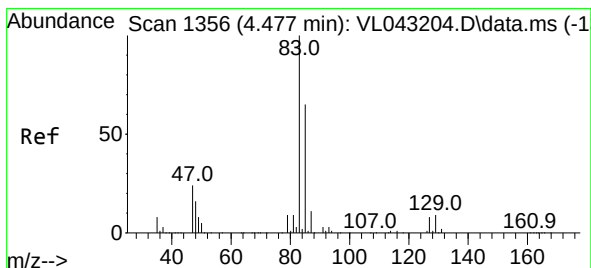
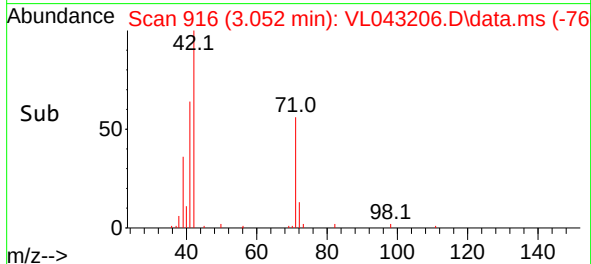
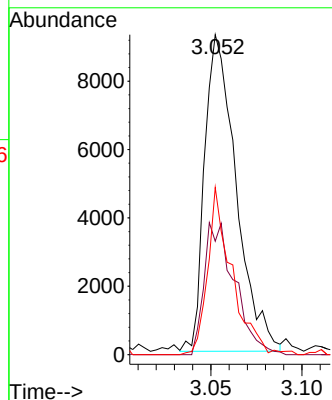
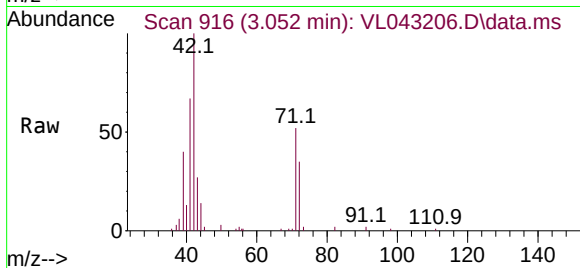
#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 42 Resp: 11176
Ion Ratio Lower Upper
42 100
72 40.2 30.6 46.0
71 40.4 30.5 45.7

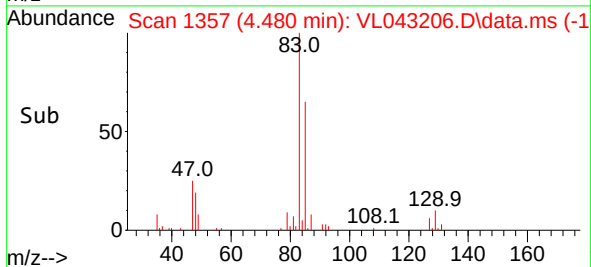
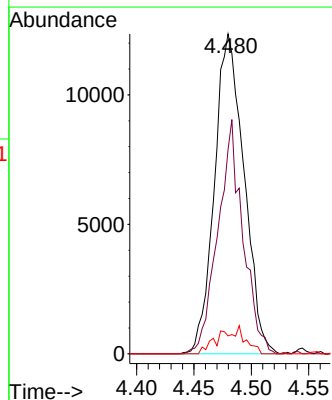
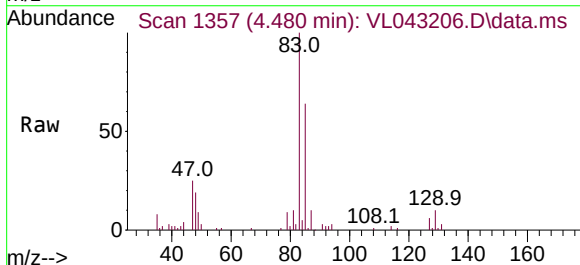
Manual Integrations
APPROVED

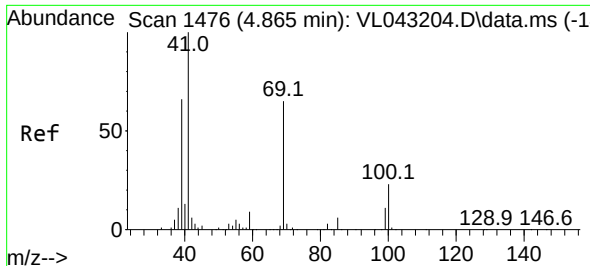
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#42
Bromodichloromethane
Concen: 1.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 83 Resp: 22150
Ion Ratio Lower Upper
83 100
85 63.8 51.7 77.5
127 5.6 6.3 9.5#





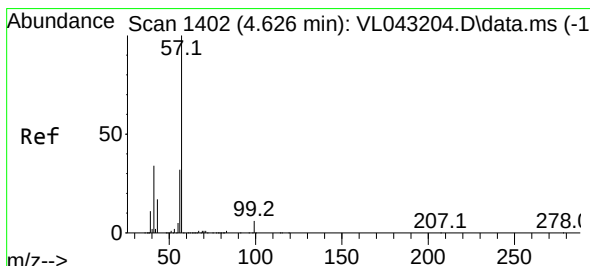
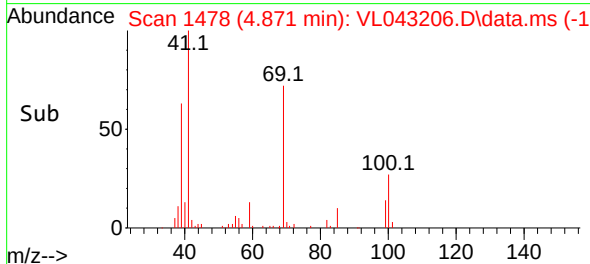
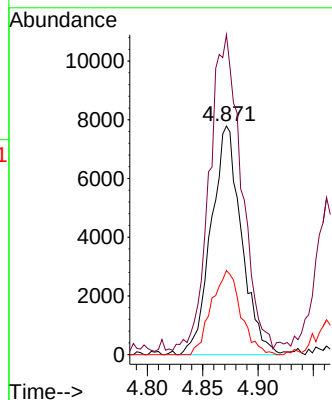
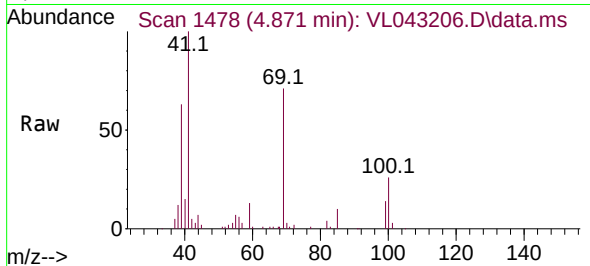
#43
Methyl Methacrylate
Concen: 1.046 ppbv
RT: 4.871 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 1482
Ion Ratio Lower Upper
69 100
41 148.1 126.7 190.1
100 35.7 28.6 43.0

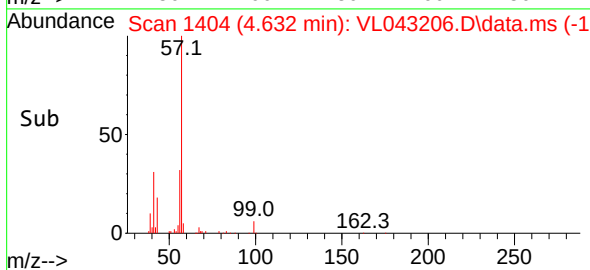
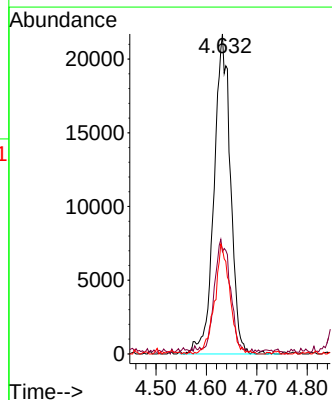
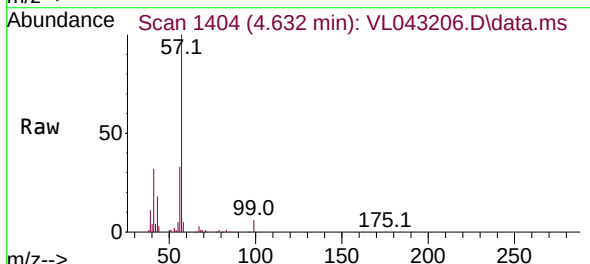
Manual Integrations
APPROVED

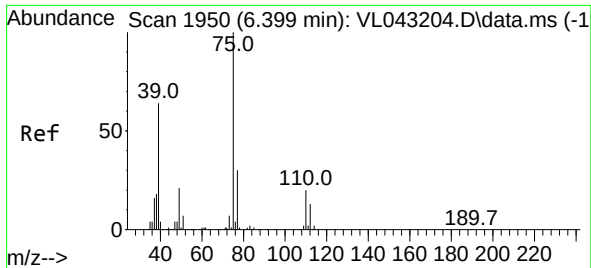
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#44
2,2,4-Trimethylpentane
Concen: 1.073 ppbv m
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

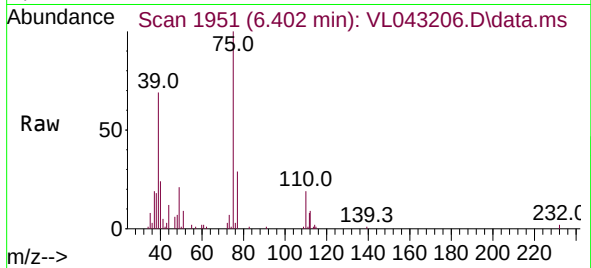
Tgt Ion: 57 Resp: 49203
Ion Ratio Lower Upper
57 100
41 37.7 28.0 42.0
56 32.0 25.6 38.4





#45
 t-1,3-Dichloropropene
 Concen: 0.996 ppbv m
 RT: 6.402 min Scan# 1950
 Delta R.T. 0.003 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

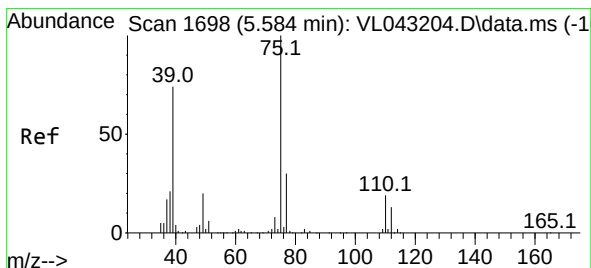
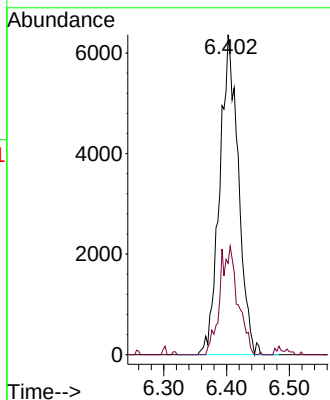
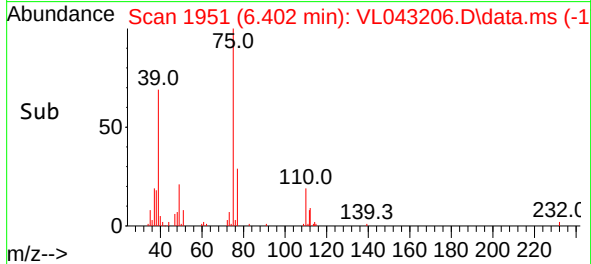
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 75 Resp: 13149
 Ion Ratio Lower Upper
 75 100
 77 28.5 24.3 36.5

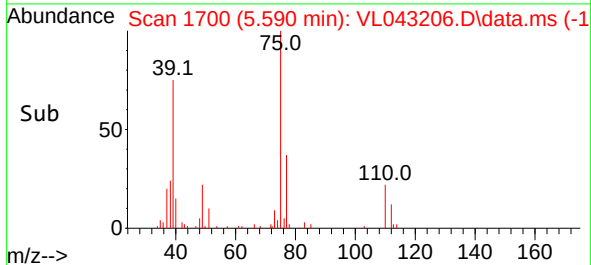
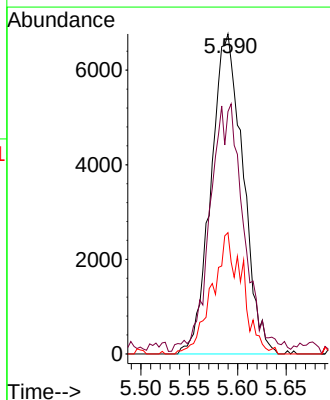
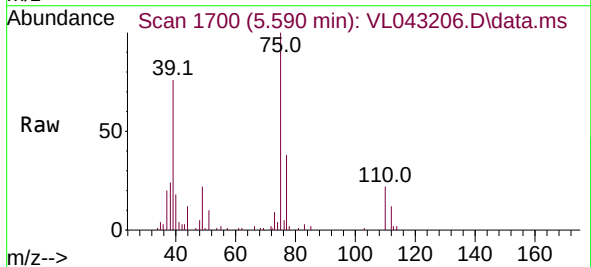
Manual Integrations
 APPROVED

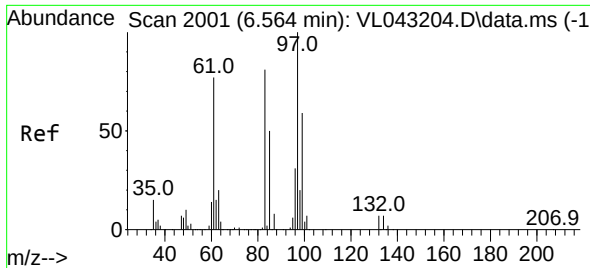
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#46
 cis-1,3-Dichloropropene
 Concen: 1.001 ppbv
 RT: 5.590 min Scan# 1700
 Delta R.T. 0.006 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

Tgt Ion: 75 Resp: 15527
 Ion Ratio Lower Upper
 75 100
 39 72.5 59.1 88.7
 77 37.9 24.2 36.2#





#47
1,1,2-Trichloroethane
Concen: 0.995 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

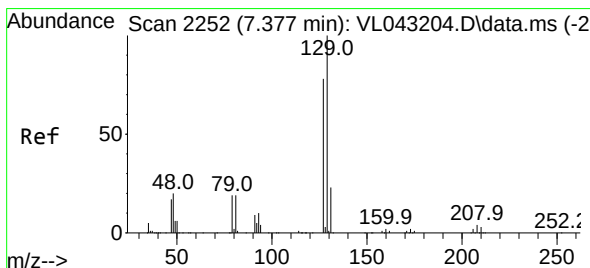
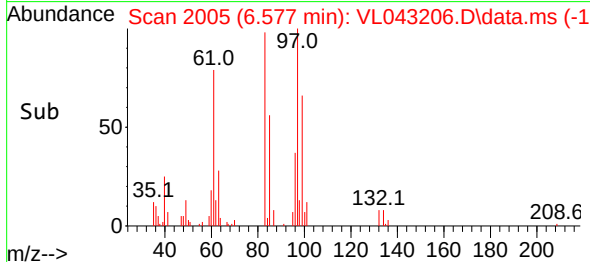
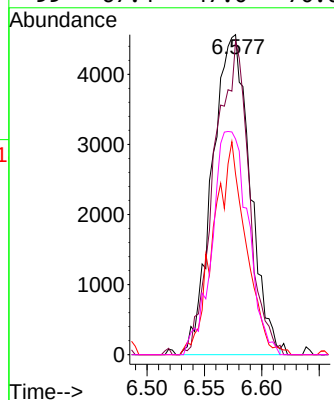
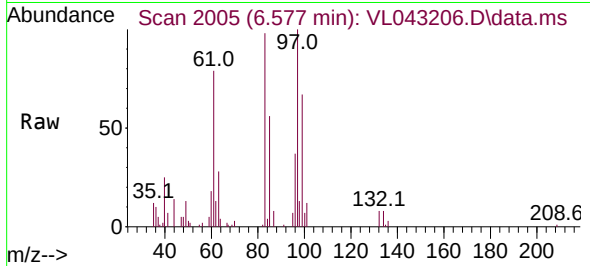
VSTDICC001

Tgt Ion: 97 Resp: 10369
Ion Ratio Lower Upper
97 100
83 97.9 64.6 97.0
85 56.4 39.4 59.2
99 67.4 47.0 70.6

Manual Integrations

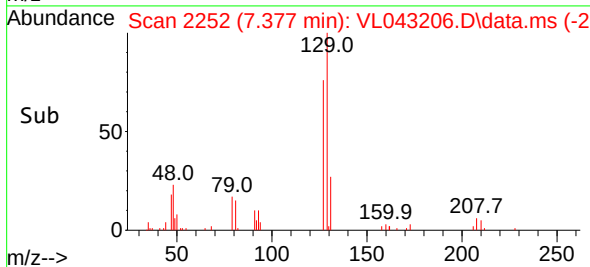
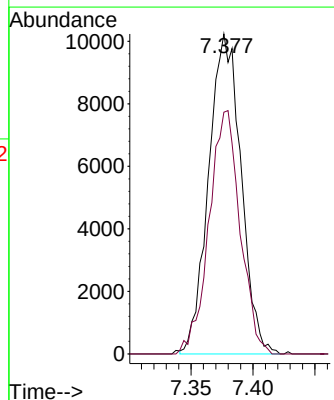
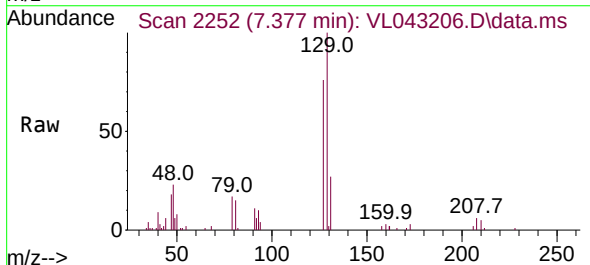
APPROVED

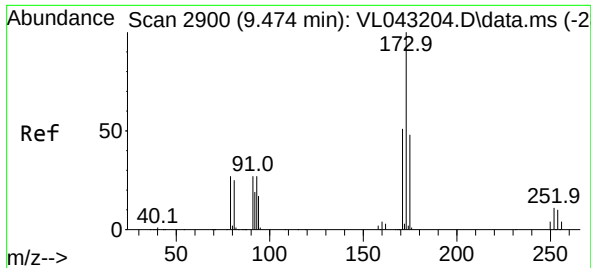
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#48
Dibromochloromethane
Concen: 1.041 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:129 Resp: 18560
Ion Ratio Lower Upper
129 100
127 72.8 39.3 117.9





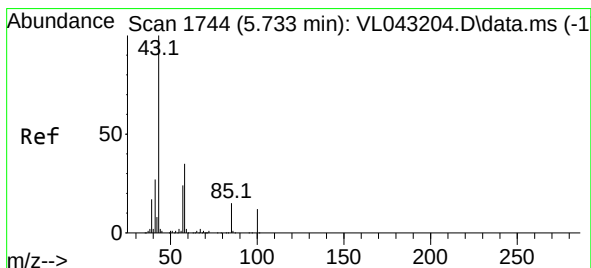
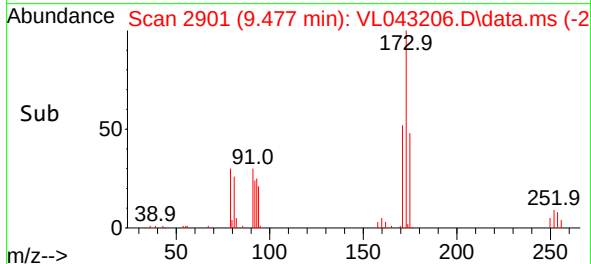
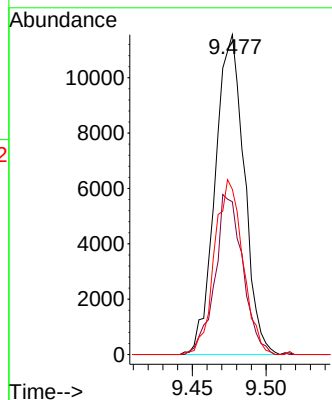
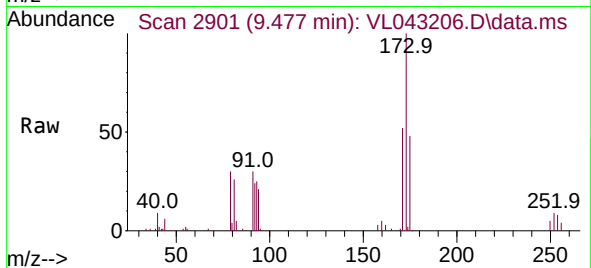
#49
Bromoform
Concen: 1.004 ppbv
RT: 9.477 min Scan# 2900
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:173 Resp: 1585
Ion Ratio Lower Upper
173 100
175 47.9 38.6 58.0
171 53.5 40.6 61.0

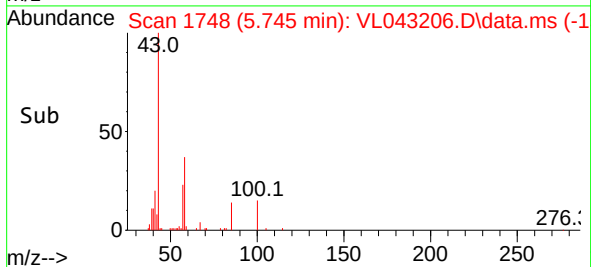
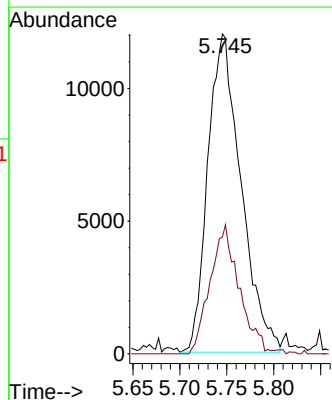
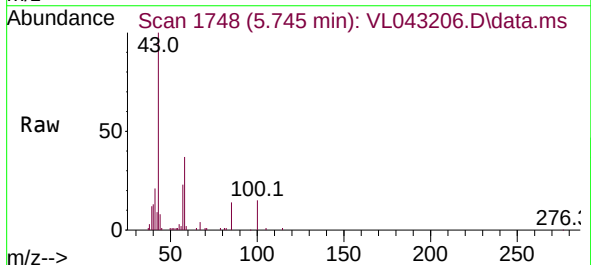
Manual Integrations
APPROVED

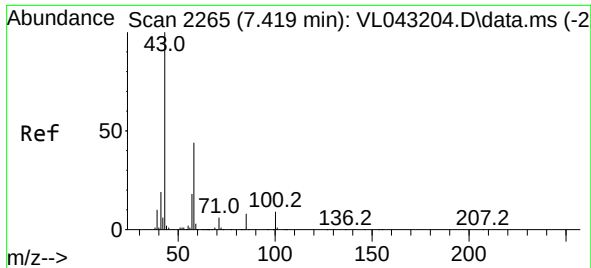
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 1.067 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 29560
Ion Ratio Lower Upper
43 100
58 36.1 28.4 42.6





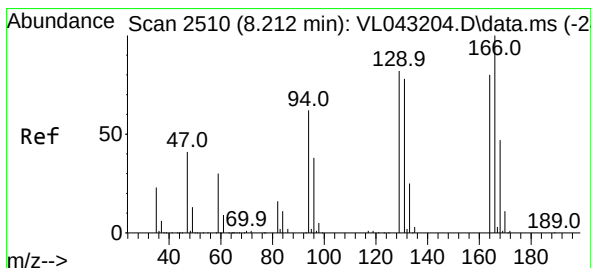
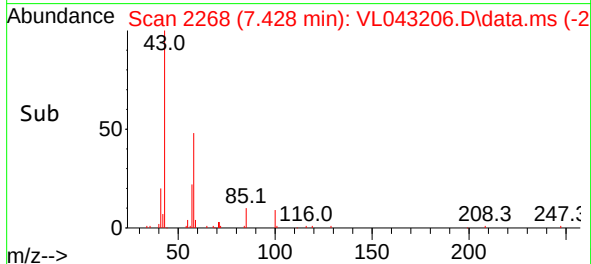
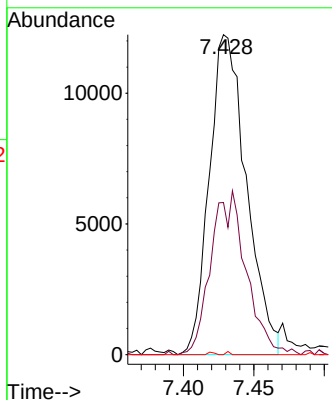
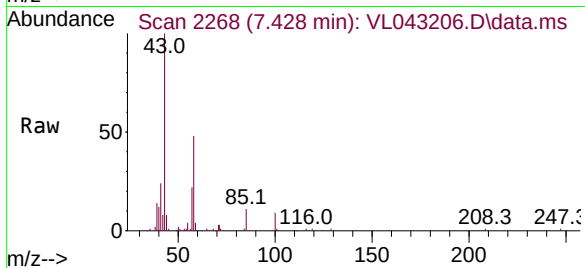
#51
2-Hexanone
Concen: 1.043 ppbv
RT: 7.428 min Scan# 2111
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 22438
Ion Ratio Lower Upper
43 100
58 49.4 38.4 57.6
98 0.2 0.0 0.0

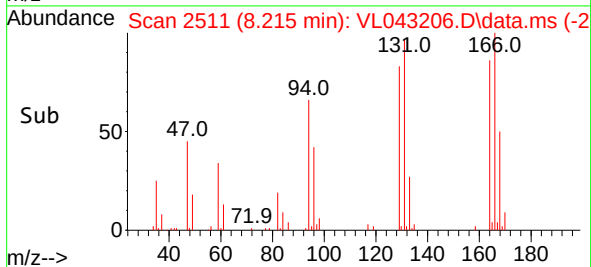
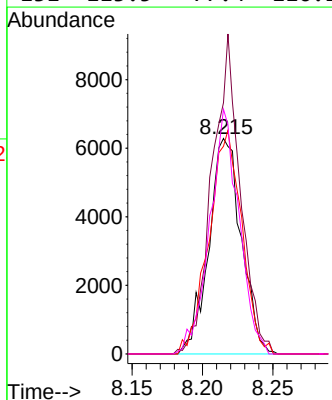
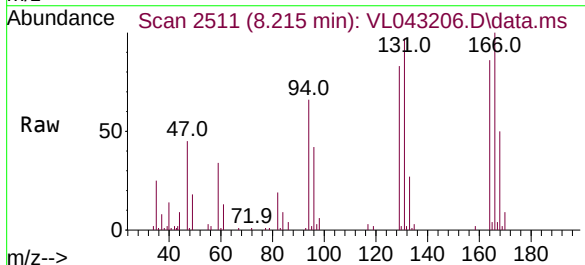
Manual Integrations
APPROVED

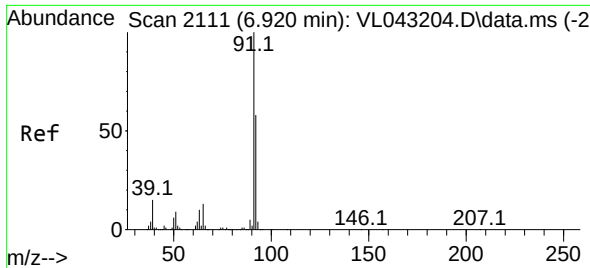
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 1.015 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

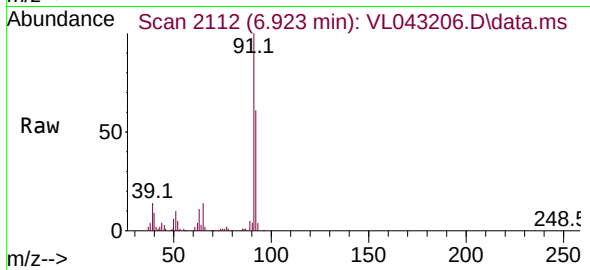
Tgt Ion:164 Resp: 10080
Ion Ratio Lower Upper
164 100
166 116.5 99.4 149.2
129 96.3 81.8 122.8
131 113.5 77.4 116.2





#53
Toluene
Concen: 1.036 ppbv
RT: 6.923 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

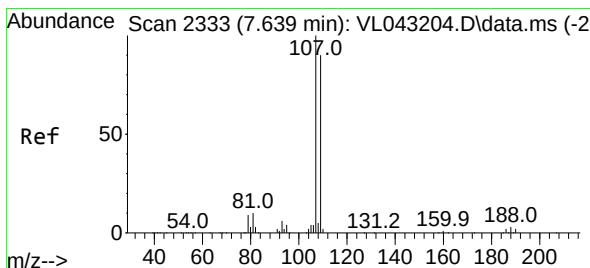
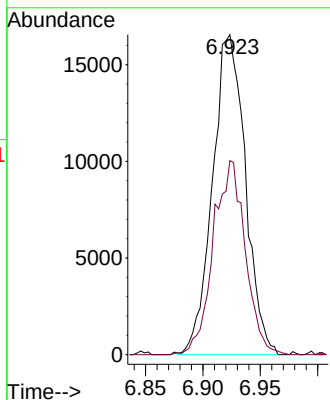
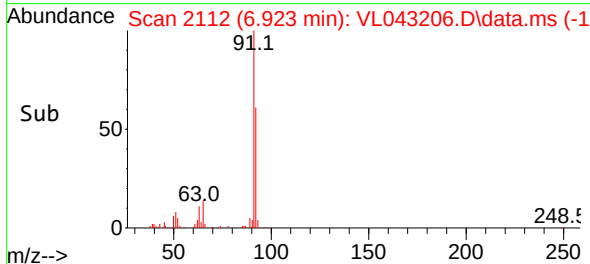
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



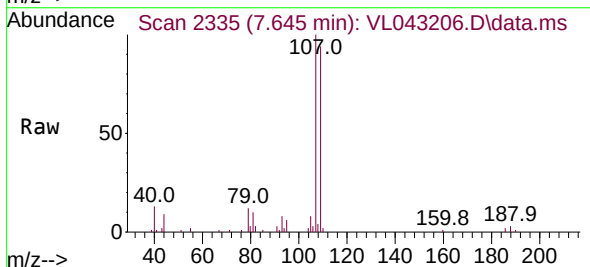
Tgt Ion: 91 Resp: 3295
Ion Ratio Lower Upper
91 100
92 59.0 47.4 71.0

Manual Integrations
APPROVED

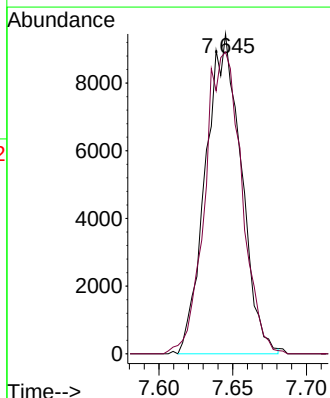
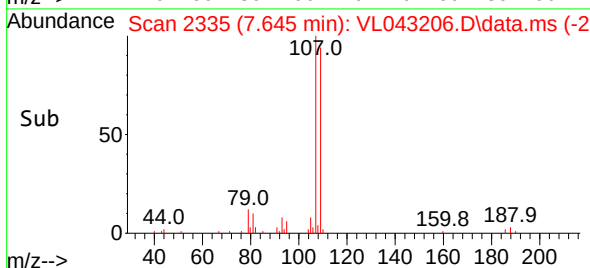
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

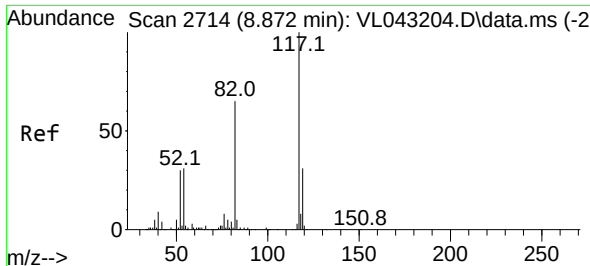


#54
1,2-Dibromoethane
Concen: 1.040 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10



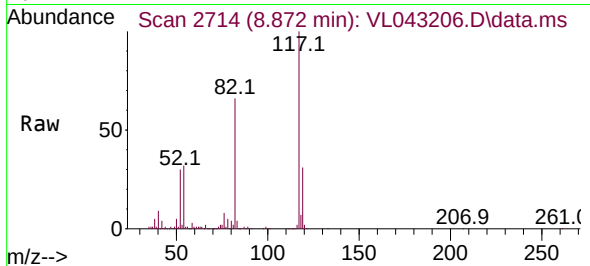
Tgt Ion:107 Resp: 15865
Ion Ratio Lower Upper
107 100
109 93.3 72.1 108.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

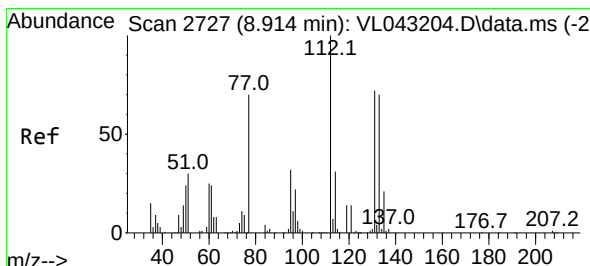
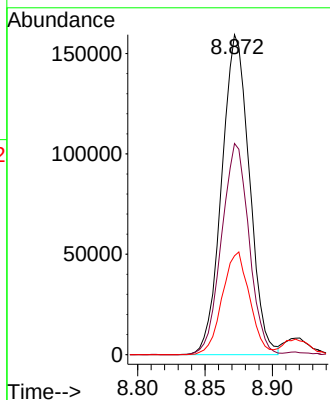
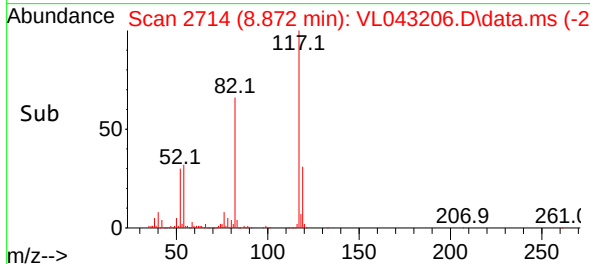
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



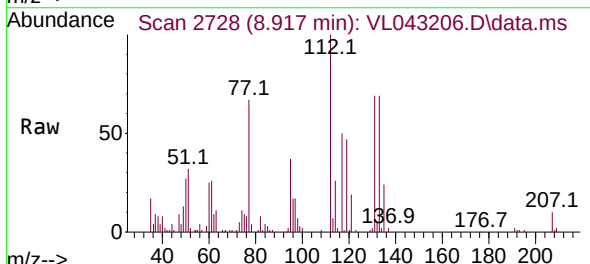
Tgt Ion:117 Resp: 227998
Ion Ratio Lower Upper
117 100
82 66.2 56.1 84.1
119 32.1 25.0 37.6

Manual Integrations
APPROVED

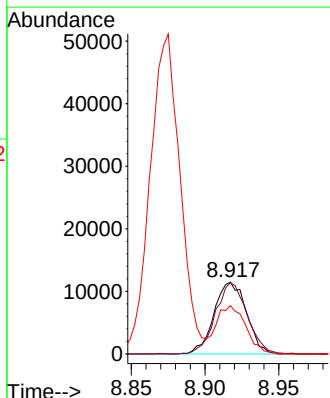
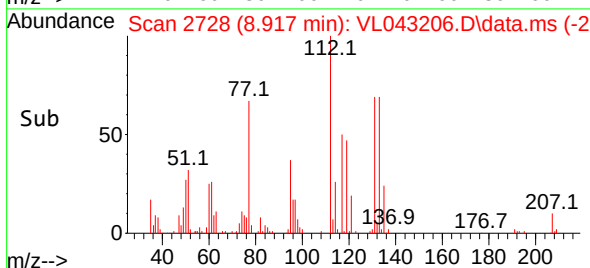
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

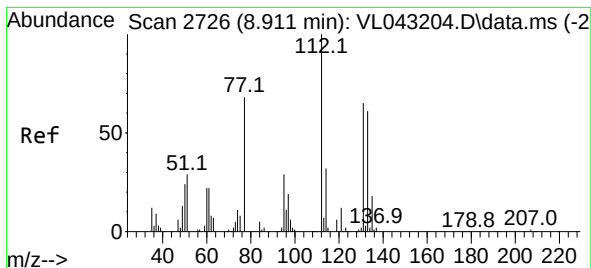


#56
1,1,1,2-Tetrachloroethane
Concen: 1.046 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10



Tgt Ion:131 Resp: 17535
Ion Ratio Lower Upper
131 100
133 97.3 77.4 116.2
119 60.6 49.1 73.7





#57

Chlorobenzene

Concen: 1.060 ppbv

RT: 8.914 min Scan# 2726

Delta R.T. 0.003 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 112 Resp: 24806

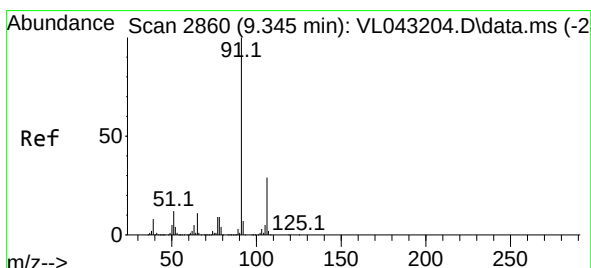
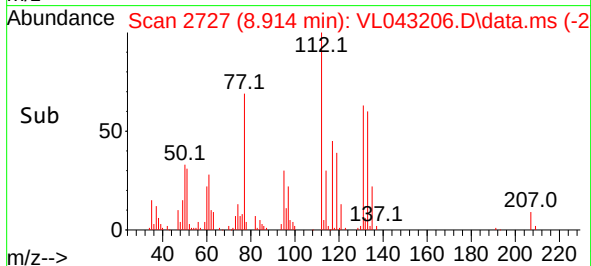
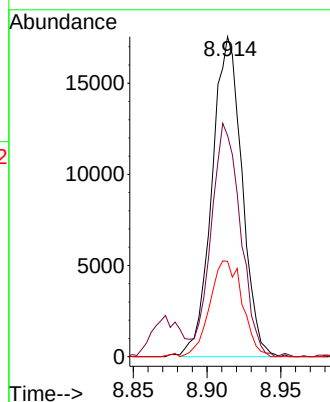
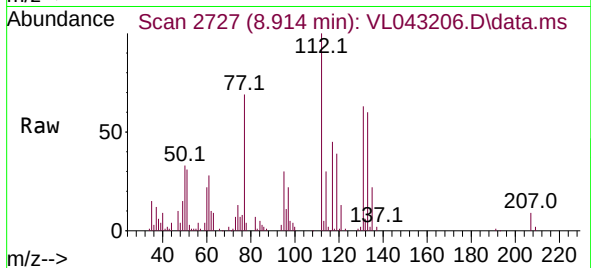
Ion	Ratio	Lower	Upper
112	100		
77	68.6	55.5	83.3
114	29.8	29.1	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#58

Ethyl Benzene

Concen: 1.059 ppbv

RT: 9.344 min Scan# 2860

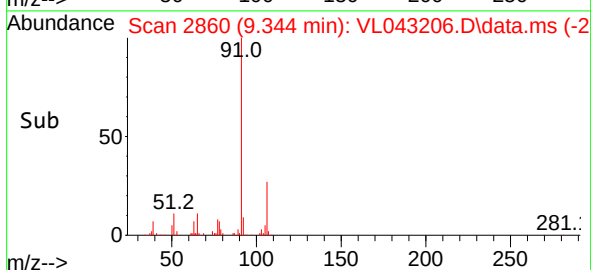
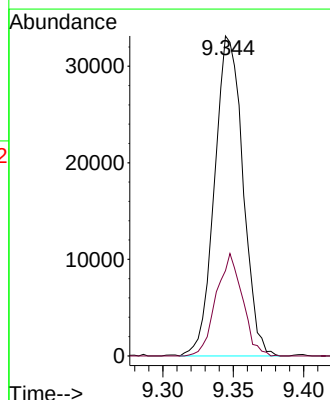
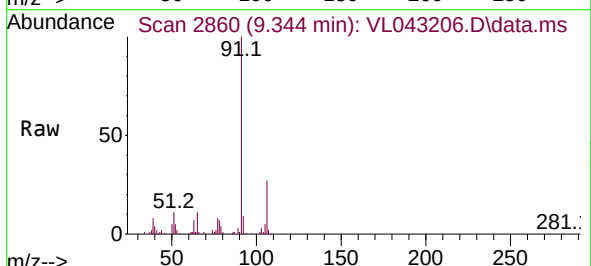
Delta R.T. -0.000 min

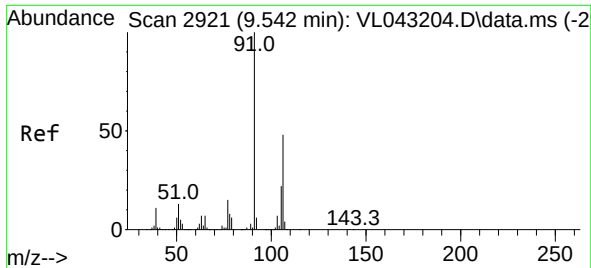
Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 46455

Ion	Ratio	Lower	Upper
91	100		
106	26.6	22.8	34.2





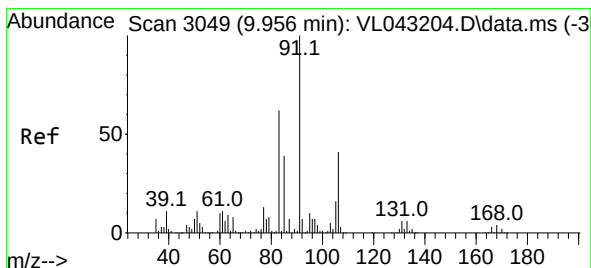
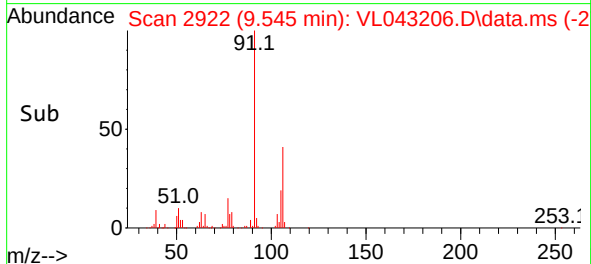
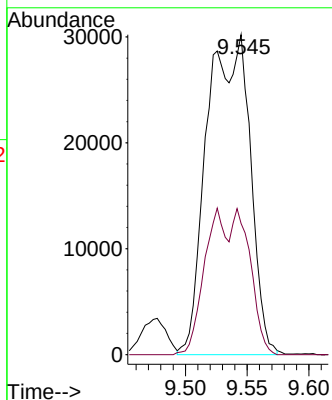
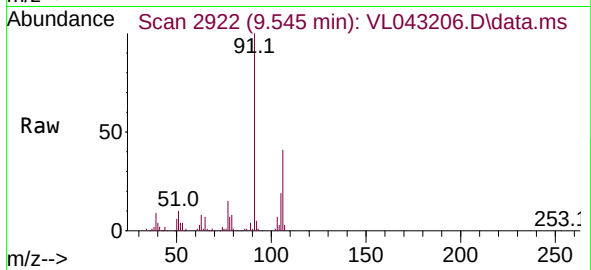
#59
m/p-Xylene
Concen: 2.080 ppbv m
RT: 9.545 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 7346
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1

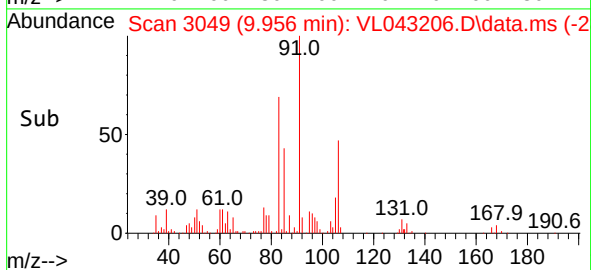
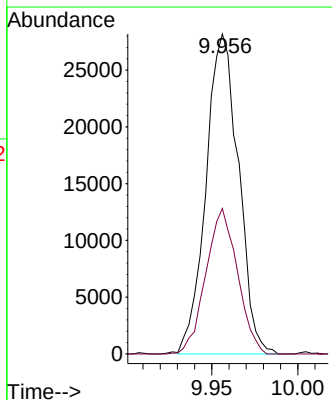
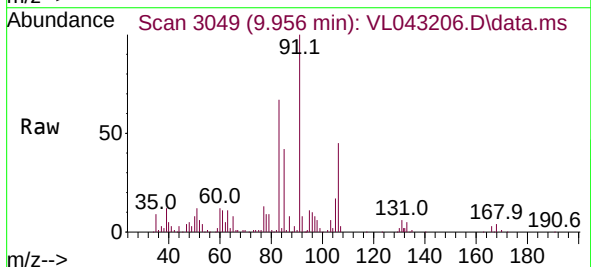
Manual Integrations
APPROVED

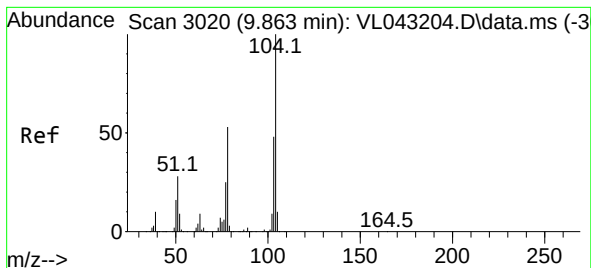
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 1.054 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 37054
Ion Ratio Lower Upper
91 100
106 44.1 20.9 62.8





#61

Styrene

Concen: 1.023 ppbv

RT: 9.866 min Scan# 3020

Delta R.T. 0.003 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

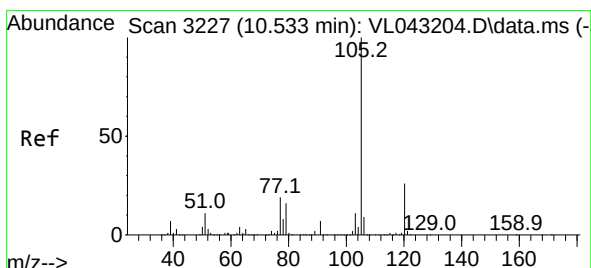
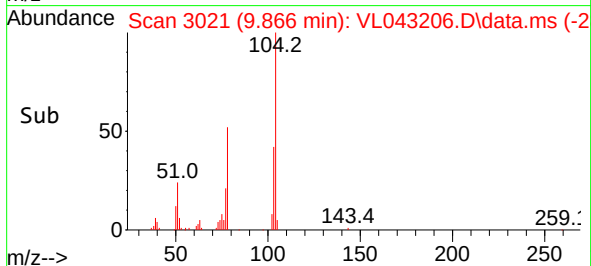
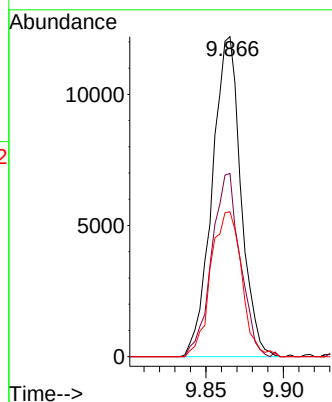
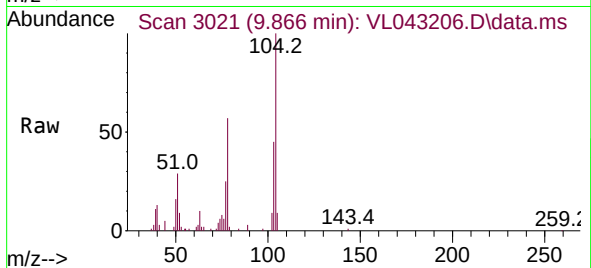
VSTDIC001

Tgt Ion:104	Resp:	15730
Ion Ratio	Lower	Upper
104	100	
78	56.9	42.1 63.1
103	48.6	37.2 55.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#62

Isopropylbenzene

Concen: 1.068 ppbv

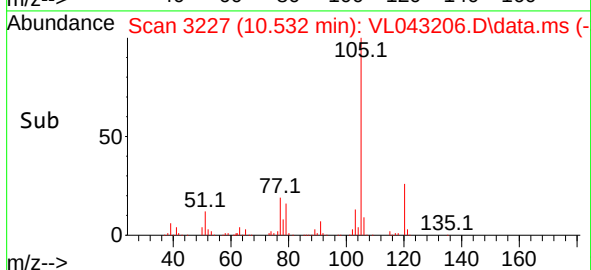
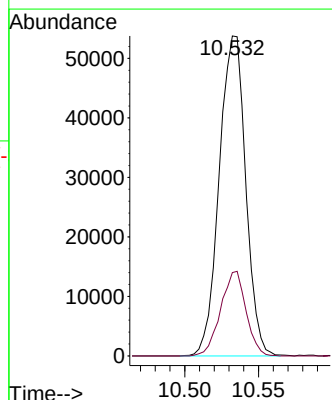
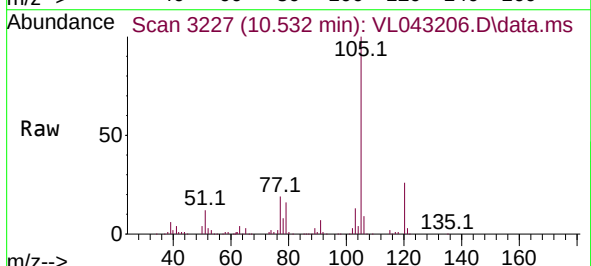
RT: 10.532 min Scan# 3227

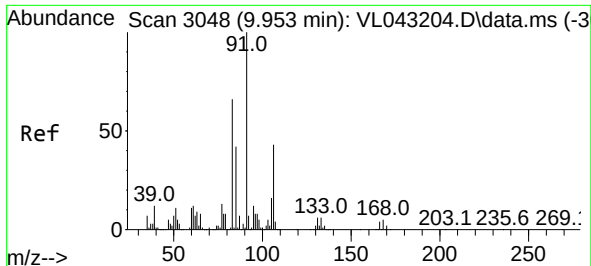
Delta R.T. -0.000 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Tgt Ion:105	Resp:	67163
Ion Ratio	Lower	Upper
105	100	
120	25.2	19.8 29.8





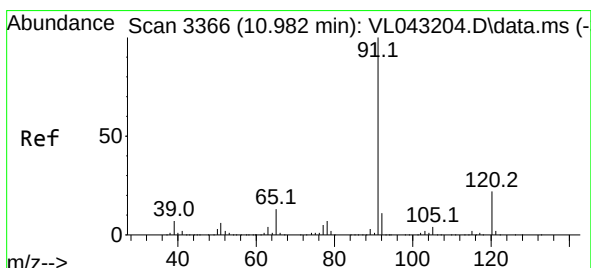
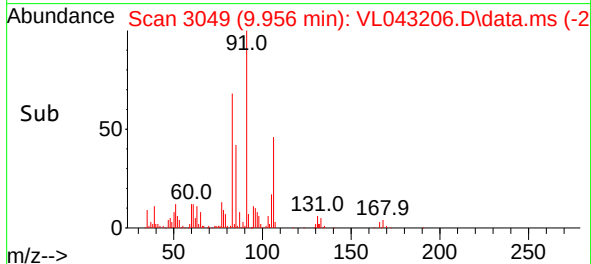
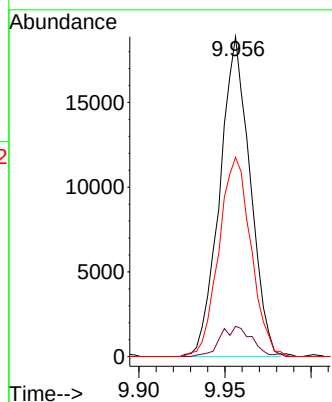
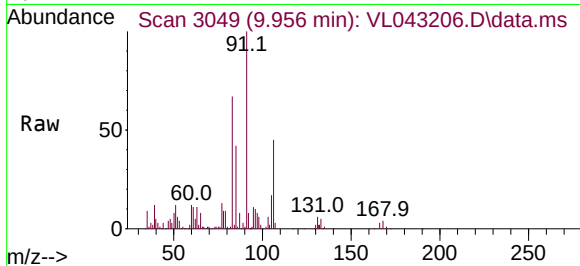
#63
1,1,2,2-Tetrachloroethane
Concen: 1.035 ppbv
RT: 9.956 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 83 Resp: 23083
Ion Ratio Lower Upper
83 100
131 10.0 4.8 14.3
85 66.2 31.9 95.9

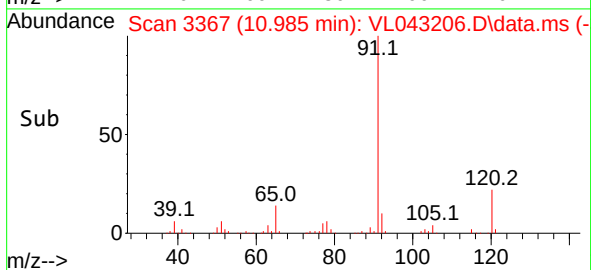
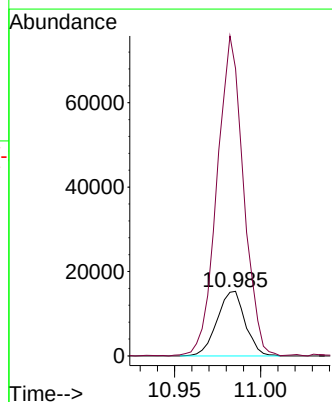
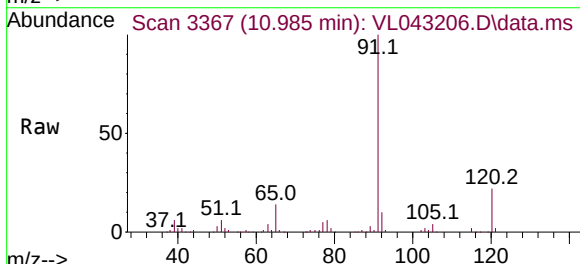
Manual Integrations
APPROVED

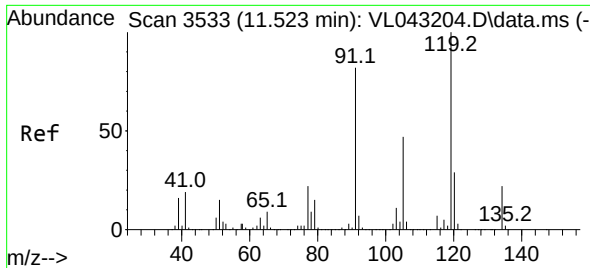
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#64
n-propylbenzene
Concen: 1.070 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:120 Resp: 17289
Ion Ratio Lower Upper
120 100
91 471.4 377.1 565.7





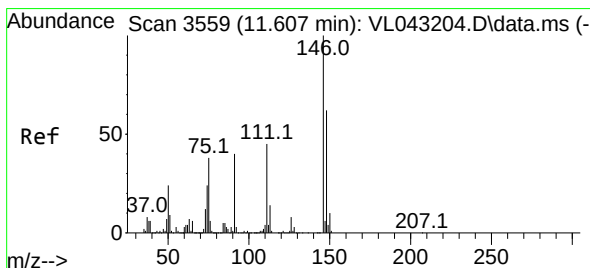
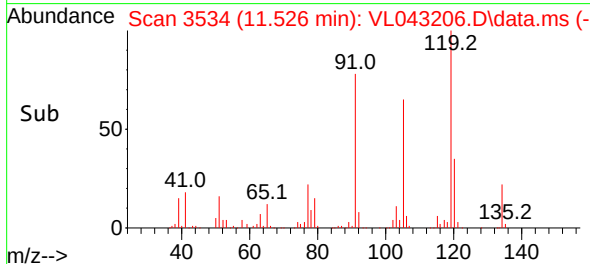
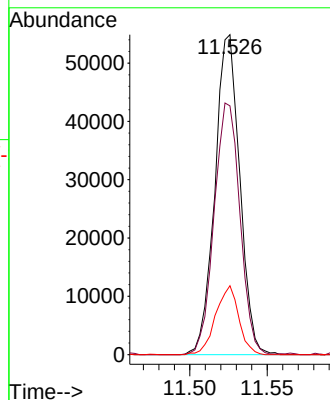
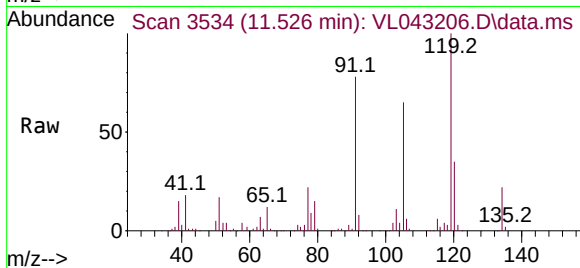
#65
tert-Butylbenzene
Concen: 1.091 ppbv
RT: 11.526 min Scan# 3533
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 61258
Ion Ratio Lower Upper
119 100
91 81.7 65.3 97.9
134 20.0 17.0 25.4

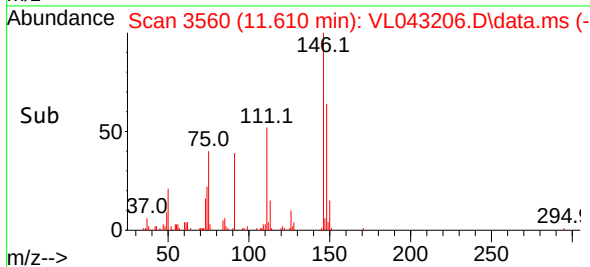
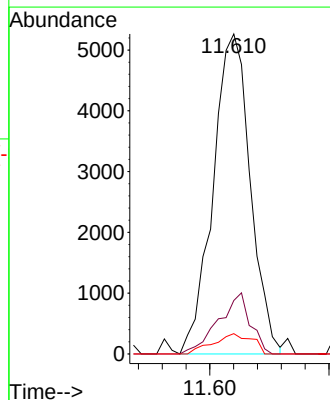
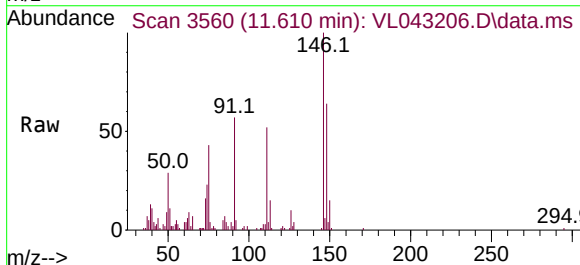
Manual Integrations
APPROVED

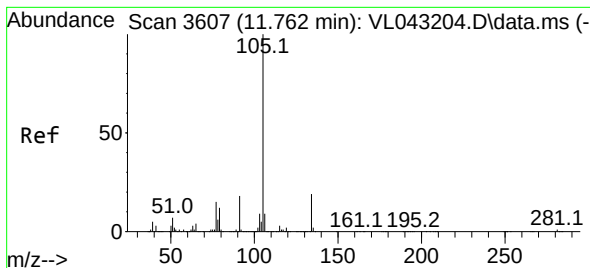
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#66
Benzyl Chloride
Concen: 1.005 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

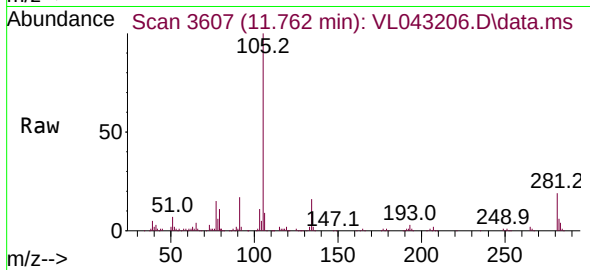
Tgt Ion: 91 Resp: 5729
Ion Ratio Lower Upper
91 100
126 16.3 14.4 21.6
128 6.5 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 1.084 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.000 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10

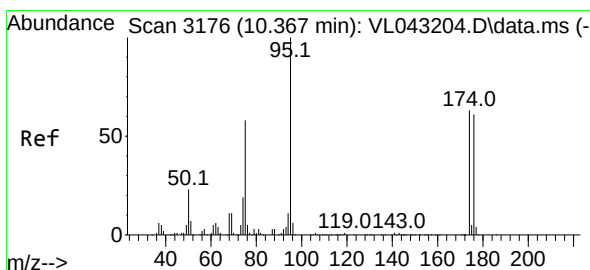
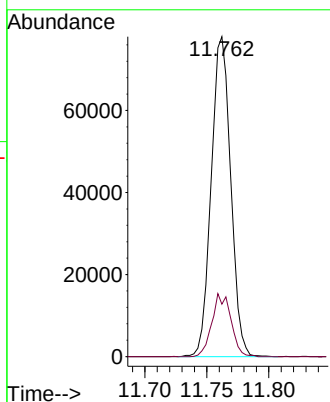
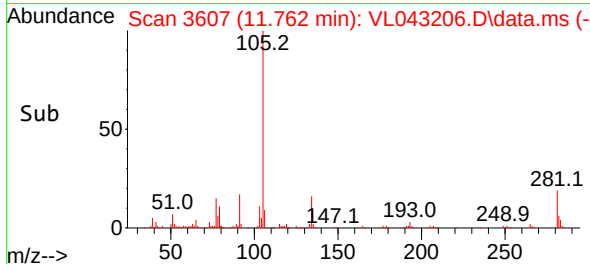
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



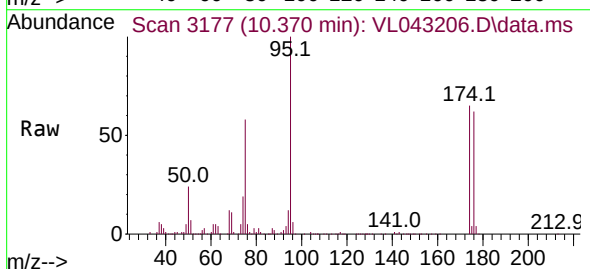
Tgt Ion:105 Resp: 84989
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.0 22.6

Manual Integrations
 APPROVED

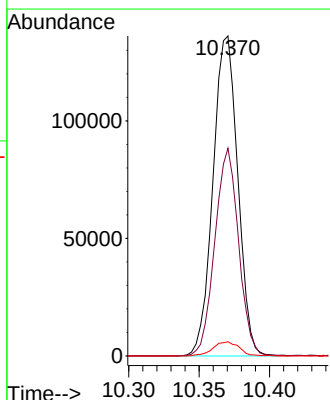
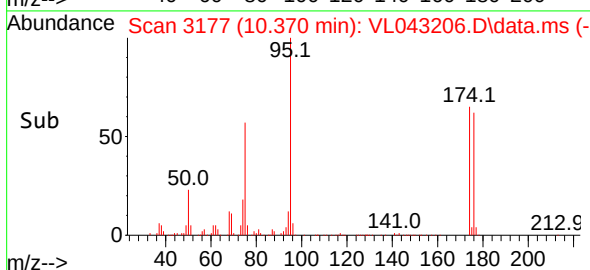
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

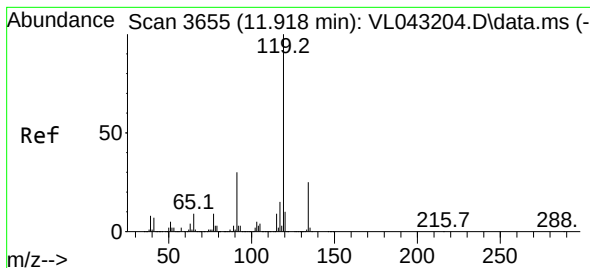


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.996 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043206.D
 Acq: 18 Nov 2025 11:10



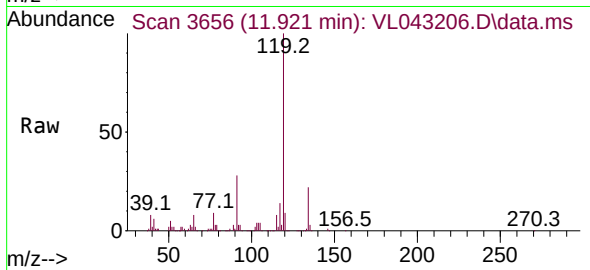
Tgt Ion: 95 Resp: 167061
 Ion Ratio Lower Upper
 95 100
 174 62.1 50.2 75.2
 175 4.6 4.1 6.1





#69
p-Isopropyltoluene
Concen: 1.054 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

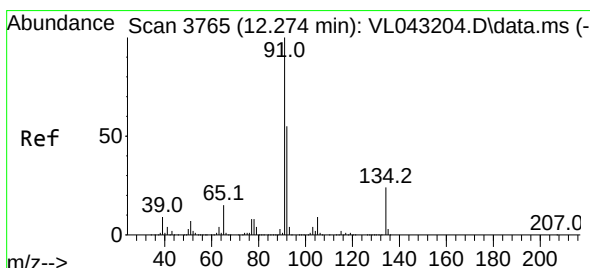
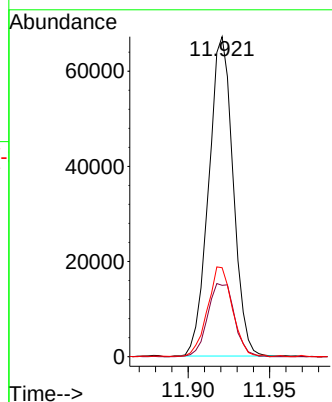
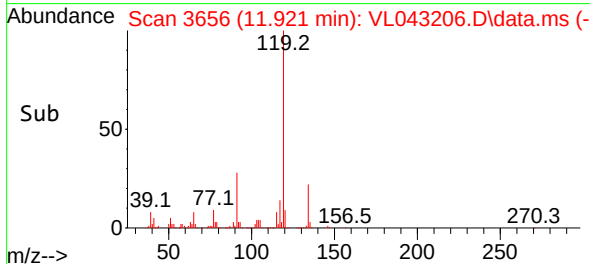
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



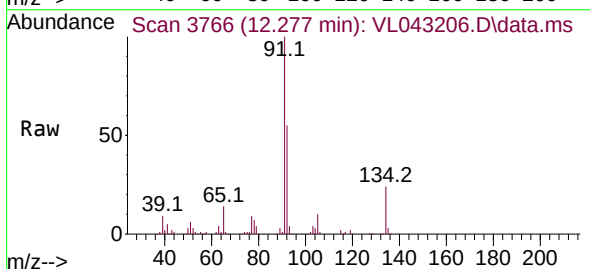
Tgt Ion: 119 Resp: 69993
Ion Ratio Lower Upper
119 100
134 25.0 20.2 30.2
91 28.9 23.8 35.8

Manual Integrations
APPROVED

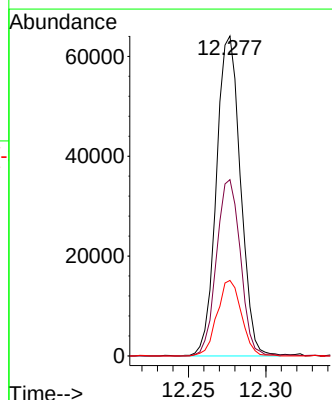
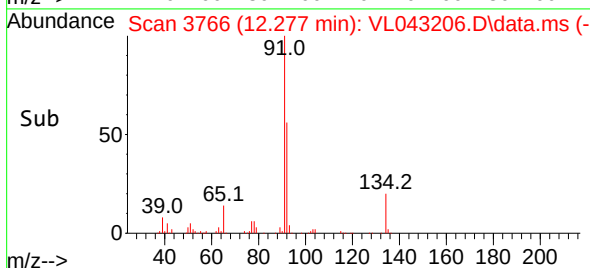
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

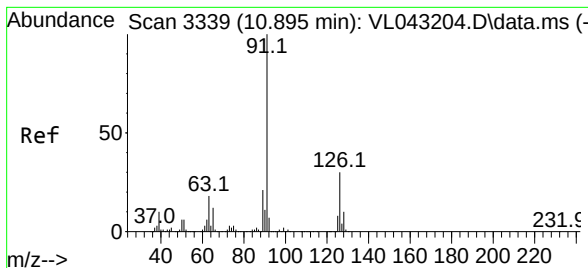


#70
n-Butylbenzene
Concen: 1.076 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10



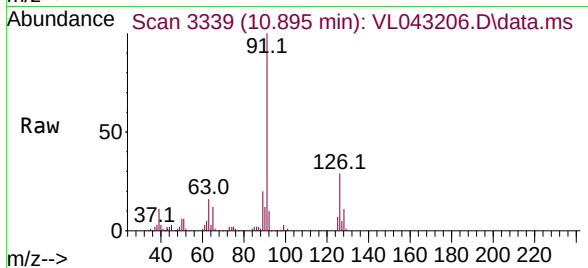
Tgt Ion: 91 Resp: 69323
Ion Ratio Lower Upper
91 100
92 55.0 43.5 65.3
134 23.8 19.0 28.6





#71
2-Chlorotoluene
Concen: 1.065 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

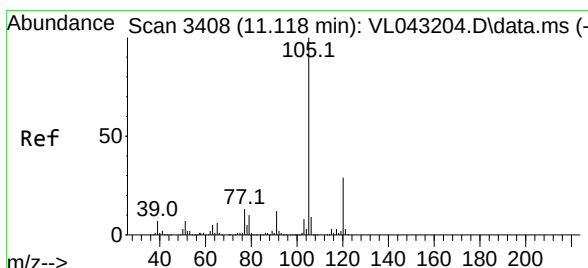
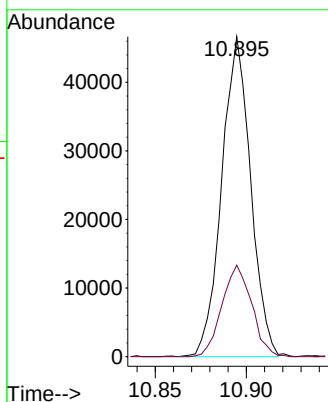
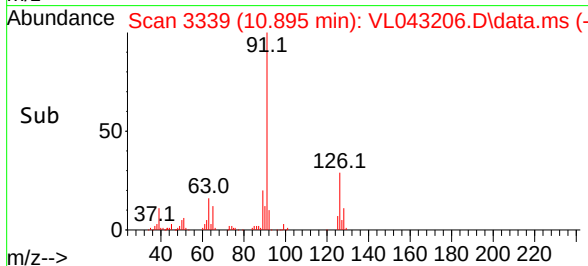
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



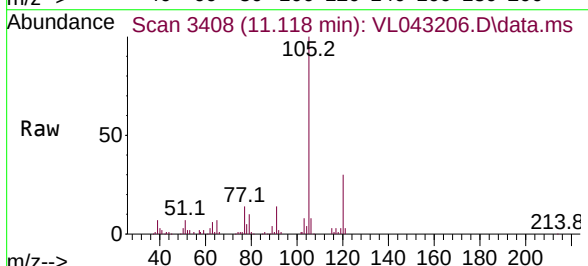
Tgt Ion: 91 Resp: 51452
Ion Ratio Lower Upper
91 100
126 29.3 11.7 46.7

Manual Integrations
APPROVED

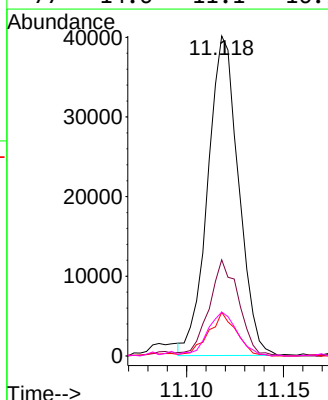
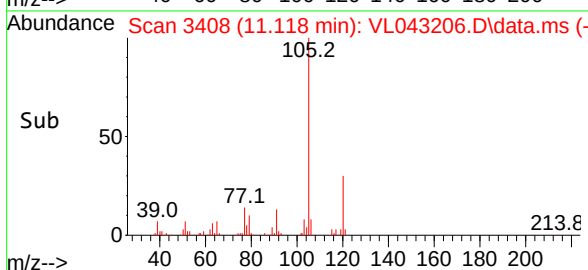
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

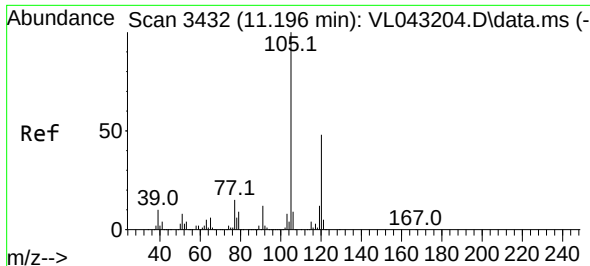


#72
4-Ethyltoluene
Concen: 1.037 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10



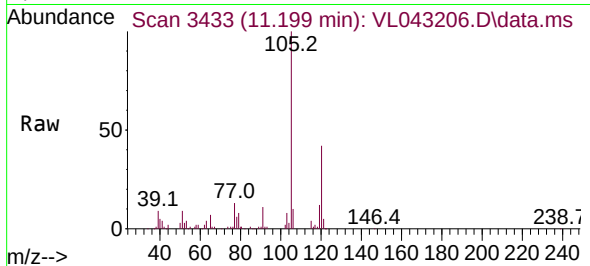
Tgt Ion:105 Resp: 44403
Ion Ratio Lower Upper
105 100
120 29.8 23.8 35.8
91 13.2 10.3 15.5
77 14.6 11.1 16.7





#73
1,3,5-Trimethylbenzene
Concen: 1.068 ppbv
RT: 11.199 min Scan# 3432
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

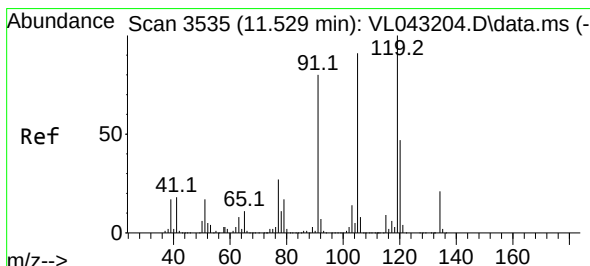
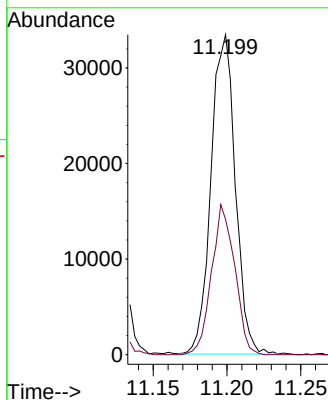
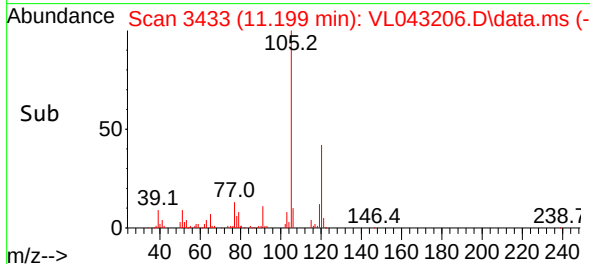
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion:105 Resp: 38350
Ion Ratio Lower Upper
105 100
120 42.3 38.6 57.8

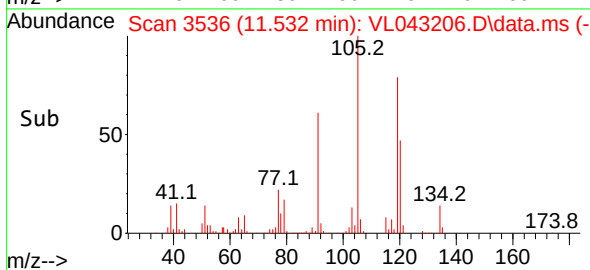
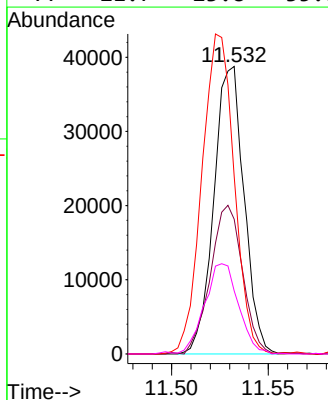
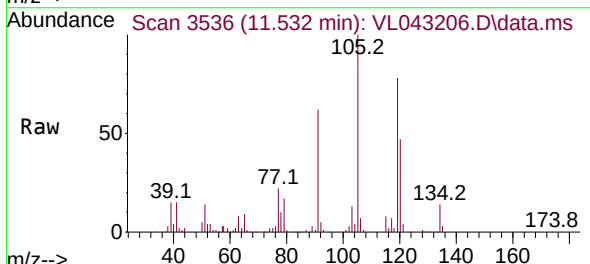
Manual Integrations
APPROVED

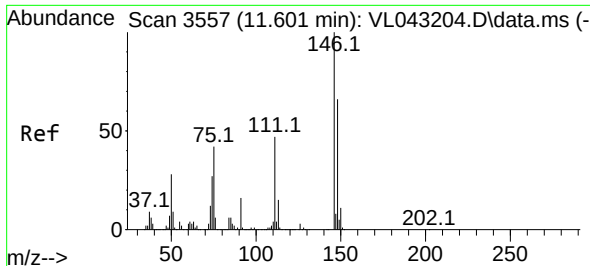
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#74
1,2,4-Trimethylbenzene
Concen: 1.073 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

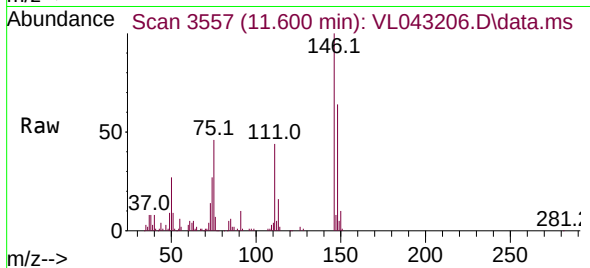
Tgt Ion:105 Resp: 42051
Ion Ratio Lower Upper
105 100
120 46.8 41.7 62.5
91 61.4 70.0 105.0#
77 21.7 23.8 35.8#





#75
1,3-Dichlorobenzene
Concen: 1.050 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

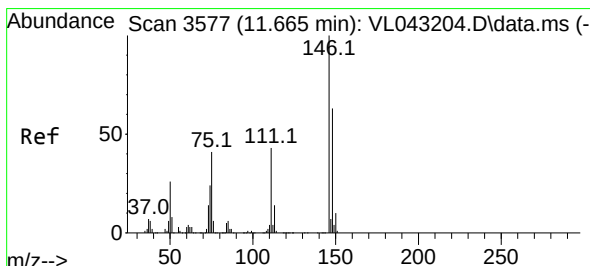
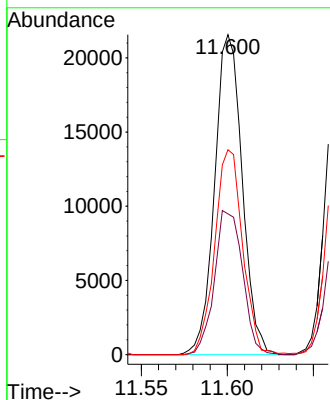
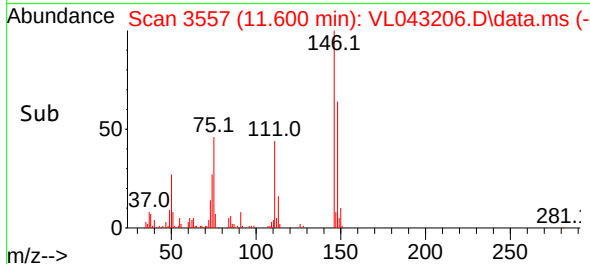
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



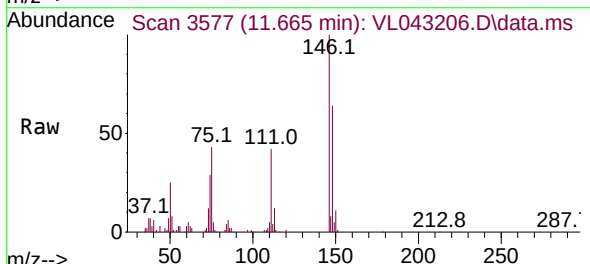
Tgt Ion:146 Resp: 24011
Ion Ratio Lower Upper
146 100
111 45.9 23.4 70.3
148 64.7 31.6 95.0

Manual Integrations
APPROVED

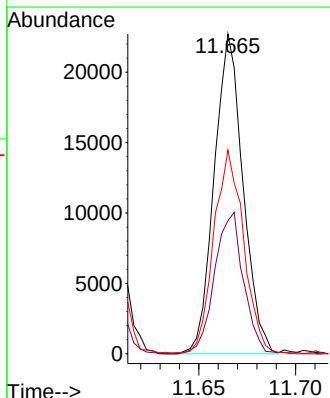
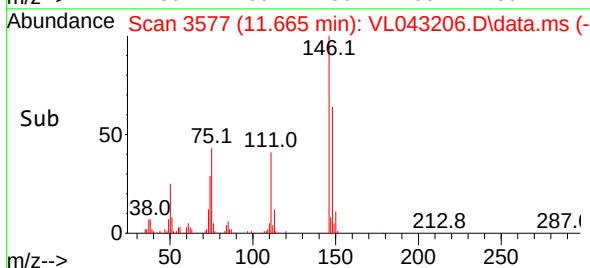
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

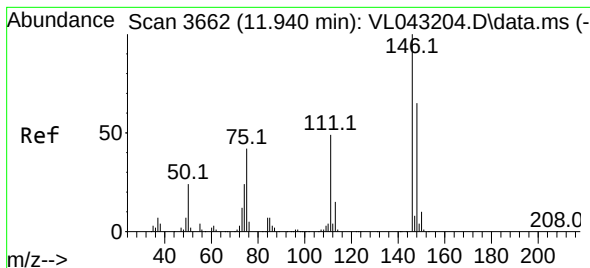


#76
1,4-Dichlorobenzene
Concen: 1.029 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10



Tgt Ion:146 Resp: 23543
Ion Ratio Lower Upper
146 100
111 44.5 22.8 68.3
148 66.4 31.8 95.4





#77

1,2-Dichlorobenzene

Concen: 1.103 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. -0.000 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

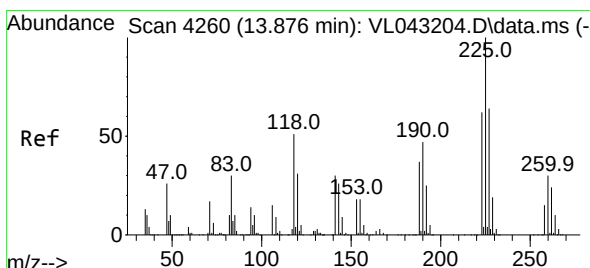
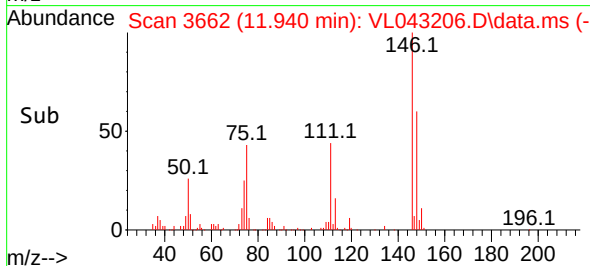
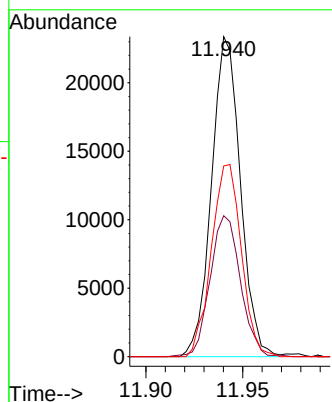
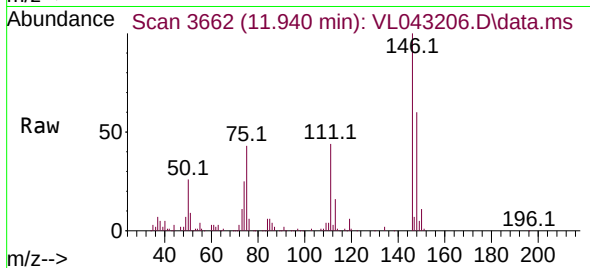
VSTDIC001

Tgt Ion:	146	Resp:	24248
Ion Ratio	Lower	Upper	
146	100		
111	46.3	24.3	73.0
148	62.3	31.6	94.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#78

Hexachloro-1,3-Butadiene

Concen: 1.116 ppbv

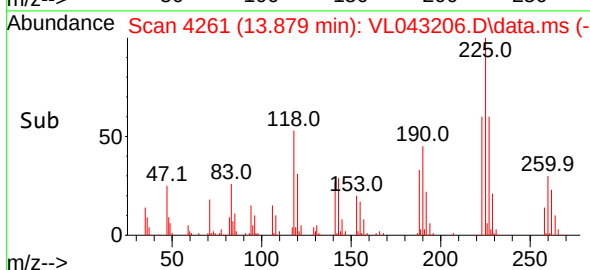
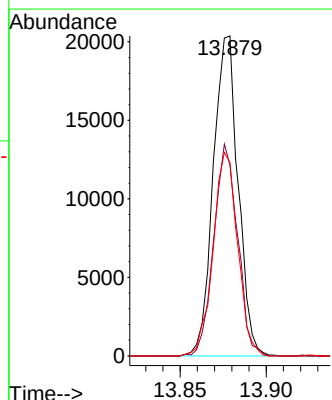
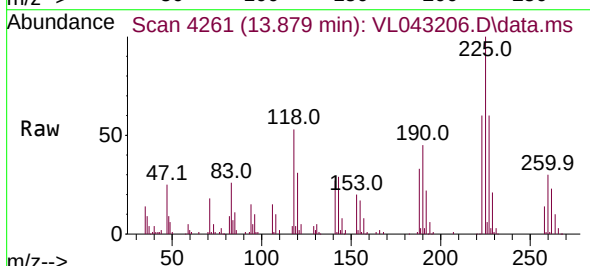
RT: 13.879 min Scan# 4261

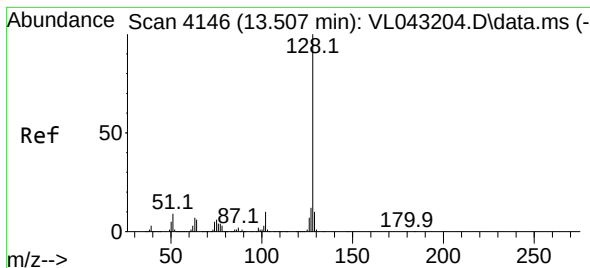
Delta R.T. 0.003 min

Lab File: VL043206.D

Acq: 18 Nov 2025 11:10

Tgt Ion:	225	Resp:	20489
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.2	75.4
227	62.5	51.1	76.7





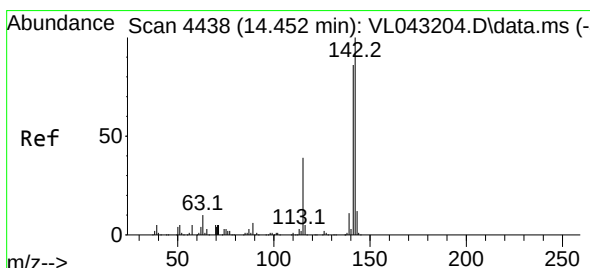
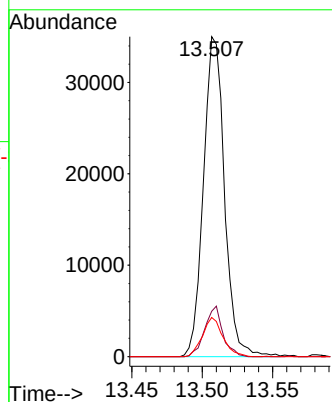
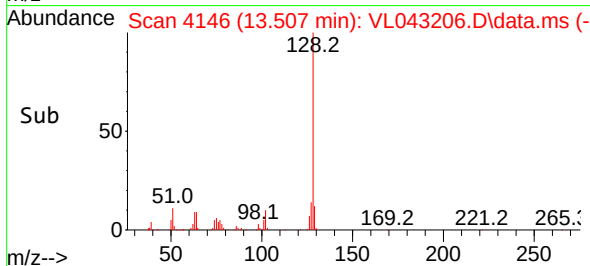
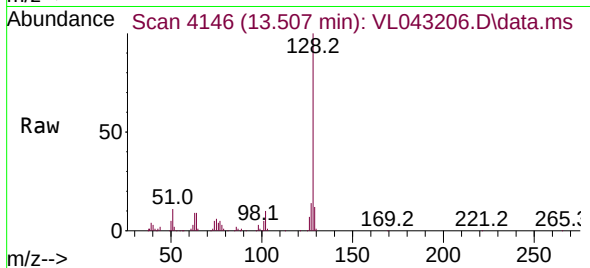
#79
Naphthalene
Concen: 1.047 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 36462
Ion Ratio Lower Upper
128 100
127 14.2 9.9 14.9
129 12.2 8.4 12.6

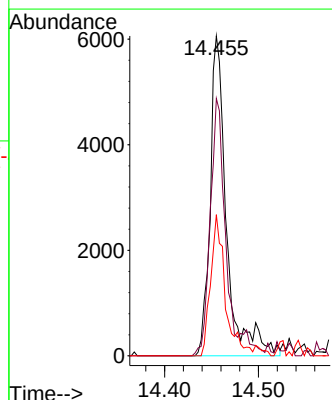
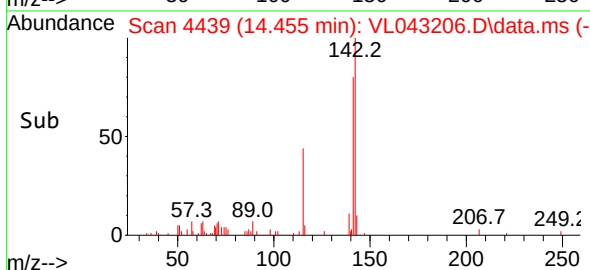
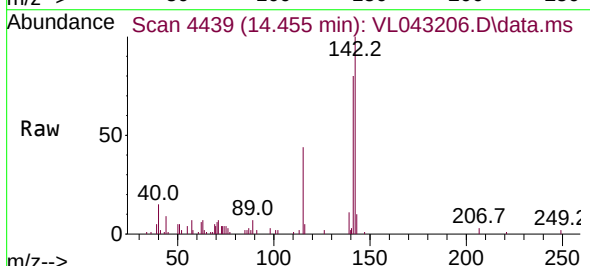
Manual Integrations
APPROVED

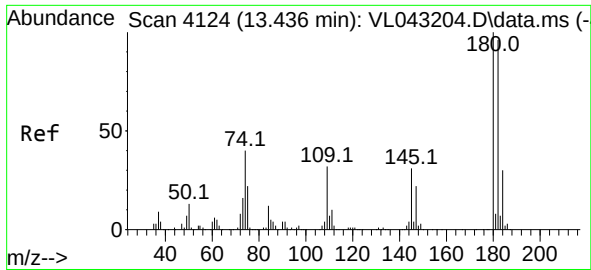
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#80
Naphthalene,2-methyl-
Concen: 0.807 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:142 Resp: 7375
Ion Ratio Lower Upper
142 100
141 77.8 67.1 100.7
115 40.8 31.9 47.9





#81

1,2,4-Trichlorobenzene

Concen: 1.014 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043206.D

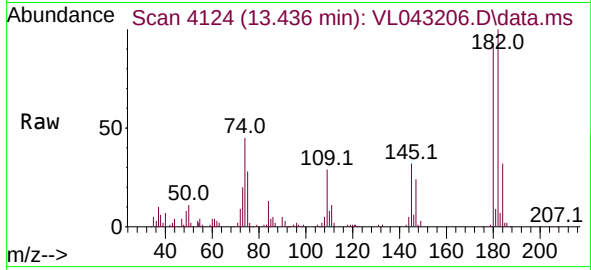
Acq: 18 Nov 2025 11:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001



Tgt Ion:180 Resp: 15785

Ion Ratio Lower Upper

180 100

182 98.2 77.4 116.2

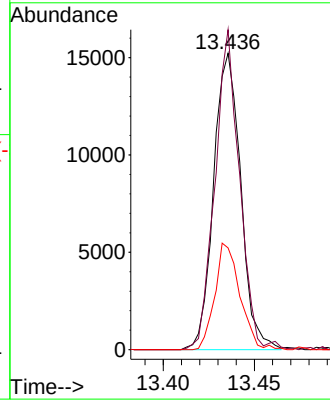
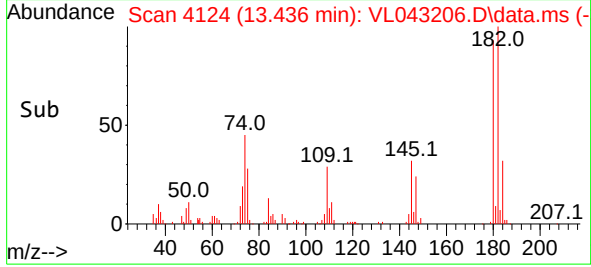
184 33.4 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043208.D
 Acq On : 18 Nov 2025 12:16
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Nov 19 00:51:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 00:48:15 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
 Supervised By : Mahesh Dadoda 11/19/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	101366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	222034	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	160968	9.890	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.580	62	664	0.114	ppbv	97
32) 1,1,1-Trichloroethane	3.360	97	2074m	0.102	ppbv	
35) Carbon Tetrachloride	3.761	117	2097m	0.101	ppbv	
38) Trichloroethene	4.541	130	1302m	0.127	ppbv	
52) Tetrachloroethene	8.218	164	1161m	0.119	ppbv	
54) 1,2-Dibromoethane	7.648	107	1446m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.953	83	2296m	0.106	ppbv	
79) Naphthalene	13.510	128	2732m	0.081	ppbv	

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

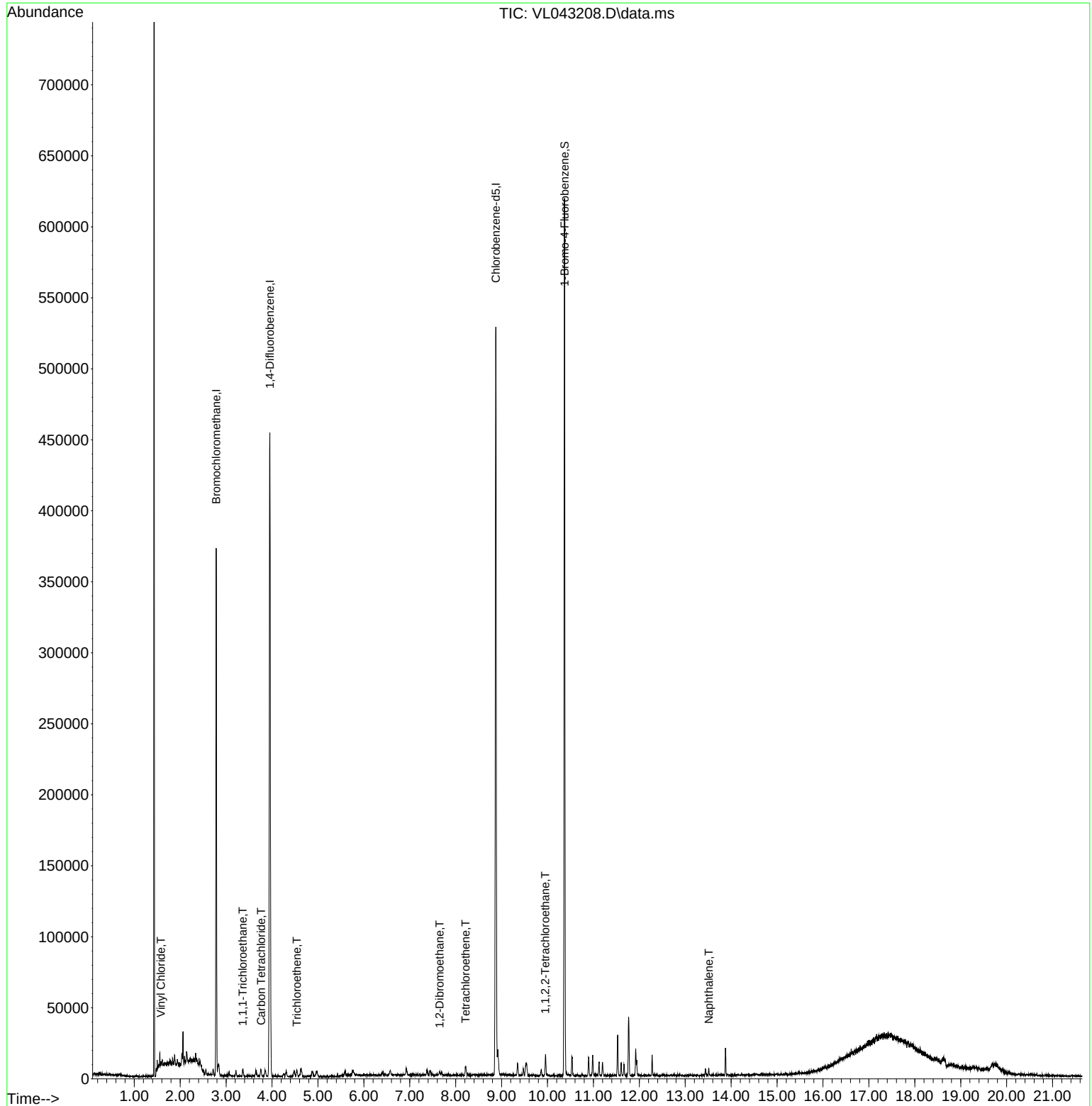
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

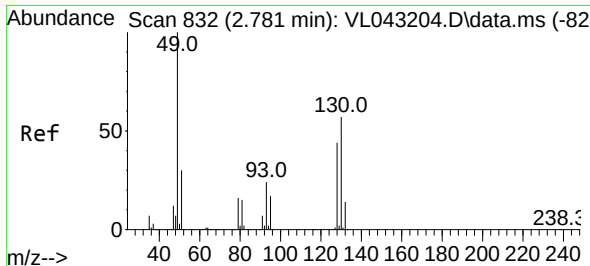
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

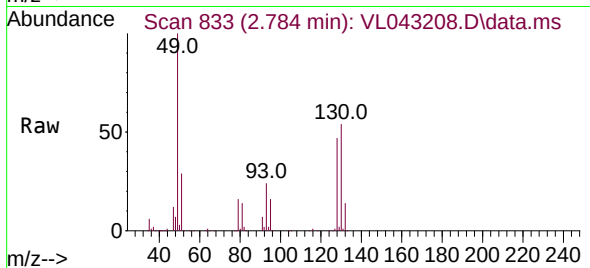
Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

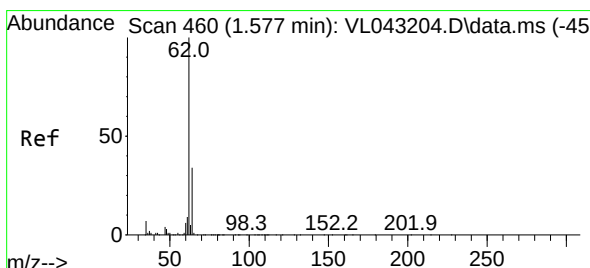
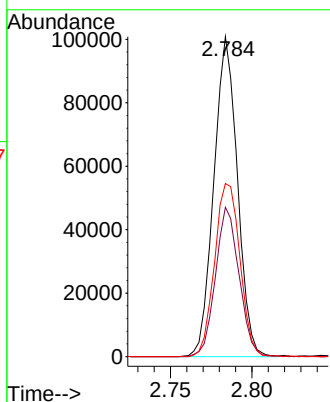
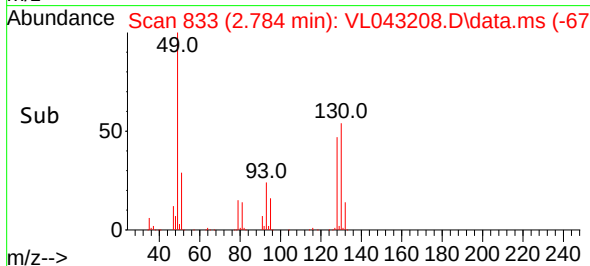
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 49 Resp: 101366
Ion Ratio Lower Upper
49 100
128 46.8 23.0 69.0
130 58.3 29.9 89.7

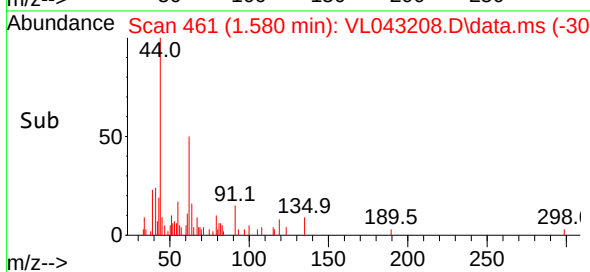
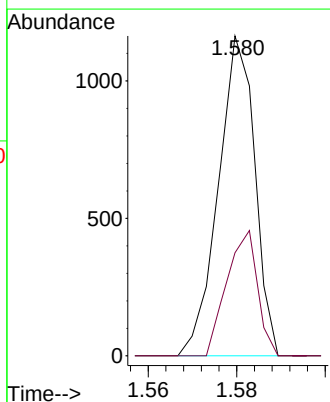
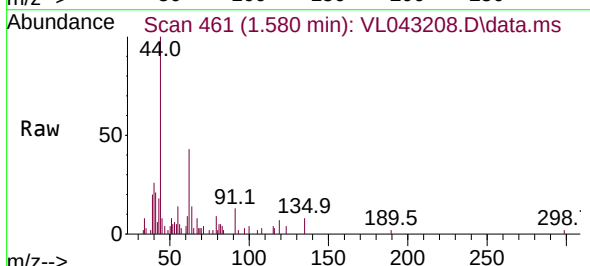
Manual Integrations
APPROVED

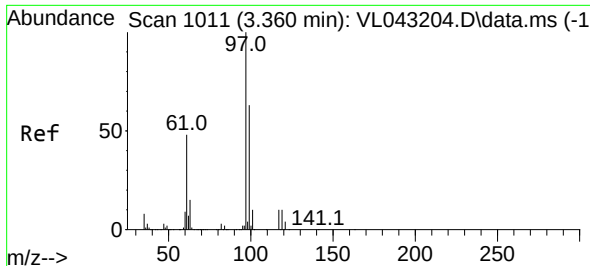
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#5
Vinyl Chloride
Concen: 0.114 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

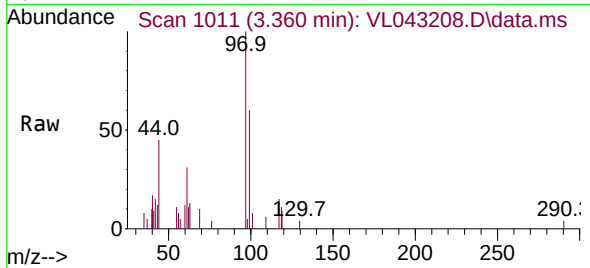
Tgt Ion: 62 Resp: 664
Ion Ratio Lower Upper
62 100
64 32.2 27.3 40.9





#32
1,1,1-Trichloroethane
Concen: 0.102 ppbv m
RT: 3.360 min Scan# 1011
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

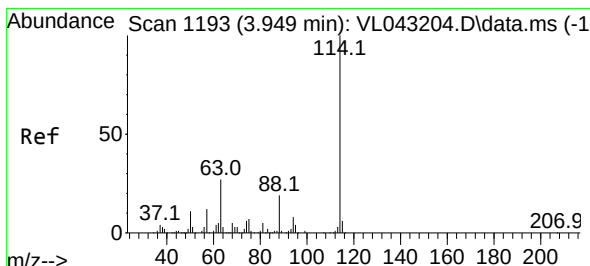
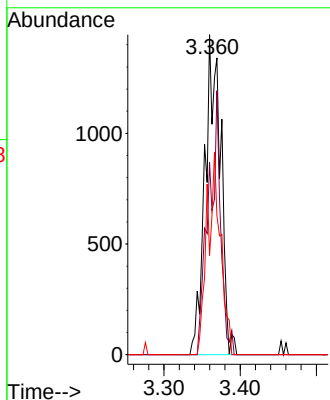
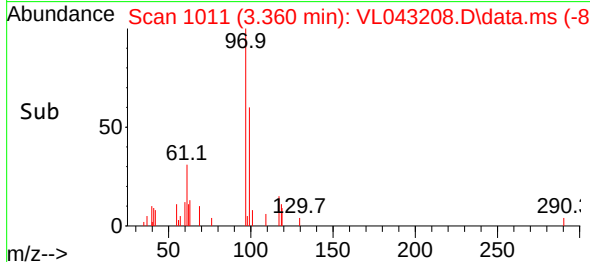
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1



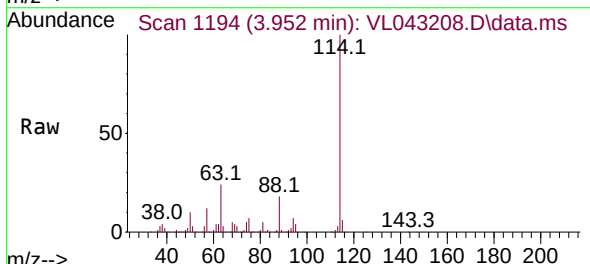
Tgt Ion: 97 Resp: 2074
Ion Ratio Lower Upper
97 100
99 62.7 50.3 75.5
61 53.5 38.9 58.3

Manual Integrations
APPROVED

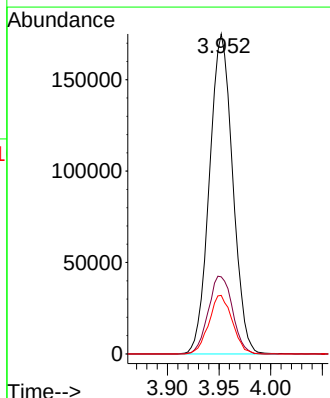
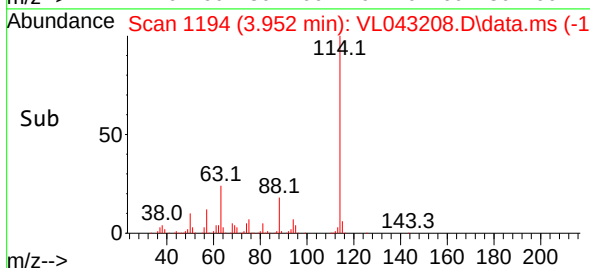
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

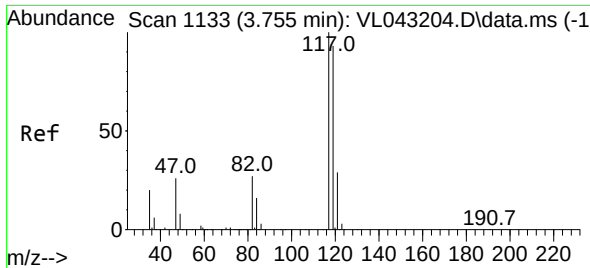


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16



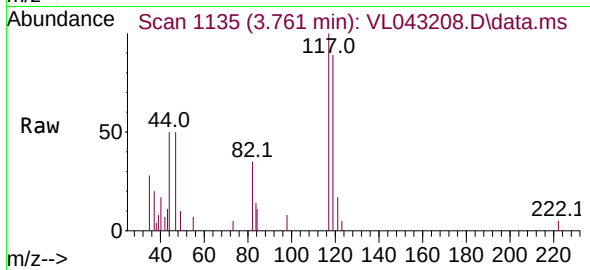
Tgt Ion:114 Resp: 273996
Ion Ratio Lower Upper
114 100
63 25.3 21.0 31.6
88 18.3 14.9 22.3





#35
Carbon Tetrachloride
Concen: 0.101 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

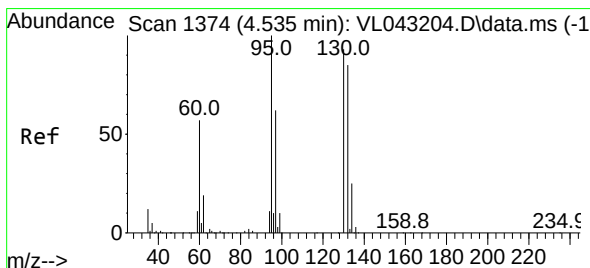
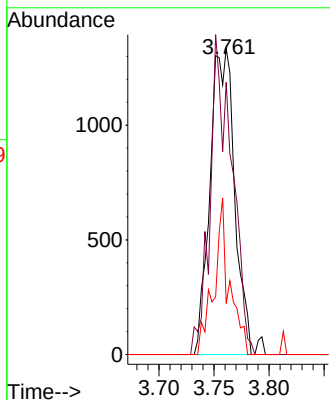
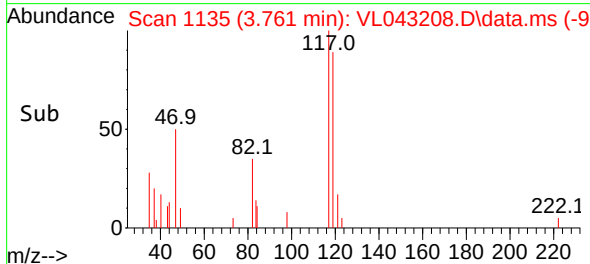
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:117 Resp: 2092
Ion Ratio Lower Upper
117 100
119 88.9 74.6 112.0
121 16.7 23.2 34.8

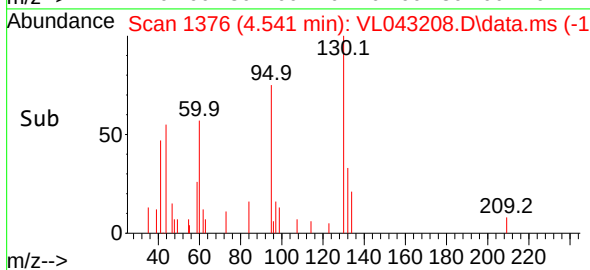
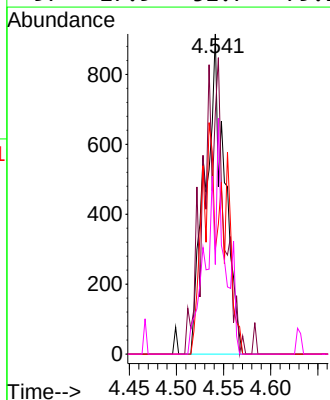
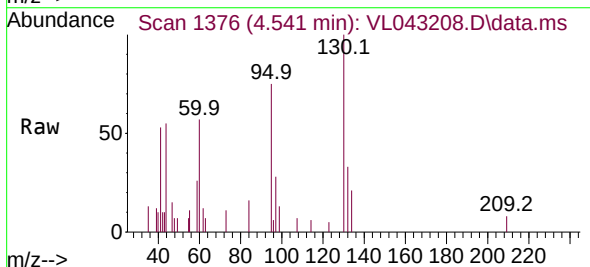
Manual Integrations
APPROVED

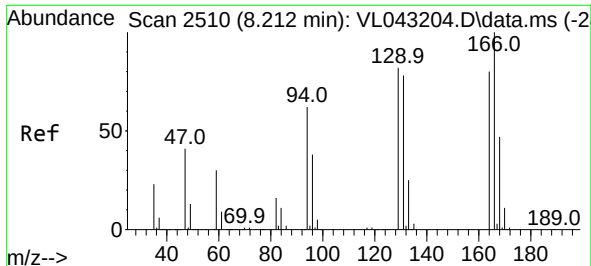
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 0.127 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

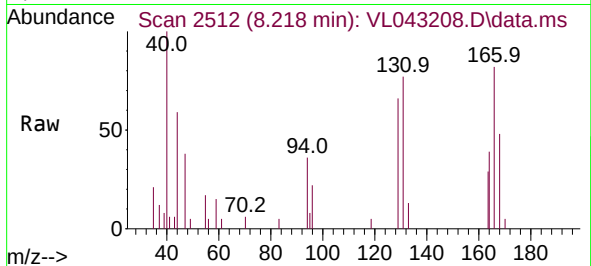
Tgt Ion:130 Resp: 1302
Ion Ratio Lower Upper
130 100
95 75.4 85.7 128.5#
132 32.6 73.4 110.0#
97 27.9 52.7 79.1#





#52
Tetrachloroethene
Concen: 0.119 ppbv m
RT: 8.218 min Scan# 2510
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

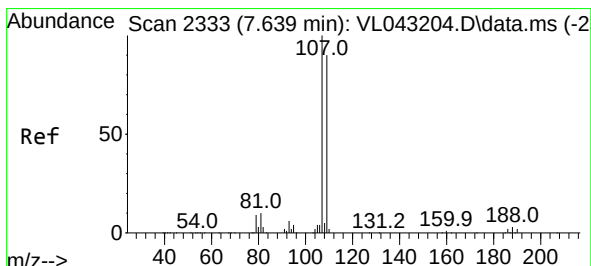
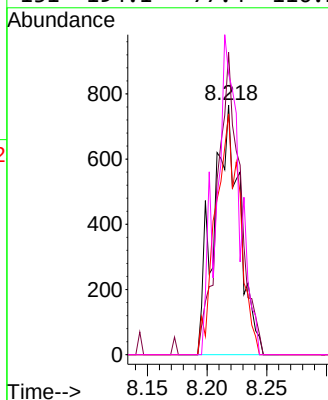
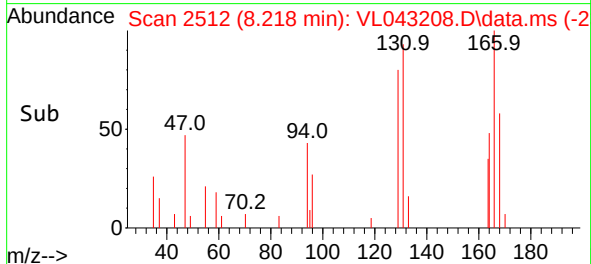
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:164 Resp: 1163
Ion Ratio Lower Upper
164 100
166 209.0 99.4 149.2
129 166.4 81.8 122.8
131 194.1 77.4 116.2

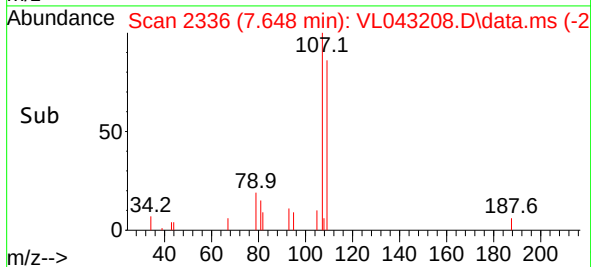
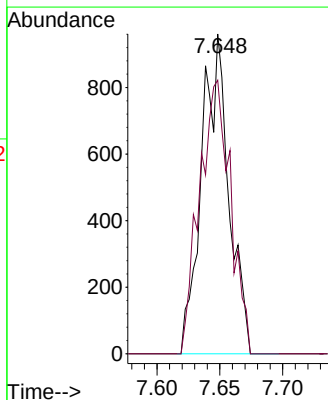
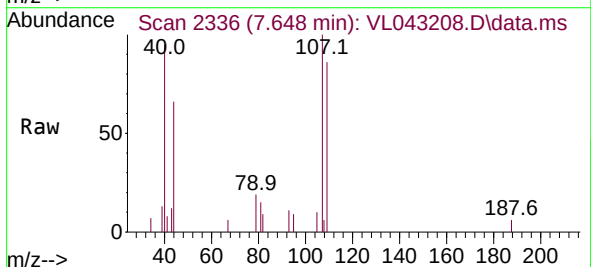
Manual Integrations
APPROVED

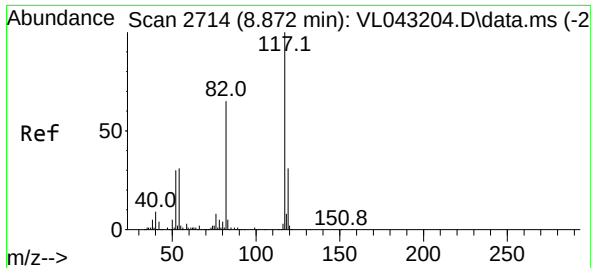
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#54
1,2-Dibromoethane
Concen: 0.096 ppbv m
RT: 7.648 min Scan# 2336
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:107 Resp: 1446
Ion Ratio Lower Upper
107 100
109 85.5 72.1 108.1





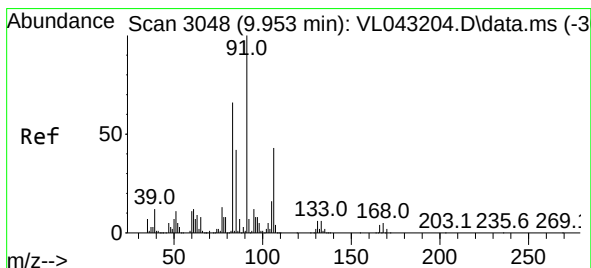
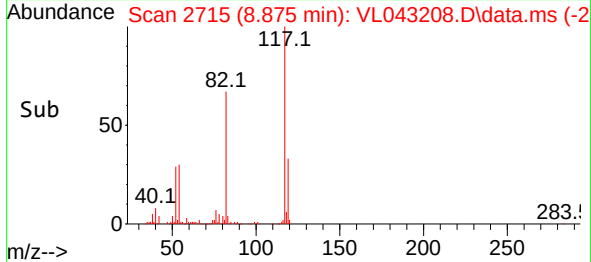
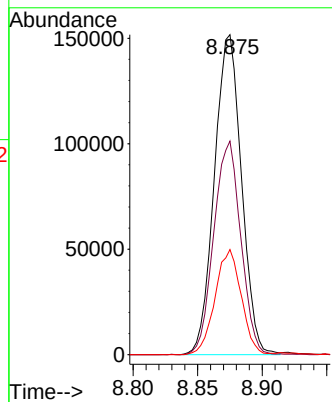
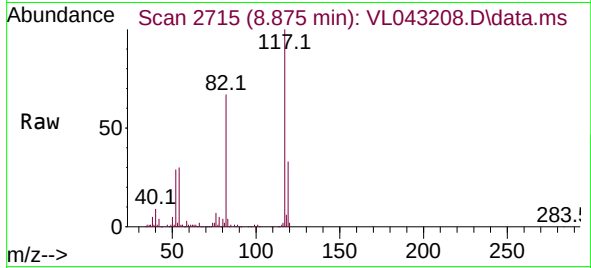
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 117 Resp: 222034
Ion Ratio Lower Upper
117 100
82 66.4 56.1 84.1
119 32.2 25.0 37.6

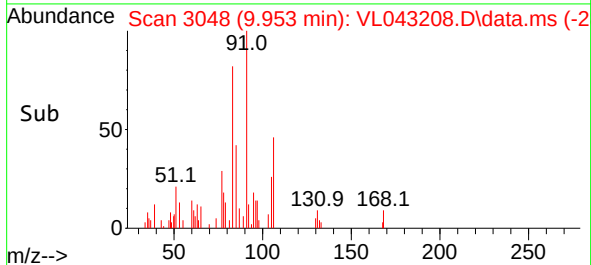
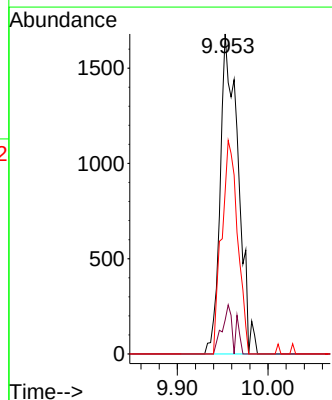
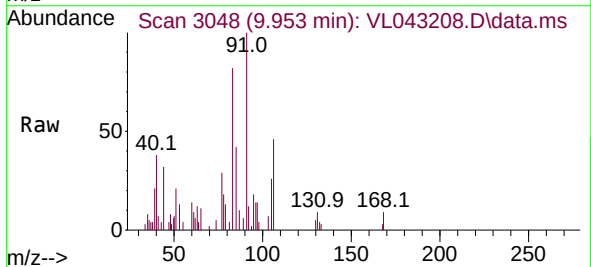
Manual Integrations
APPROVED

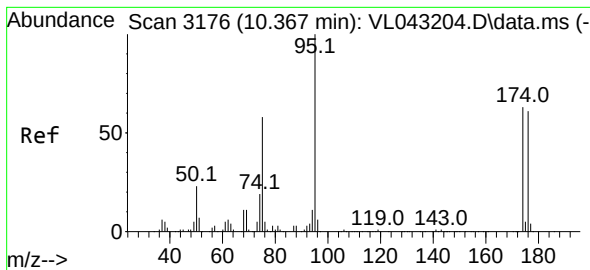
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.106 ppbv m
RT: 9.953 min Scan# 3048
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

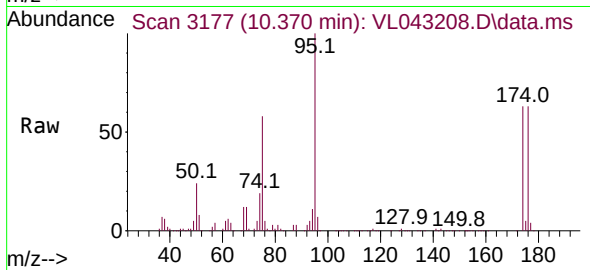
Tgt Ion: 83 Resp: 2296
Ion Ratio Lower Upper
83 100
131 10.5 4.8 14.3
85 59.6 31.9 95.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

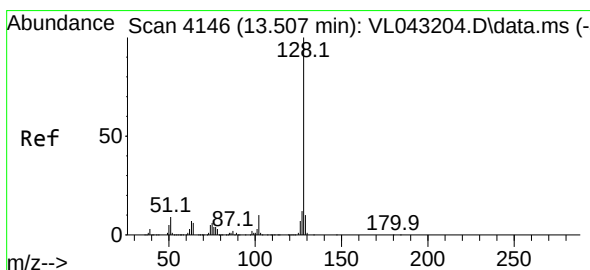
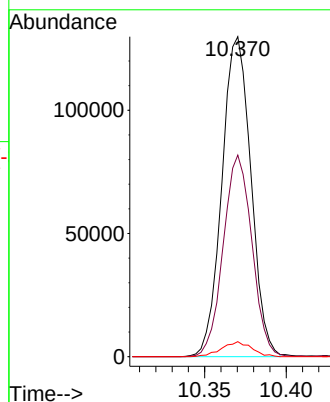
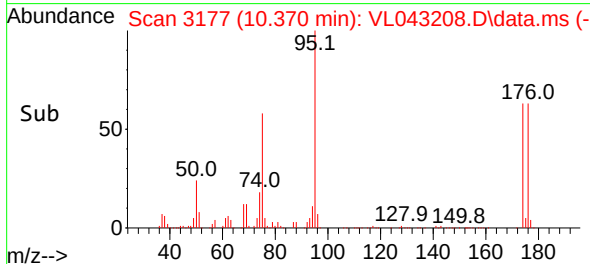
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



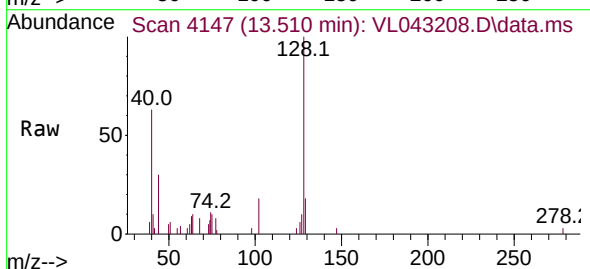
Tgt Ion: 95 Resp: 160968
Ion Ratio Lower Upper
95 100
174 62.5 50.2 75.2
175 4.8 4.1 6.1

Manual Integrations
APPROVED

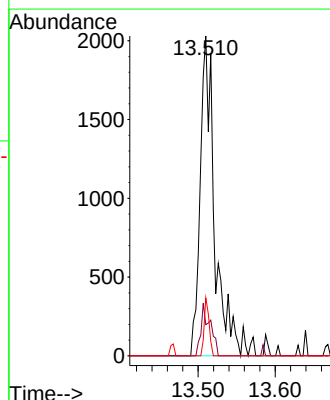
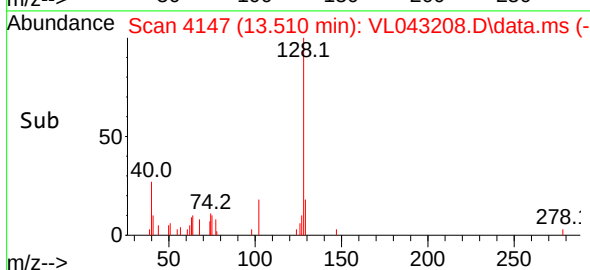
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#79
Naphthalene
Concen: 0.081 ppbv m
RT: 13.510 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16



Tgt Ion:128 Resp: 2732
Ion Ratio Lower Upper
128 100
127 9.7 9.9 14.9#
129 18.1 8.4 12.6#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043209.D
 Acq On : 18 Nov 2025 12:49
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:52:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 00:48:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	98952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	266012	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	213547	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	152015	9.712	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	215m	0.038	ppbv	
32) 1,1,1-Trichloroethane	3.357	97	628m	0.032	ppbv	
35) Carbon Tetrachloride	3.758	117	664m	0.033	ppbv	
38) Trichloroethene	4.542	130	234m	0.023	ppbv	
52) Tetrachloroethene	8.222	164	290m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	640m	0.031	ppbv	

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

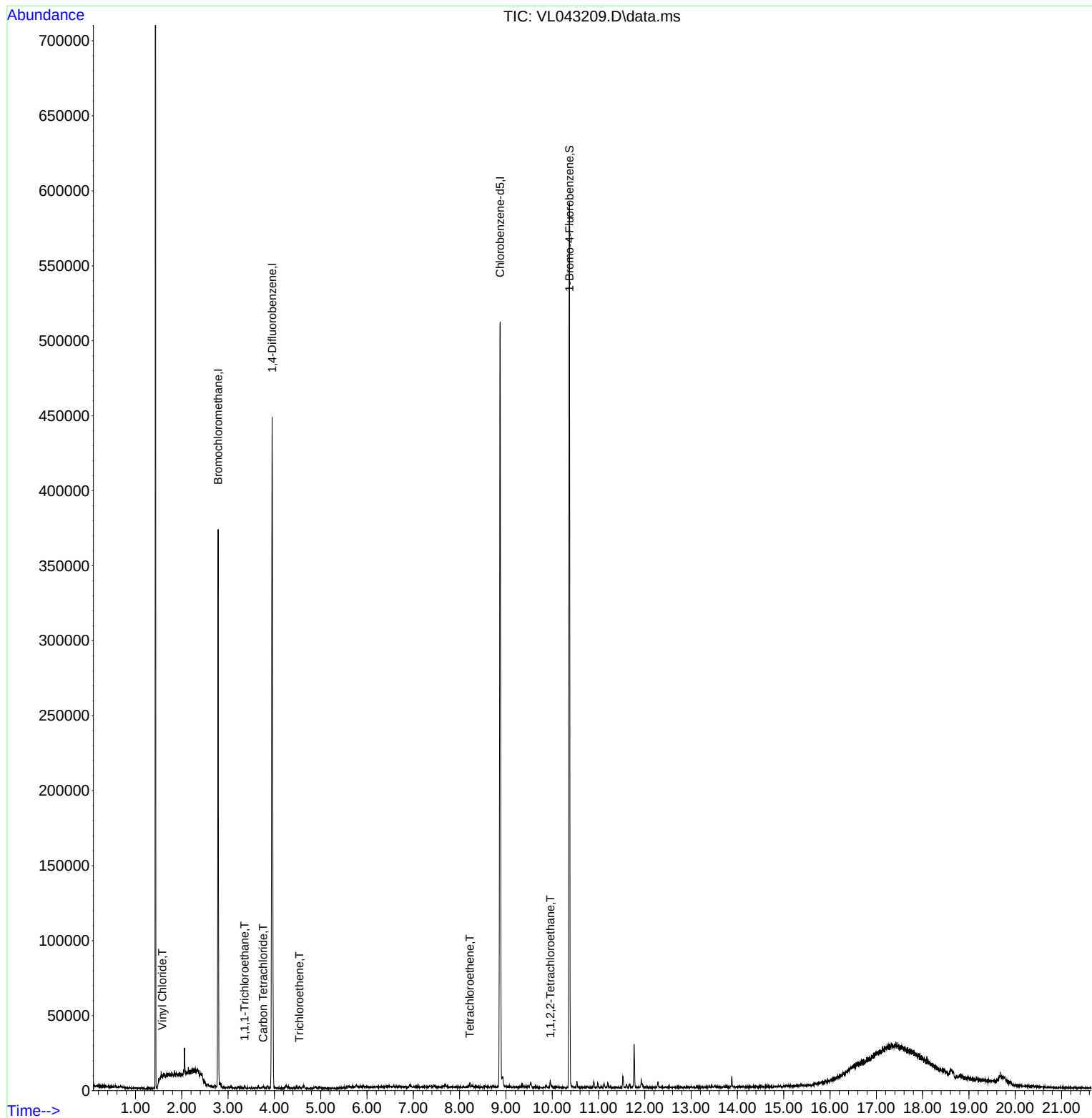
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

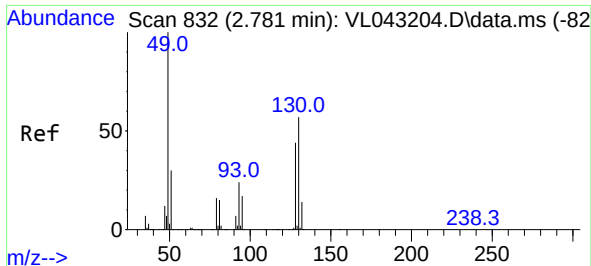
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025





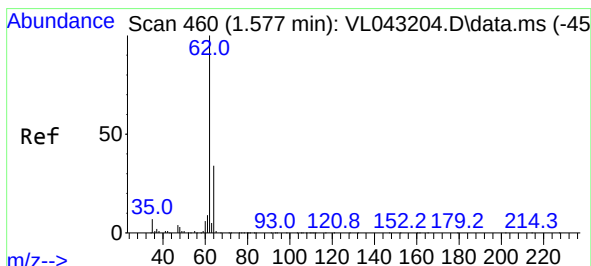
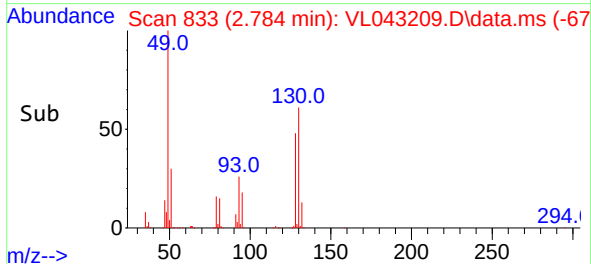
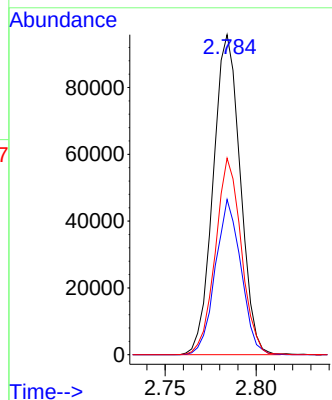
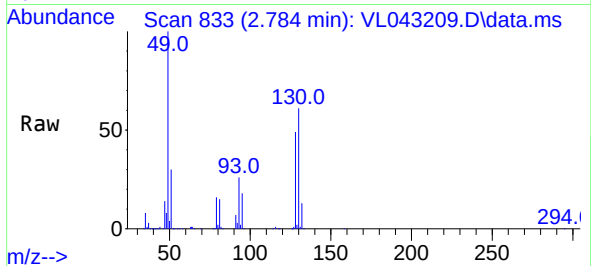
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 9895
Ion Ratio Lower Upper
49 100
128 45.9 23.0 69.0
130 58.8 29.9 89.7

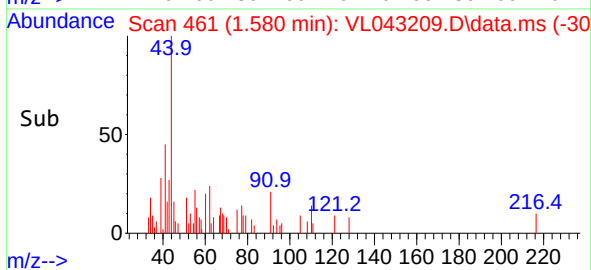
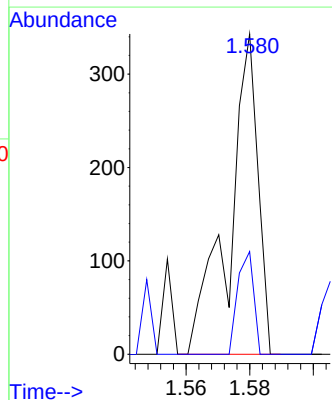
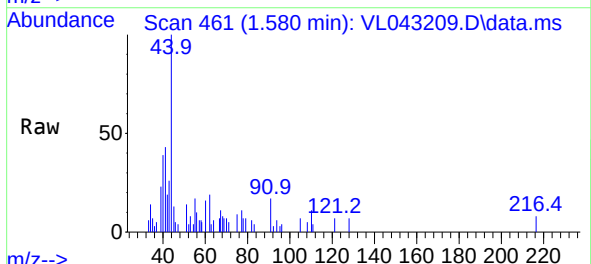
Manual Integrations
APPROVED

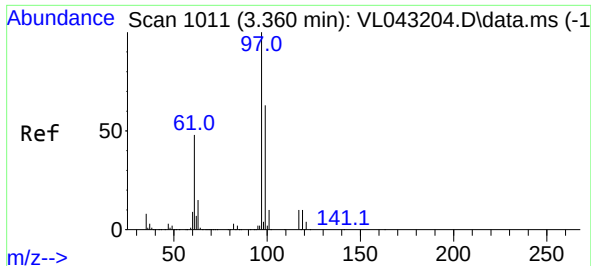
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#5
Vinyl Chloride
Concen: 0.038 ppbv m
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

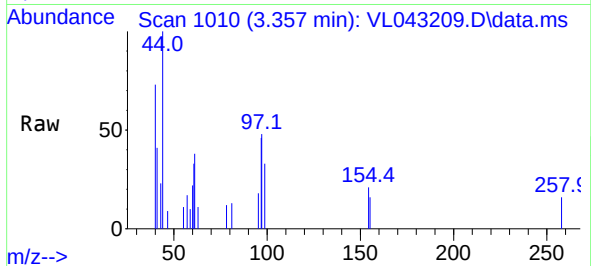
Tgt Ion: 62 Resp: 215
Ion Ratio Lower Upper
62 100
64 32.1 27.3 40.9





#32
1,1,1-Trichloroethane
Concen: 0.032 ppbv m
RT: 3.357 min Scan# 1011
Delta R.T. -0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

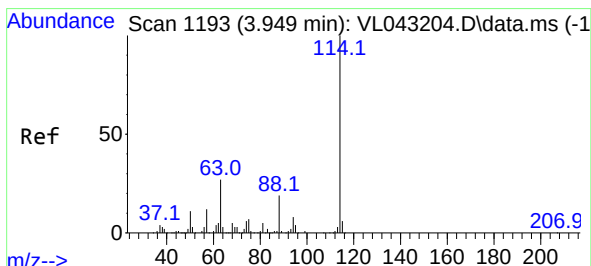
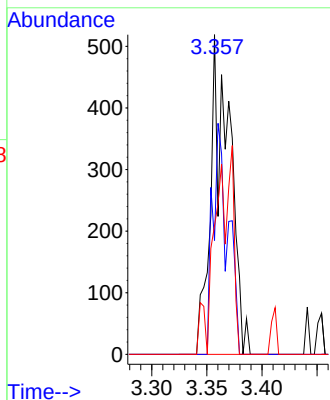
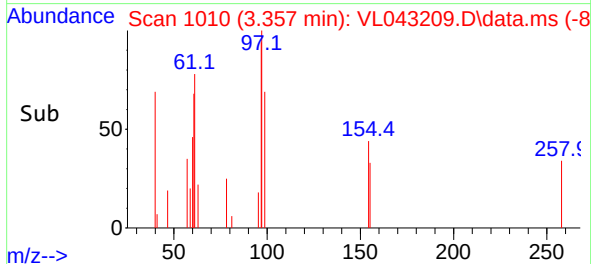
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 97 Resp: 628
Ion Ratio Lower Upper
97 100
99 56.8 50.3 75.5
61 0.0 38.9 58.3

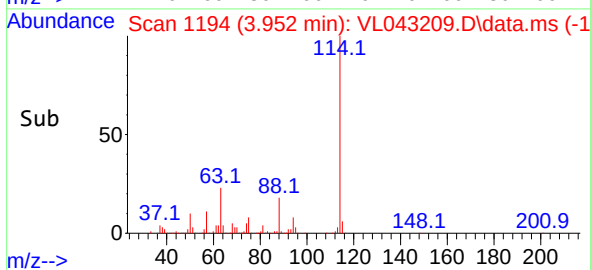
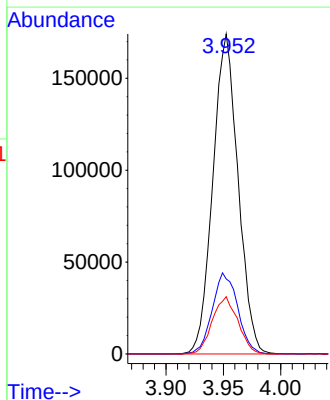
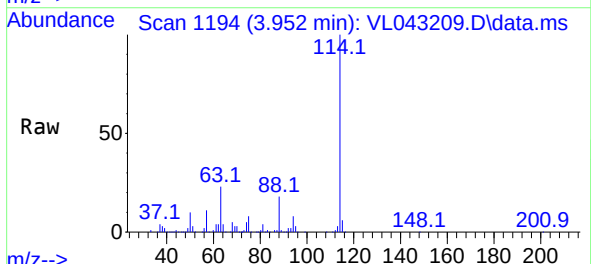
Manual Integrations
APPROVED

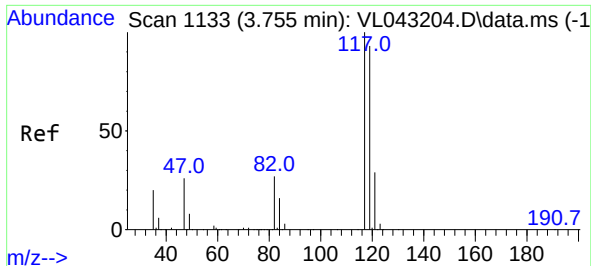
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

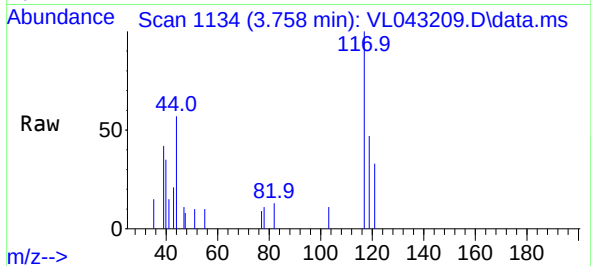
Tgt Ion:114 Resp: 266012
Ion Ratio Lower Upper
114 100
63 25.7 21.0 31.6
88 18.2 14.9 22.3





#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.758 min Scan# 1133
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

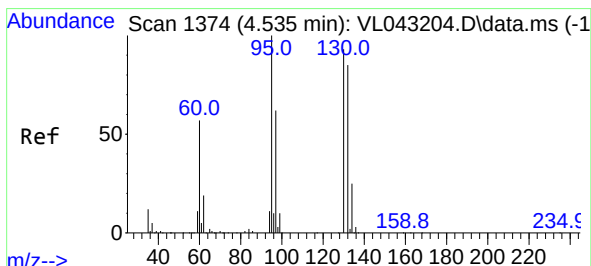
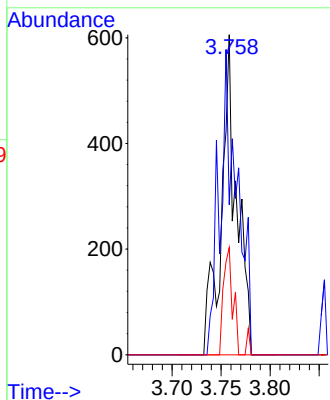
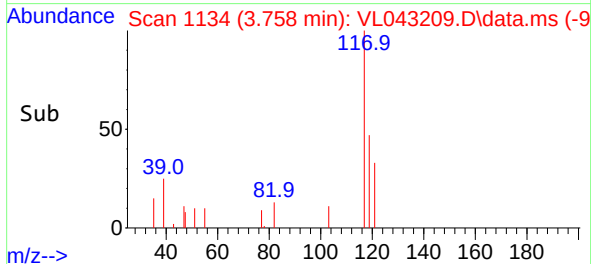
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion:117 Resp: 664
Ion Ratio Lower Upper
117 100
119 46.9 74.6 112.0#
121 33.5 23.2 34.8

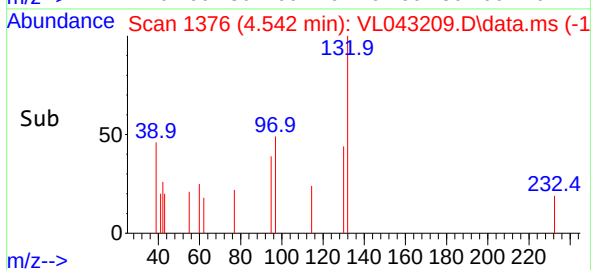
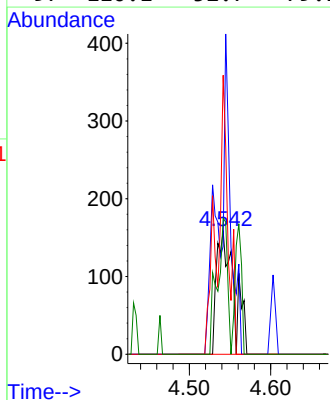
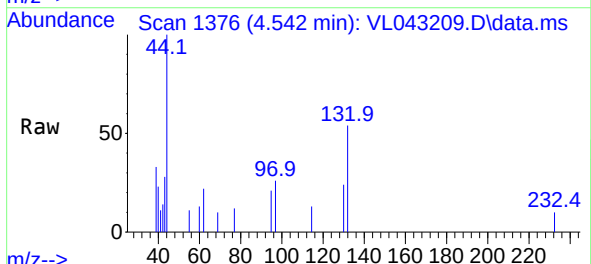
Manual Integrations
APPROVED

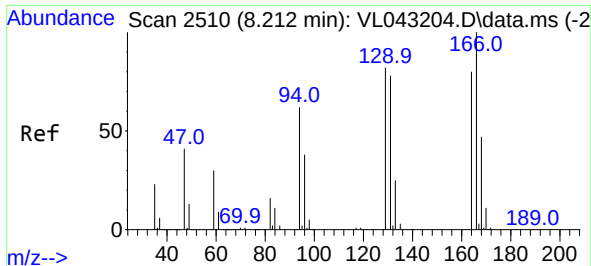
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 0.023 ppbv m
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:130 Resp: 234
Ion Ratio Lower Upper
130 100
95 87.4 85.7 128.5
132 225.8 73.4 110.0#
97 110.1 52.7 79.1#





#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.222 min Scan# 210
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :

MSVOA_L

ClientSampleId :

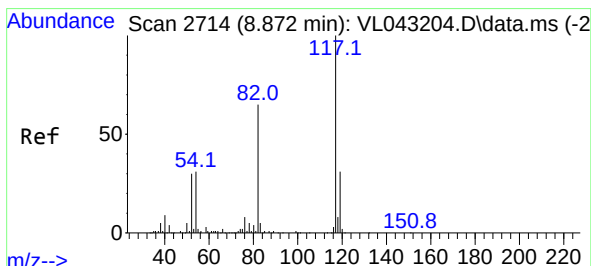
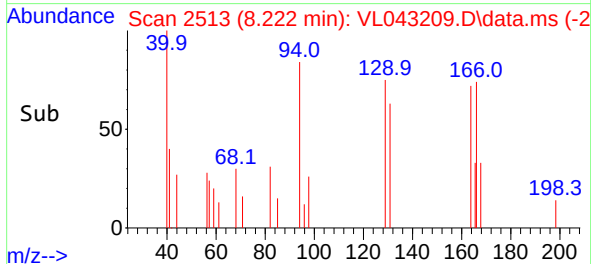
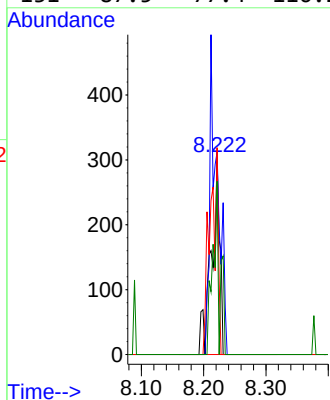
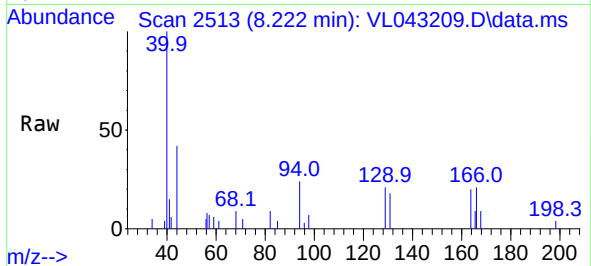
VSTDICC0.03

Tgt Ion:164 Resp: 290
Ion Ratio Lower Upper
164 100
166 102.3 99.4 149.2
129 104.6 81.8 122.8
131 87.5 77.4 116.2

Manual Integrations

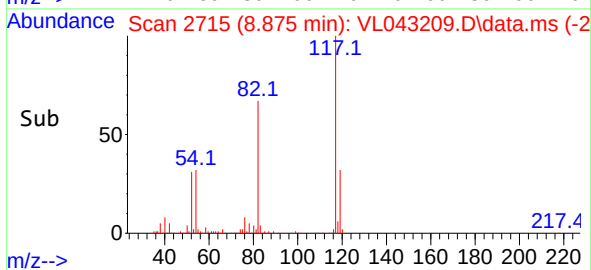
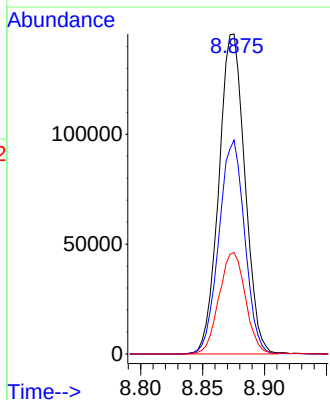
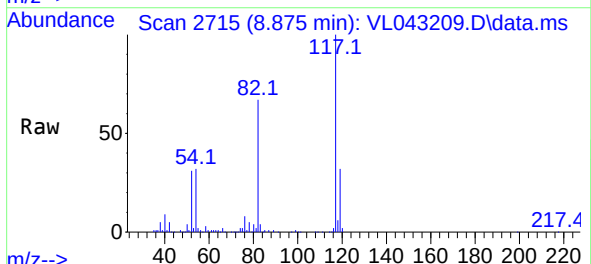
APPROVED

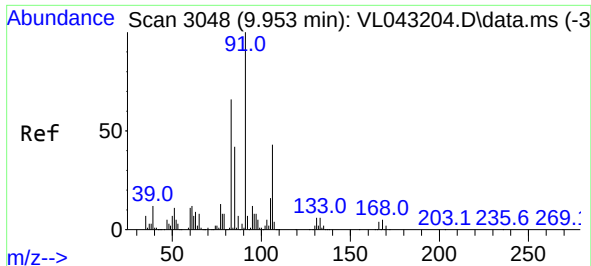
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:117 Resp: 213547
Ion Ratio Lower Upper
117 100
82 66.2 56.1 84.1
119 32.3 25.0 37.6





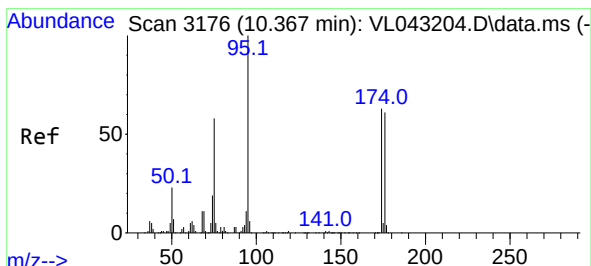
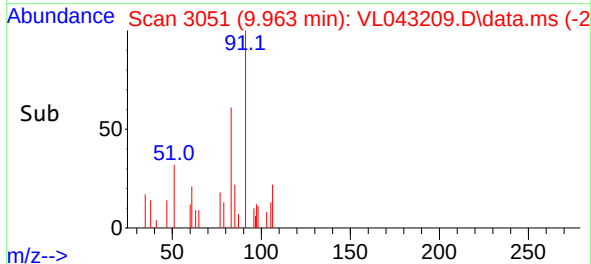
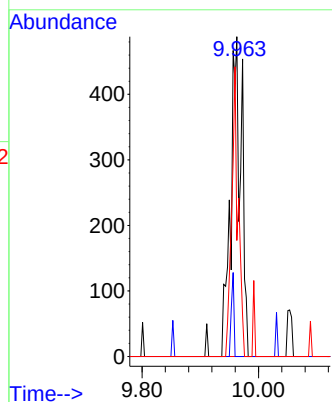
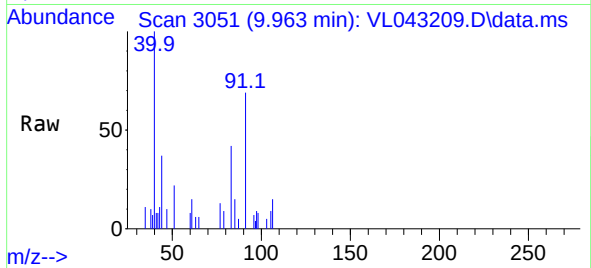
#63
1,1,2,2-Tetrachloroethane
Concen: 0.031 ppbv m
RT: 9.963 min Scan# 3048
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 640
Ion Ratio Lower Upper
83 100
131 6.1 4.8 14.3
85 52.8 31.9 95.9

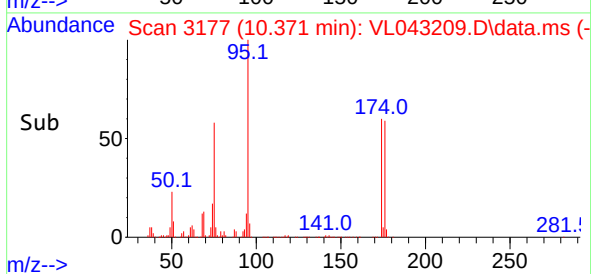
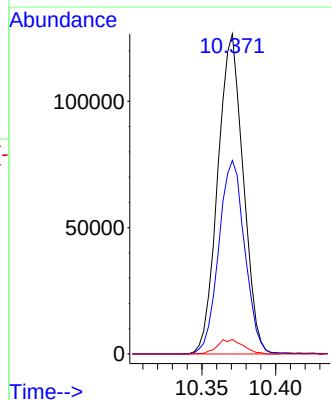
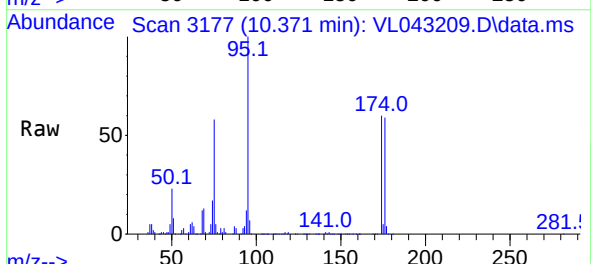
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.712 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 95 Resp: 152015
Ion Ratio Lower Upper
95 100
174 62.0 50.2 75.2
175 4.6 4.1 6.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043210.D
 Acq On : 18 Nov 2025 13:24
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:53:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	98968	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	258461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	211247	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159814	10.321	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	197987	14.184	ppbv	99
3) Chlorodifluoromethane	1.476	51	182813	13.317	ppbv	98
4) Chloromethane	1.531	50	72636	13.918	ppbv	97
5) Vinyl Chloride	1.580	62	71671	12.557	ppbv	96
6) Bromomethane	1.667	94	38265	13.830	ppbv	98
7) Chloroethane	1.703	64	29584	13.309	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	165709	14.271	ppbv	97
9) Propene	1.483	41	81393m	12.782	ppbv	
10) Heptane	4.972	43	225935	12.934	ppbv	100
11) Trichlorofluoromethane	1.874	101	200703	14.840	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	152772	14.469	ppbv	98
13) Ethanol	1.719	45	25468	12.425	ppbv	99
14) Bromoethene	1.781	108	55813	13.789	ppbv	96
15) Acetone	1.832	43	161036	11.712	ppbv	99
16) 1,3-Butadiene	1.609	39	81077	13.226	ppbv	99
17) tert-Butyl alcohol	2.036	59	257617	14.274	ppbv	99
18) 1,1-Dichloroethene	2.033	96	65731	13.370	ppbv	96
19) Isopropyl Alcohol	1.881	45	105271	13.549	ppbv	99
20) Methylene Chloride	2.059	84	59798	15.164	ppbv	93
21) Allyl Chloride	2.094	41	126959	13.724	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	77386	13.772	ppbv	94
23) Vinyl Acetate	2.457	43	232315	13.995	ppbv	99
24) 1,1-Dichloroethane	2.405	63	155017	14.292	ppbv	98
25) Ethyl Acetate	2.829	43	394074	13.265	ppbv	99
26) Hexane	2.823	57	172303	13.252	ppbv	97
27) Carbon Disulfide	2.150	76	191612	14.435	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	91132	14.279	ppbv	97
29) Chloroform	2.845	83	262803	14.221	ppbv	100
30) Cyclohexane	3.852	84	152015	13.946	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	180647	13.978	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	276915	13.930	ppbv	98
34) 2-Butanone	2.551	43	253855	13.914	ppbv	100
35) Carbon Tetrachloride	3.755	117	279560	14.250	ppbv	96
36) Benzene	3.651	78	348892	14.096	ppbv	99
37) 1,2-Dichloroethane	3.214	62	214248	14.798	ppbv	98
38) Trichloroethene	4.541	130	137027	14.123	ppbv	93
39) 1,2-Dichloropropane	4.302	63	128700	14.206	ppbv	98
40) 1,4-Dioxane	4.571	88	55905	13.728	ppbv #	95
41) Tetrahydrofuran	3.043	42	139722	13.868	ppbv	99
42) Bromodichloromethane	4.480	83	294008	14.721	ppbv	97
43) Methyl Methacrylate	4.872	69	179110	13.633	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	595778	14.014	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	177678	14.508	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043210.D
 Acq On : 18 Nov 2025 13:24
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:53:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

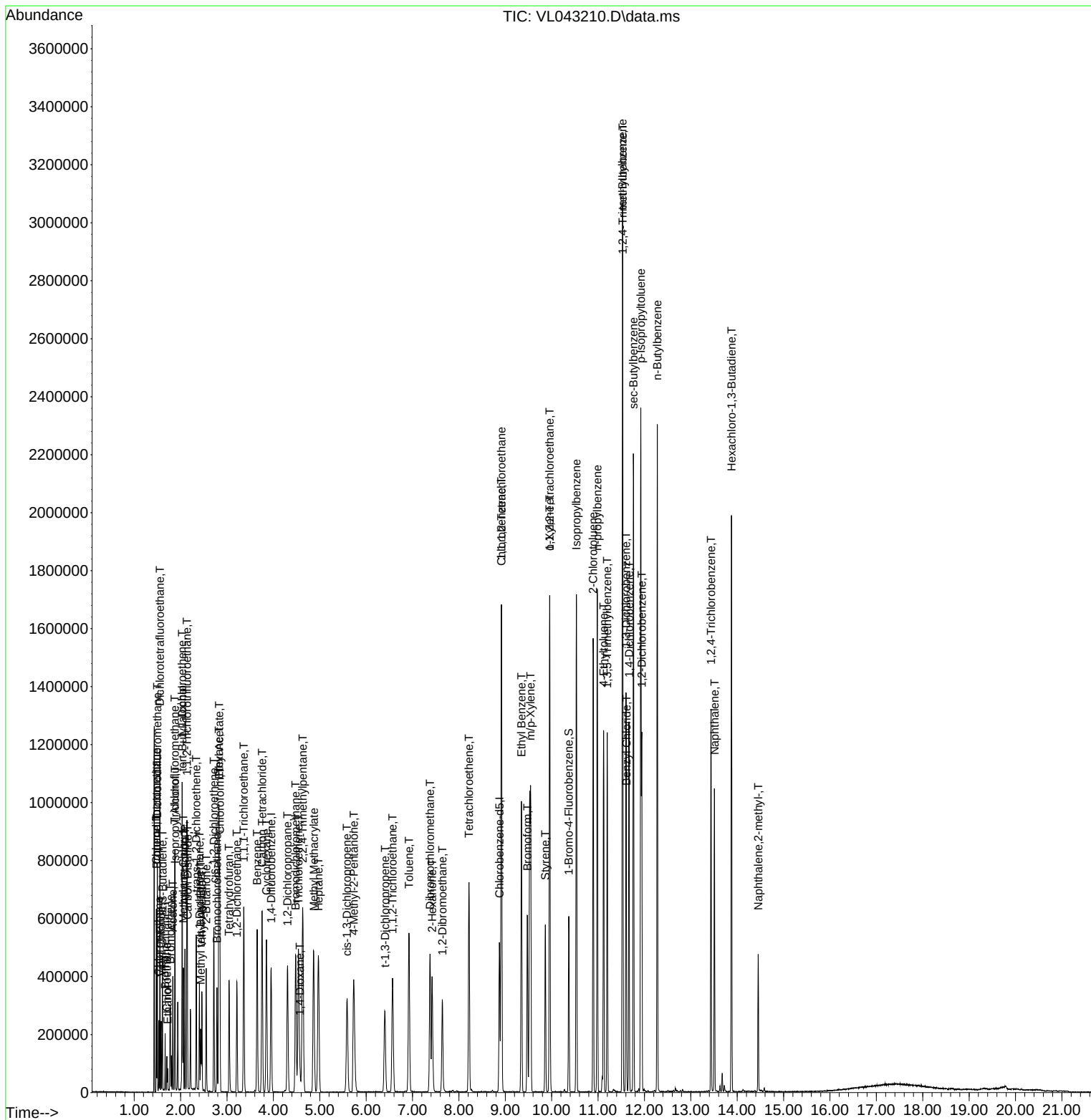
Response via : Initial Calibration

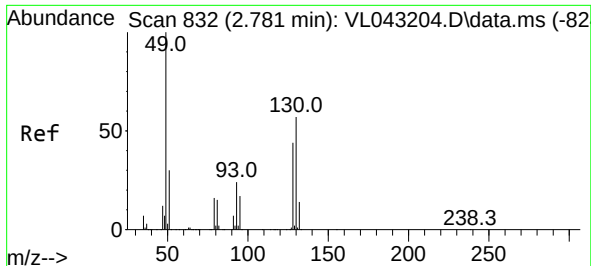
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	205226	14.270	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	132701	13.738	ppbv	92
48) Dibromochloromethane	7.377	129	240736	14.564	ppbv	99
49) Bromoform	9.477	173	211325	14.434	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	354421	13.790	ppbv	99
51) 2-Hexanone	7.422	43	280742	14.067	ppbv #	100
52) Tetrachloroethene	8.218	164	125132	13.591	ppbv	93
53) Toluene	6.924	91	414411	14.050	ppbv	99
54) 1,2-Dibromoethane	7.642	107	203913	14.413	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.917	131	214673	13.827	ppbv	99
57) Chlorobenzene	8.914	112	301986	13.923	ppbv	98
58) Ethyl Benzene	9.348	91	579890	14.262	ppbv	99
59) m/p-Xylene	9.545	91	916113m	28.000	ppbv	
60) o-Xylene	9.956	91	450260	13.826	ppbv	99
61) Styrene	9.862	104	204972	14.382	ppbv	99
62) Isopropylbenzene	10.532	105	803487	13.791	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	280254	13.557	ppbv	99
64) n-propylbenzene	10.986	120	205637	13.737	ppbv	100
65) tert-Butylbenzene	11.526	119	689352	13.249	ppbv	98
66) Benzyl Chloride	11.610	91	71386	13.520	ppbv	100
67) sec-Butylbenzene	11.762	105	972780	13.394	ppbv	100
69) p-Isopropyltoluene	11.921	119	836888	13.602	ppbv	99
70) n-Butylbenzene	12.277	91	838598	14.050	ppbv	99
71) 2-Chlorotoluene	10.895	91	625884	13.976	ppbv	100
72) 4-Ethyltoluene	11.121	105	553654	13.961	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	460783	13.846	ppbv	97
74) 1,2,4-Trimethylbenzene	11.533	105	486995	13.409	ppbv	97
75) 1,3-Dichlorobenzene	11.604	146	292143	13.784	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	294723	13.903	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	273467	13.420	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	211153	12.416	ppbv	99
79) Naphthalene	13.510	128	473229	14.670	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	139019	16.418	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	216260	14.990	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration





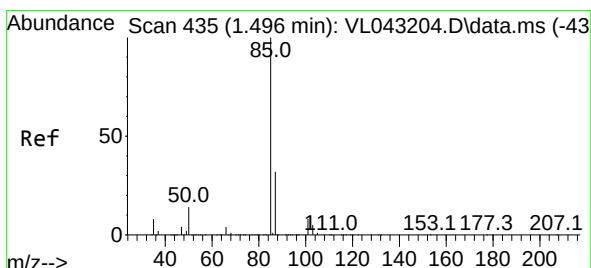
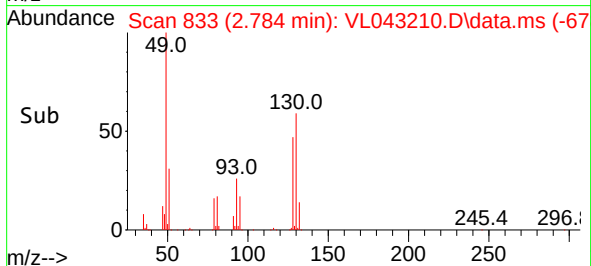
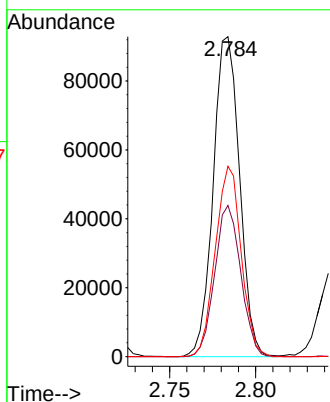
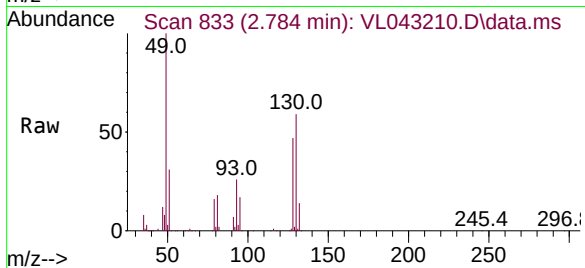
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 49 Resp: 98968
Ion Ratio Lower Upper
49 100
128 46.7 23.0 69.0
130 58.4 29.9 89.7

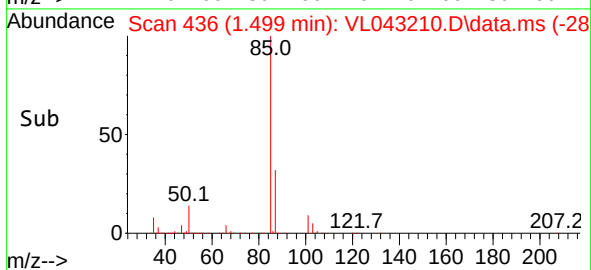
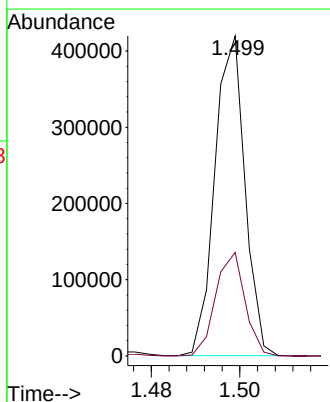
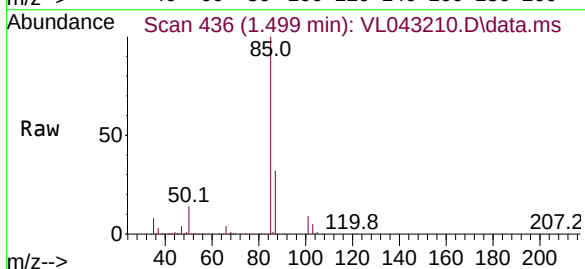
Manual Integrations
APPROVED

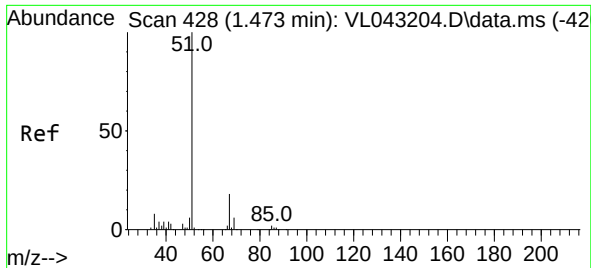
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 14.184 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 197987
Ion Ratio Lower Upper
85 100
87 32.4 25.4 38.2





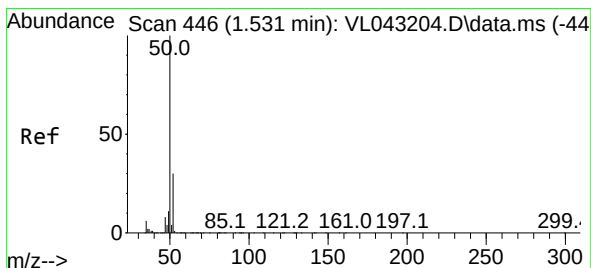
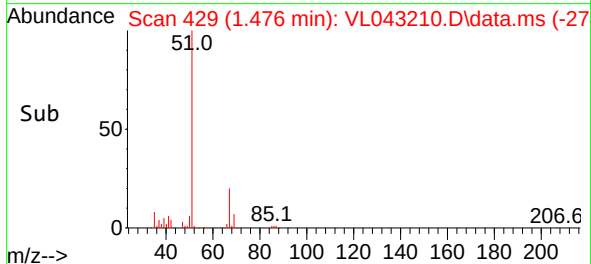
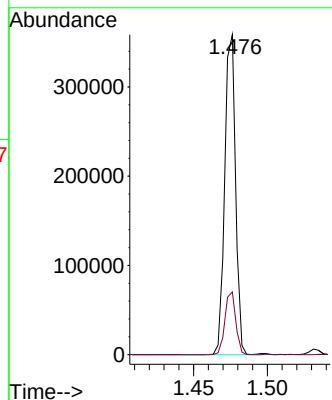
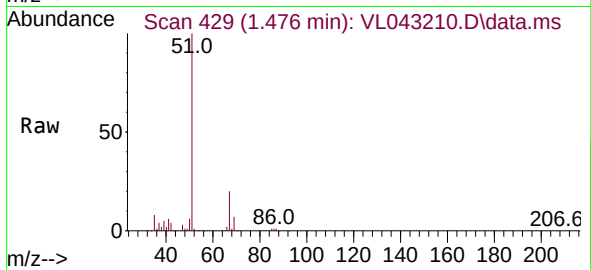
#3
Chlorodifluoromethane
Concen: 13.317 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 182813
Ion Ratio Lower Upper
51 100
67 19.7 14.9 22.3

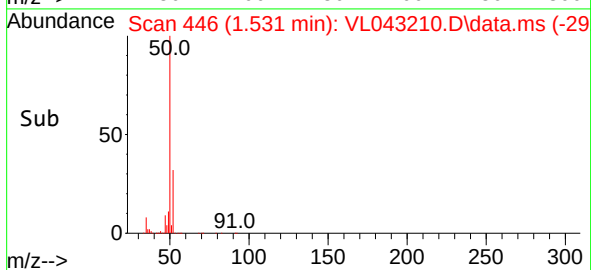
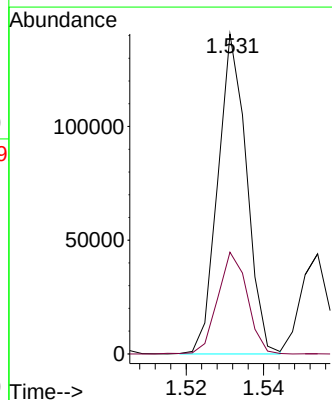
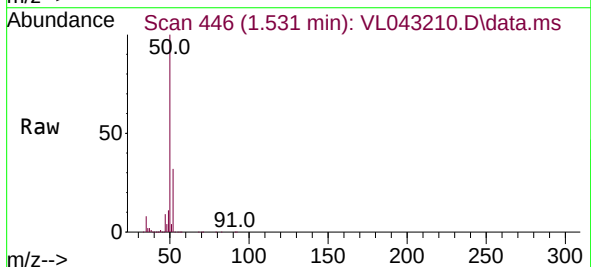
Manual Integrations
APPROVED

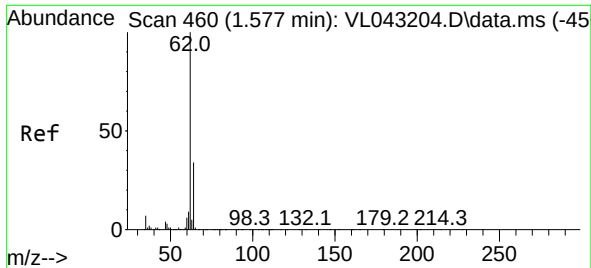
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 13.918 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 50 Resp: 72636
Ion Ratio Lower Upper
50 100
52 31.7 24.1 36.1





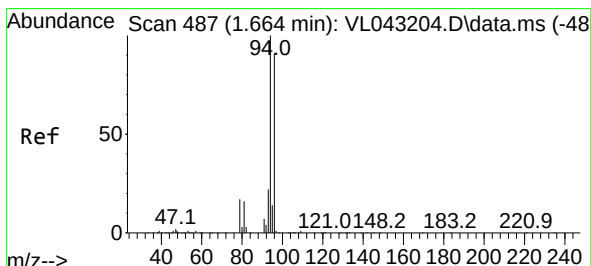
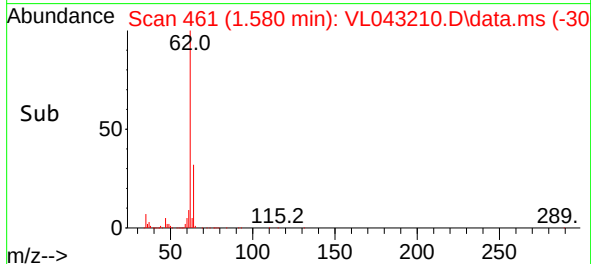
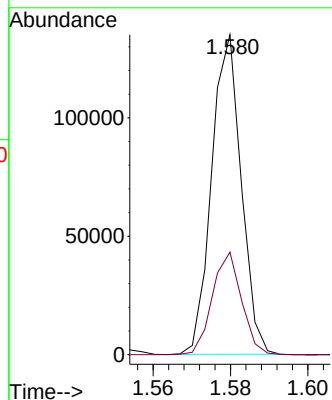
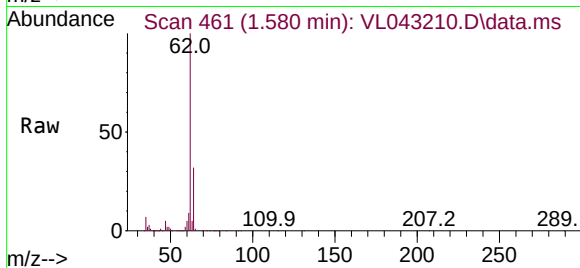
#5
 Vinyl Chloride
 Concen: 12.557 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 7167
 Ion Ratio Lower Upper
 62 100
 64 32.0 27.3 40.9

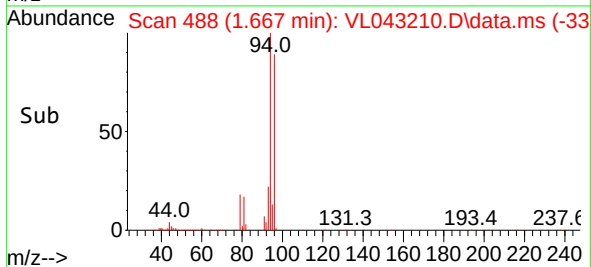
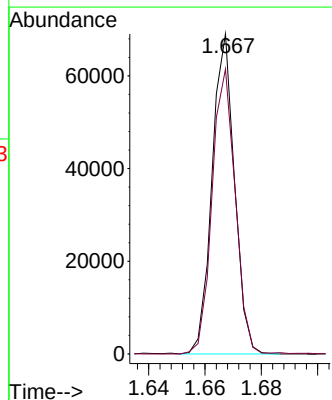
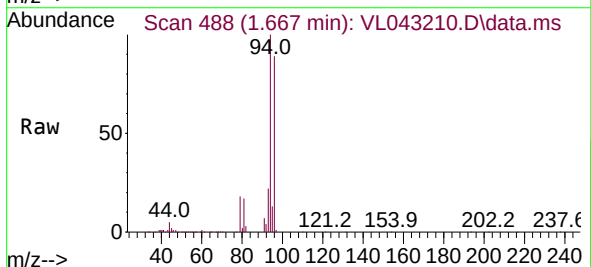
Manual Integrations
 APPROVED

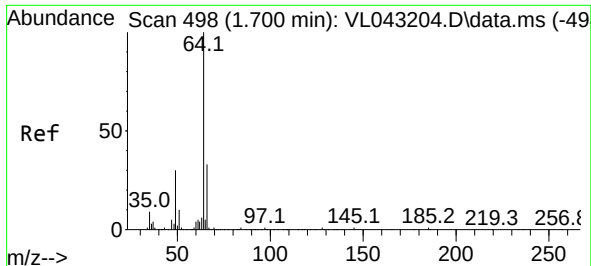
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#6
 Bromomethane
 Concen: 13.830 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

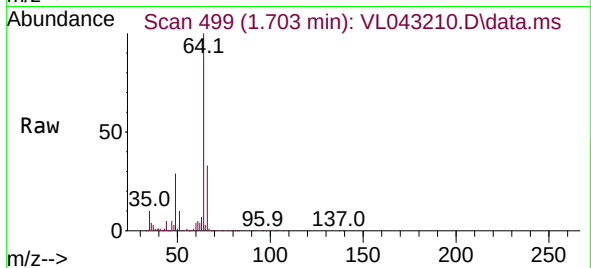
Tgt Ion: 94 Resp: 38265
 Ion Ratio Lower Upper
 94 100
 96 89.0 72.9 109.3





#7
Chloroethane
Concen: 13.309 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

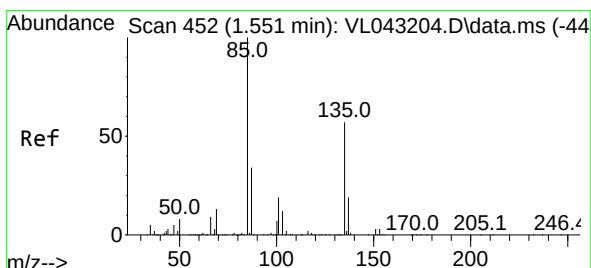
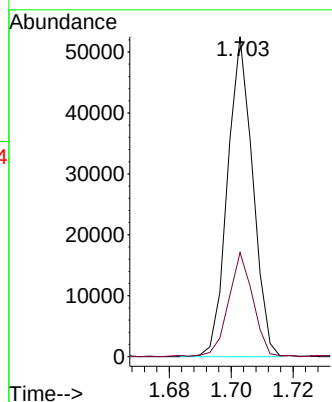
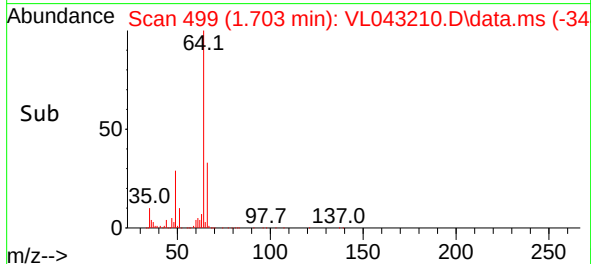
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



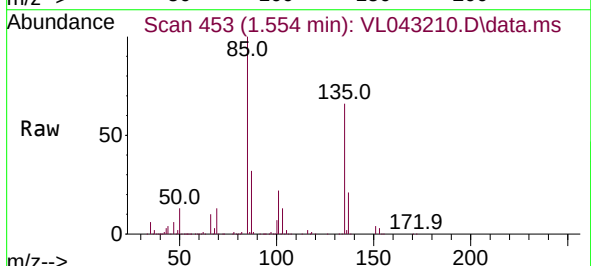
Tgt Ion: 64 Resp: 29584
Ion Ratio Lower Upper
64 100
66 32.6 26.8 40.2

Manual Integrations
APPROVED

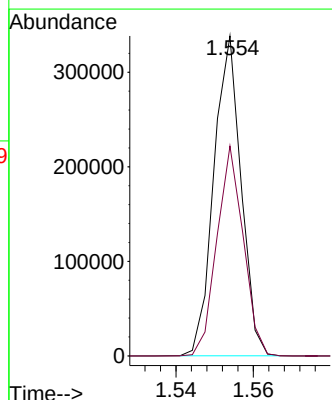
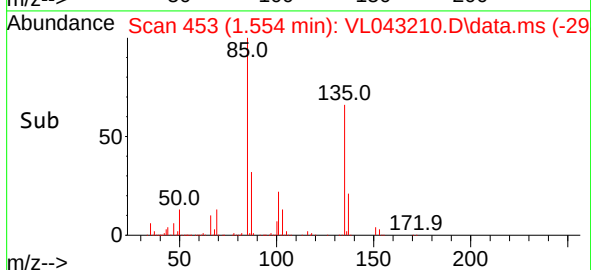
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

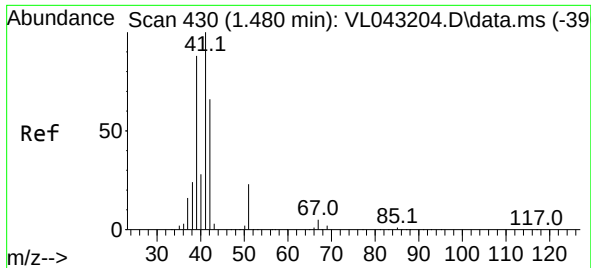


#8
Dichlorotetrafluoroethane
Concen: 14.271 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



Tgt Ion: 85 Resp: 165709
Ion Ratio Lower Upper
85 100
135 63.7 52.6 79.0





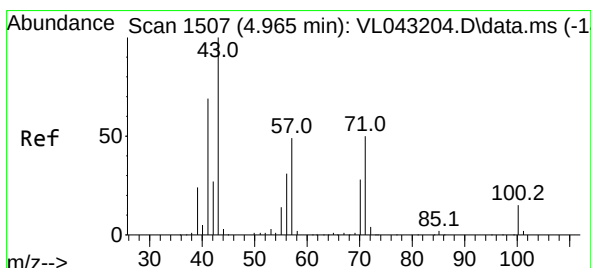
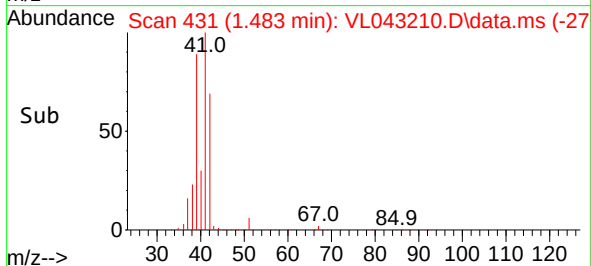
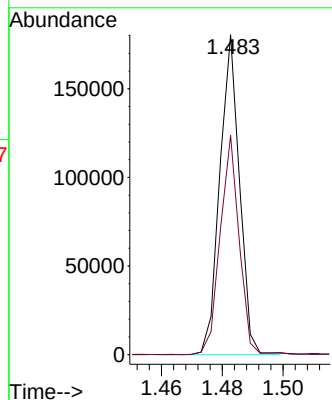
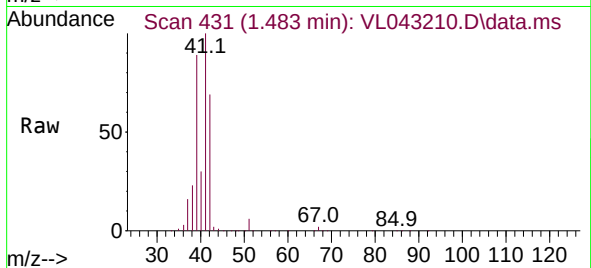
#9
 Propene
 Concen: 12.782 ppbv m
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 41 Resp: 81393
 Ion Ratio Lower Upper
 41 100
 42 4.8 3.7 5.5

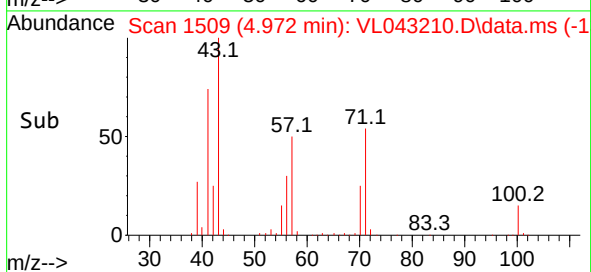
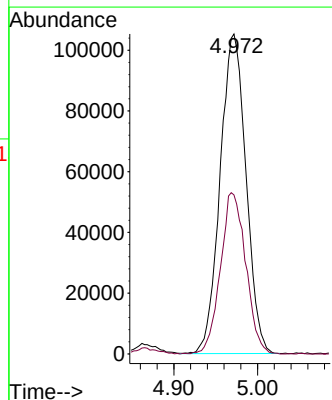
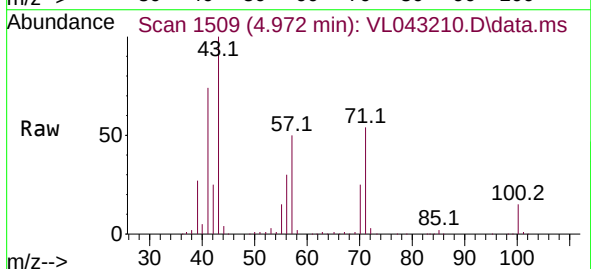
Manual Integrations
 APPROVED

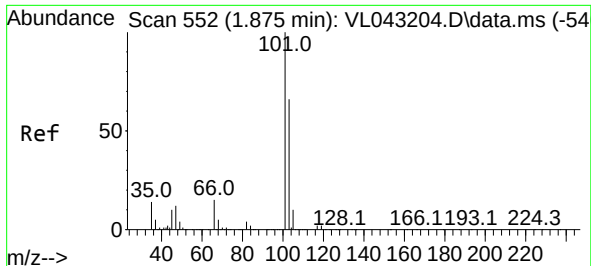
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 12.934 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.006 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

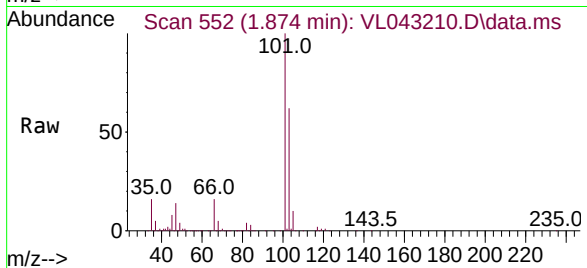
Tgt Ion: 43 Resp: 225935
 Ion Ratio Lower Upper
 43 100
 57 49.4 39.7 59.5





#11
Trichlorofluoromethane
Concen: 14.840 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

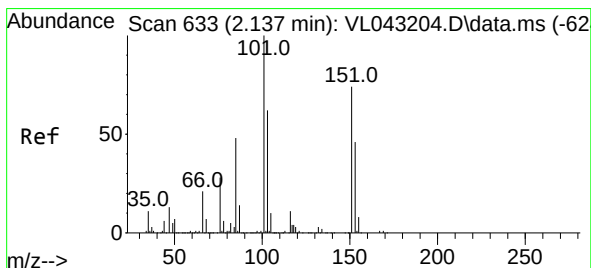
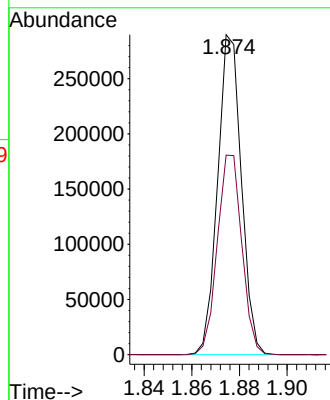
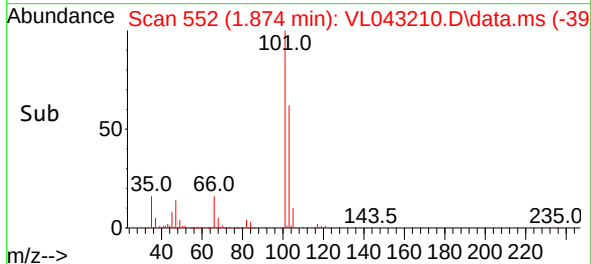
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



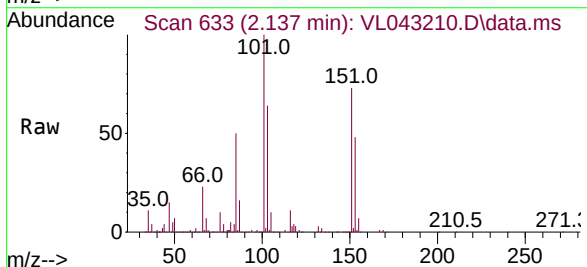
Tgt Ion:101 Resp: 200703
Ion Ratio Lower Upper
101 100
103 62.3 52.6 79.0

Manual Integrations
APPROVED

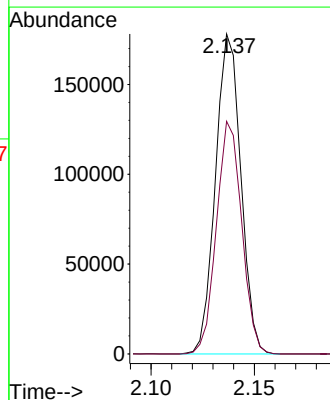
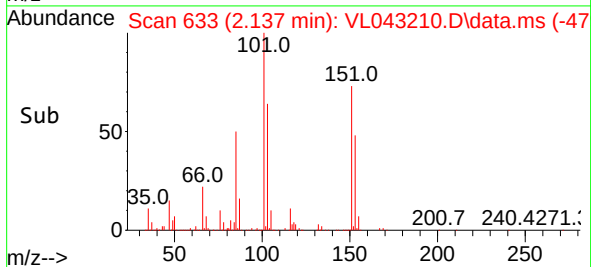
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

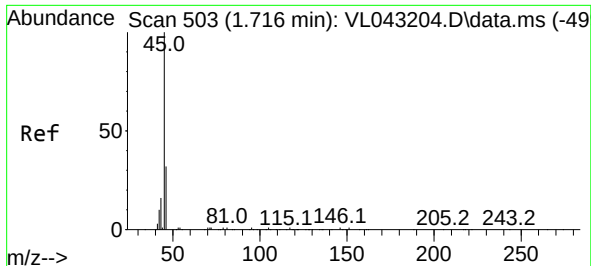


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.469 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



Tgt Ion:101 Resp: 152772
Ion Ratio Lower Upper
101 100
151 72.3 59.2 88.8





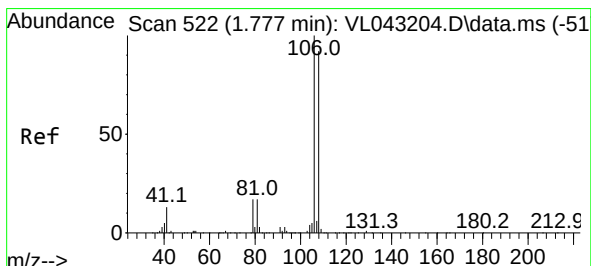
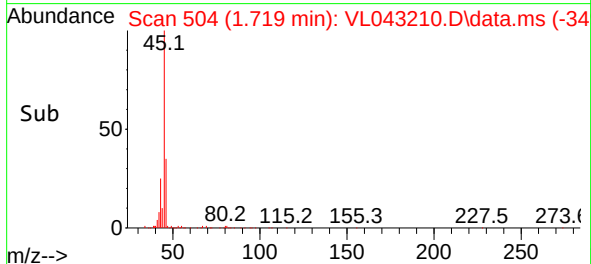
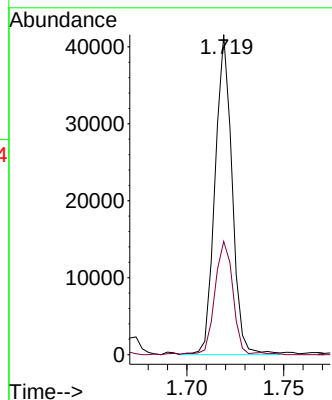
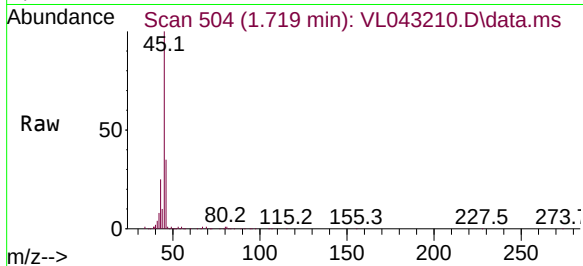
#13
Ethanol
Concen: 12.425 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 45 Resp: 25468
Ion Ratio Lower Upper
45 100
46 37.9 15.0 59.8

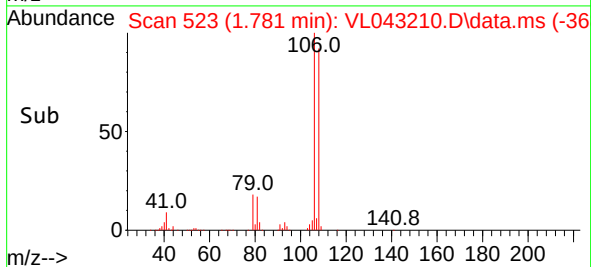
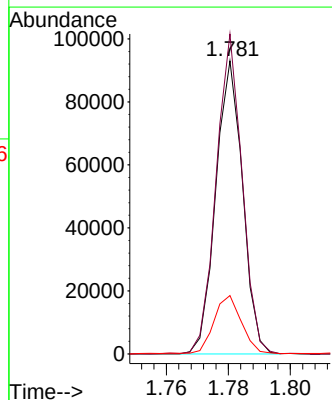
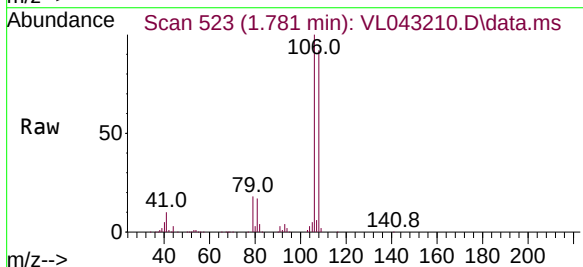
Manual Integrations
APPROVED

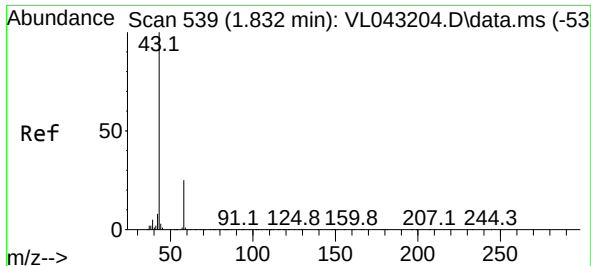
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#14
Bromoethene
Concen: 13.789 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

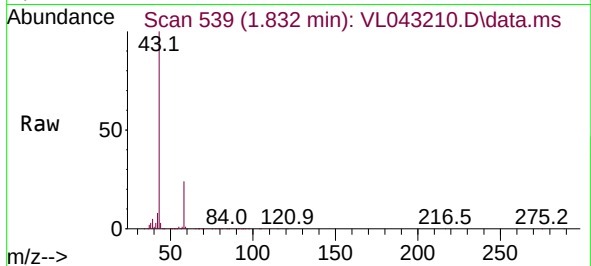
Tgt Ion:108 Resp: 55813
Ion Ratio Lower Upper
108 100
106 105.8 88.9 133.3
79 20.6 16.5 24.7





#15
Acetone
Concen: 11.712 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

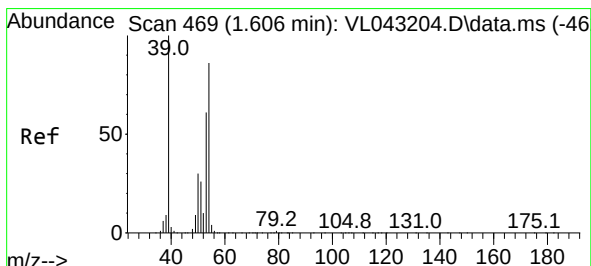
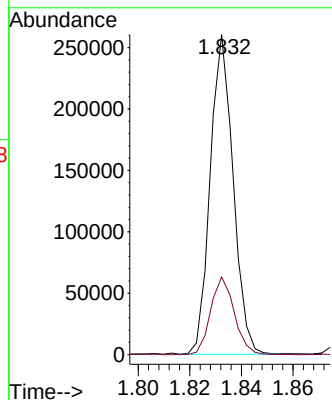
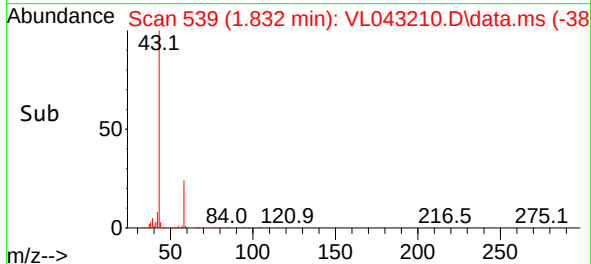
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



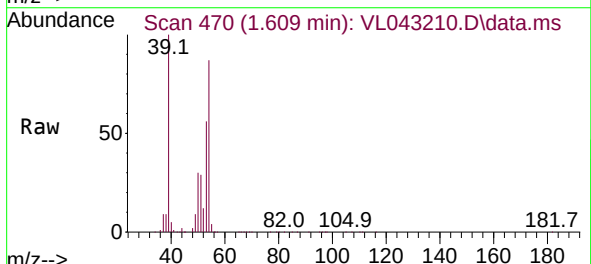
Tgt Ion: 43 Resp: 161036
Ion Ratio Lower Upper
43 100
58 25.1 20.7 31.1

Manual Integrations
APPROVED

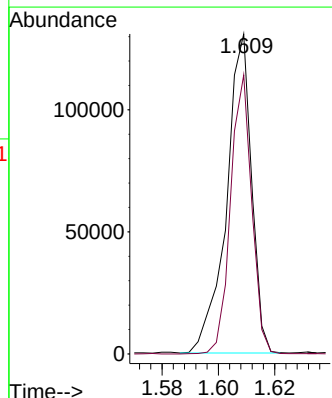
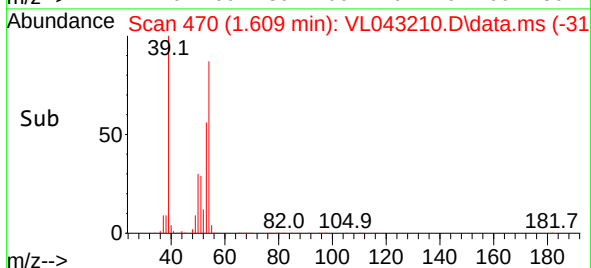
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

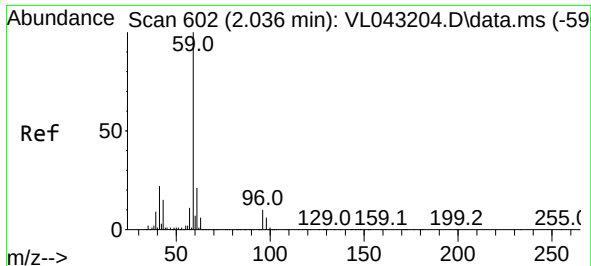


#16
1,3-Butadiene
Concen: 13.226 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



Tgt Ion: 39 Resp: 81077
Ion Ratio Lower Upper
39 100
54 73.5 59.4 89.2





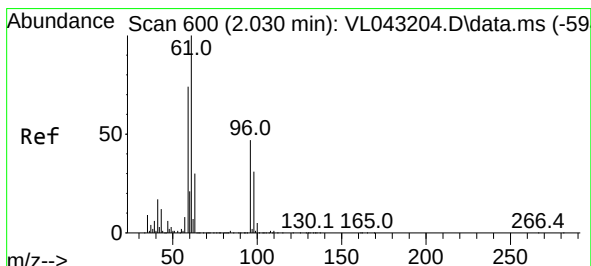
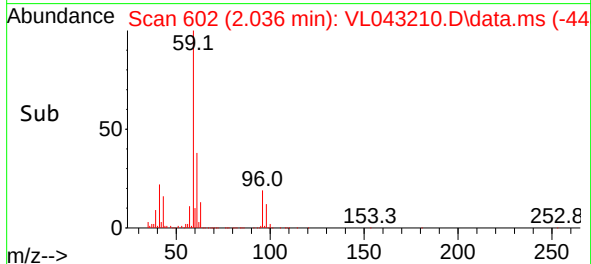
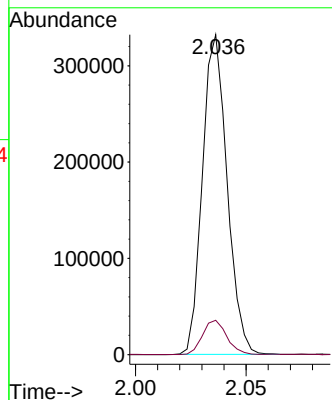
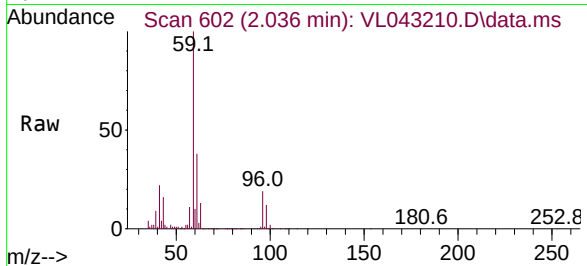
#17
tert-Butyl alcohol
Concen: 14.274 ppbv
RT: 2.036 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 257617
Ion Ratio Lower Upper
59 100
57 10.9 9.0 13.4

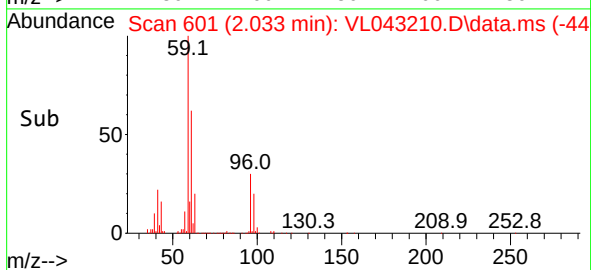
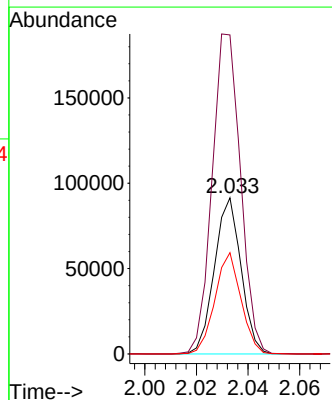
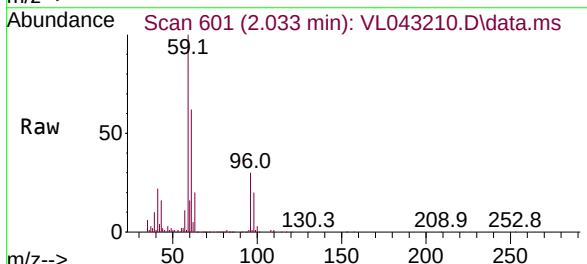
Manual Integrations
APPROVED

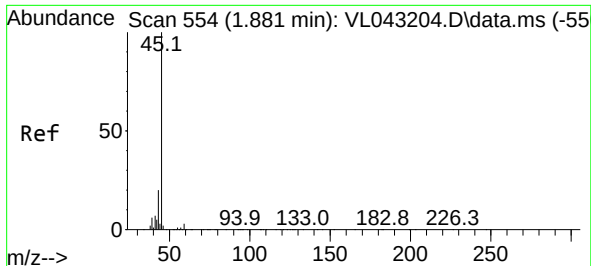
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#18
1,1-Dichloroethene
Concen: 13.370 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

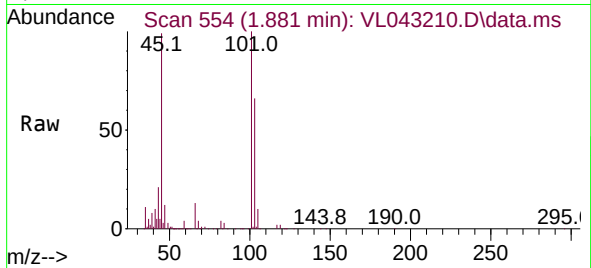
Tgt Ion: 96 Resp: 65731
Ion Ratio Lower Upper
96 100
61 204.3 170.6 255.8
98 64.7 52.2 78.4





#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

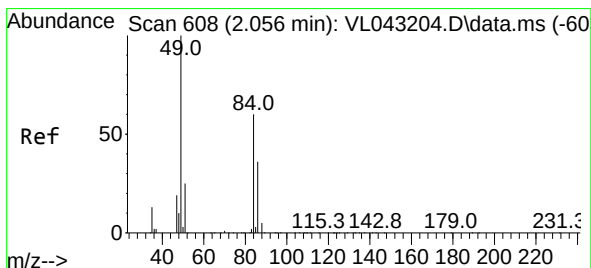
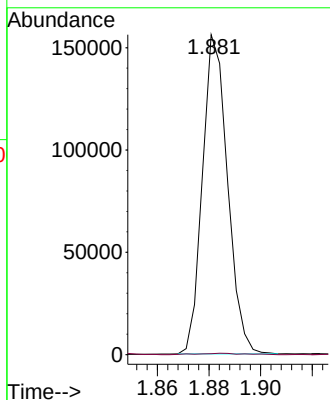
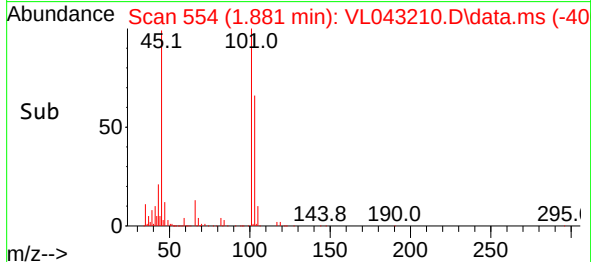
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



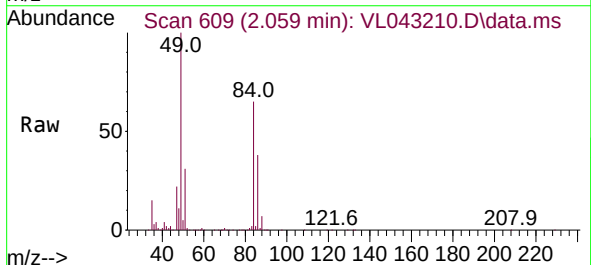
Tgt Ion: 45 Resp: 10527
Ion Ratio Lower Upper
45 100
58 38.5 31.3 46.9

Manual Integrations
APPROVED

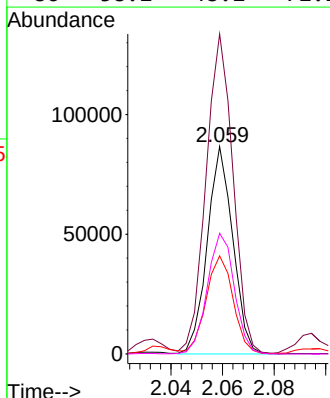
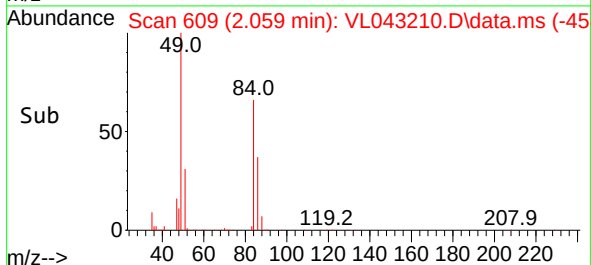
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

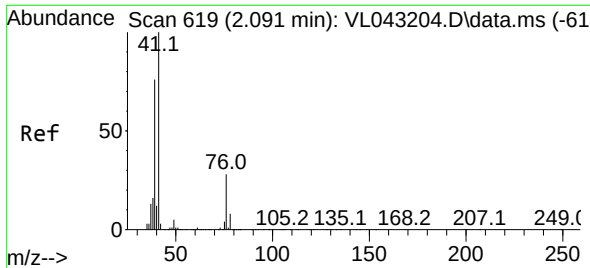


#20
Methylene Chloride
Concen: 15.164 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



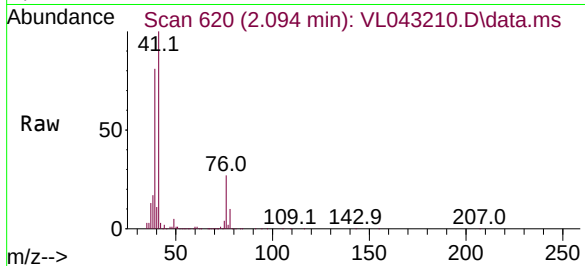
Tgt Ion: 84 Resp: 59798
Ion Ratio Lower Upper
84 100
49 153.8 132.9 199.3
51 47.0 34.8 52.2
86 58.2 48.2 72.2





#21
 Allyl Chloride
 Concen: 13.724 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

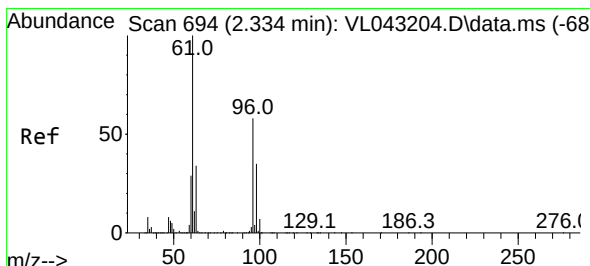
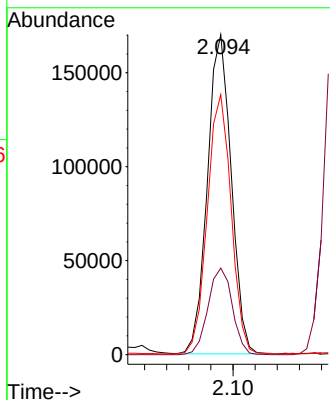
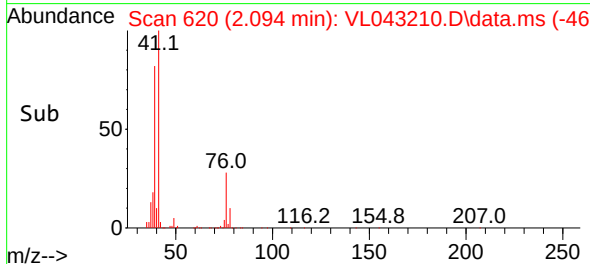
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



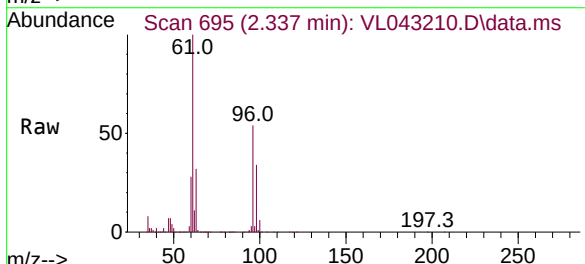
Tgt Ion: 41 Resp: 126959
 Ion Ratio Lower Upper
 41 100
 76 27.5 22.1 33.1
 39 81.3 61.0 91.4

Manual Integrations
 APPROVED

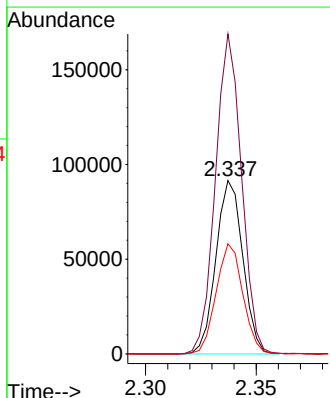
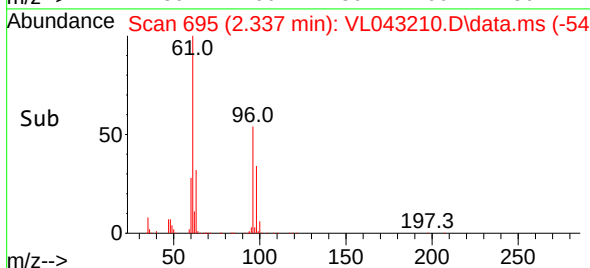
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

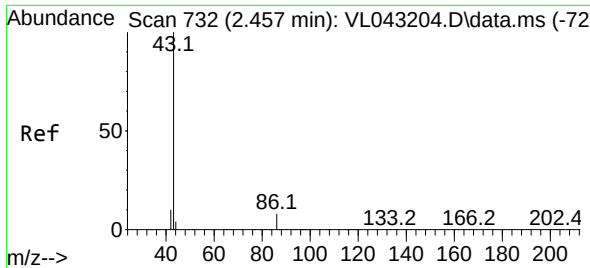


#22
 trans-1,2-Dichloroethene
 Concen: 13.772 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.003 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24



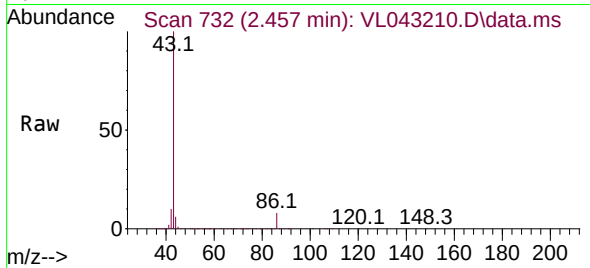
Tgt Ion: 96 Resp: 77386
 Ion Ratio Lower Upper
 96 100
 61 184.6 139.0 208.6
 98 63.5 49.4 74.2





#23
 Vinyl Acetate
 Concen: 13.995 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.000 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

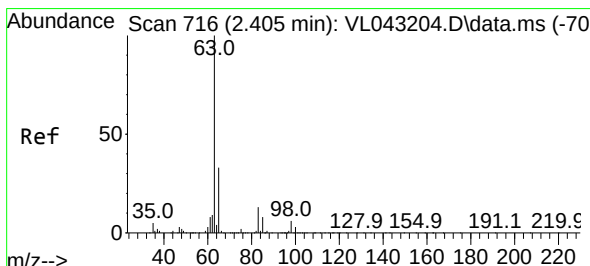
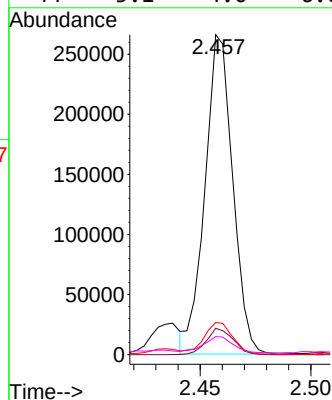
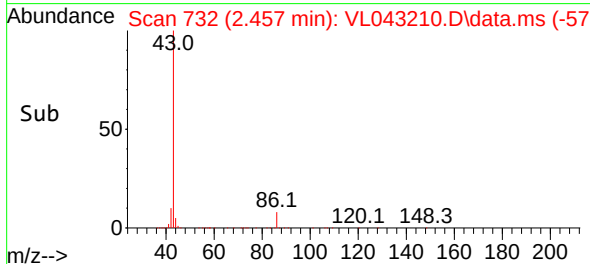
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 43 Resp: 232315
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.2 9.2
 42 10.1 8.0 12.0
 44 5.1 4.0 6.0

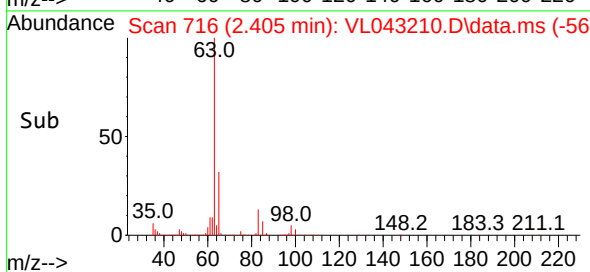
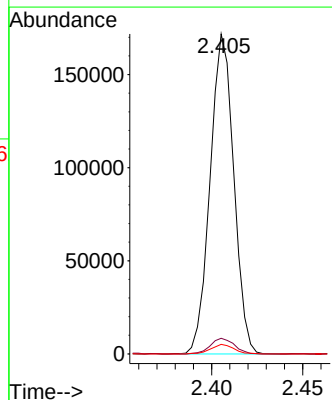
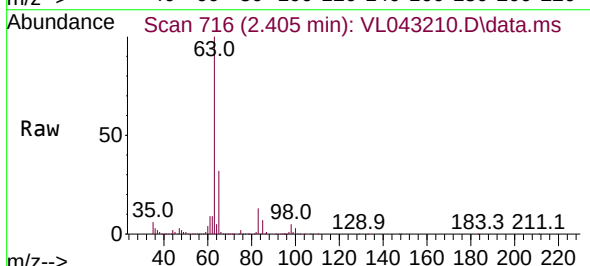
Manual Integrations
 APPROVED

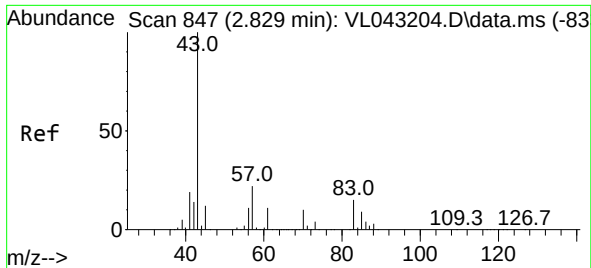
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#24
 1,1-Dichloroethane
 Concen: 14.292 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

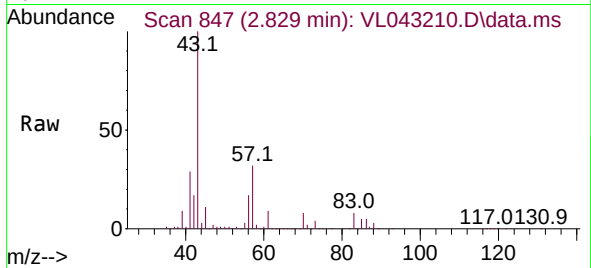
Tgt Ion: 63 Resp: 155017
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.8 8.4
 100 3.0 1.3 3.9





#25
Ethyl Acetate
Concen: 13.265 ppbv
RT: 2.829 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

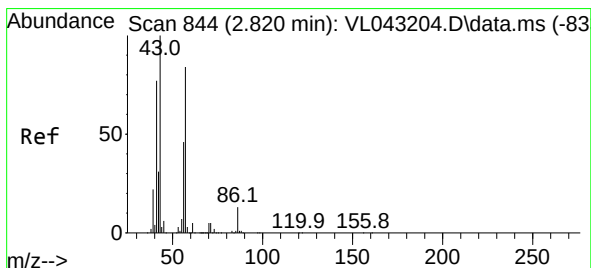
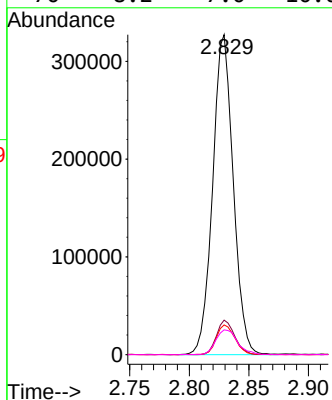
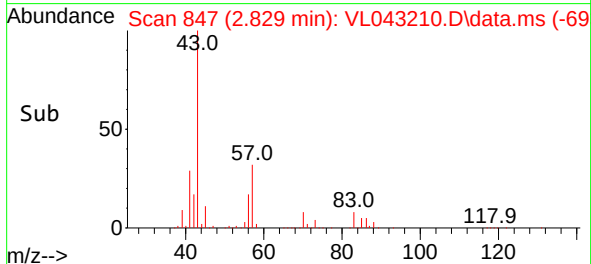
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 394074
Ion Ratio Lower Upper
43 100
45 9.5 8.1 12.1
61 8.4 7.0 10.4
70 8.2 7.0 10.6

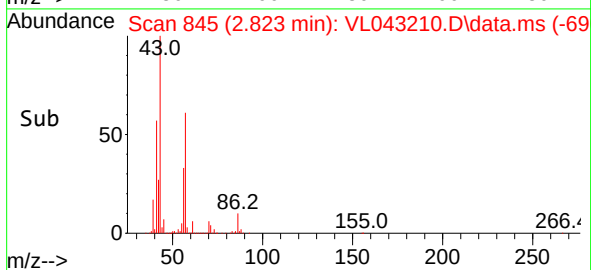
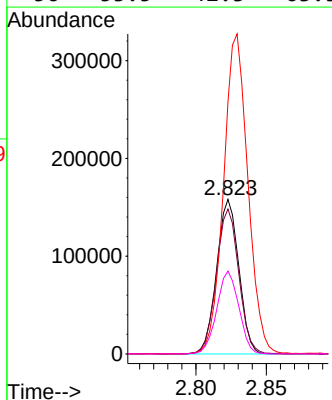
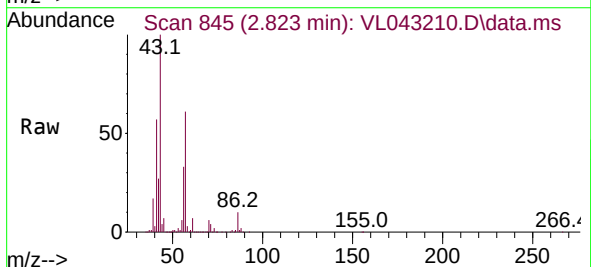
Manual Integrations
APPROVED

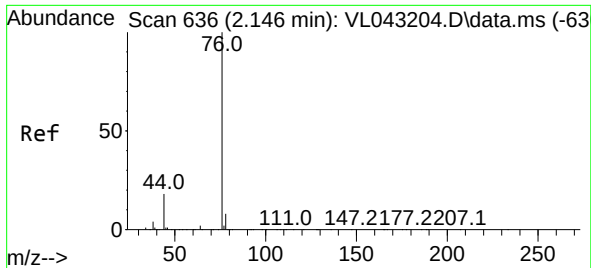
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#26
Hexane
Concen: 13.252 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

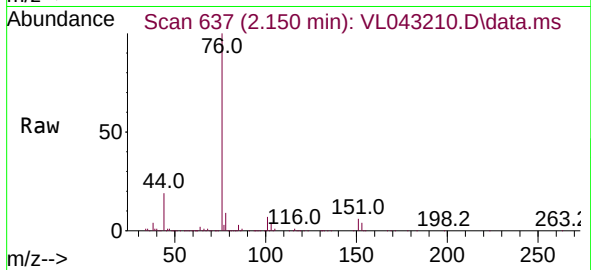
Tgt Ion: 57 Resp: 172303
Ion Ratio Lower Upper
57 100
41 95.4 74.6 111.8
43 229.0 179.0 268.4
56 53.5 42.3 63.5





#27
Carbon Disulfide
Concen: 14.435 ppbv
RT: 2.150 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

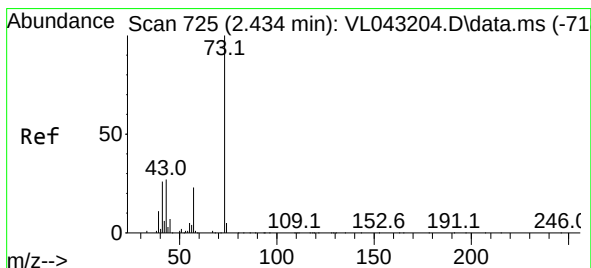
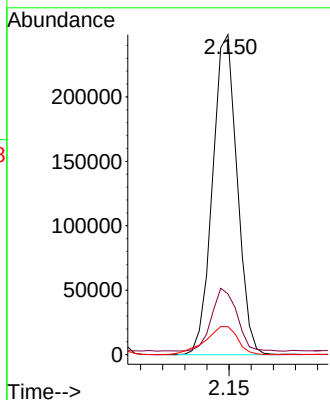
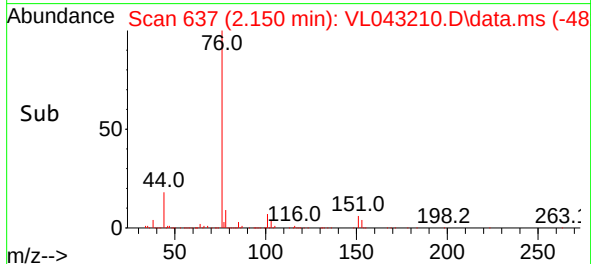
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 76 Resp: 191612
Ion Ratio Lower Upper
76 100
44 22.2 16.1 24.1
78 11.5 9.6 14.4

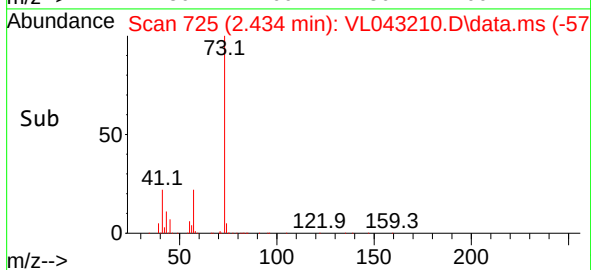
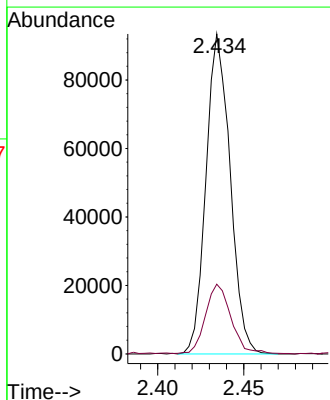
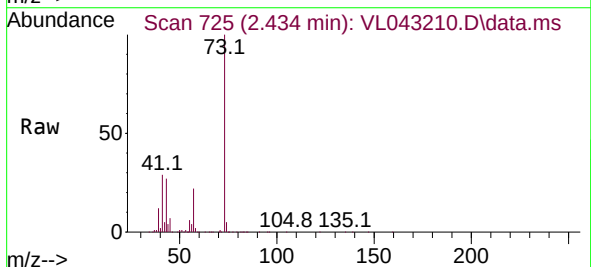
Manual Integrations
APPROVED

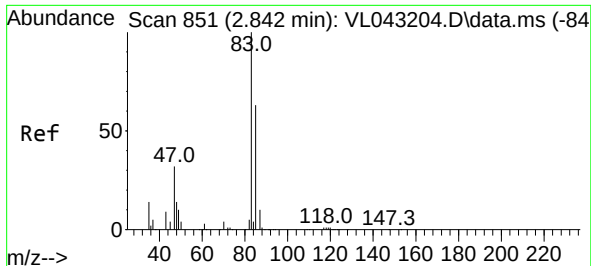
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#28
Methyl tert-Butyl Ether
Concen: 14.279 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 73 Resp: 91132
Ion Ratio Lower Upper
73 100
57 23.5 19.8 29.8





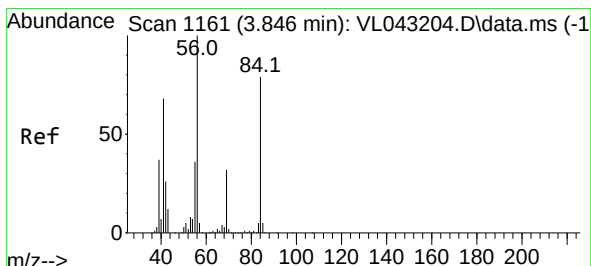
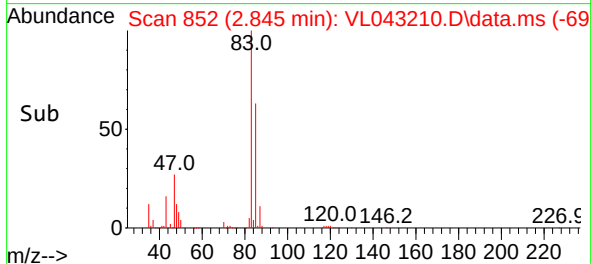
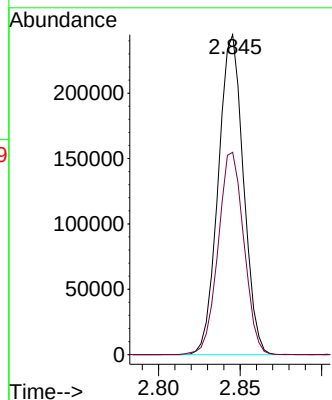
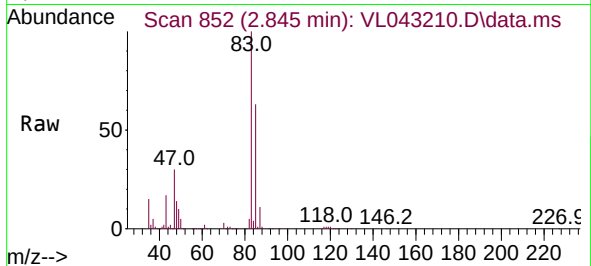
#29
Chloroform
Concen: 14.221 ppbv
RT: 2.845 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 262803
Ion Ratio Lower Upper
83 100
85 63.2 50.5 75.7

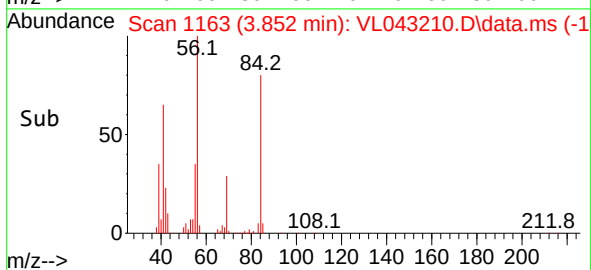
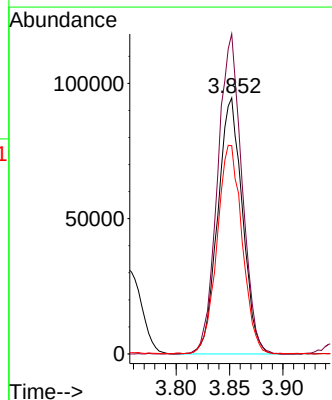
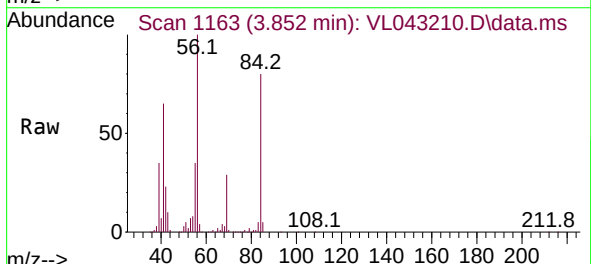
Manual Integrations
APPROVED

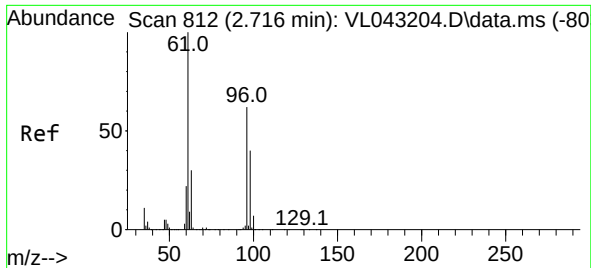
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 13.946 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 84 Resp: 152015
Ion Ratio Lower Upper
84 100
56 123.0 104.7 157.1
41 82.7 69.0 103.6





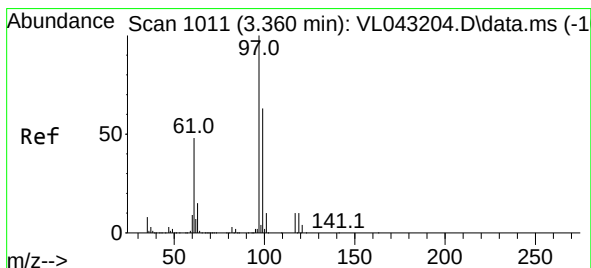
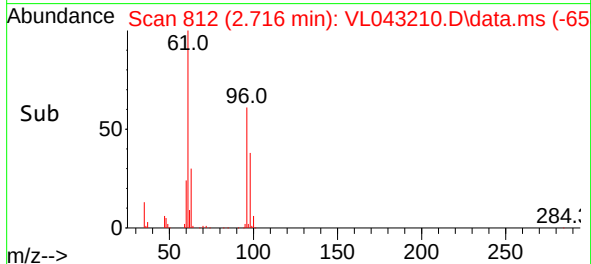
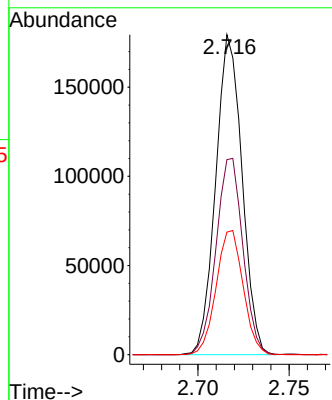
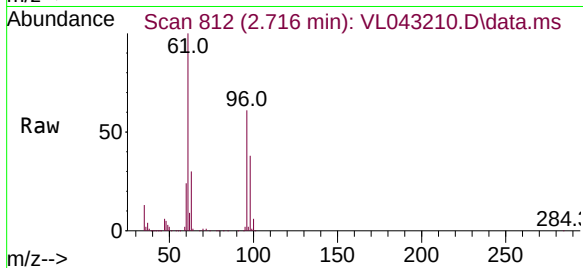
#31
cis-1,2-Dichloroethene
Concen: 13.978 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 61 Resp: 18064
Ion Ratio Lower Upper
61 100
96 60.9 49.3 73.9
98 38.3 32.1 48.1

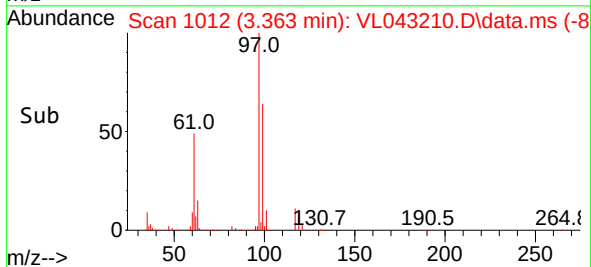
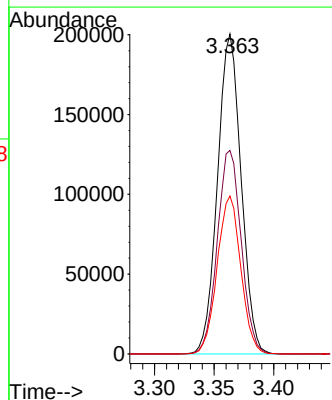
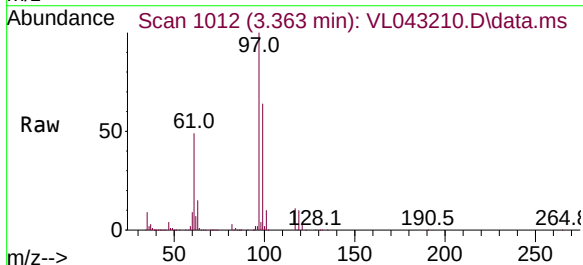
Manual Integrations
APPROVED

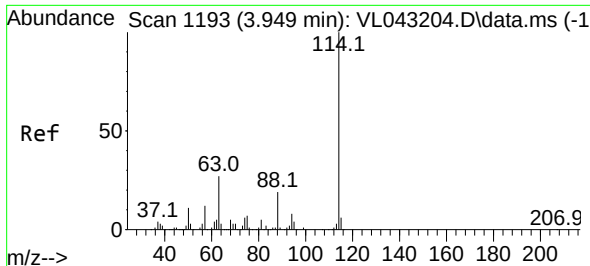
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#32
1,1,1-Trichloroethane
Concen: 13.930 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 97 Resp: 276915
Ion Ratio Lower Upper
97 100
99 64.4 50.3 75.5
61 49.3 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:114 Resp: 25846

Ion Ratio Lower Upper

114 100

63 26.2 21.0 31.6

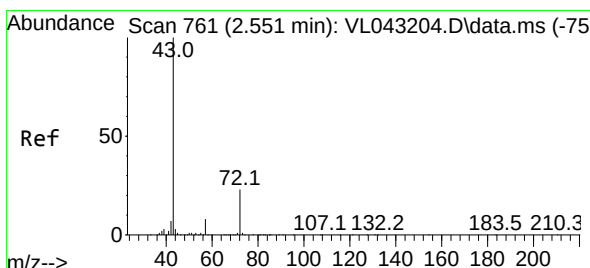
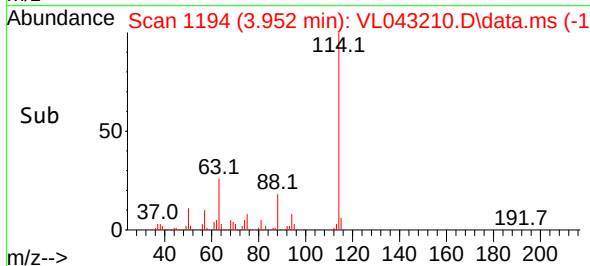
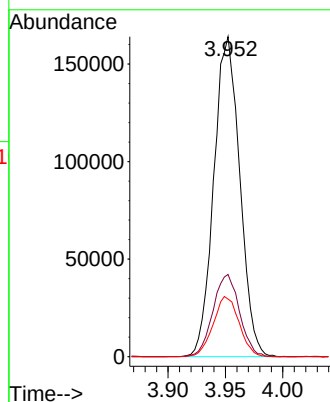
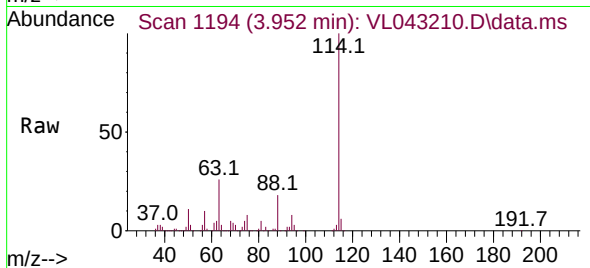
88 18.8 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 13.914 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.000 min

Lab File: VL043210.D

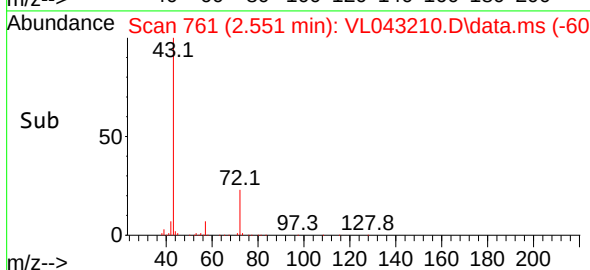
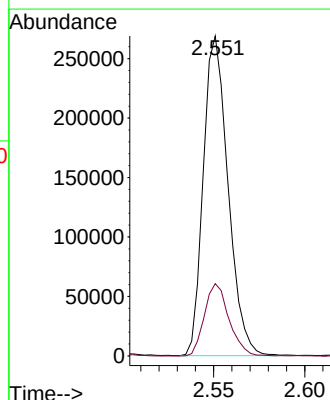
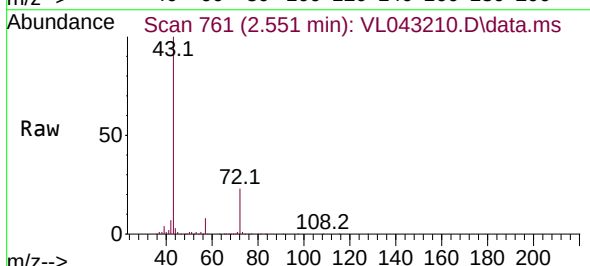
Acq: 18 Nov 2025 13:24

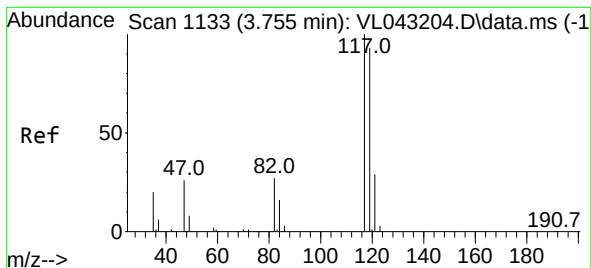
Tgt Ion: 43 Resp: 253855

Ion Ratio Lower Upper

43 100

72 22.4 18.1 27.1





#35

Carbon Tetrachloride

Concen: 14.250 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. -0.000 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:117 Resp: 279560

Ion Ratio Lower Upper

117 100

119 97.4 74.6 112.0

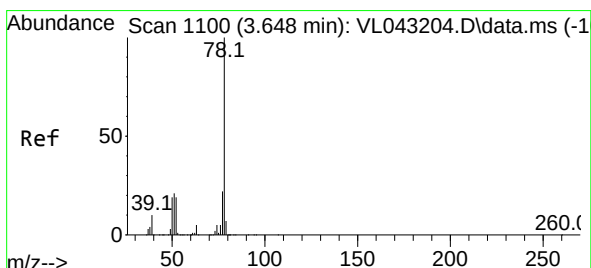
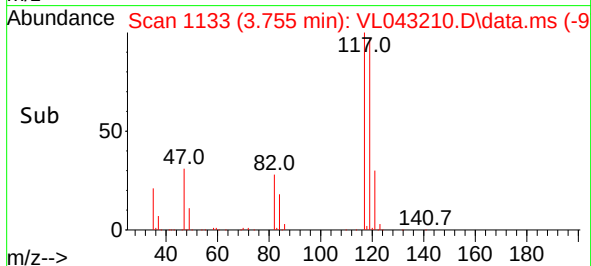
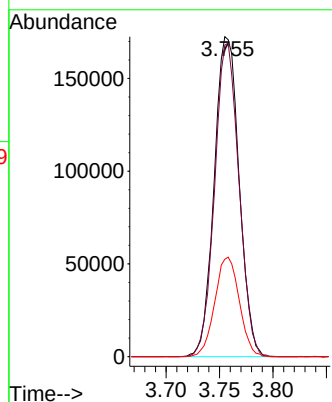
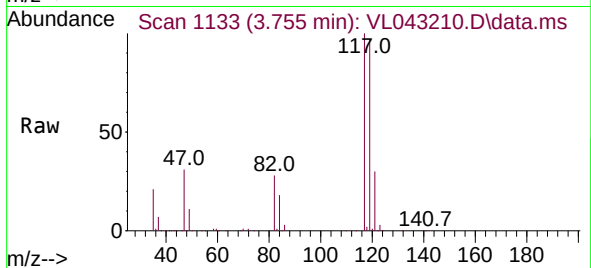
121 30.4 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#36

Benzene

Concen: 14.096 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

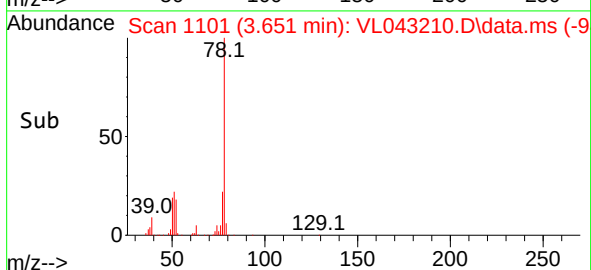
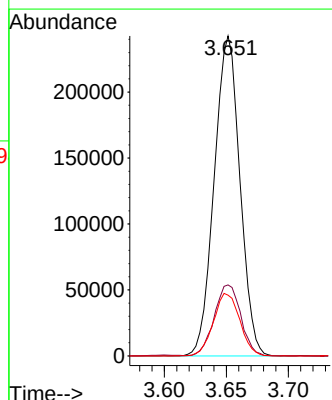
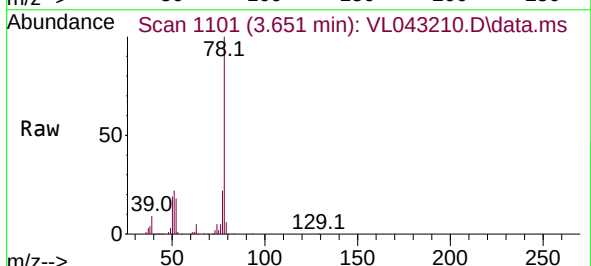
Tgt Ion: 78 Resp: 348892

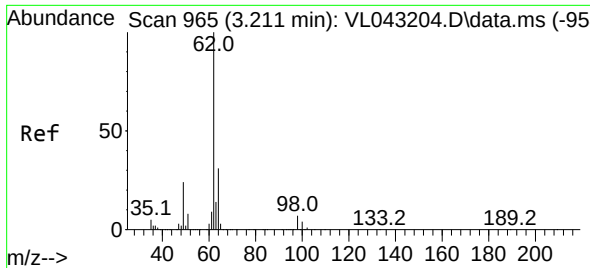
Ion Ratio Lower Upper

78 100

77 22.1 17.5 26.3

50 19.0 15.5 23.3





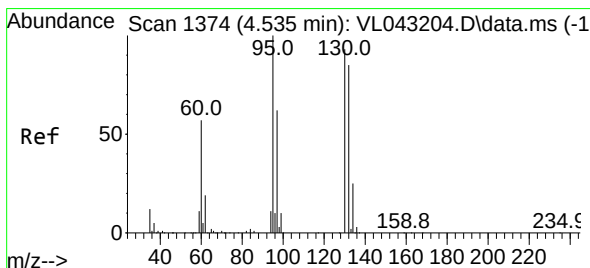
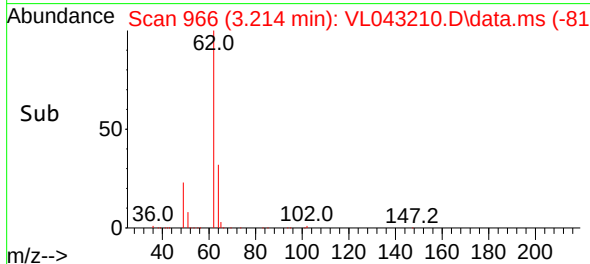
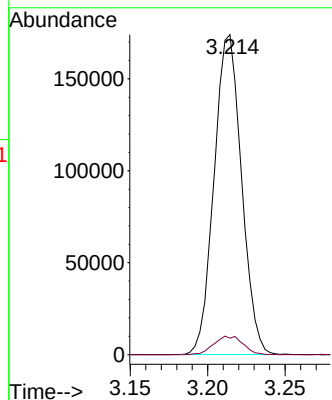
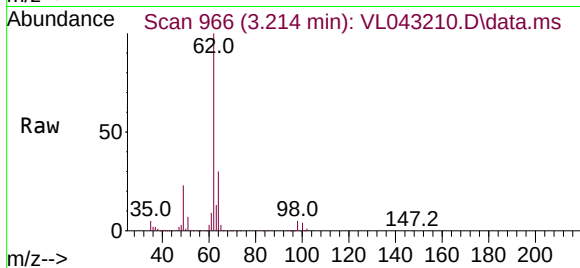
#37
1,2-Dichloroethane
Concen: 14.798 ppbv
RT: 3.214 min Scan# 965
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 62 Resp: 214248
Ion Ratio Lower Upper
62 100
98 6.1 5.5 8.3

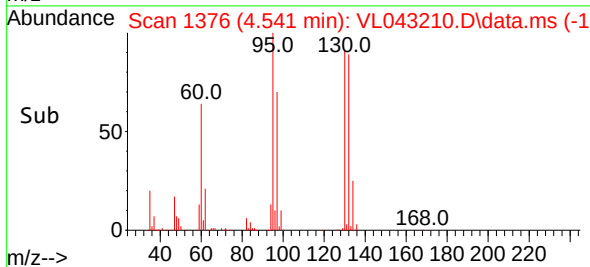
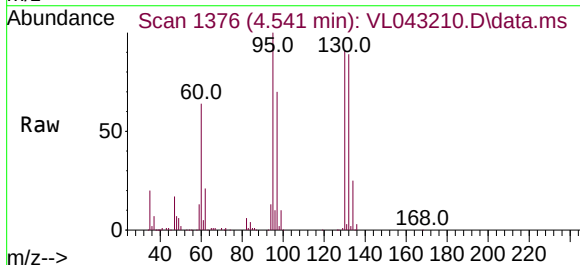
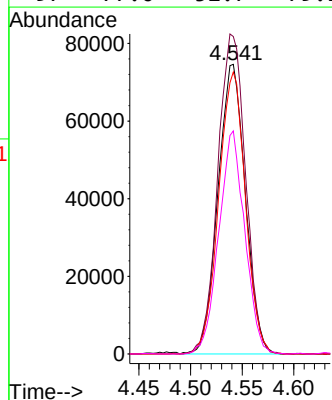
Manual Integrations
APPROVED

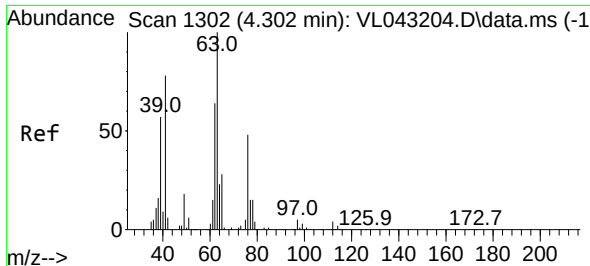
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 14.123 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:130 Resp: 137027
Ion Ratio Lower Upper
130 100
95 109.6 85.7 128.5
132 97.4 73.4 110.0
97 77.0 52.7 79.1





#39

1,2-Dichloropropane

Concen: 14.206 ppbv

RT: 4.302 min Scan# 1302

Delta R.T. -0.000 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

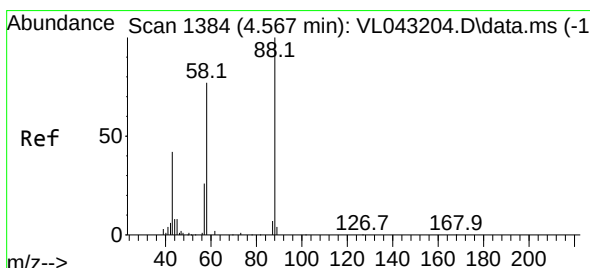
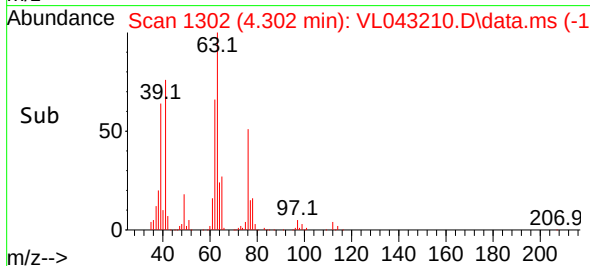
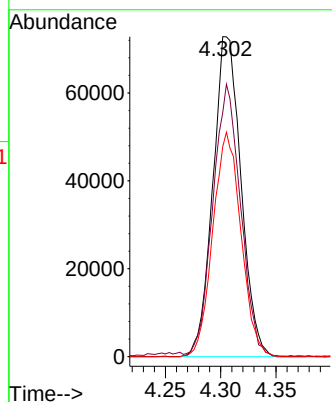
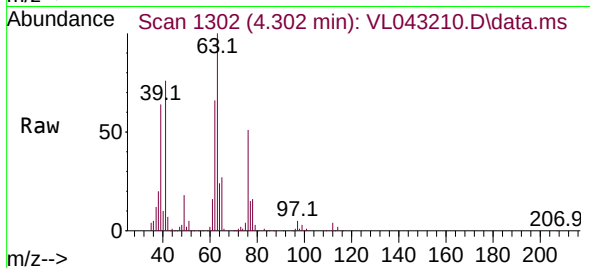
Tgt Ion: 63 Resp: 128700

Ion	Ratio	Lower	Upper
63	100		
41	75.9	62.6	93.8
62	65.6	51.0	76.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#40

1,4-Dioxane

Concen: 13.728 ppbv

RT: 4.571 min Scan# 1385

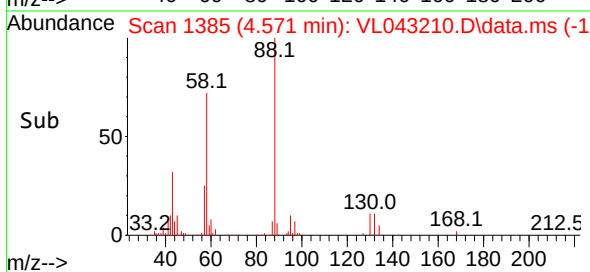
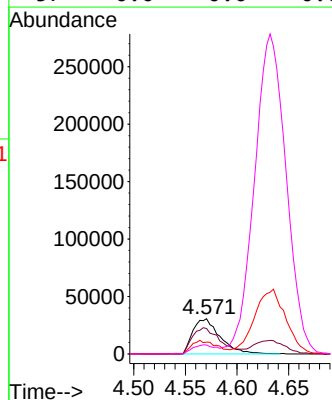
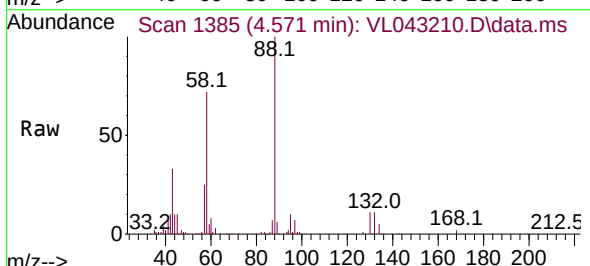
Delta R.T. 0.003 min

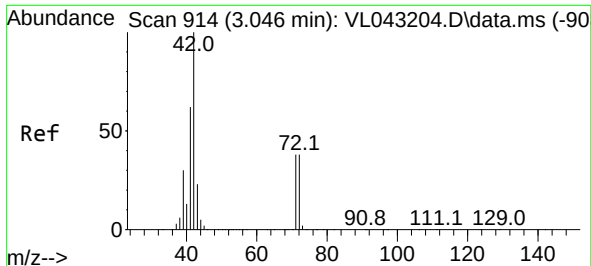
Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Tgt Ion: 88 Resp: 55905

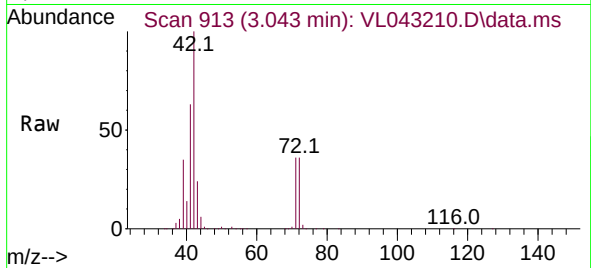
Ion	Ratio	Lower	Upper
88	100		
58	76.7	63.0	94.6
43	34.0	32.5	48.7
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 13.868 ppbv
RT: 3.043 min Scan# 914
Delta R.T. -0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

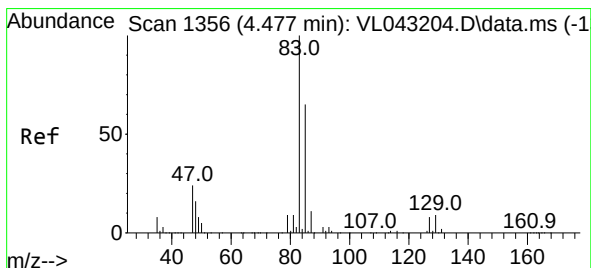
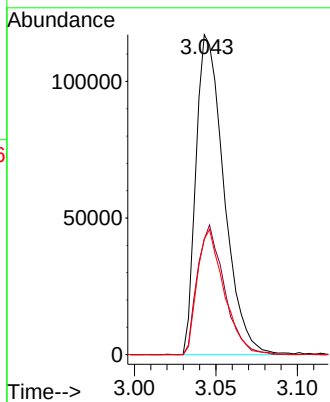
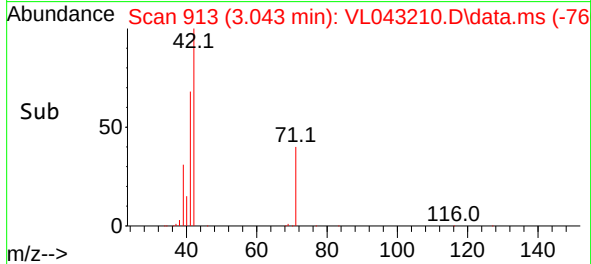
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



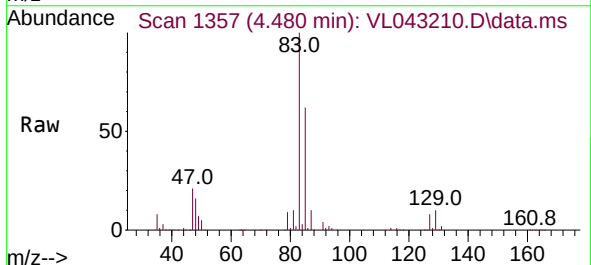
Tgt Ion: 42 Resp: 139722
Ion Ratio Lower Upper
42 100
72 39.1 30.6 46.0
71 37.3 30.5 45.7

Manual Integrations
APPROVED

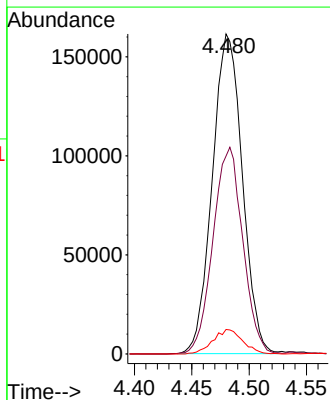
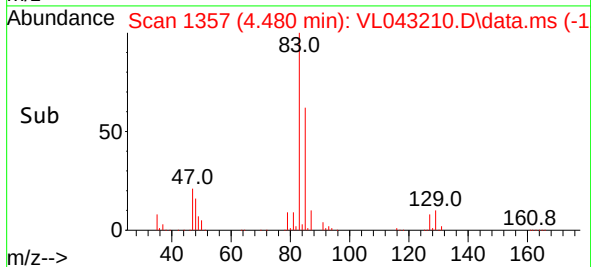
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

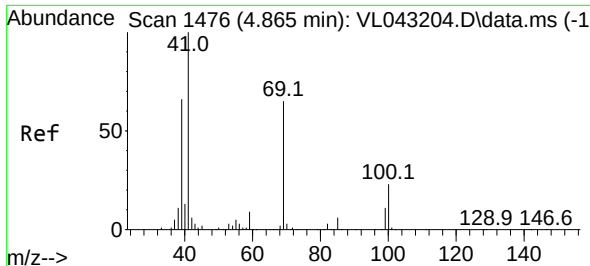


#42
Bromodichloromethane
Concen: 14.721 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



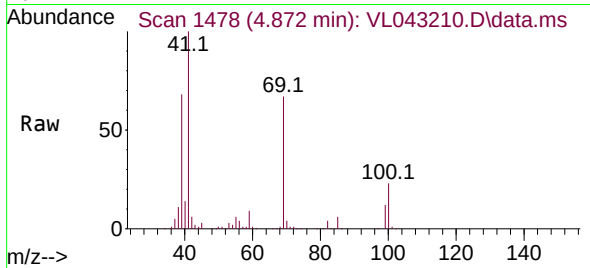
Tgt Ion: 83 Resp: 294008
Ion Ratio Lower Upper
83 100
85 61.7 51.7 77.5
127 7.6 6.3 9.5





#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.872 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

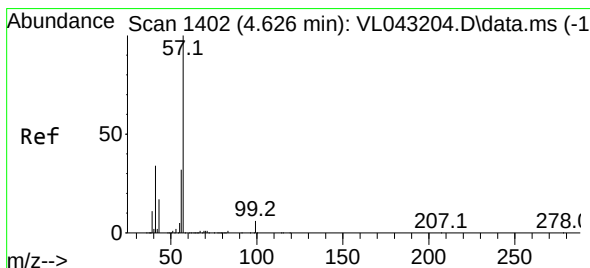
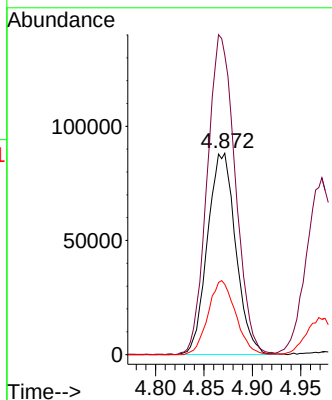
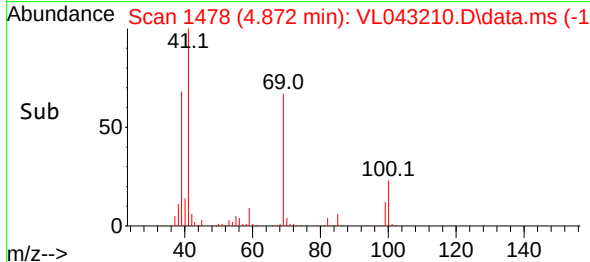
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



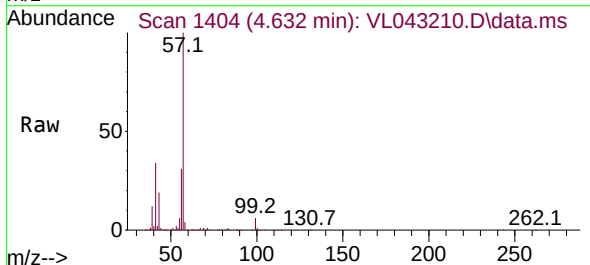
Tgt Ion: 69 Resp: 179110
Ion Ratio Lower Upper
69 100
41 157.9 126.7 190.1
100 35.7 28.6 43.0

Manual Integrations
APPROVED

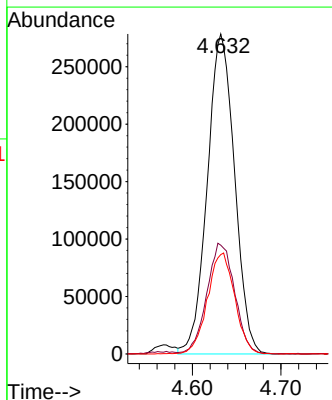
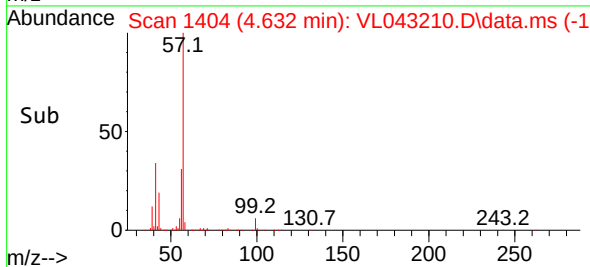
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

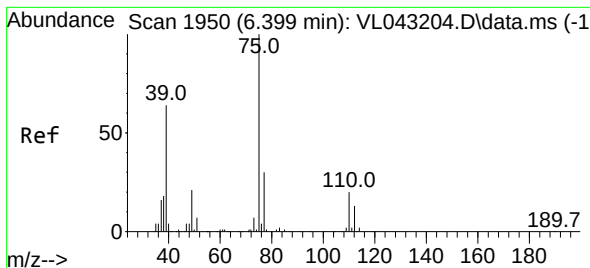


#44
2,2,4-Trimethylpentane
Concen: 14.014 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



Tgt Ion: 57 Resp: 595778
Ion Ratio Lower Upper
57 100
41 35.9 28.0 42.0
56 31.6 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 14.508 ppbv

RT: 6.406 min Scan# 1950

Delta R.T. 0.006 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 75 Resp: 177678

Ion Ratio Lower Upper

75 100

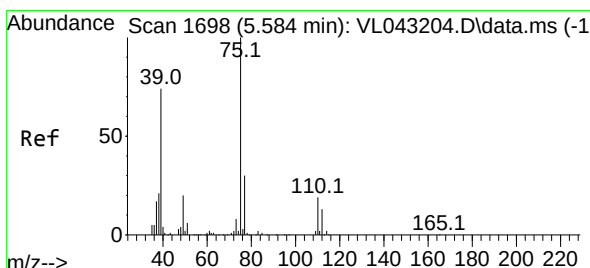
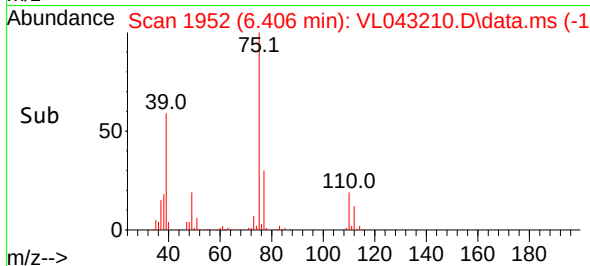
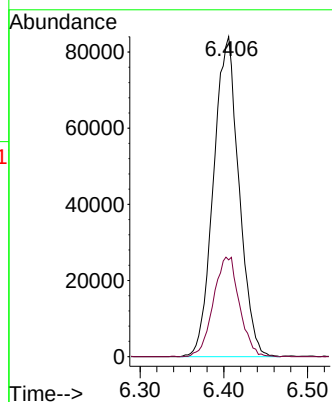
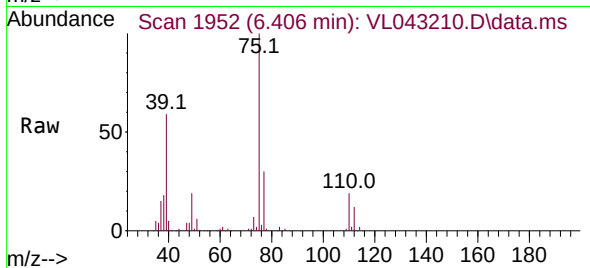
77 30.2 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#46

cis-1,3-Dichloropropene

Concen: 14.270 ppbv

RT: 5.587 min Scan# 1699

Delta R.T. 0.003 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

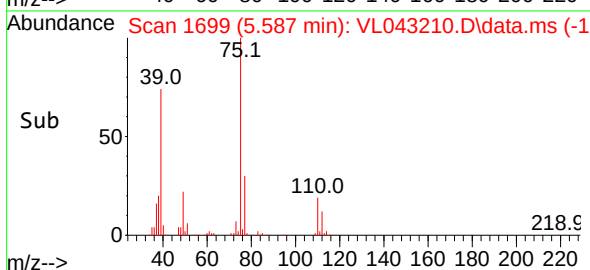
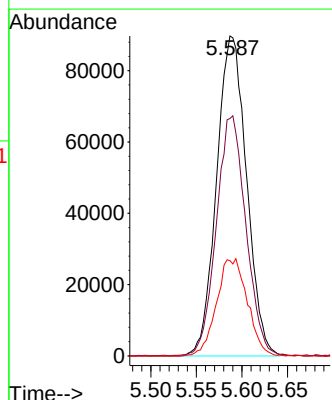
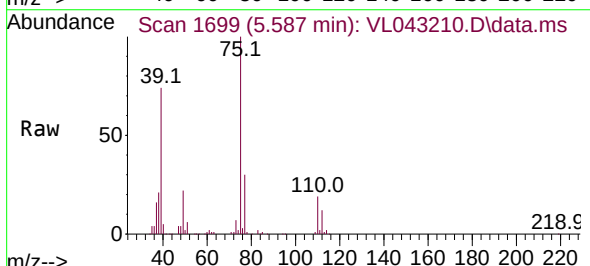
Tgt Ion: 75 Resp: 205226

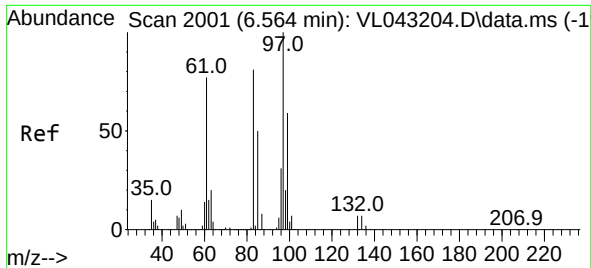
Ion Ratio Lower Upper

75 100

39 73.9 59.1 88.7

77 29.8 24.2 36.2





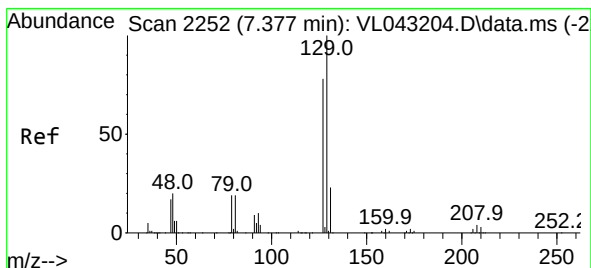
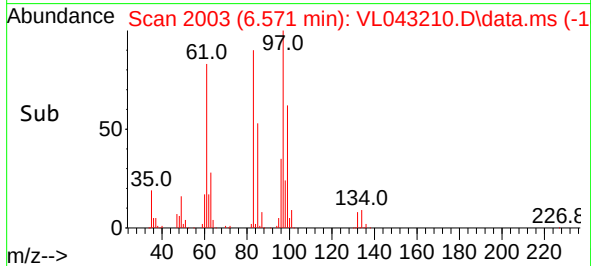
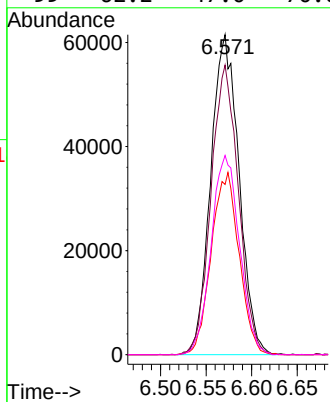
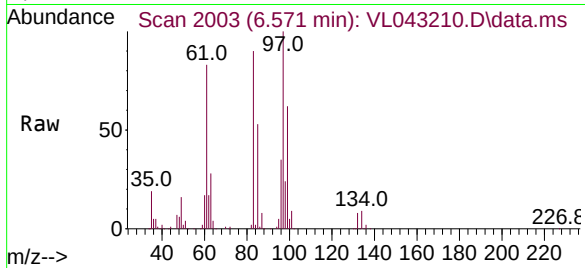
#47
1,1,2-Trichloroethane
Concen: 13.738 ppbv
RT: 6.571 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 97 Resp: 132701
Ion Ratio Lower Upper
97 100
83 90.4 64.6 97.0
85 53.2 39.4 59.2
99 62.2 47.0 70.6

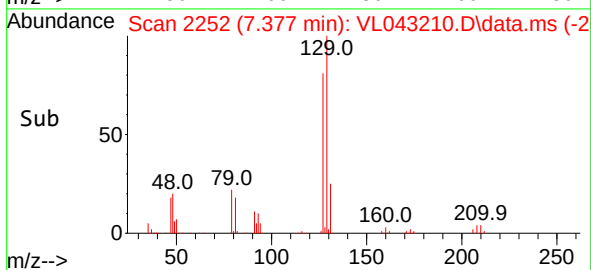
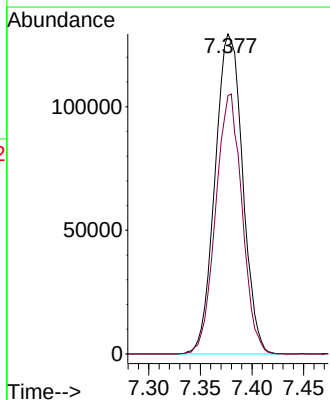
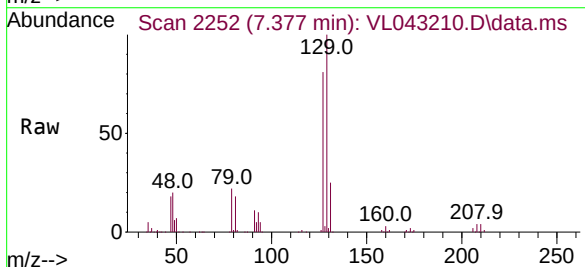
Manual Integrations
APPROVED

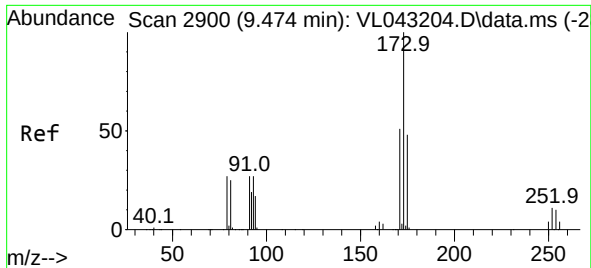
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#48
Dibromochloromethane
Concen: 14.564 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:129 Resp: 240736
Ion Ratio Lower Upper
129 100
127 77.5 39.3 117.9





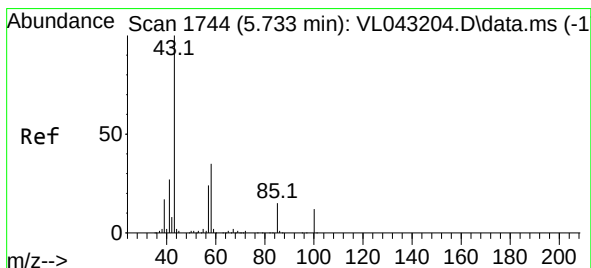
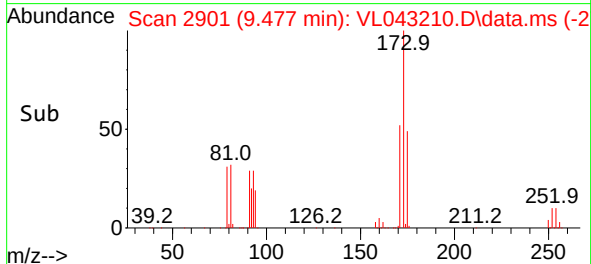
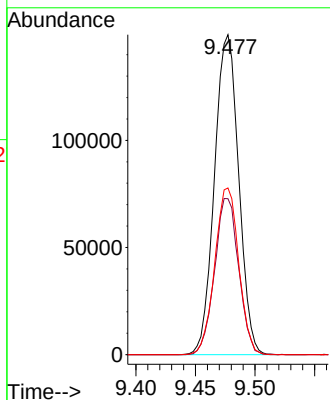
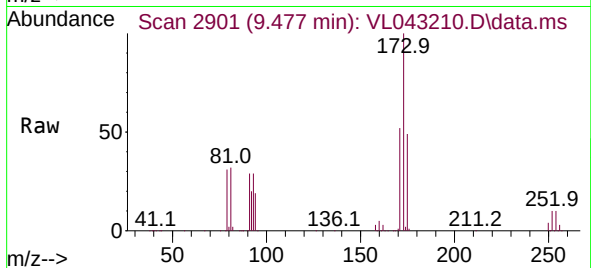
#49
Bromoform
Concen: 14.434 ppbv
RT: 9.477 min Scan# 2900
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:173 Resp: 211325
Ion Ratio Lower Upper
173 100
175 48.6 38.6 58.0
171 51.5 40.6 61.0

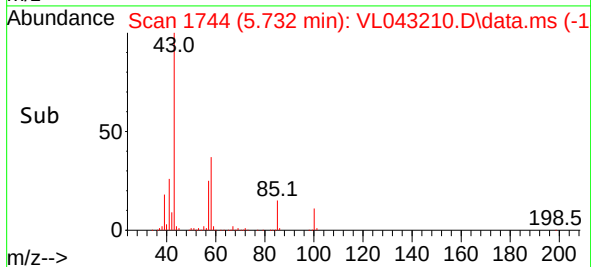
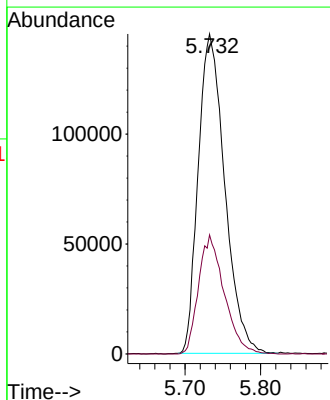
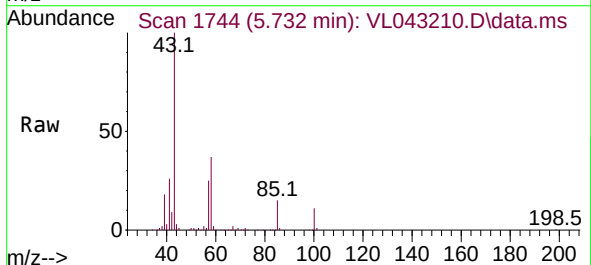
Manual Integrations
APPROVED

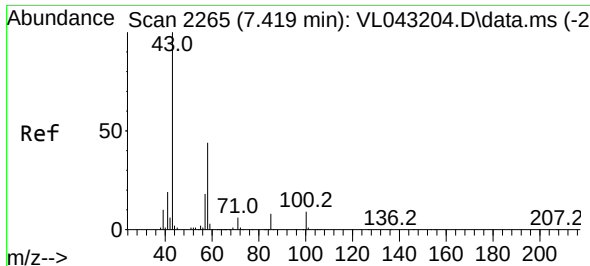
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 13.790 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

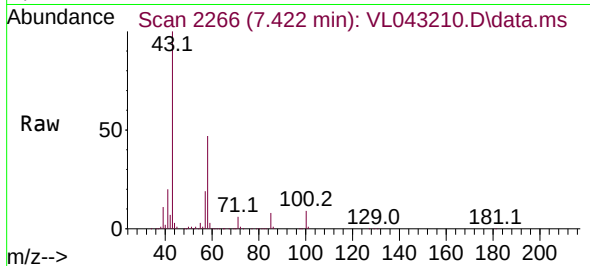
Tgt Ion: 43 Resp: 354421
Ion Ratio Lower Upper
43 100
58 35.9 28.4 42.6





#51
2-Hexanone
Concen: 14.067 ppbv
RT: 7.422 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

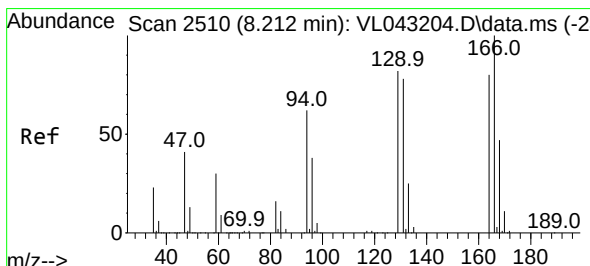
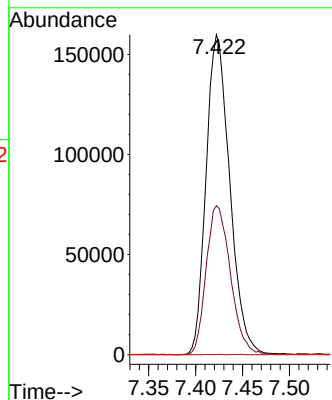
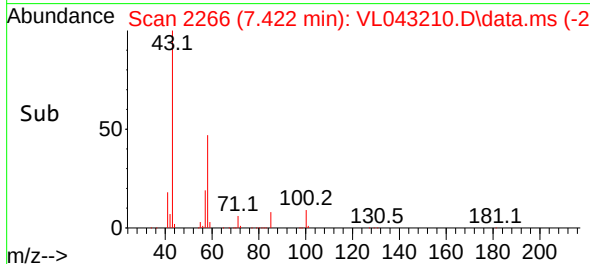
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 280742
Ion Ratio Lower Upper
43 100
58 47.7 38.4 57.6
98 0.1 0.0 0.0

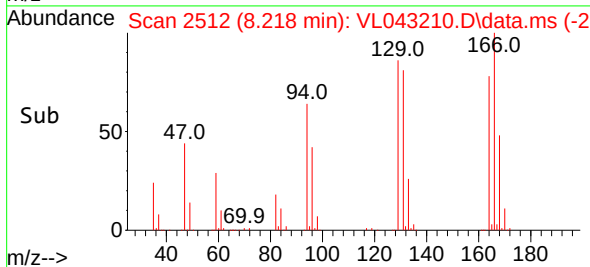
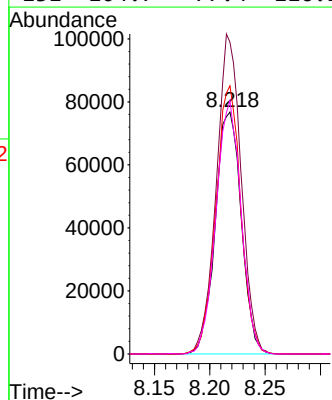
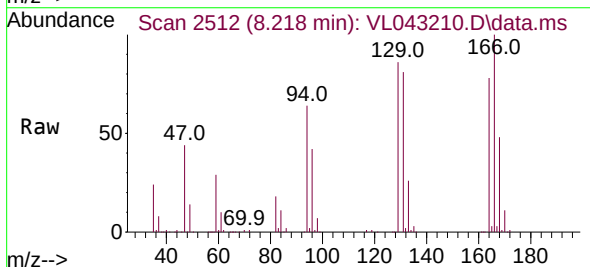
Manual Integrations
APPROVED

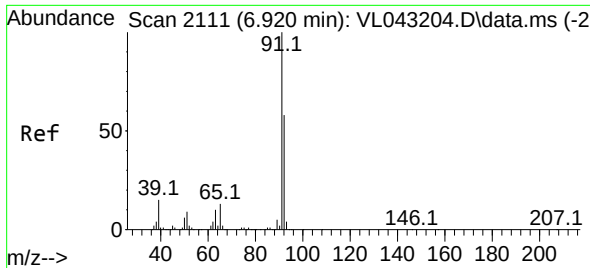
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 13.591 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

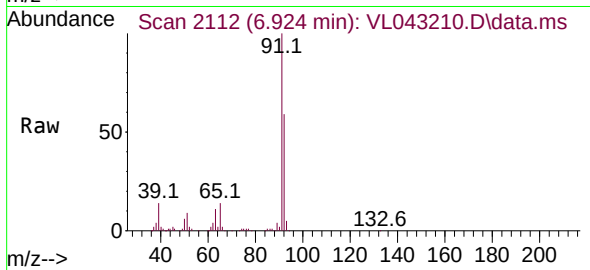
Tgt Ion:164 Resp: 125132
Ion Ratio Lower Upper
164 100
166 128.8 99.4 149.2
129 110.8 81.8 122.8
131 104.7 77.4 116.2





#53
Toluene
Concen: 14.050 ppbv
RT: 6.924 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

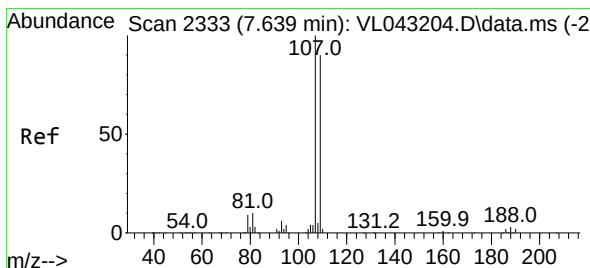
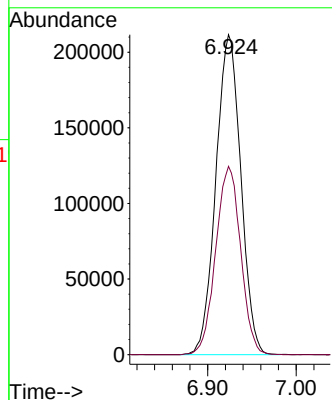
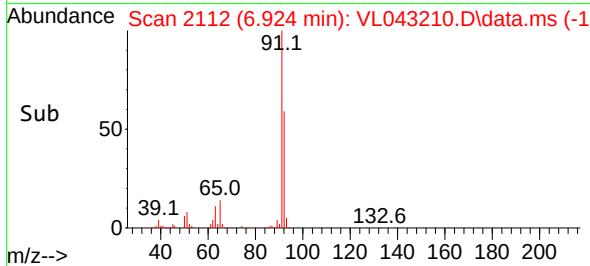
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 91 Resp: 41441
Ion Ratio Lower Upper
91 100
92 58.8 47.4 71.0

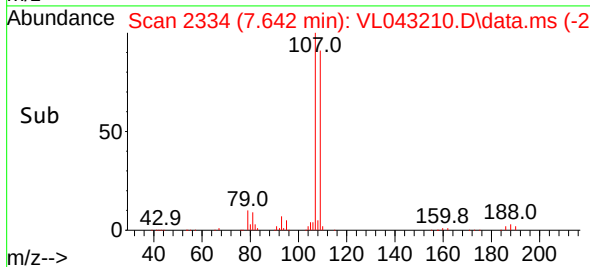
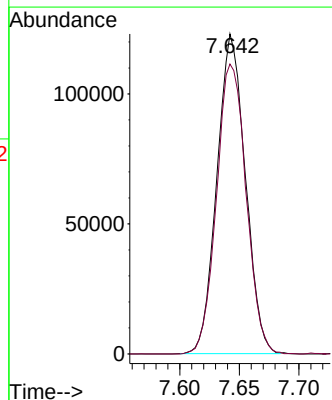
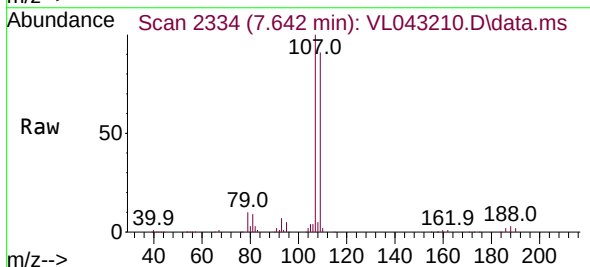
Manual Integrations
APPROVED

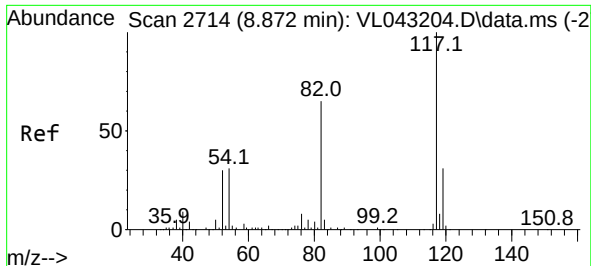
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#54
1,2-Dibromoethane
Concen: 14.413 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

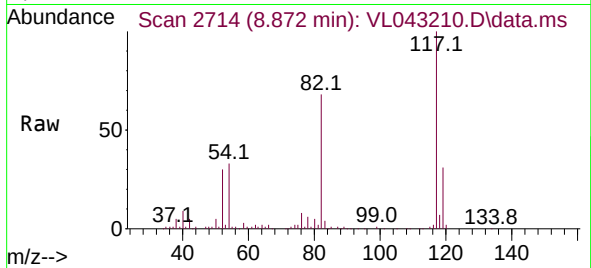
Tgt Ion:107 Resp: 203913
Ion Ratio Lower Upper
107 100
109 90.6 72.1 108.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21124
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

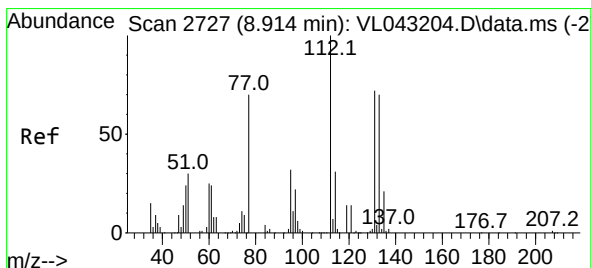
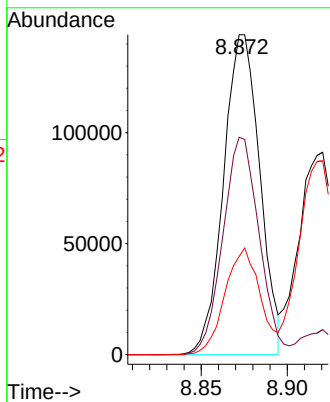
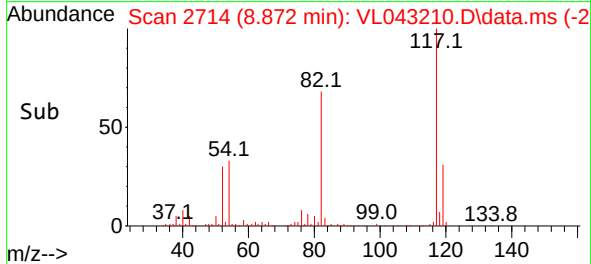
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



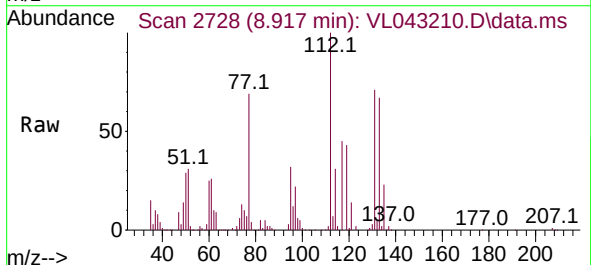
Tgt Ion:117 Resp: 21124
Ion Ratio Lower Upper
117 100
82 68.4 56.1 84.1
119 32.6 25.0 37.6

Manual Integrations
APPROVED

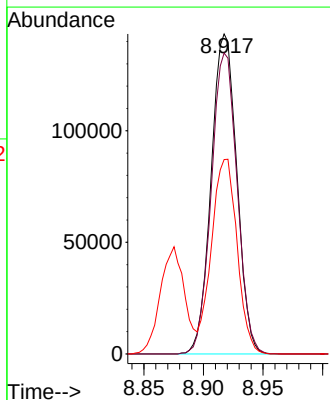
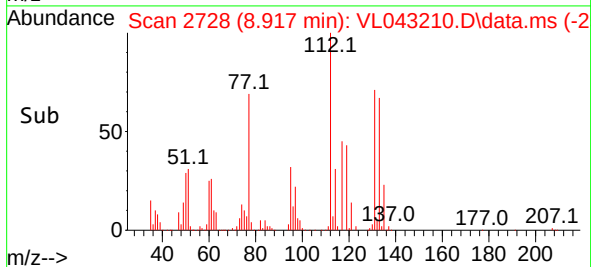
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

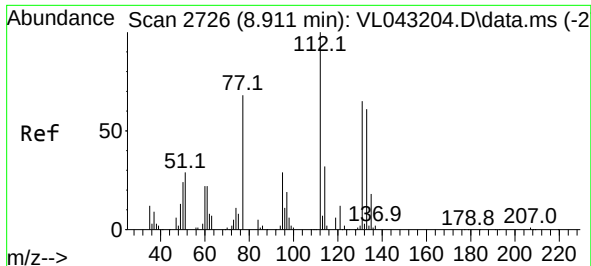


#56
1,1,1,2-Tetrachloroethane
Concen: 13.827 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



Tgt Ion:131 Resp: 214673
Ion Ratio Lower Upper
131 100
133 94.9 77.4 116.2
119 61.5 49.1 73.7





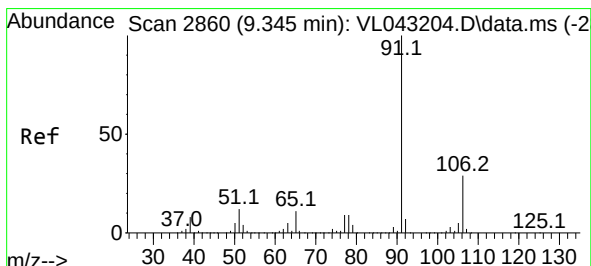
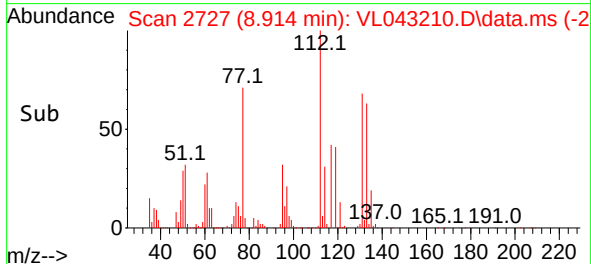
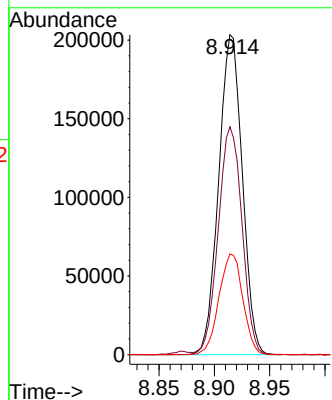
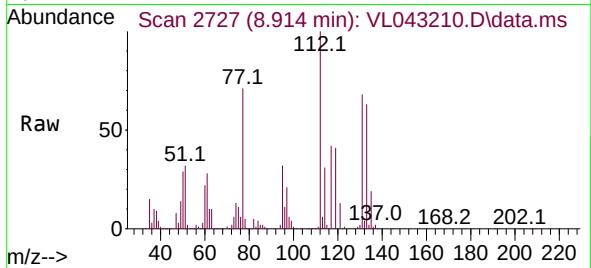
#57
Chlorobenzene
Concen: 13.923 ppbv
RT: 8.914 min Scan# 2726
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 112 Resp: 301986
Ion Ratio Lower Upper
112 100
77 71.1 55.5 83.3
114 31.5 29.1 35.5

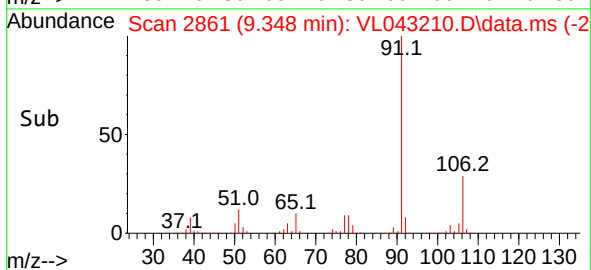
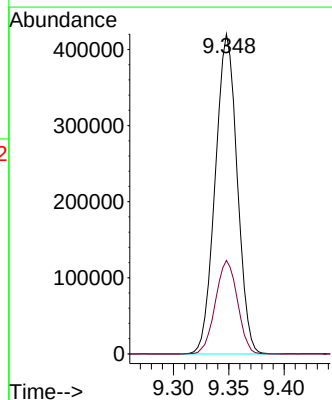
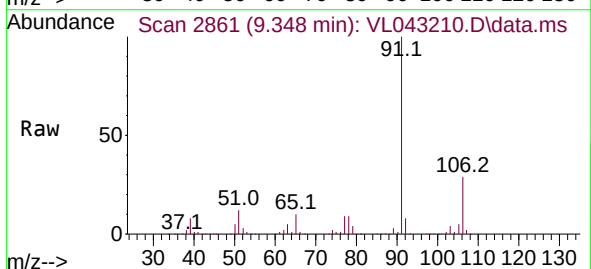
Manual Integrations
APPROVED

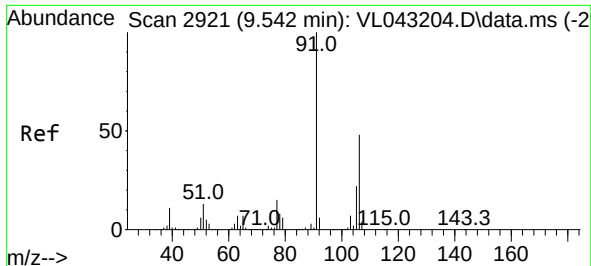
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 14.262 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 579890
Ion Ratio Lower Upper
91 100
106 29.2 22.8 34.2





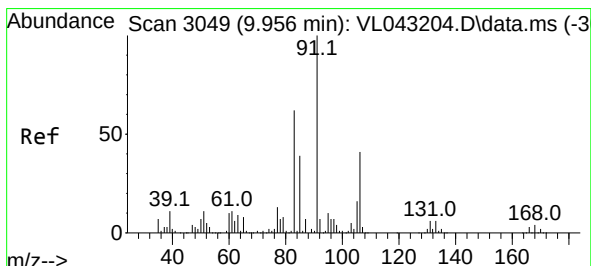
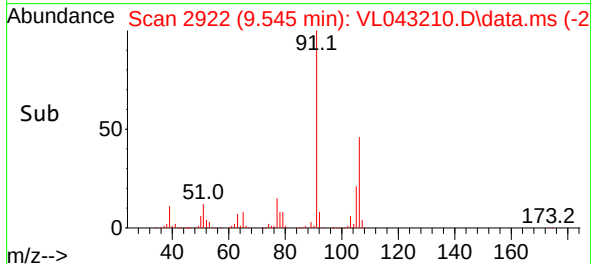
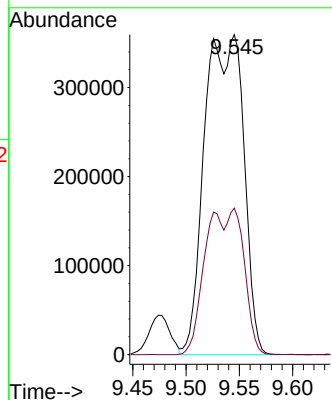
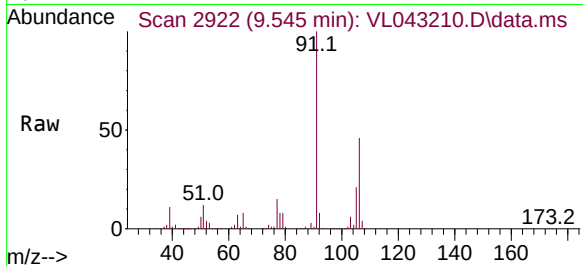
#59
m/p-Xylene
Concen: 28.000 ppbv m
RT: 9.545 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 916113
Ion Ratio Lower Upper
91 100
106 45.1 36.1 54.1

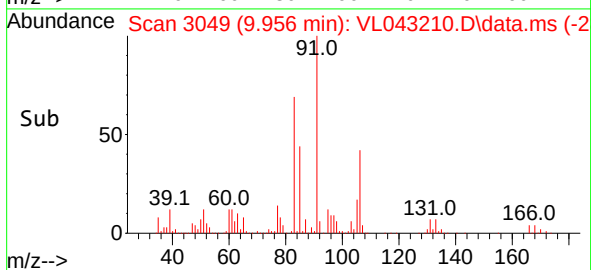
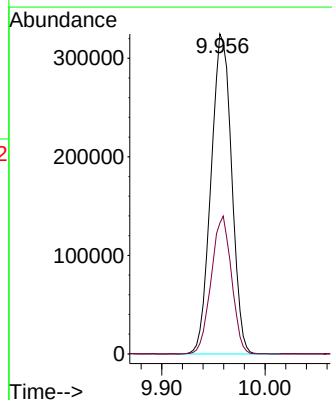
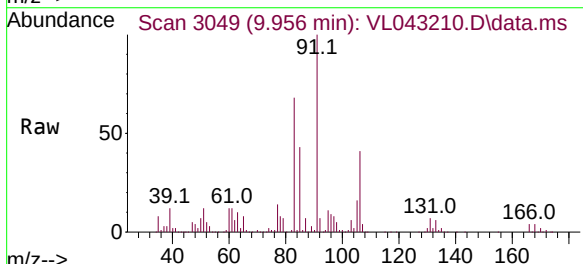
Manual Integrations
APPROVED

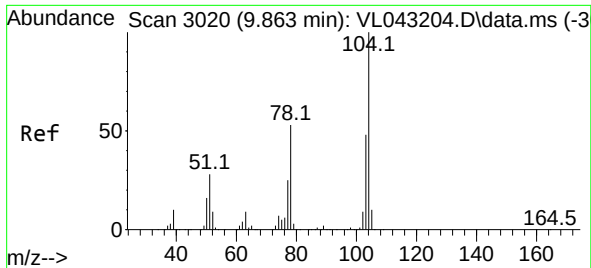
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 13.826 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 450260
Ion Ratio Lower Upper
91 100
106 42.4 20.9 62.8





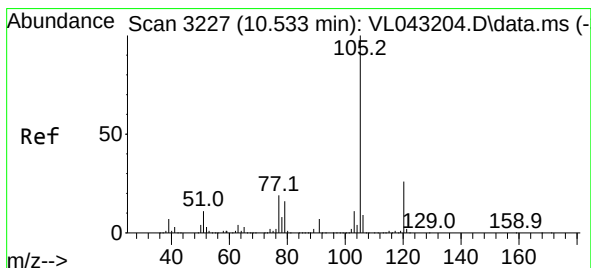
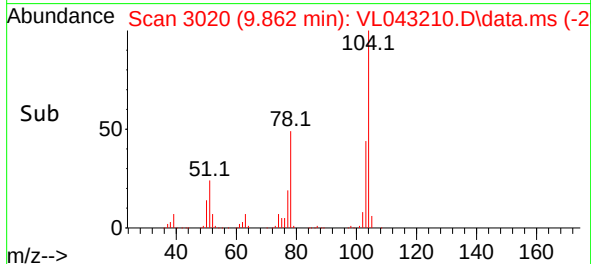
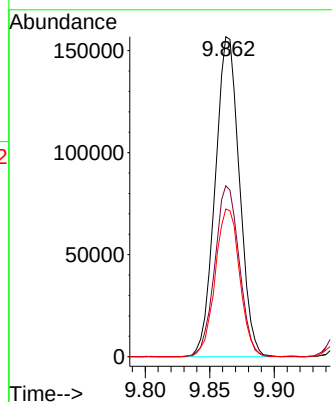
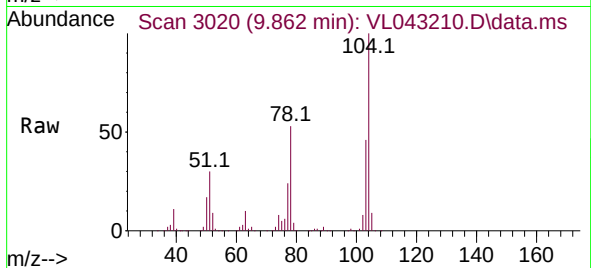
#61
Styrene
Concen: 14.382 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:104 Resp: 204972
Ion Ratio Lower Upper
104 100
78 53.7 42.1 63.1
103 46.9 37.2 55.8

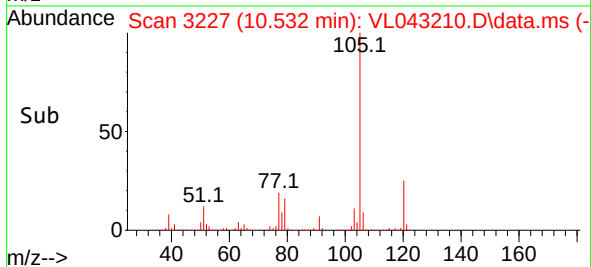
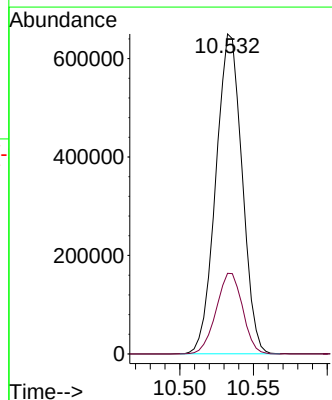
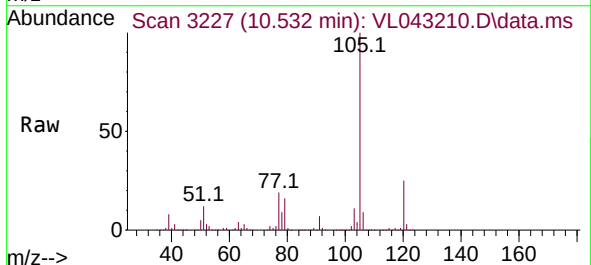
Manual Integrations
APPROVED

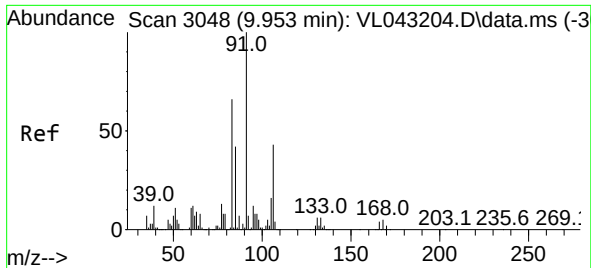
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#62
Isopropylbenzene
Concen: 13.791 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 803487
Ion Ratio Lower Upper
105 100
120 25.3 19.8 29.8





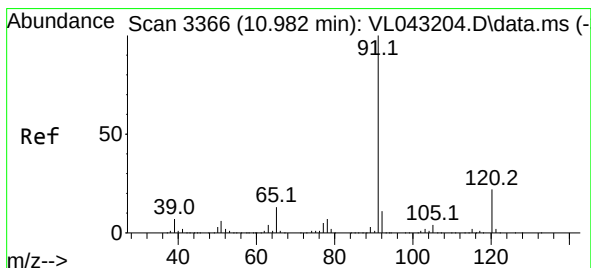
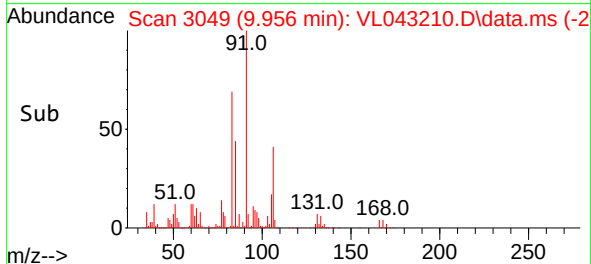
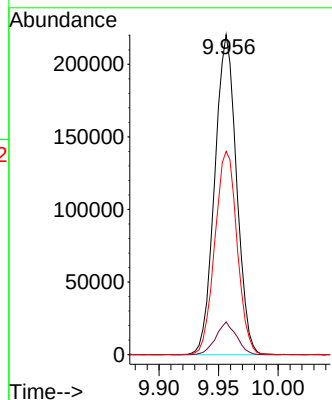
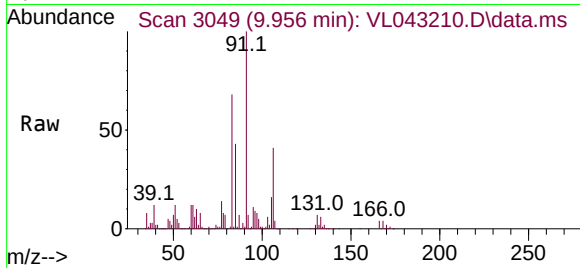
#63
1,1,2,2-Tetrachloroethane
Concen: 13.557 ppbv
RT: 9.956 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 280254
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 64.9 31.9 95.9

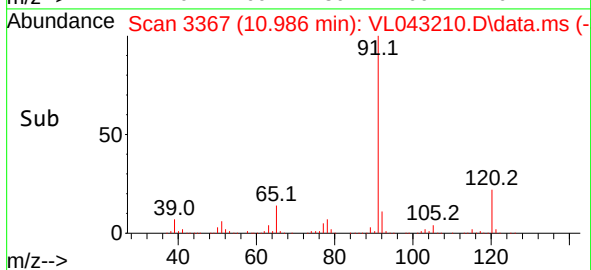
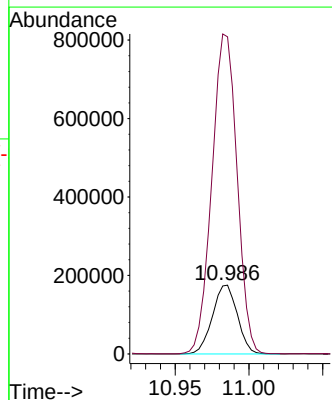
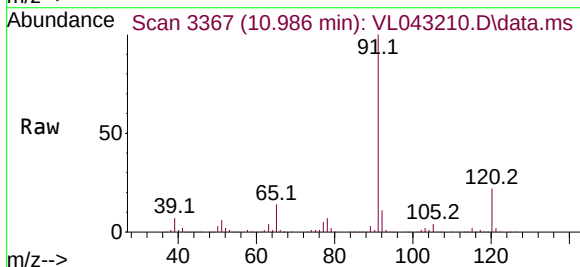
Manual Integrations
APPROVED

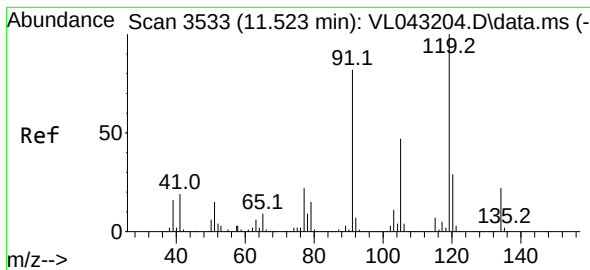
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#64
n-propylbenzene
Concen: 13.737 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:120 Resp: 205637
Ion Ratio Lower Upper
120 100
91 471.6 377.1 565.7





#65

tert-Butylbenzene

Concen: 13.249 ppbv

RT: 11.526 min Scan# 3533

Delta R.T. 0.003 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:119 Resp: 689352

Ion Ratio Lower Upper

119 100

91 83.7 65.3 97.9

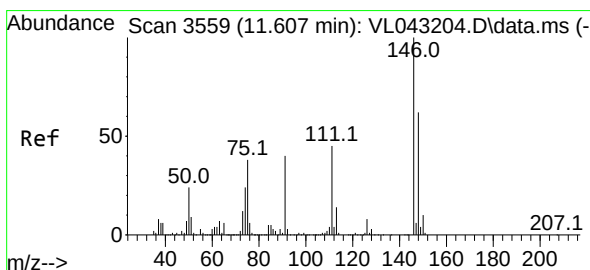
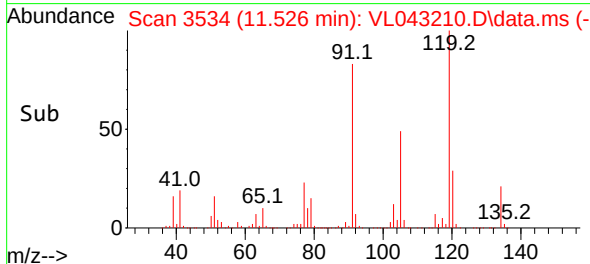
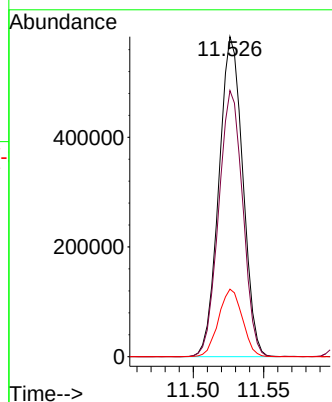
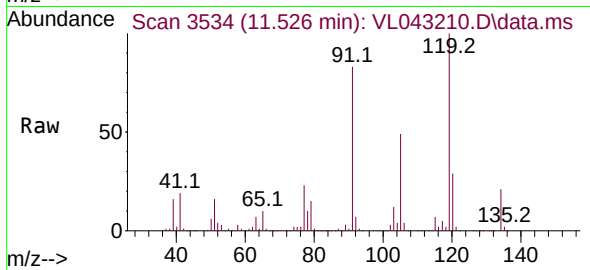
134 20.9 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#66

Benzyl Chloride

Concen: 13.520 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

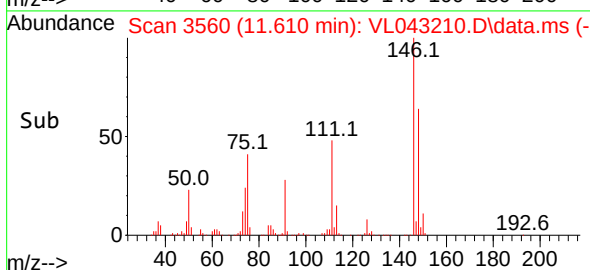
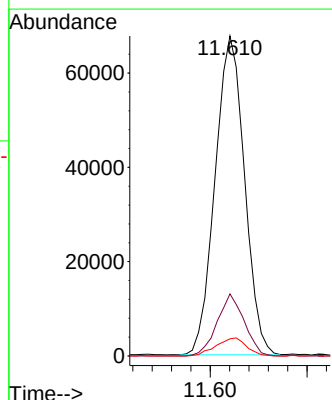
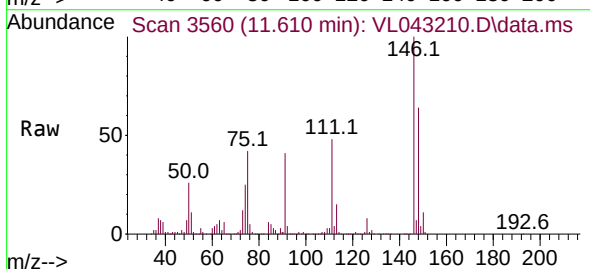
Tgt Ion: 91 Resp: 71386

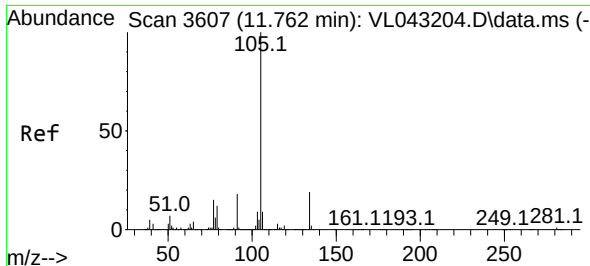
Ion Ratio Lower Upper

91 100

126 17.9 14.4 21.6

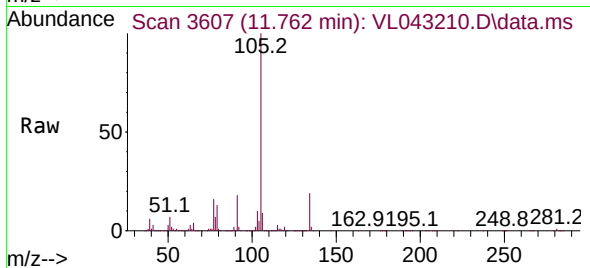
128 5.9 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 13.394 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.000 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

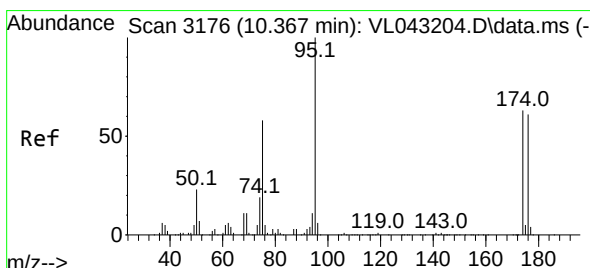
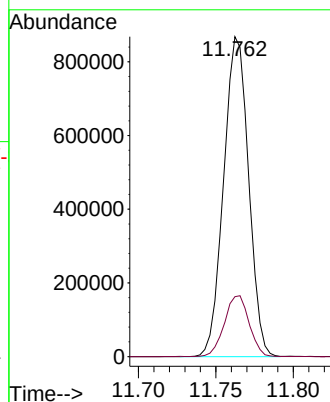
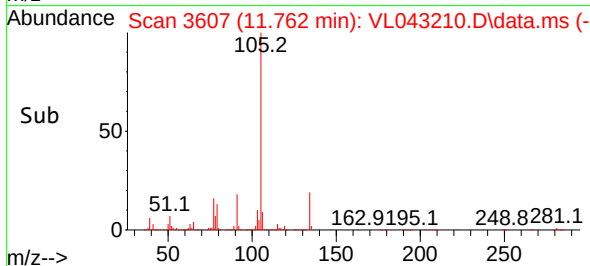
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015



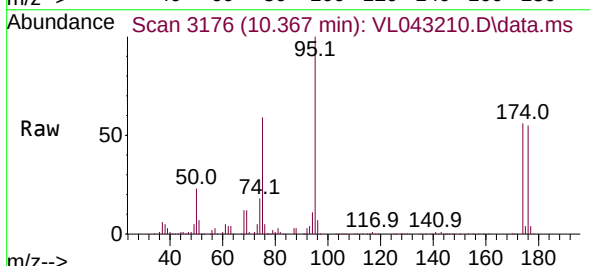
Tgt Ion:105 Resp: 972780
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.0 22.6

Manual Integrations
 APPROVED

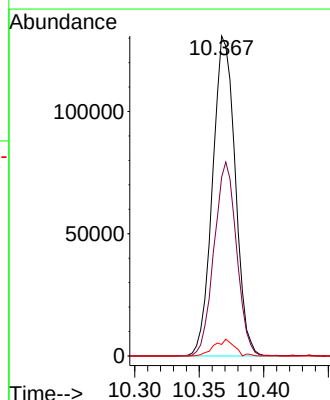
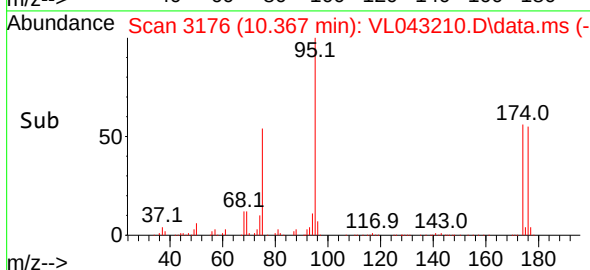
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

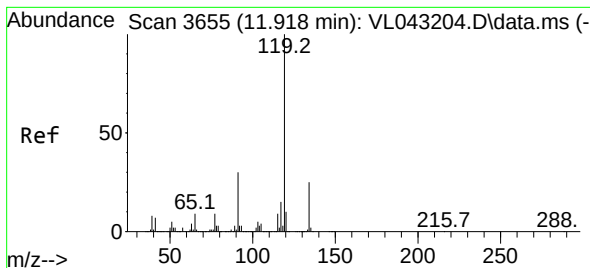


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.321 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. -0.000 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24



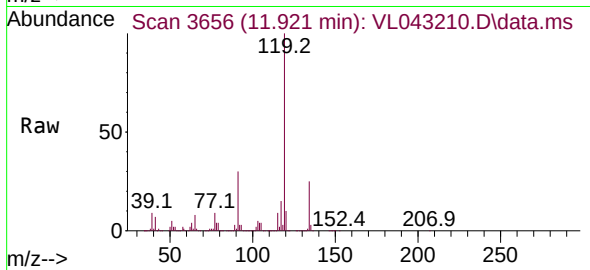
Tgt Ion: 95 Resp: 159814
 Ion Ratio Lower Upper
 95 100
 174 60.3 50.2 75.2
 175 4.7 4.1 6.1





#69
 p-Isopropyltoluene
 Concen: 13.602 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. 0.003 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24

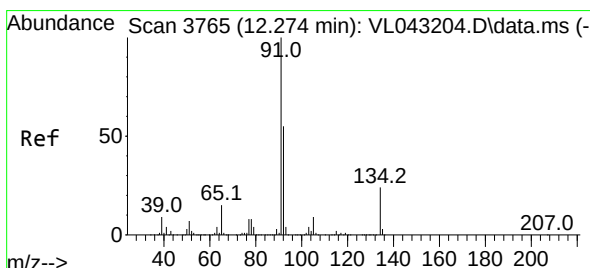
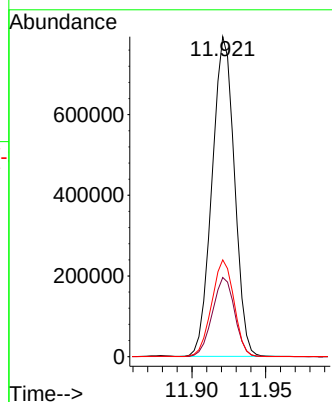
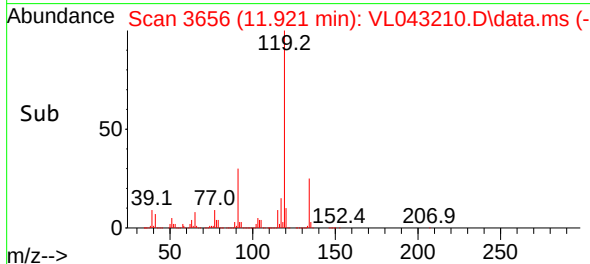
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



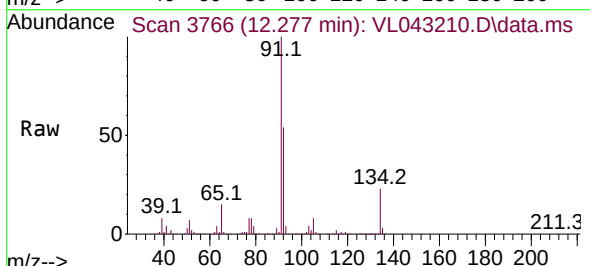
Tgt Ion:119 Resp: 836888
 Ion Ratio Lower Upper
 119 100
 134 24.8 20.2 30.2
 91 30.3 23.8 35.8

Manual Integrations
 APPROVED

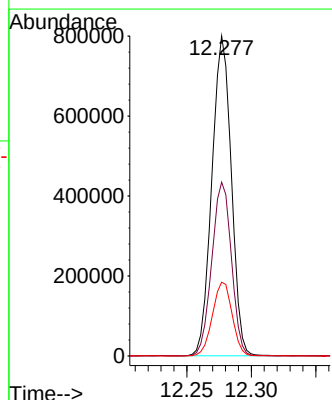
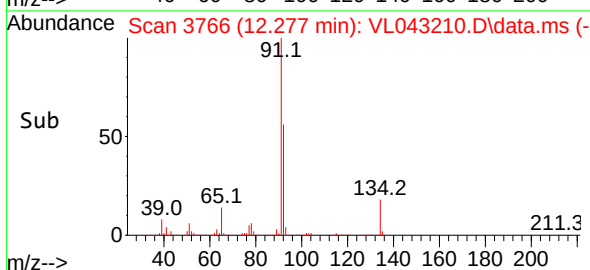
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

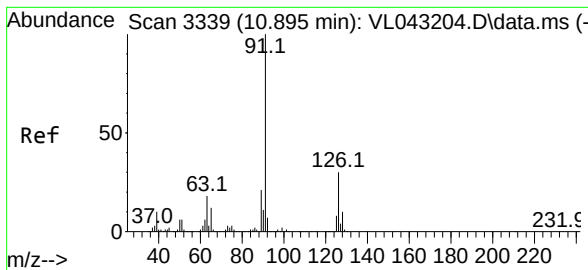


#70
 n-Butylbenzene
 Concen: 14.050 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. 0.003 min
 Lab File: VL043210.D
 Acq: 18 Nov 2025 13:24



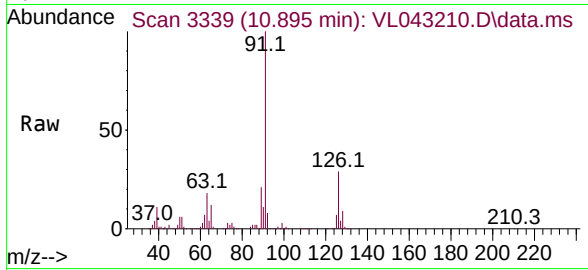
Tgt Ion: 91 Resp: 838598
 Ion Ratio Lower Upper
 91 100
 92 54.9 43.5 65.3
 134 23.4 19.0 28.6





#71
2-Chlorotoluene
Concen: 13.976 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

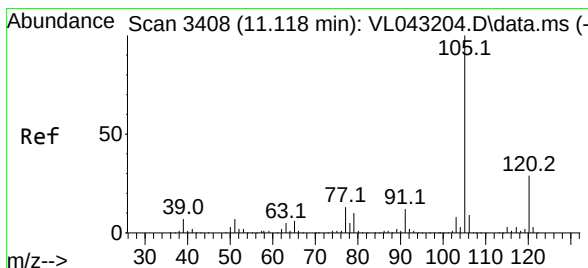
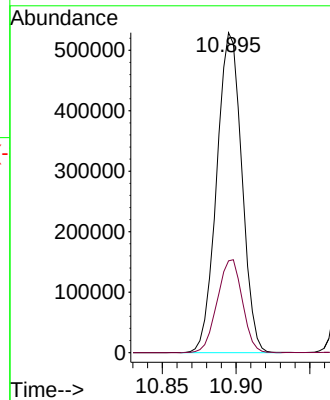
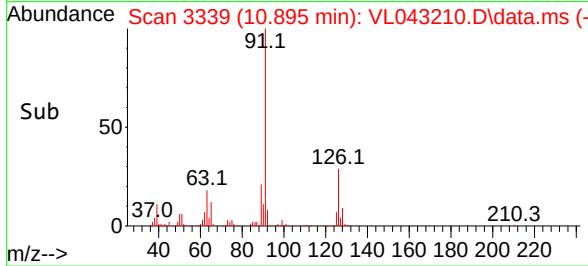
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



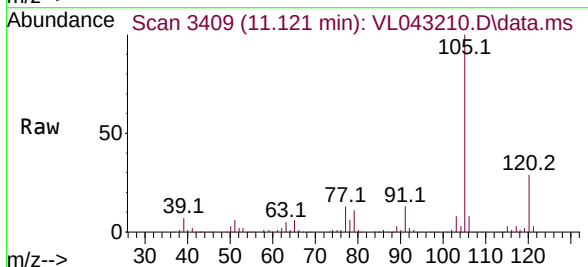
Tgt Ion: 91 Resp: 625884
Ion Ratio Lower Upper
91 100
126 28.9 11.7 46.7

Manual Integrations
APPROVED

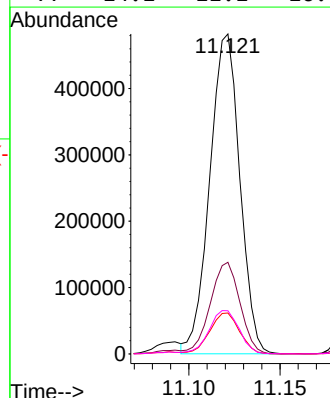
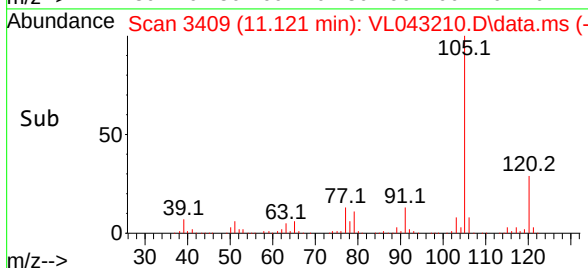
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

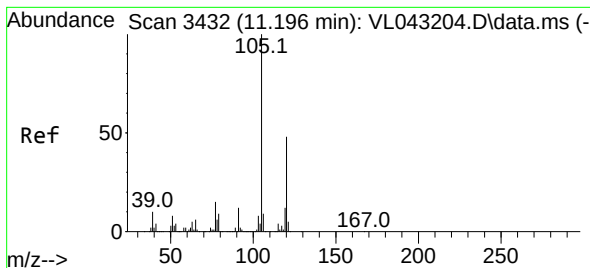


#72
4-Ethyltoluene
Concen: 13.961 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



Tgt Ion:105 Resp: 553654
Ion Ratio Lower Upper
105 100
120 29.3 23.8 35.8
91 13.2 10.3 15.5
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 13.846 ppbv

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 460783

Ion Ratio Lower Upper

105 100

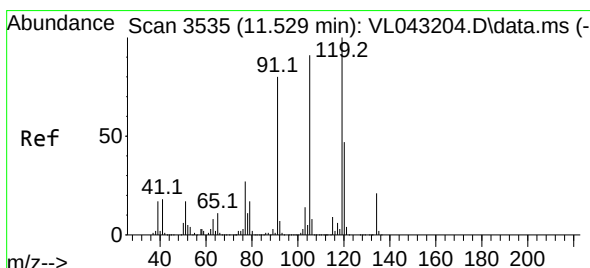
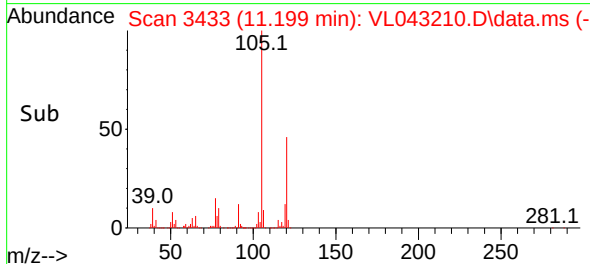
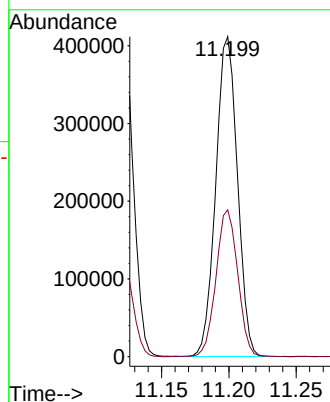
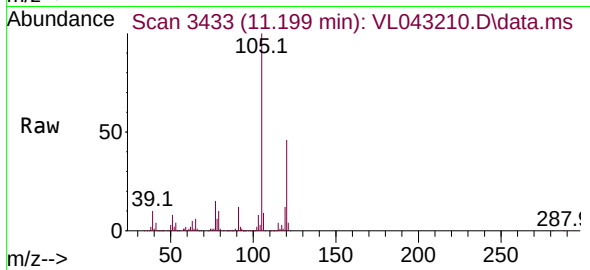
120 45.9 38.6 57.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#74

1,2,4-Trimethylbenzene

Concen: 13.409 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL043210.D

Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 486995

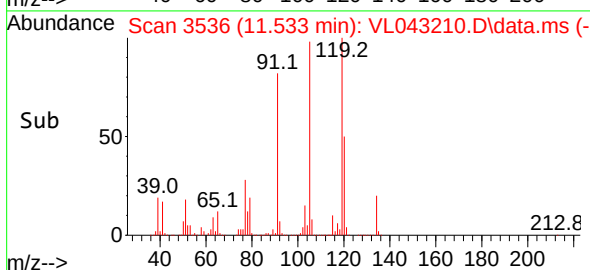
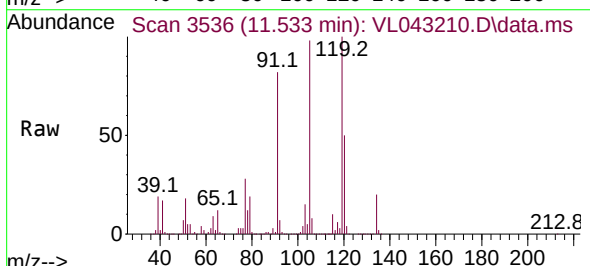
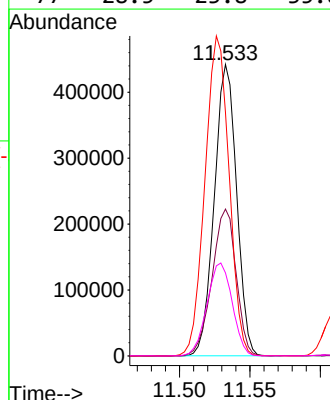
Ion Ratio Lower Upper

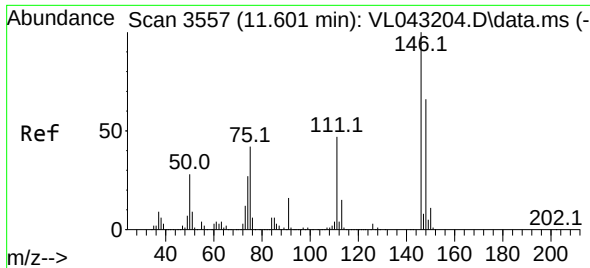
105 100

120 50.4 41.7 62.5

91 83.4 70.0 105.0

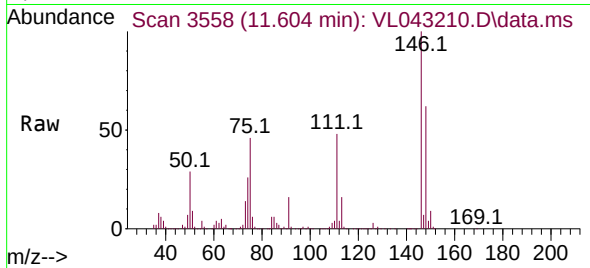
77 28.5 23.8 35.8





#75
1,3-Dichlorobenzene
Concen: 13.784 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

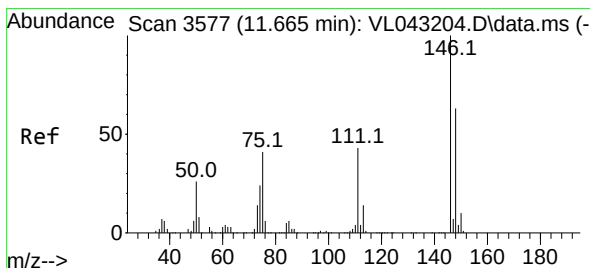
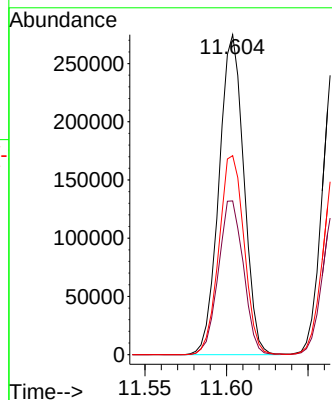
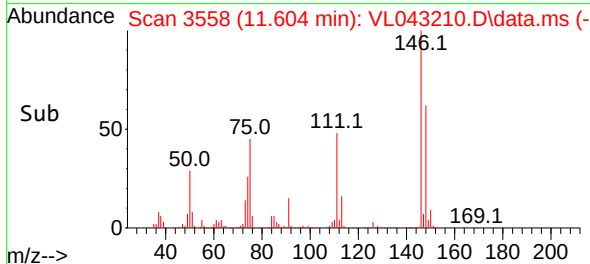
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



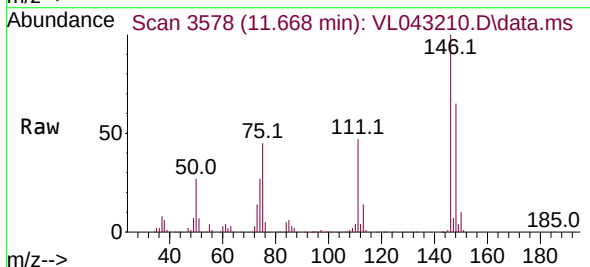
Tgt Ion:146 Resp: 292143
Ion Ratio Lower Upper
146 100
111 48.4 23.4 70.3
148 63.1 31.6 95.0

Manual Integrations
APPROVED

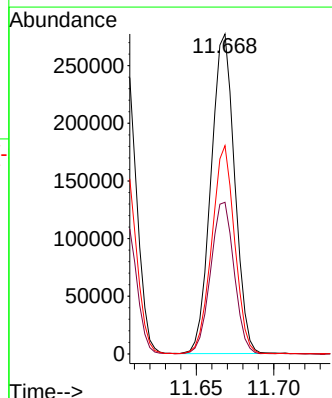
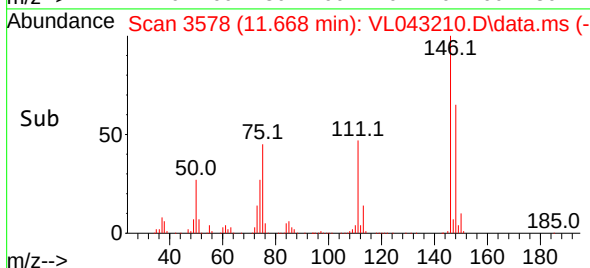
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

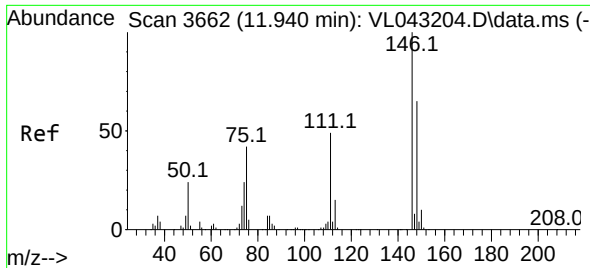


#76
1,4-Dichlorobenzene
Concen: 13.903 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24



Tgt Ion:146 Resp: 294723
Ion Ratio Lower Upper
146 100
111 47.2 22.8 68.3
148 63.2 31.8 95.4





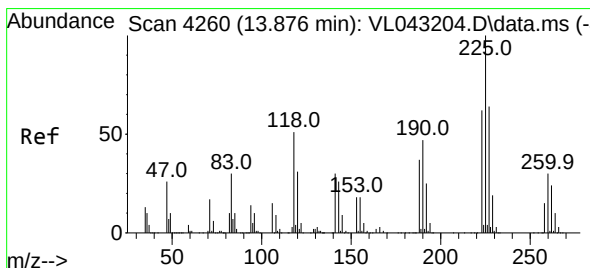
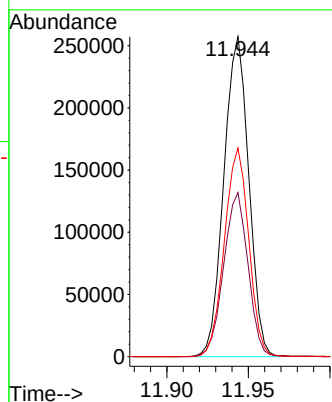
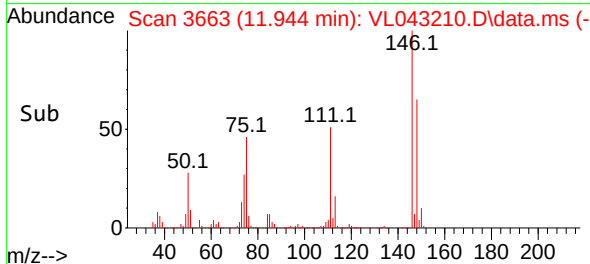
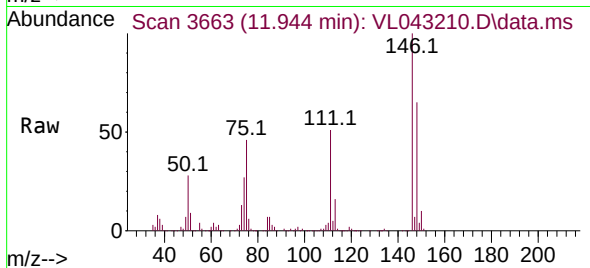
#77
1,2-Dichlorobenzene
Concen: 13.420 ppbv
RT: 11.944 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:146 Resp: 273462
Ion Ratio Lower Upper
146 100
111 50.2 24.3 73.0
148 63.9 31.6 94.7

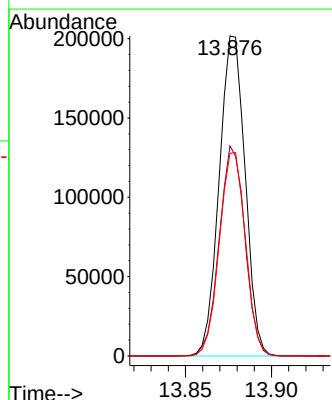
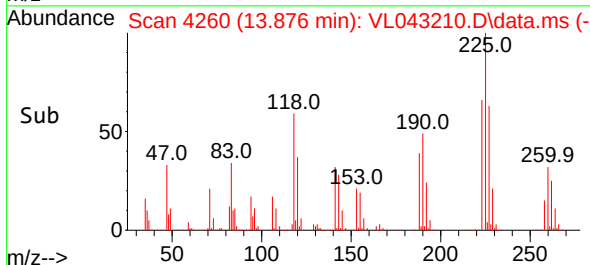
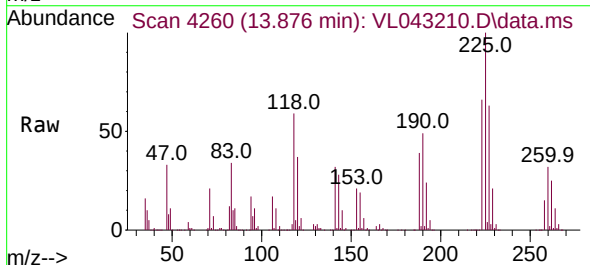
Manual Integrations
APPROVED

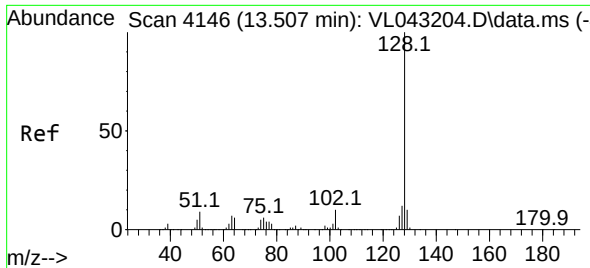
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#78
Hexachloro-1,3-Butadiene
Concen: 12.416 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:225 Resp: 211153
Ion Ratio Lower Upper
225 100
223 64.9 50.2 75.4
227 63.9 51.1 76.7





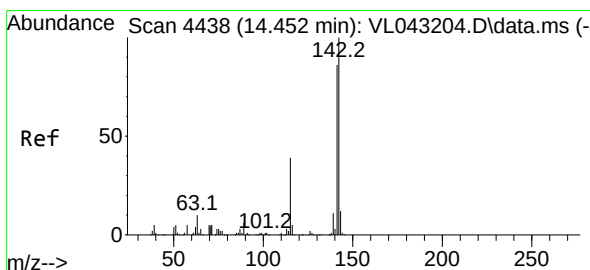
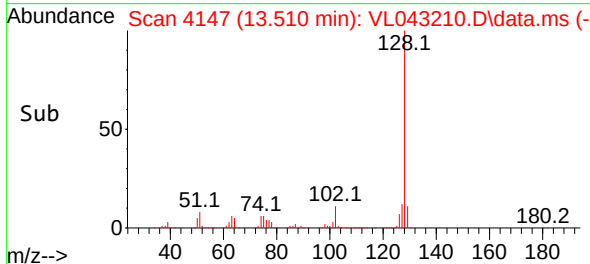
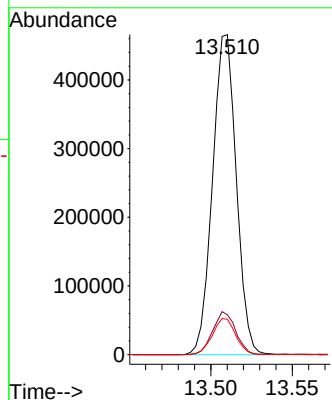
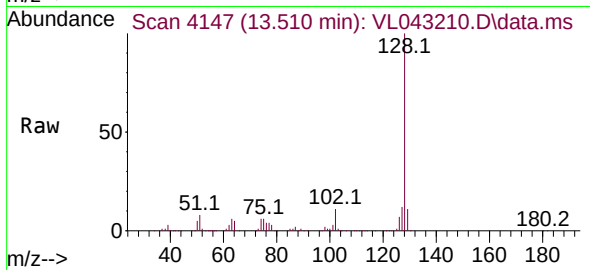
#79
Naphthalene
Concen: 14.670 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:128 Resp: 473229
Ion Ratio Lower Upper
128 100
127 12.4 9.9 14.9
129 11.1 8.4 12.6

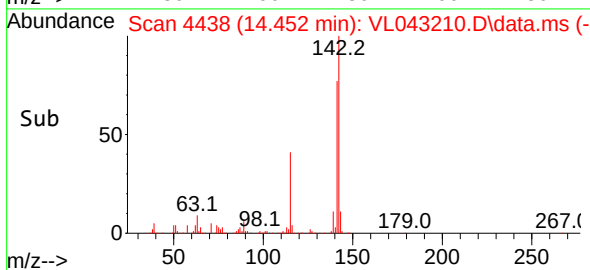
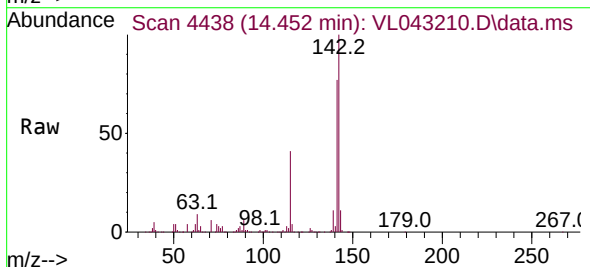
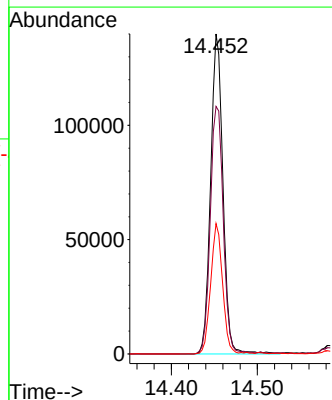
Manual Integrations
APPROVED

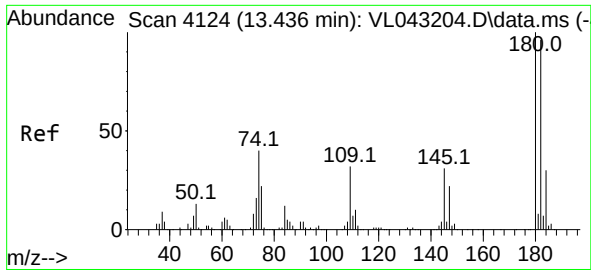
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#80
Naphthalene,2-methyl-
Concen: 16.418 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:142 Resp: 139019
Ion Ratio Lower Upper
142 100
141 82.6 67.1 100.7
115 40.2 31.9 47.9





#81

1,2,4-Trichlorobenzene

Concen: 14.990 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043210.D

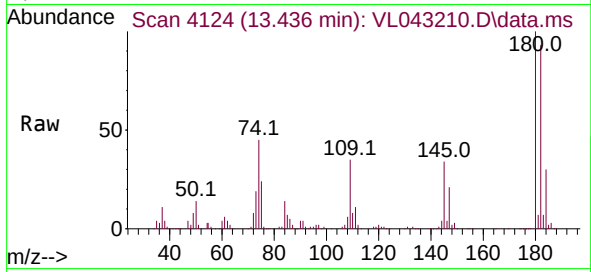
Acq: 18 Nov 2025 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion:180 Resp: 216260

Ion Ratio Lower Upper

180 100

182 95.3 77.4 116.2

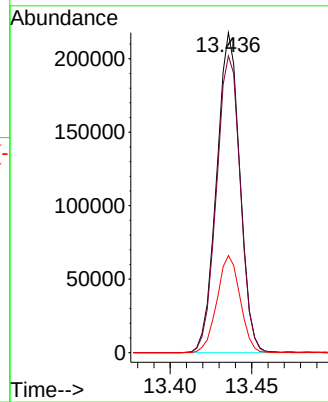
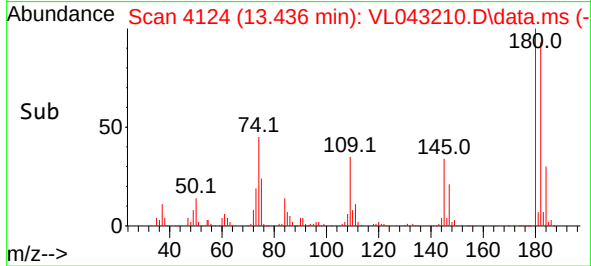
184 30.1 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:34:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	97854	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261914	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	216212	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 159242 10.048 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	133374	9.664	ppbv	98
3) Chlorodifluoromethane	1.476	51	124858	9.199	ppbv	98
4) Chloromethane	1.535	50	46906	9.090	ppbv	95
5) Vinyl Chloride	1.580	62	47932	8.493	ppbv	95
6) Bromomethane	1.667	94	22230	8.126	ppbv	99
7) Chloroethane	1.703	64	19854	9.033	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	110587	9.632	ppbv	97
9) Propene	1.483	41	54006m	9.370	ppbv	
10) Heptane	4.975	43	149202	8.698	ppbv	99
11) Trichlorofluoromethane	1.878	101	134746	10.077	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	100984	9.673	ppbv	99
13) Ethanol	1.719	45	15371	7.584	ppbv	92
14) Bromoethene	1.781	108	36979	9.240	ppbv	98
15) Acetone	1.832	43	104830	7.711	ppbv	99
16) 1,3-Butadiene	1.609	39	54795	9.041	ppbv	96
17) tert-Butyl alcohol	2.036	59	164987	9.245	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43833	9.017	ppbv	99
19) Isopropyl Alcohol	1.884	45	64772	8.431	ppbv	97
20) Methylene Chloride	2.062	84	41254	10.323	ppbv	95
21) Allyl Chloride	2.095	41	75516	8.256	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	50228	9.041	ppbv	92
23) Vinyl Acetate	2.460	43	140156	8.539	ppbv	98
24) 1,1-Dichloroethane	2.409	63	103187	9.622	ppbv	97
25) Ethyl Acetate	2.829	43	258609	8.820	ppbv	99
26) Hexane	2.826	57	114312	8.892	ppbv	98
27) Carbon Disulfide	2.150	76	125048	9.528	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	64183	10.171	ppbv	98
29) Chloroform	2.846	83	173977	9.521	ppbv	99
30) Cyclohexane	3.852	84	98598	9.148	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	119843	9.379	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	182262	9.358	ppbv	98
34) 2-Butanone	2.551	43	160977	8.707	ppbv	98
35) Carbon Tetrachloride	3.761	117	182902	9.200	ppbv	98
36) Benzene	3.655	78	233094	9.293	ppbv	99
37) 1,2-Dichloroethane	3.214	62	143363	9.772	ppbv	98
38) Trichloroethene	4.542	130	90993	9.272	ppbv	95
39) 1,2-Dichloropropane	4.305	63	83416	9.086	ppbv	95
40) 1,4-Dioxane	4.571	88	32109	7.780	ppbv #	95
41) Tetrahydrofuran	3.046	42	90769	8.891	ppbv	98
42) Bromodichloromethane	4.486	83	195442	9.657	ppbv	96
43) Methyl Methacrylate	4.872	69	116325	8.737	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	393438	9.133	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	97587	7.863	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:34:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

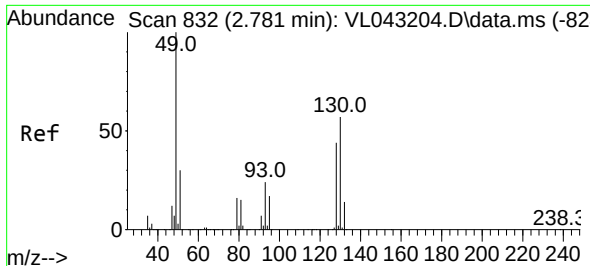
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

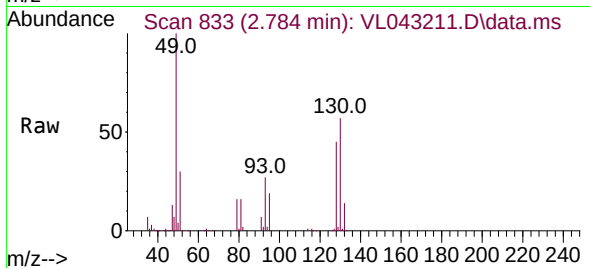
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	115476	7.924	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	88525	9.086	ppbv	95
48) Dibromochloromethane	7.380	129	159365	9.514	ppbv	99
49) Bromoform	9.477	173	134790	9.085	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	224791	8.631	ppbv	99
51) 2-Hexanone	7.429	43	166506	8.233	ppbv #	100
52) Tetrachloroethene	8.222	164	82890	8.884	ppbv	98
53) Toluene	6.924	91	273172	9.197	ppbv	99
54) 1,2-Dibromoethane	7.645	107	124804	8.705	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.921	131	142512	8.969	ppbv	98
57) Chlorobenzene	8.917	112	199373	8.981	ppbv	96
58) Ethyl Benzene	9.351	91	381474	9.167	ppbv	97
59) m/p-Xylene	9.549	91	604165m	18.108	ppbv	
60) o-Xylene	9.960	91	295836	8.876	ppbv	99
61) Styrene	9.866	104	127117	8.714	ppbv	97
62) Isopropylbenzene	10.536	105	525717	8.816	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	178591	8.421	ppbv	100
64) n-propylbenzene	10.986	120	131634	8.591	ppbv	96
65) tert-Butylbenzene	11.529	119	450819	8.465	ppbv	99
66) Benzyl Chloride	11.614	91	27878	5.159	ppbv	99
67) sec-Butylbenzene	11.766	105	623520	8.388	ppbv	100
69) p-Isopropyltoluene	11.924	119	520880	8.272	ppbv	99
70) n-Butylbenzene	12.280	91	513027	8.398	ppbv	99
71) 2-Chlorotoluene	10.898	91	396434	8.649	ppbv	99
72) 4-Ethyltoluene	11.122	105	356325	8.779	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	294977	8.660	ppbv	95
74) 1,2,4-Trimethylbenzene	11.533	105	314606	8.463	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	180491	8.320	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	179491	8.273	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	166137	7.966	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	125707	7.222	ppbv	100
79) Naphthalene	13.510	128	273029	8.270	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	74802	8.631	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	125470	8.497	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

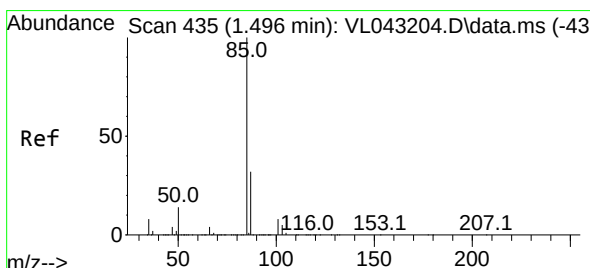
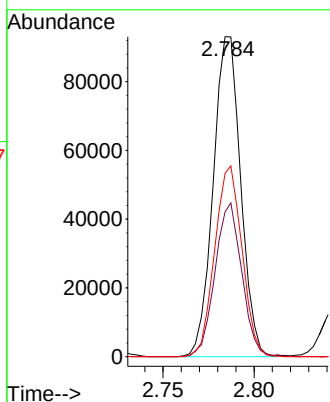
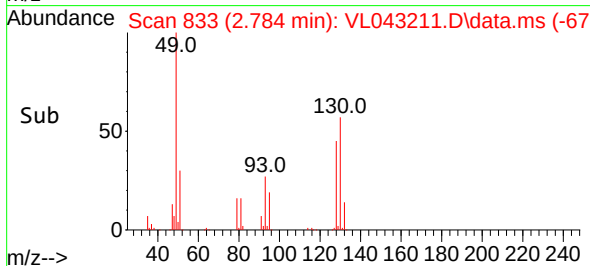
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



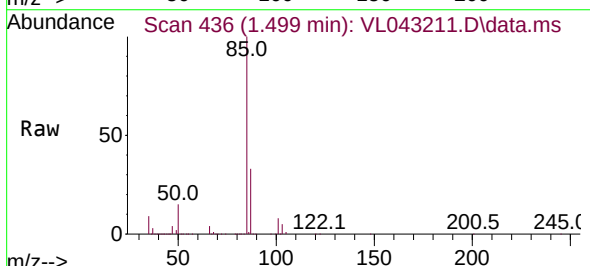
Tgt Ion: 49 Resp: 97854
Ion Ratio Lower Upper
49 100
128 46.7 23.0 69.0
130 59.0 29.9 89.7

Manual Integrations
APPROVED

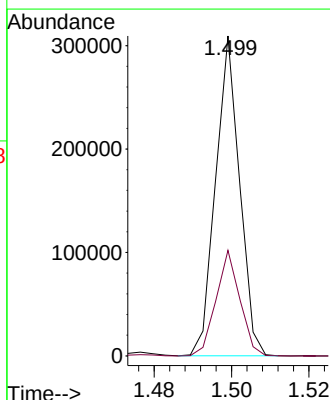
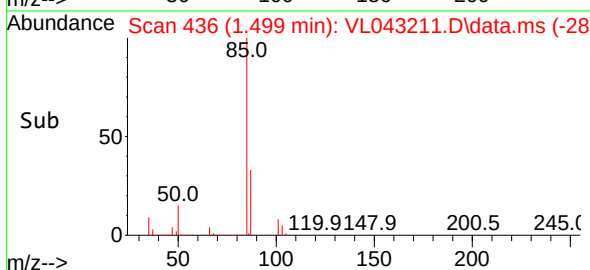
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

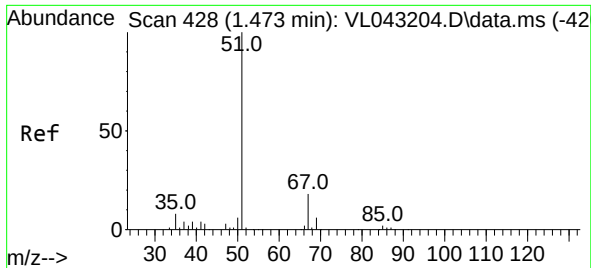


#2
Dichlorodifluoromethane
Concen: 9.664 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



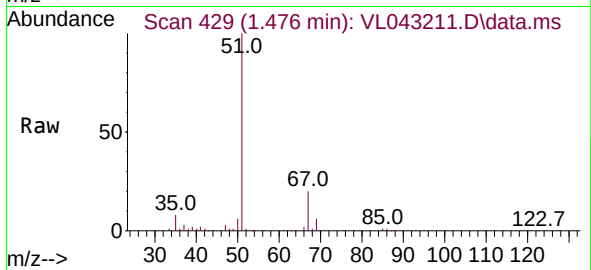
Tgt Ion: 85 Resp: 133374
Ion Ratio Lower Upper
85 100
87 33.0 25.4 38.2





#3
Chlorodifluoromethane
Concen: 9.199 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

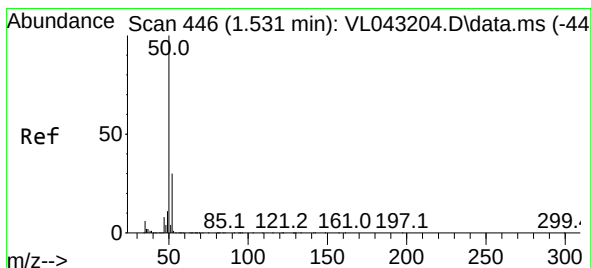
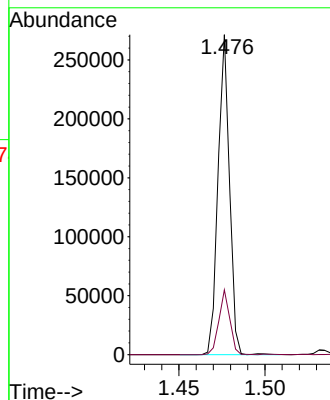
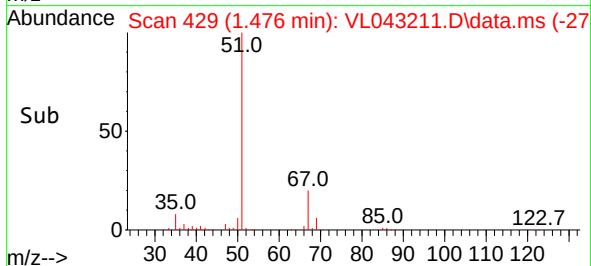
Instrument : MSVOA_L
ClientSampleId : ICVVL111825



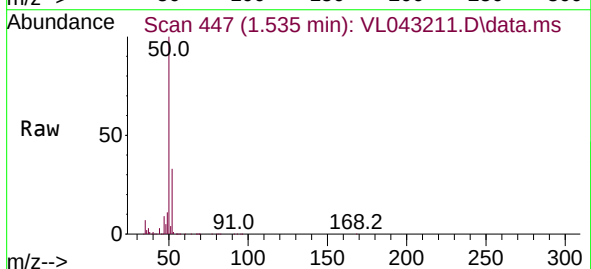
Tgt Ion: 51 Resp: 124858
Ion Ratio Lower Upper
51 100
67 19.6 14.9 22.3

Manual Integrations
APPROVED

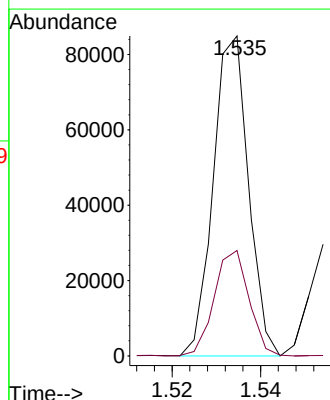
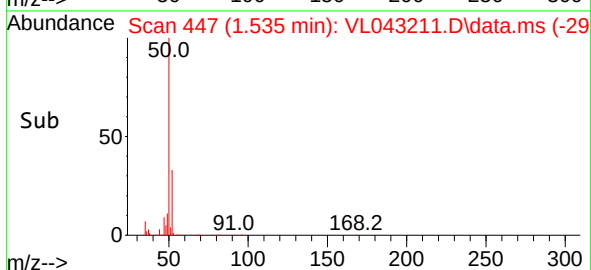
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

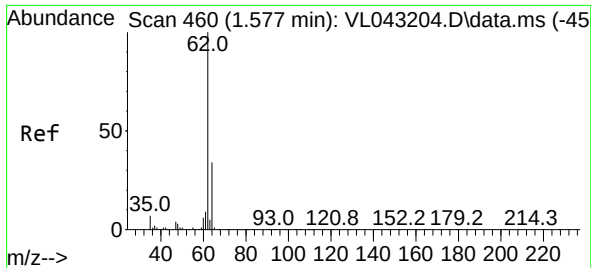


#4
Chloromethane
Concen: 9.090 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



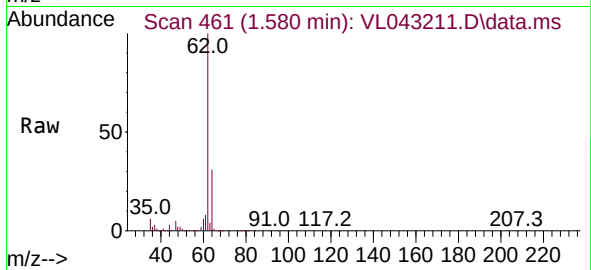
Tgt Ion: 50 Resp: 46906
Ion Ratio Lower Upper
50 100
52 32.8 24.1 36.1





#5
 Vinyl Chloride
 Concen: 8.493 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

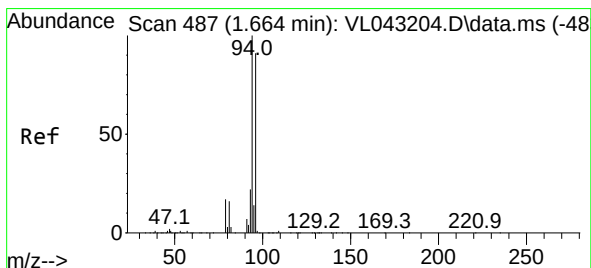
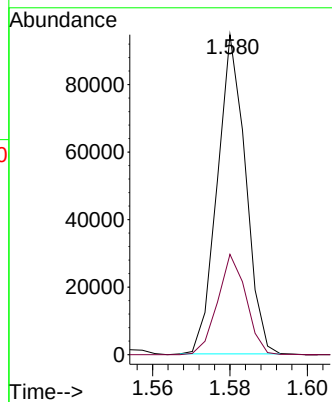
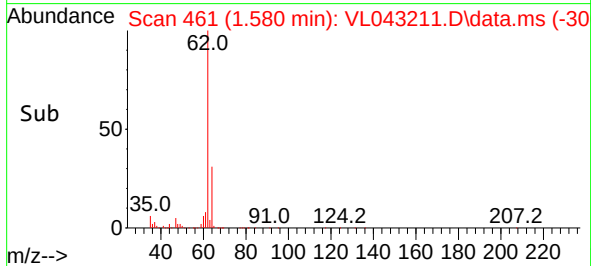
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825



Tgt Ion: 62 Resp: 47932
 Ion Ratio Lower Upper
 62 100
 64 31.4 27.3 40.9

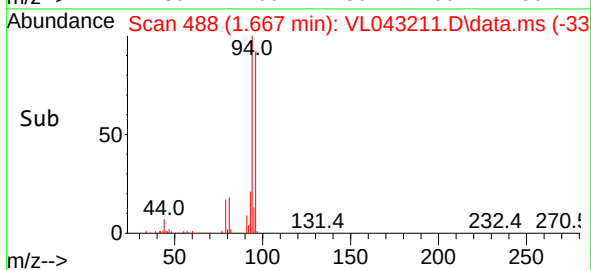
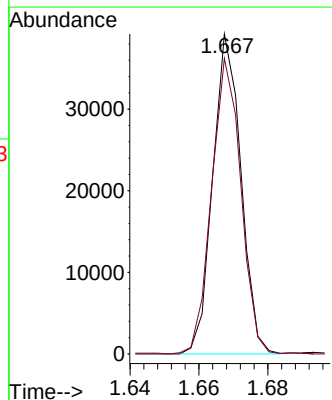
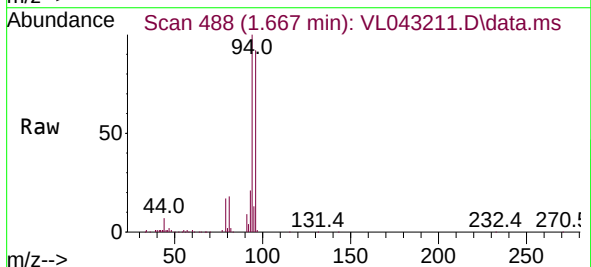
Manual Integrations
 APPROVED

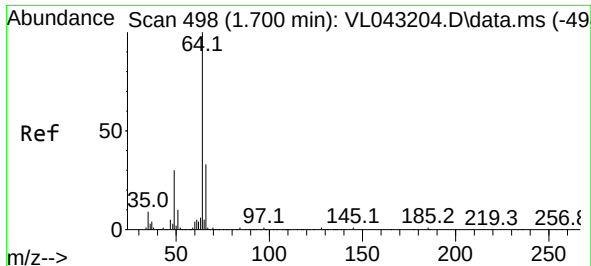
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#6
 Bromomethane
 Concen: 8.126 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

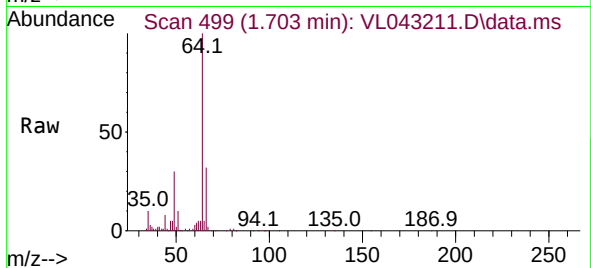
Tgt Ion: 94 Resp: 22230
 Ion Ratio Lower Upper
 94 100
 96 92.2 72.9 109.3





#7
Chloroethane
Concen: 9.033 ppbv
RT: 1.703 min Scan# 498
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

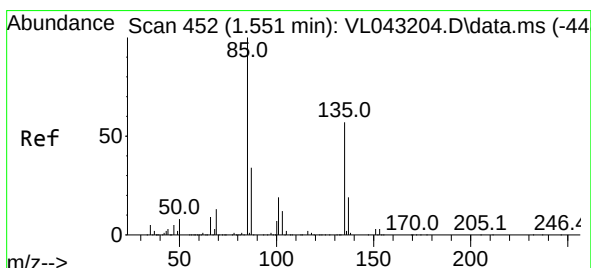
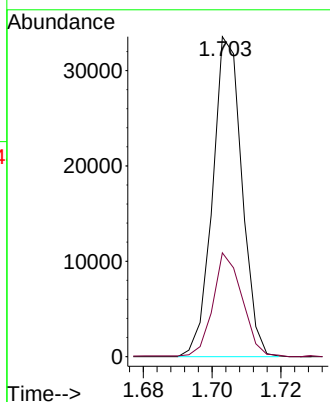
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



Tgt Ion: 64 Resp: 19854
Ion Ratio Lower Upper
64 100
66 32.4 26.8 40.2

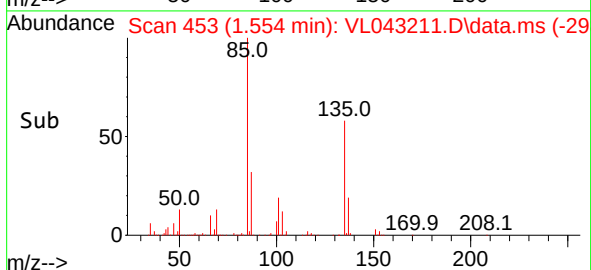
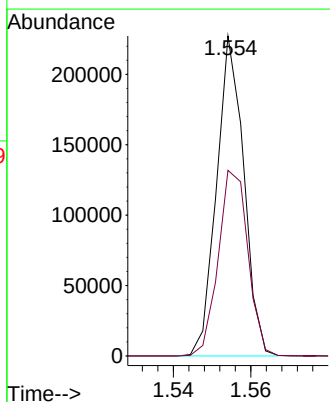
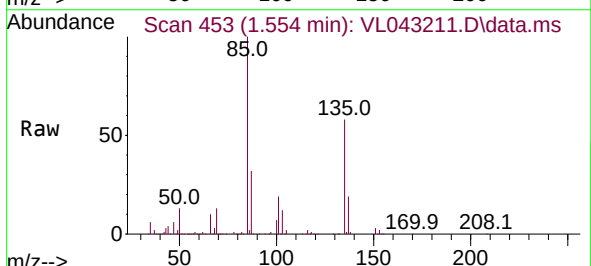
Manual Integrations
APPROVED

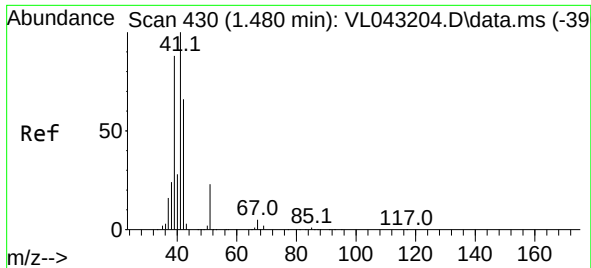
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#8
Dichlorotetrafluoroethane
Concen: 9.632 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 110587
Ion Ratio Lower Upper
85 100
135 63.5 52.6 79.0





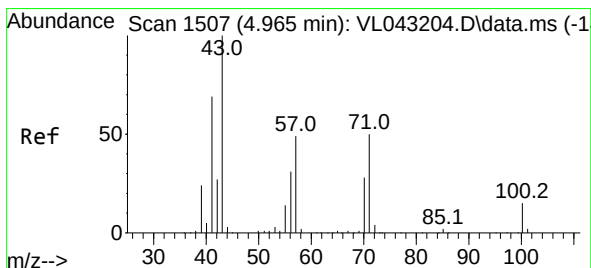
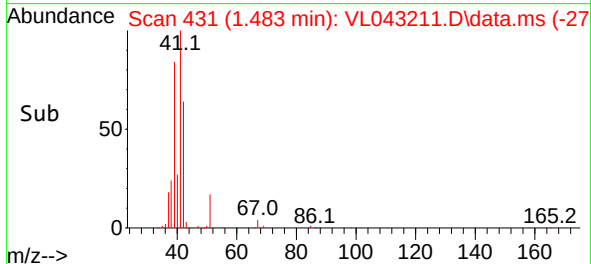
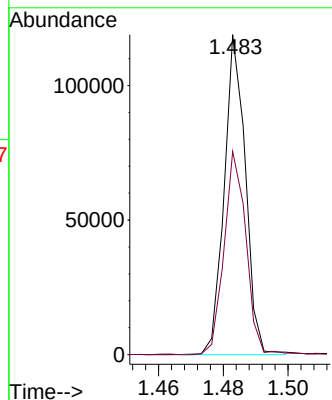
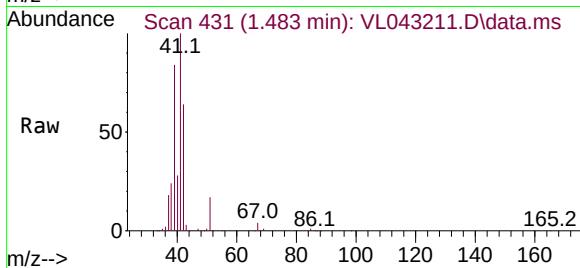
#9
 Propene
 Concen: 9.370 ppbv m
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL111825

Tgt Ion: 41 Resp: 54000
 Ion Ratio Lower Upper
 41 100
 42 4.4 3.7 5.5

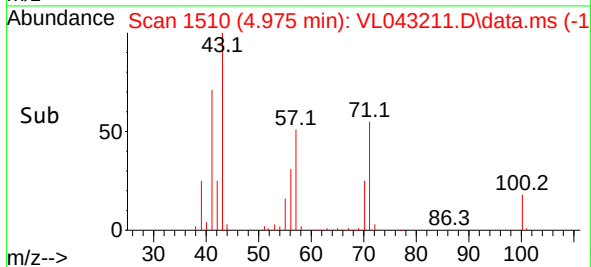
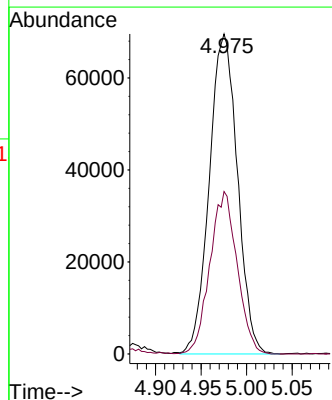
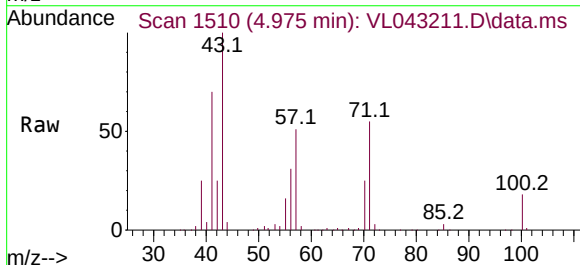
Manual Integrations
 APPROVED

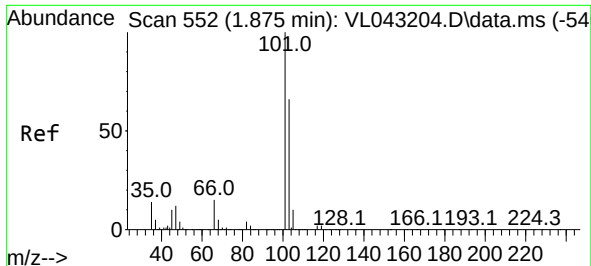
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 8.698 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.010 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

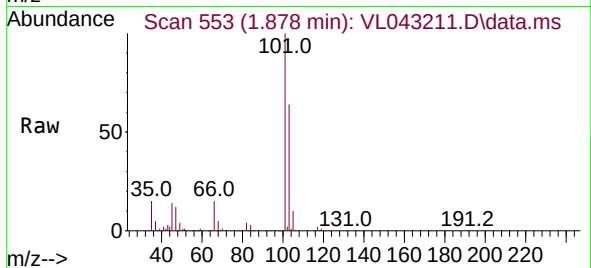
Tgt Ion: 43 Resp: 149202
 Ion Ratio Lower Upper
 43 100
 57 49.1 39.7 59.5





#11
Trichlorofluoromethane
Concen: 10.077 ppbv
RT: 1.878 min Scan# 551
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

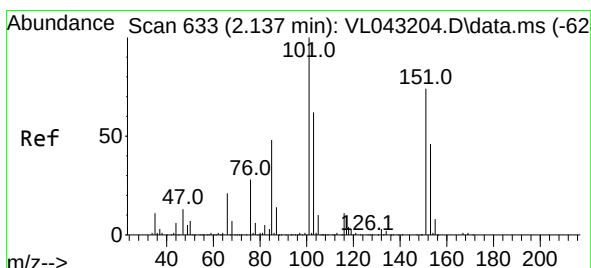
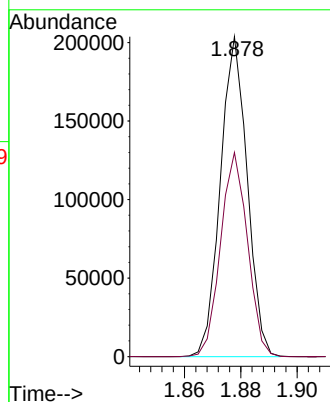
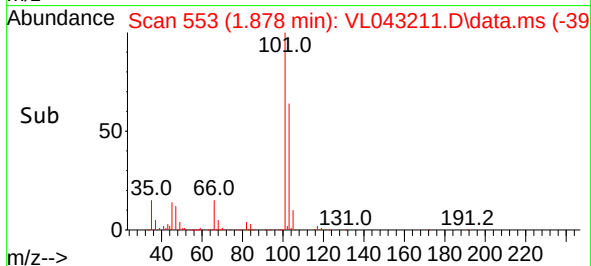
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



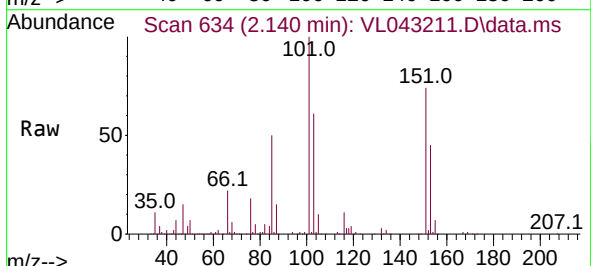
Tgt Ion:101 Resp: 134746
Ion Ratio Lower Upper
101 100
103 63.8 52.6 79.0

Manual Integrations
APPROVED

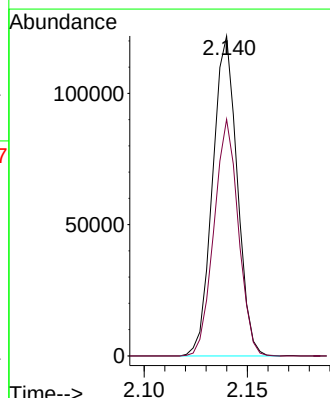
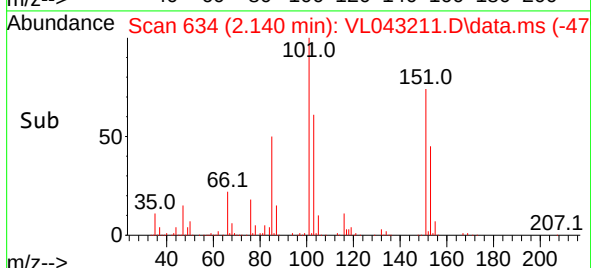
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

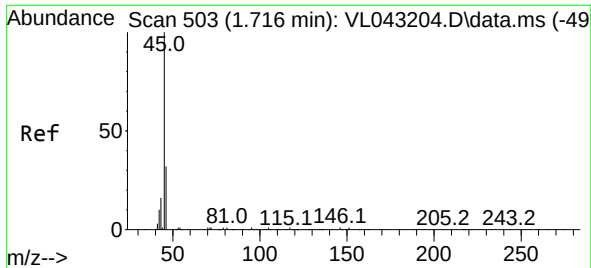


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.673 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



Tgt Ion:101 Resp: 100984
Ion Ratio Lower Upper
101 100
151 73.1 59.2 88.8





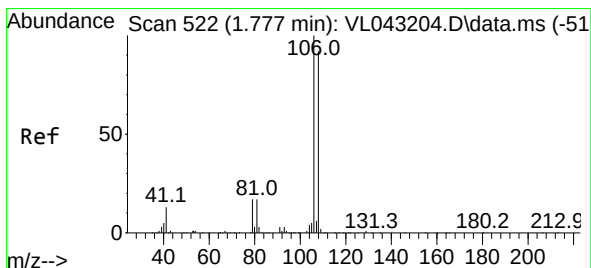
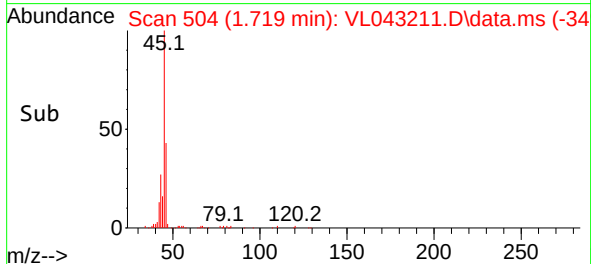
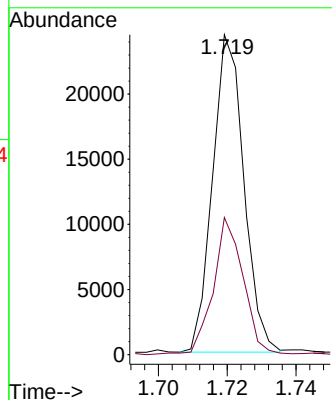
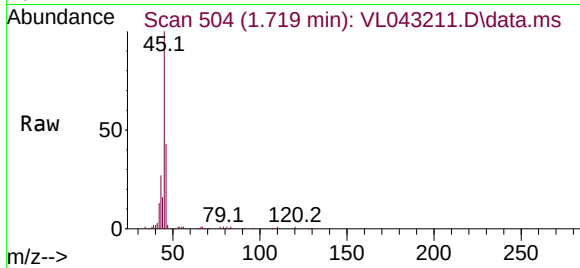
#13
Ethanol
Concen: 7.584 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 45 Resp: 1537
Ion Ratio Lower Upper
45 100
46 42.2 15.0 59.8

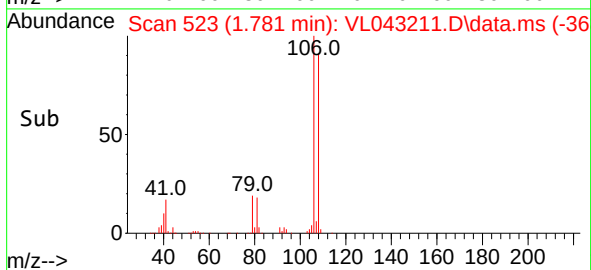
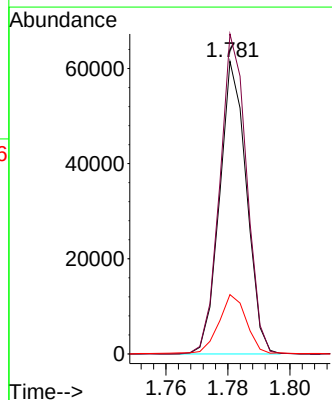
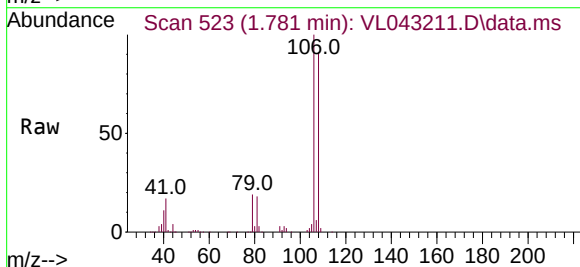
Manual Integrations
APPROVED

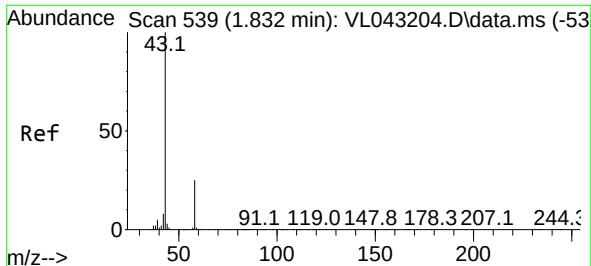
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#14
Bromoethene
Concen: 9.240 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

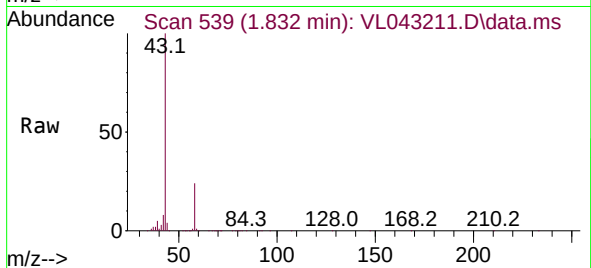
Tgt Ion:108 Resp: 36979
Ion Ratio Lower Upper
108 100
106 109.3 88.9 133.3
79 21.9 16.5 24.7





#15
Acetone
Concen: 7.711 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

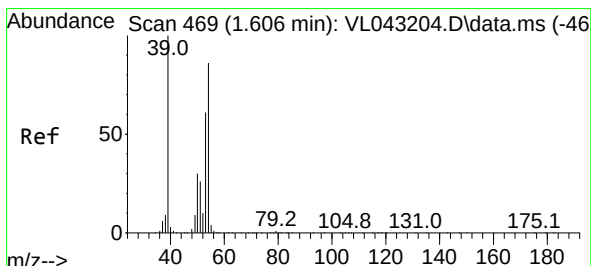
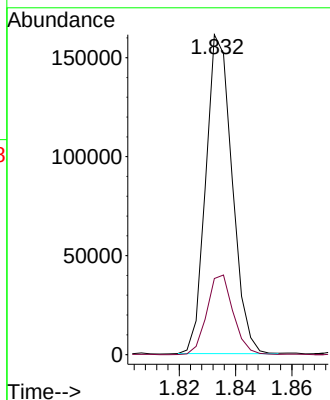
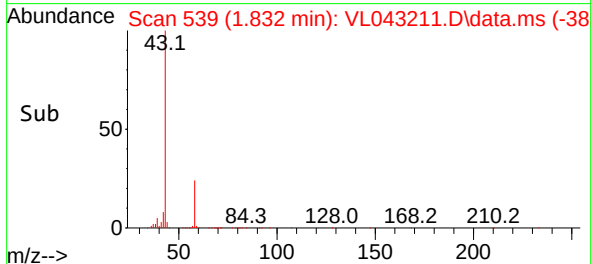
Instrument : MSVOA_L
ClientSampleId : ICVVL111825



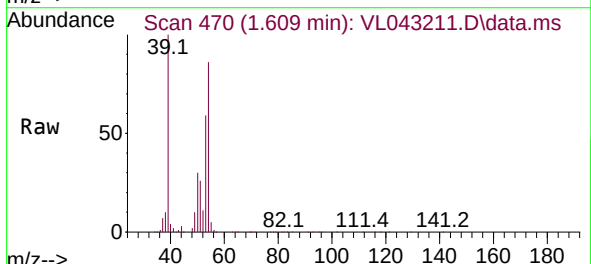
Tgt Ion: 43 Resp: 104830
Ion Ratio Lower Upper
43 100
58 25.2 20.7 31.1

Manual Integrations
APPROVED

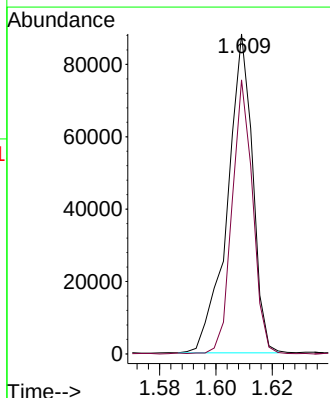
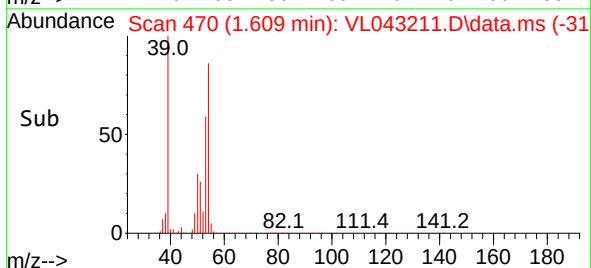
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

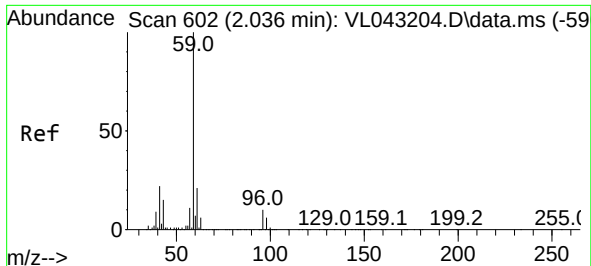


#16
1,3-Butadiene
Concen: 9.041 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



Tgt Ion: 39 Resp: 54795
Ion Ratio Lower Upper
39 100
54 71.3 59.4 89.2





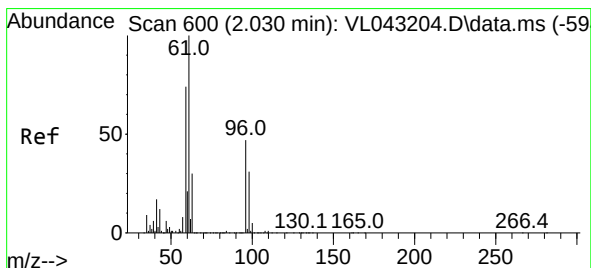
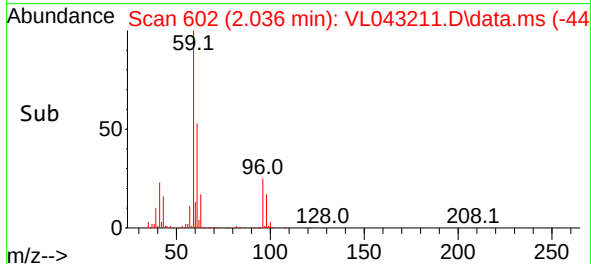
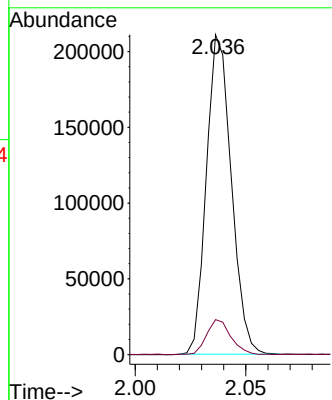
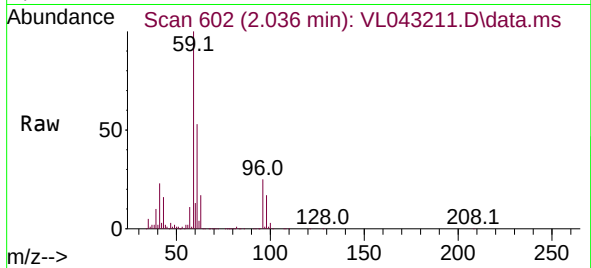
#17
tert-Butyl alcohol
Concen: 9.245 ppbv
RT: 2.036 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 59 Resp: 16498
Ion Ratio Lower Upper
59 100
57 10.8 9.0 13.4

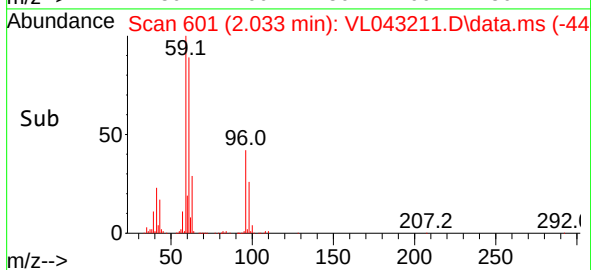
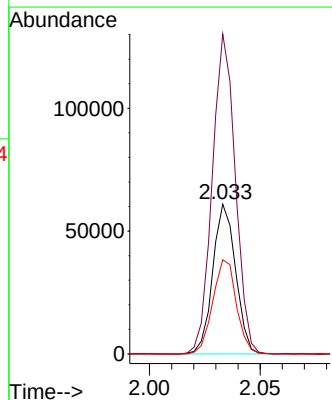
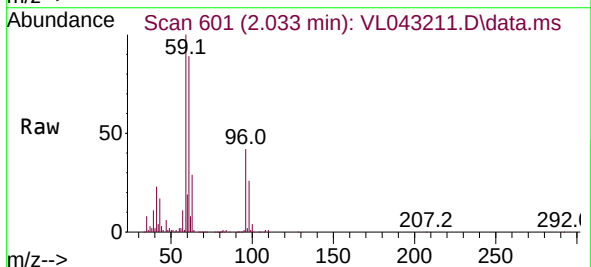
Manual Integrations
APPROVED

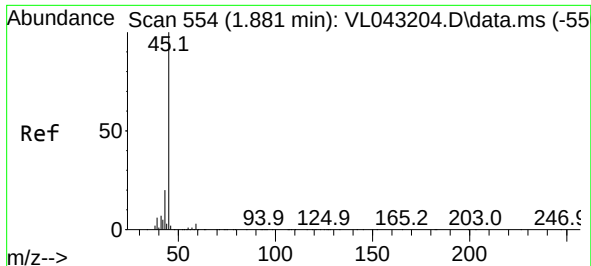
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#18
1,1-Dichloroethene
Concen: 9.017 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 96 Resp: 43833
Ion Ratio Lower Upper
96 100
61 214.0 170.6 255.8
98 62.9 52.2 78.4





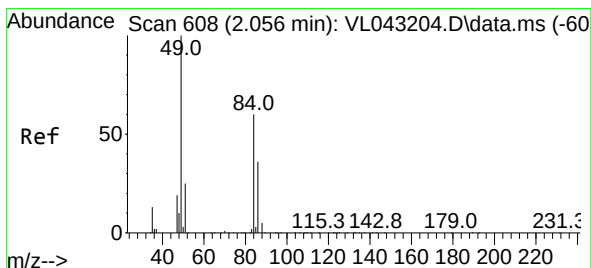
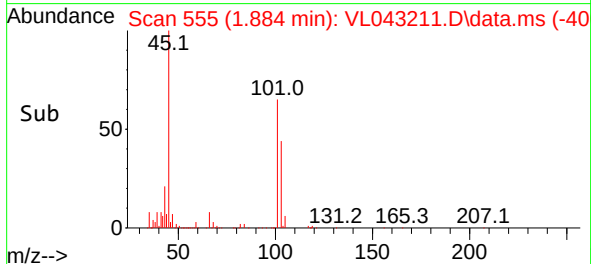
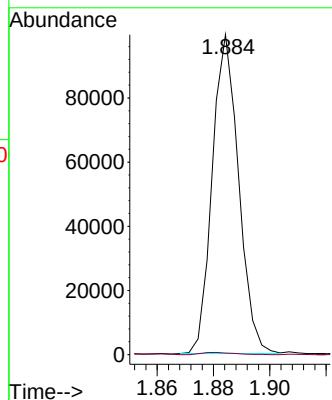
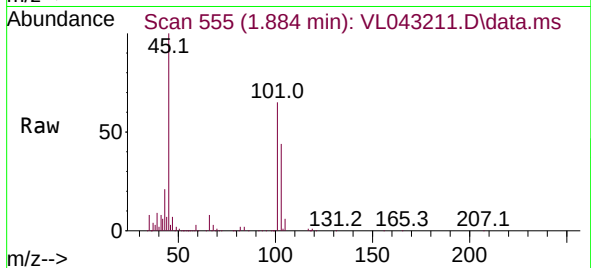
#19
Isopropyl Alcohol
Concen: 8.431 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 45 Resp: 64772
Ion Ratio Lower Upper
45 100
58 40.8 31.3 46.9

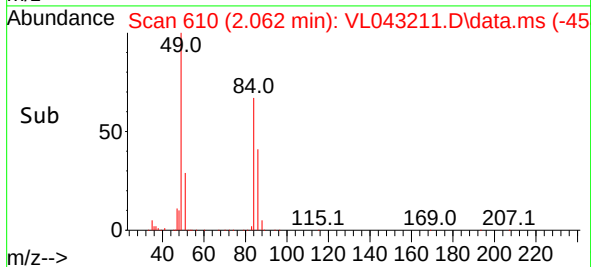
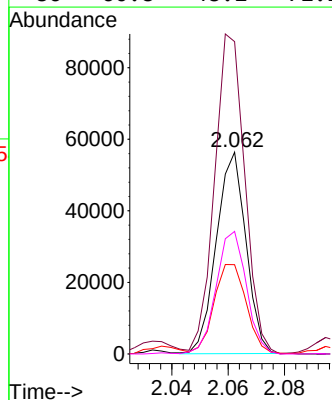
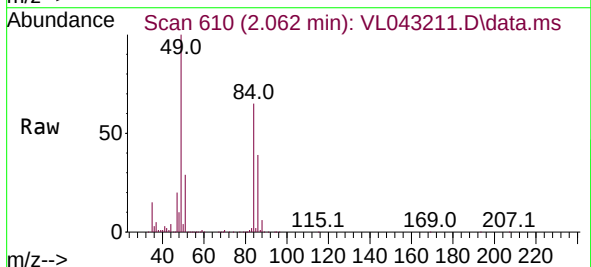
Manual Integrations
APPROVED

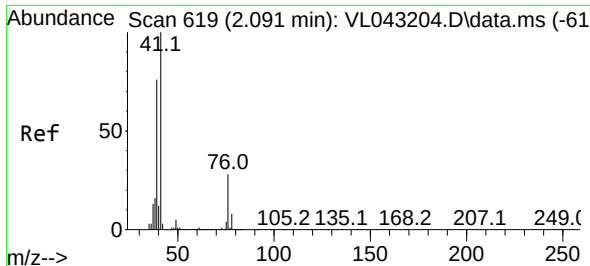
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 10.323 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 84 Resp: 41254
Ion Ratio Lower Upper
84 100
49 155.1 132.9 199.3
51 43.9 34.8 52.2
86 60.8 48.2 72.2





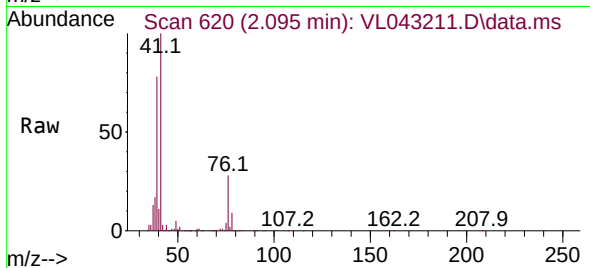
#21
 Allyl Chloride
 Concen: 8.256 ppbv
 RT: 2.095 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111825

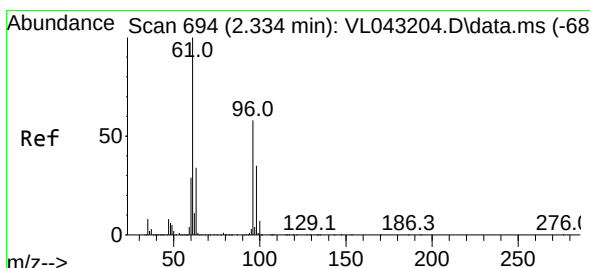
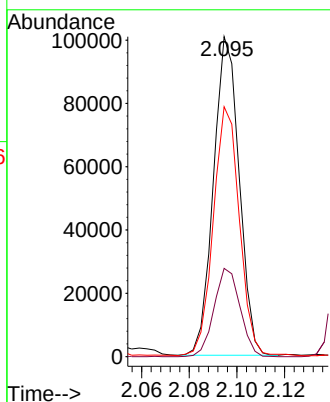
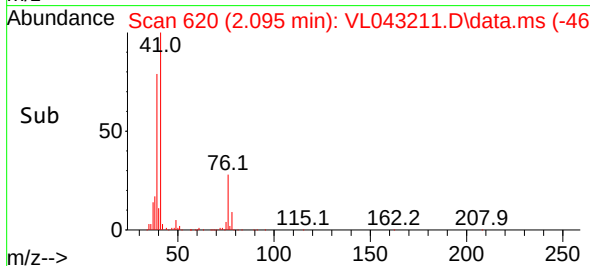


Tgt Ion: 41 Resp: 75516
 Ion Ratio Lower Upper
 41 100
 76 27.9 22.1 33.1
 39 79.3 61.0 91.4

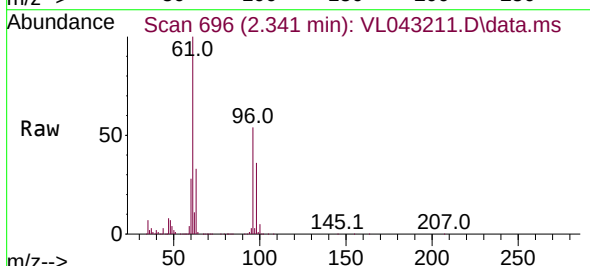
Manual Integrations

APPROVED

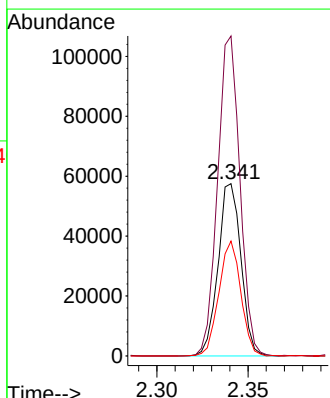
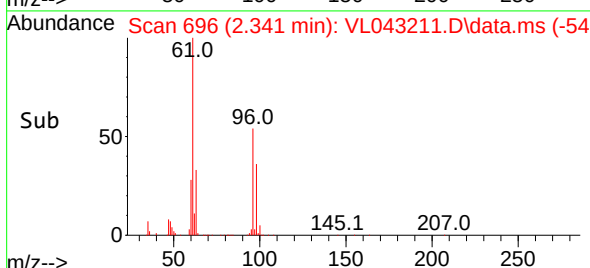
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

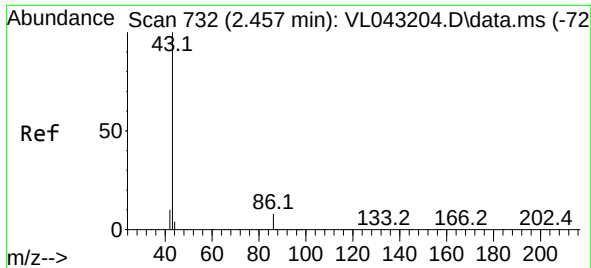


#22
 trans-1,2-Dichloroethene
 Concen: 9.041 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.006 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56



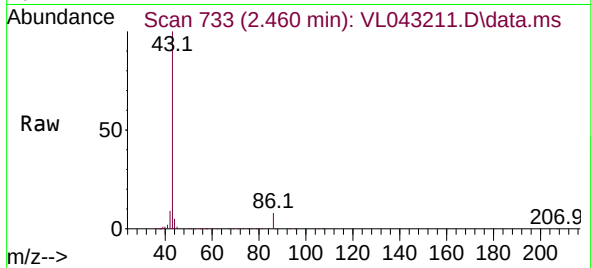
Tgt Ion: 96 Resp: 50228
 Ion Ratio Lower Upper
 96 100
 61 185.7 139.0 208.6
 98 66.6 49.4 74.2





#23
 Vinyl Acetate
 Concen: 8.539 ppbv
 RT: 2.460 min Scan# 732
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

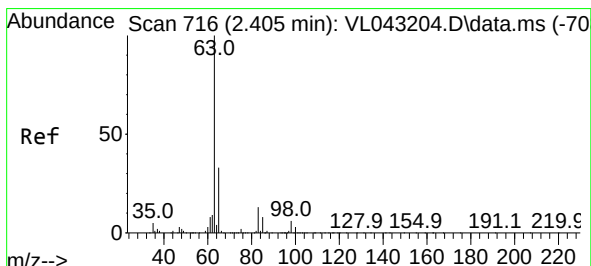
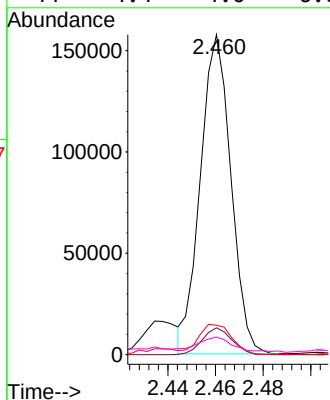
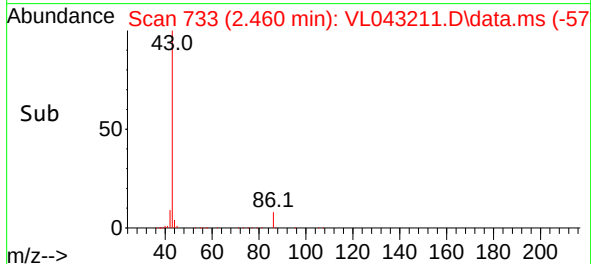
Instrument : MSVOA_L
 ClientSampleId : ICVVL111825



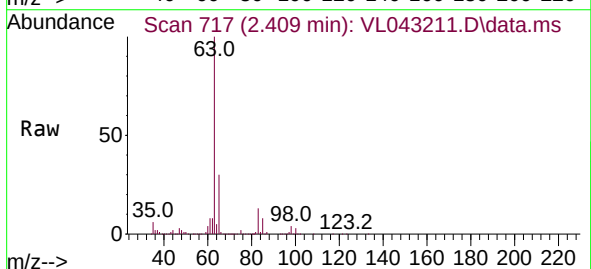
Tgt Ion: 43 Resp: 140156
 Ion Ratio Lower Upper
 43 100
 86 8.4 6.2 9.2
 42 9.1 8.0 12.0
 44 4.4 4.0 6.0

Manual Integrations
 APPROVED

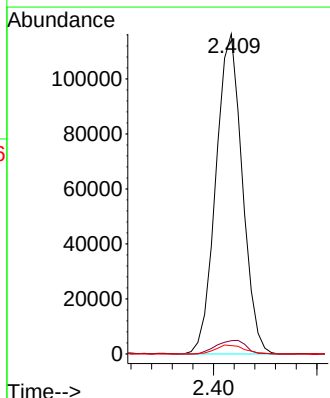
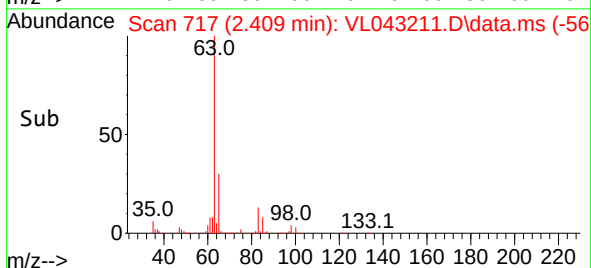
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

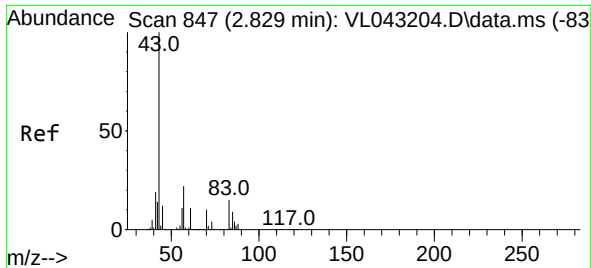


#24
 1,1-Dichloroethane
 Concen: 9.622 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56



Tgt Ion: 63 Resp: 103187
 Ion Ratio Lower Upper
 63 100
 98 4.1 2.8 8.4
 100 2.6 1.3 3.9





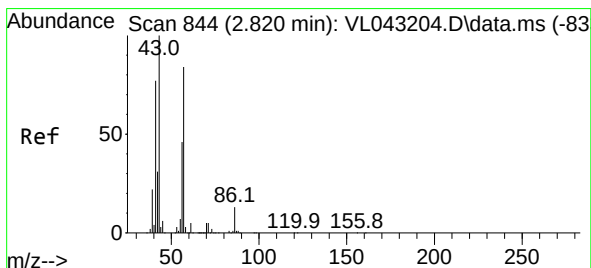
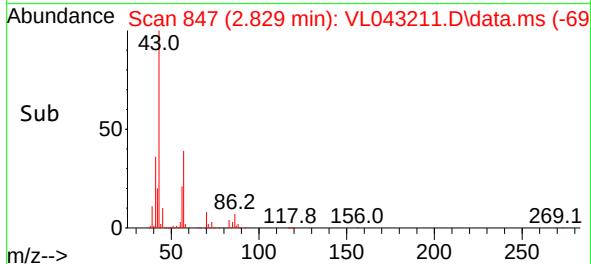
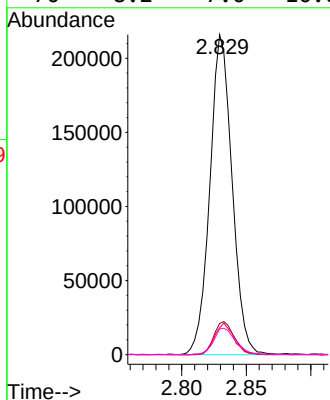
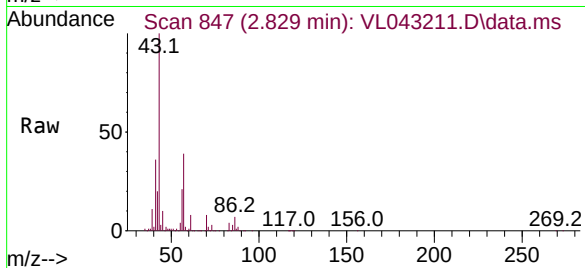
#25
Ethyl Acetate
Concen: 8.820 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 43 Resp: 258609
Ion Ratio Lower Upper
43 100
45 9.6 8.1 12.1
61 8.5 7.0 10.4
70 8.2 7.0 10.6

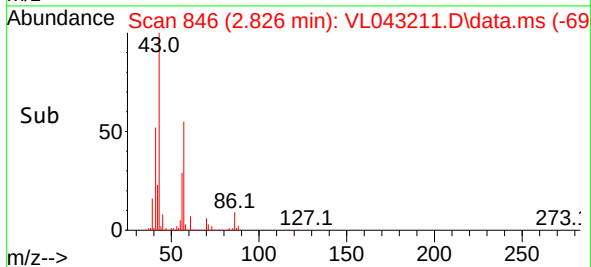
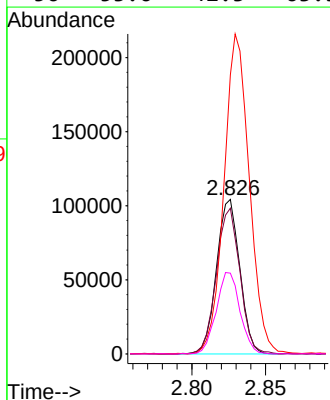
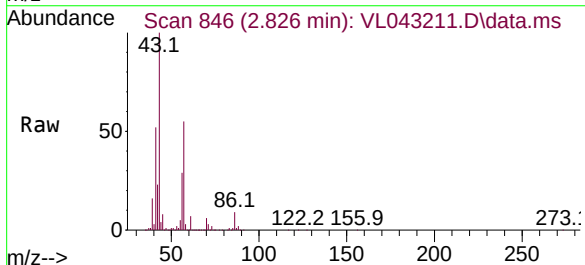
Manual Integrations
APPROVED

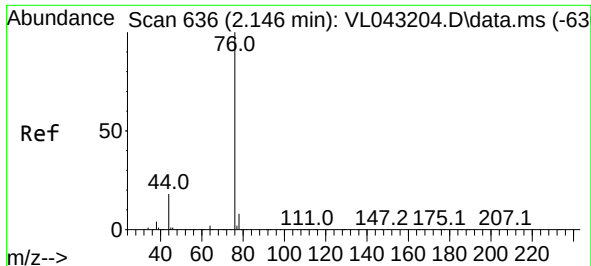
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#26
Hexane
Concen: 8.892 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

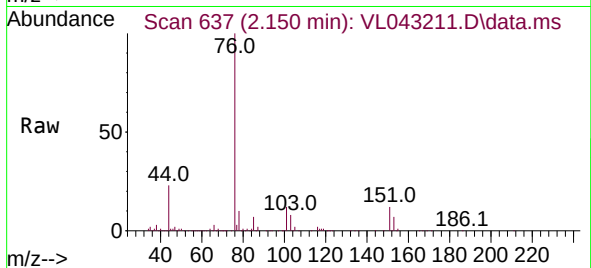
Tgt Ion: 57 Resp: 114312
Ion Ratio Lower Upper
57 100
41 96.0 74.6 111.8
43 226.4 179.0 268.4
56 53.6 42.3 63.5





#27
Carbon Disulfide
Concen: 9.528 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

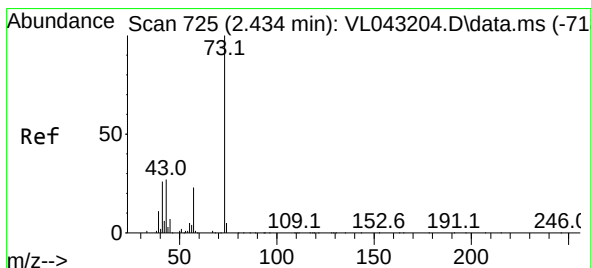
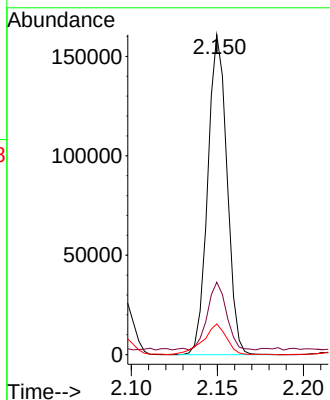
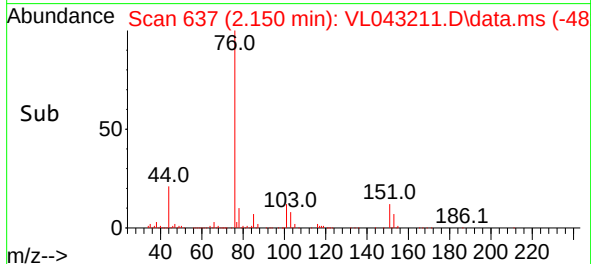
Instrument : MSVOA_L
ClientSampleId : ICVVL111825



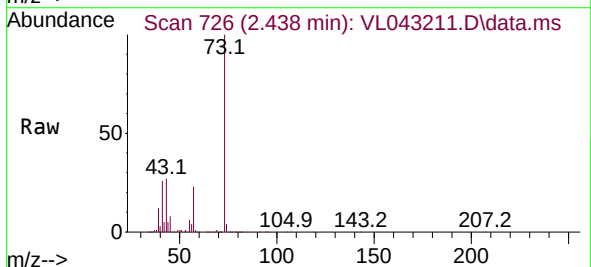
Tgt Ion: 76 Resp: 125048
Ion Ratio Lower Upper
76 100
44 21.9 16.1 24.1
78 11.6 9.6 14.4

Manual Integrations
APPROVED

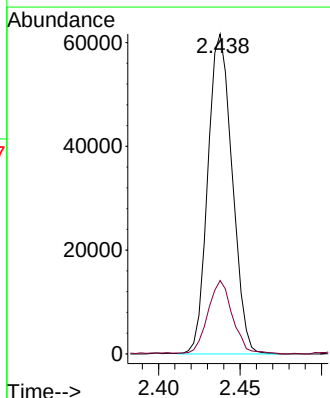
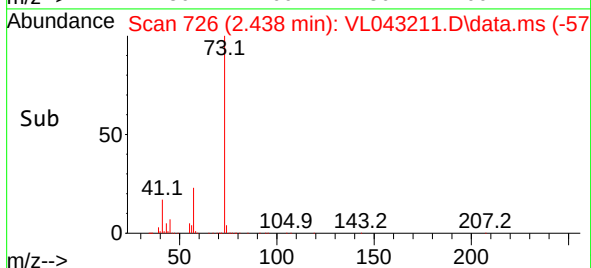
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

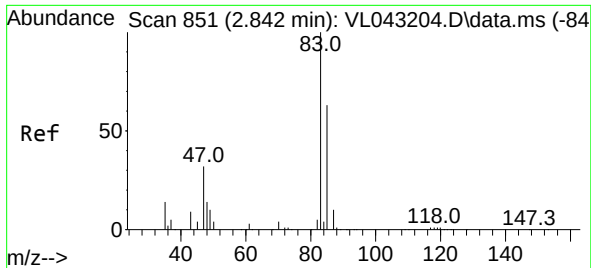


#28
Methyl tert-Butyl Ether
Concen: 10.171 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



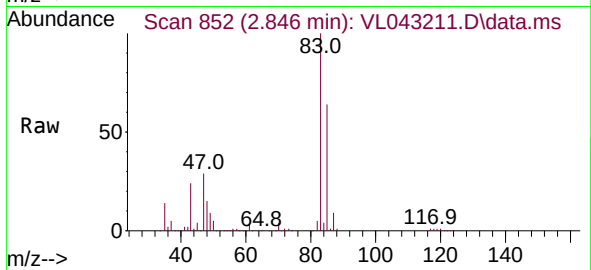
Tgt Ion: 73 Resp: 64183
Ion Ratio Lower Upper
73 100
57 23.6 19.8 29.8





#29
Chloroform
Concen: 9.521 ppbv
RT: 2.846 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

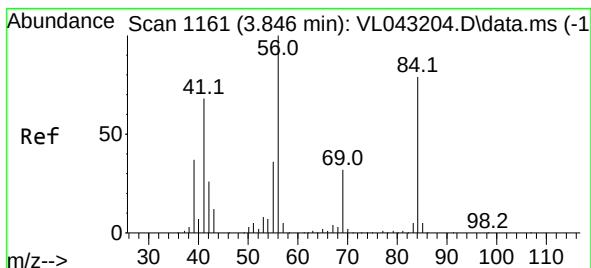
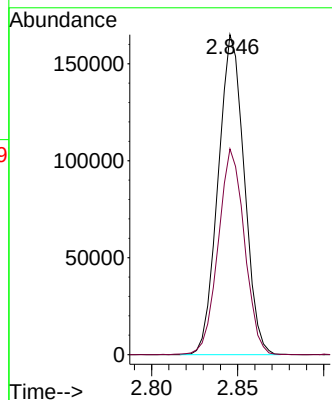
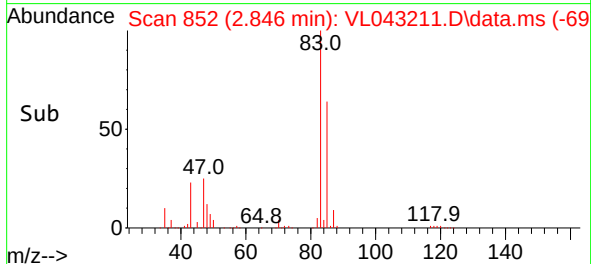
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



Tgt Ion: 83 Resp: 173972
Ion Ratio Lower Upper
83 100
85 64.2 50.5 75.7

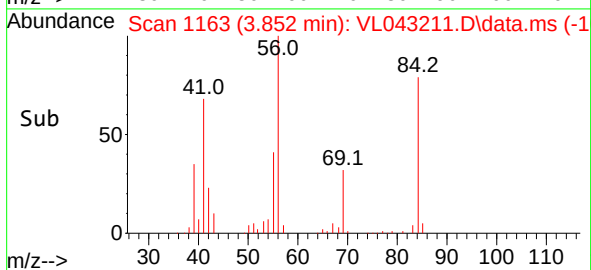
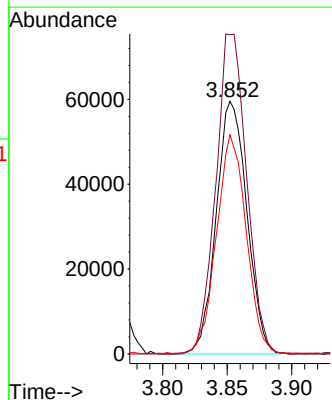
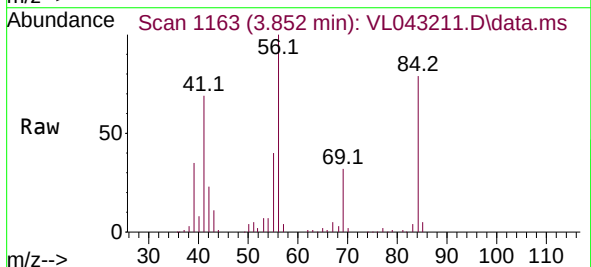
Manual Integrations
APPROVED

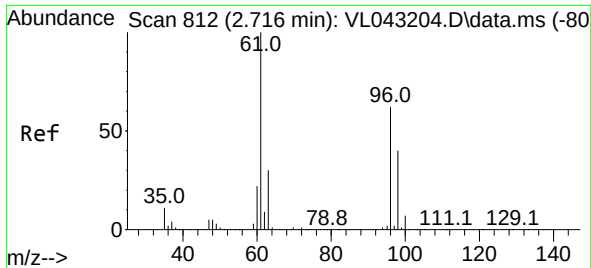
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 9.148 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

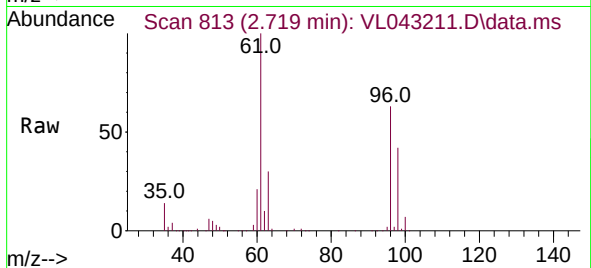
Tgt Ion: 84 Resp: 98598
Ion Ratio Lower Upper
84 100
56 127.4 104.7 157.1
41 84.5 69.0 103.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.379 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

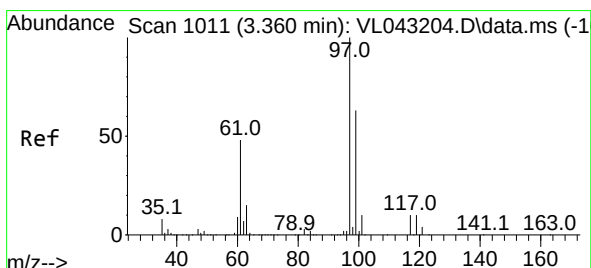
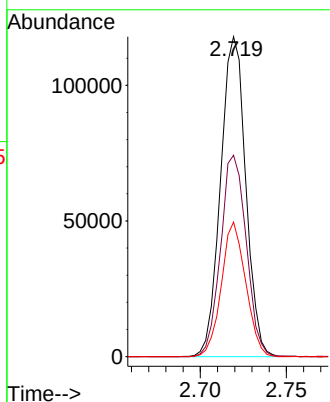
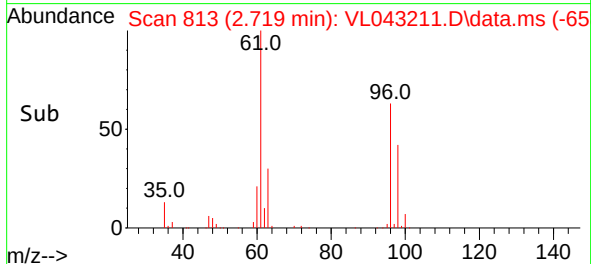
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825



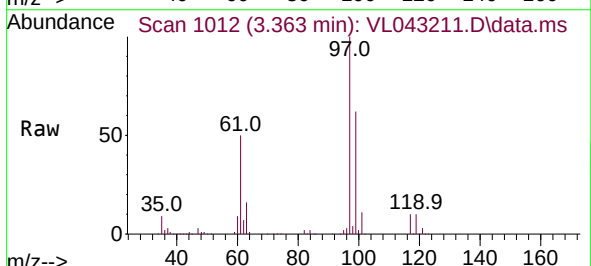
Tgt Ion: 61 Resp: 119843
 Ion Ratio Lower Upper
 61 100
 96 62.9 49.3 73.9
 98 42.0 32.1 48.1

Manual Integrations
 APPROVED

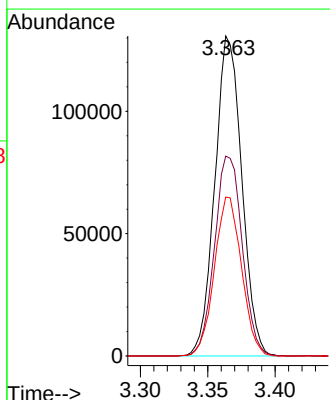
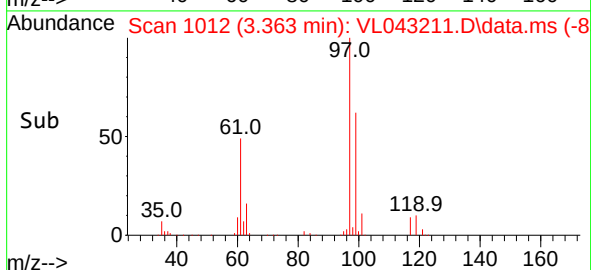
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

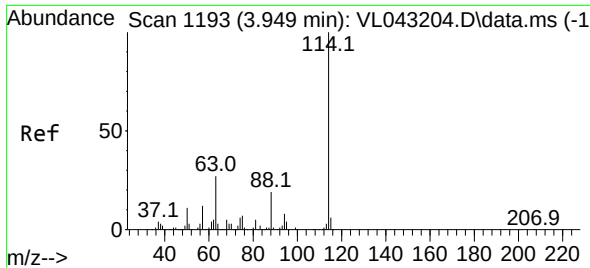


#32
 1,1,1-Trichloroethane
 Concen: 9.358 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56



Tgt Ion: 97 Resp: 182262
 Ion Ratio Lower Upper
 97 100
 99 64.2 50.3 75.5
 61 49.9 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111825

Tgt Ion: 114 Resp: 261914

Ion Ratio Lower Upper

114 100

63 26.0 21.0 31.6

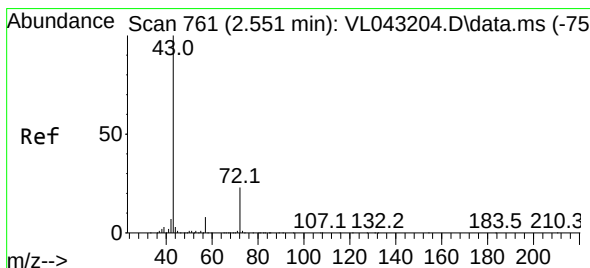
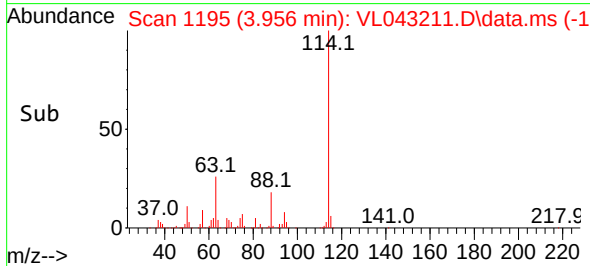
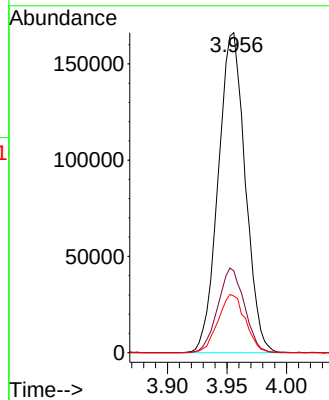
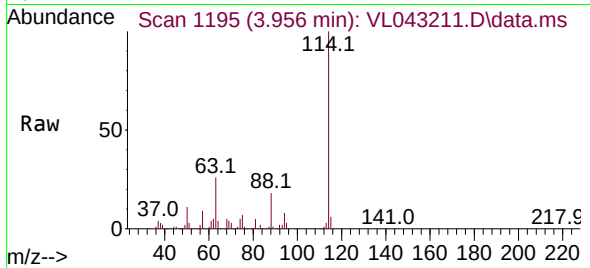
88 18.3 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 8.707 ppbv

RT: 2.551 min Scan# 761

Delta R.T. 0.000 min

Lab File: VL043211.D

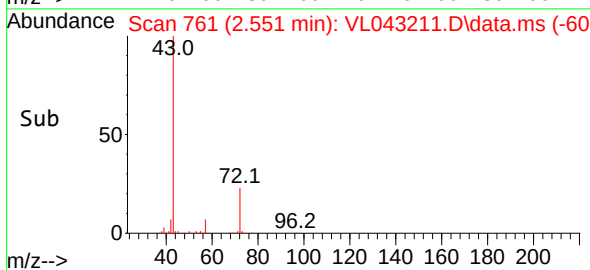
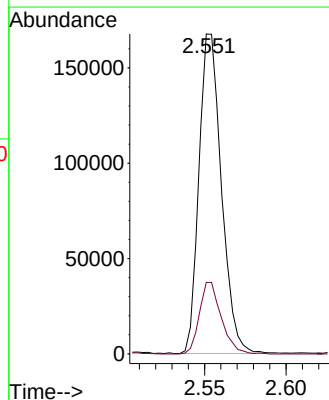
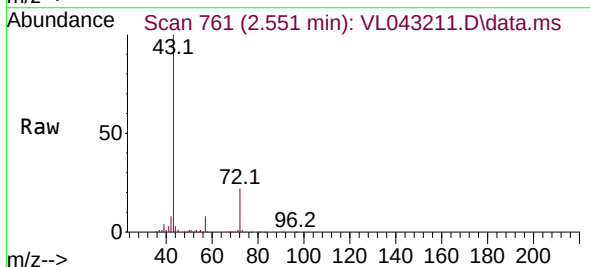
Acq: 18 Nov 2025 13:56

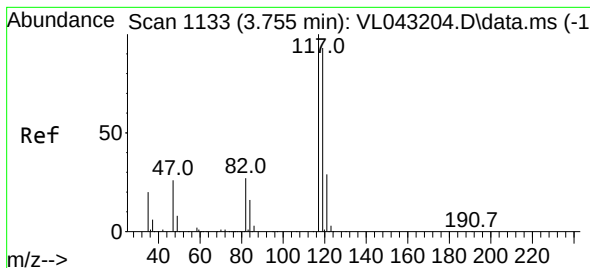
Tgt Ion: 43 Resp: 160977

Ion Ratio Lower Upper

43 100

72 21.8 18.1 27.1





#35

Carbon Tetrachloride

Concen: 9.200 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111825

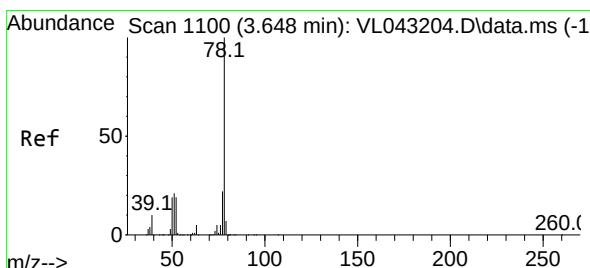
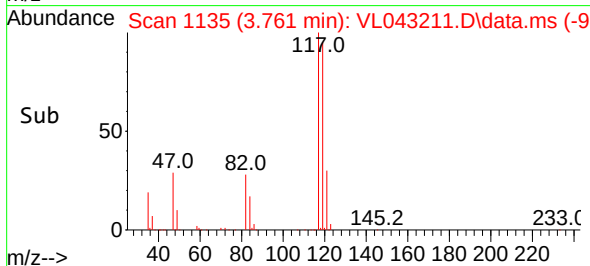
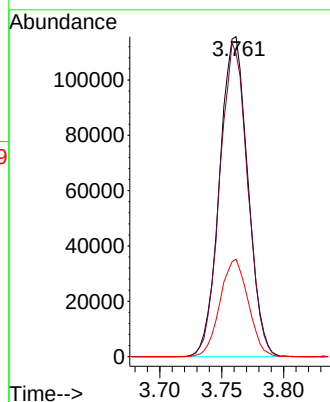
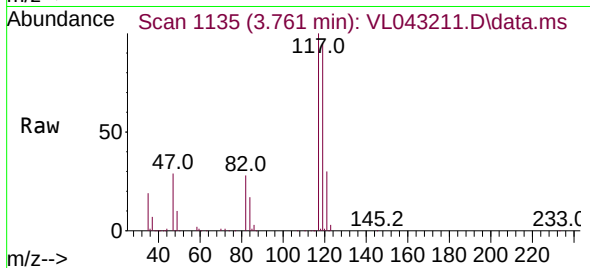
Tgt Ion: 117 Resp: 182902

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.6	112.0
121	30.4	23.2	34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36

Benzene

Concen: 9.293 ppbv

RT: 3.655 min Scan# 1102

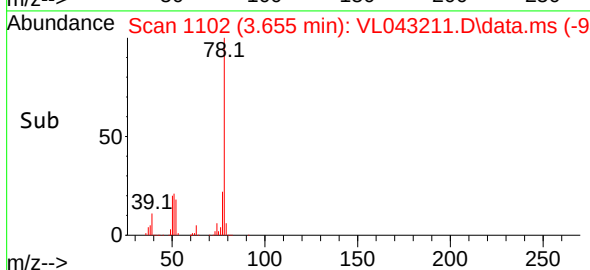
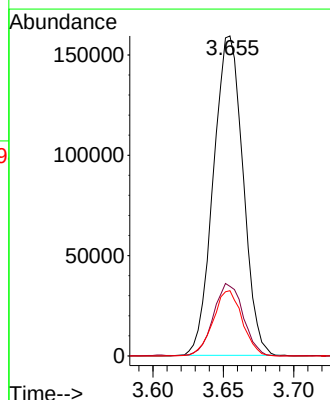
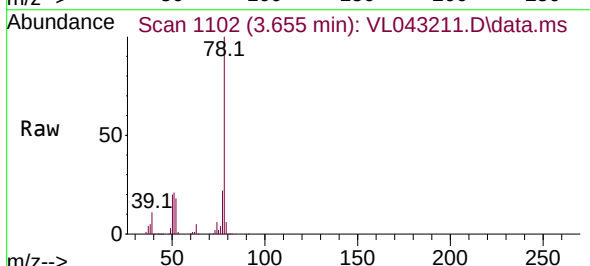
Delta R.T. 0.006 min

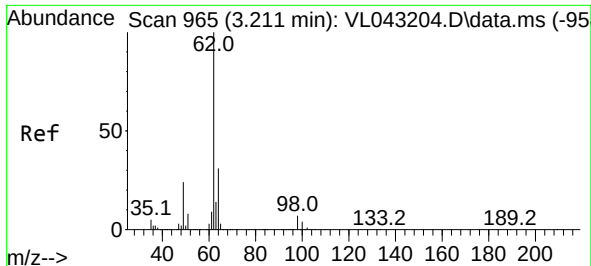
Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Tgt Ion: 78 Resp: 233094

Ion	Ratio	Lower	Upper
78	100		
77	21.8	17.5	26.3
50	20.4	15.5	23.3





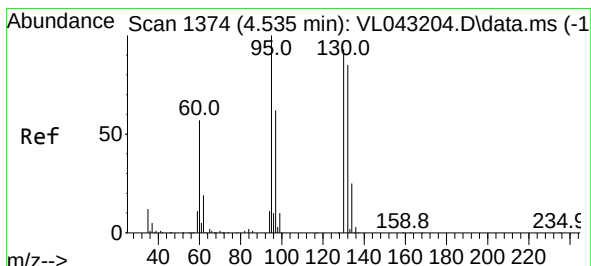
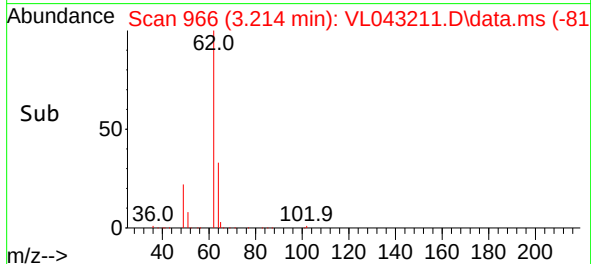
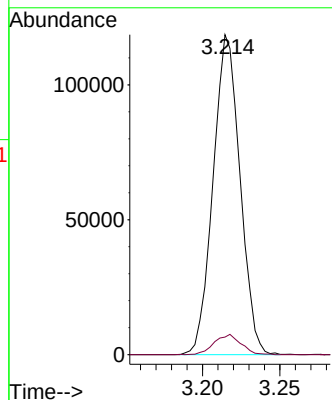
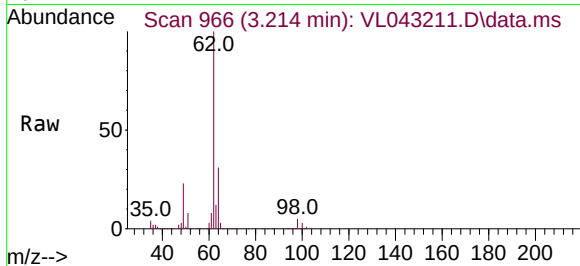
#37
1,2-Dichloroethane
Concen: 9.772 ppbv
RT: 3.214 min Scan# 965
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 62 Resp: 143363
Ion Ratio Lower Upper
62 100
98 6.3 5.5 8.3

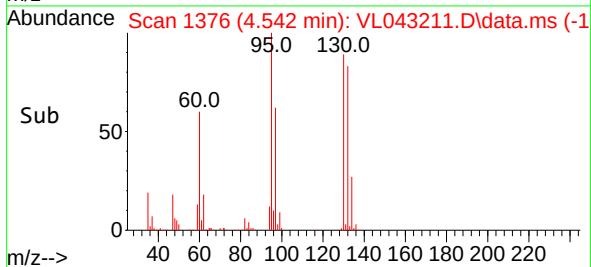
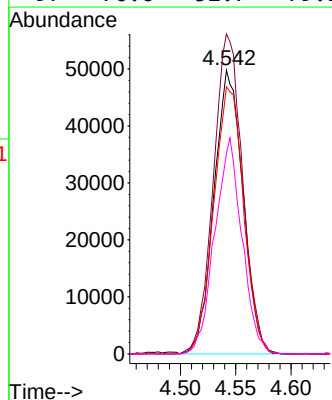
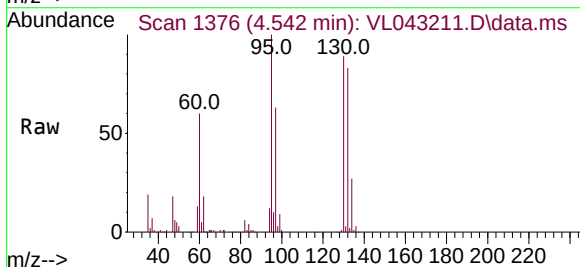
Manual Integrations
APPROVED

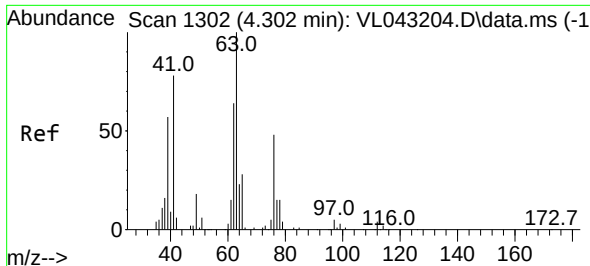
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#38
Trichloroethene
Concen: 9.272 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:130 Resp: 90993
Ion Ratio Lower Upper
130 100
95 112.7 85.7 128.5
132 94.1 73.4 110.0
97 70.6 52.7 79.1





#39

1,2-Dichloropropane

Concen: 9.086 ppbv

RT: 4.305 min Scan# 1302

Delta R.T. 0.003 min

Lab File: VL043211.D

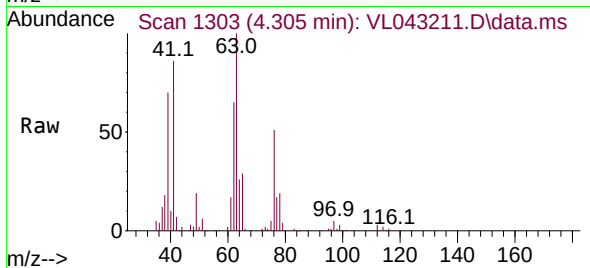
Acq: 18 Nov 2025 13:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111825



Tgt Ion: 63 Resp: 83416

Ion Ratio Lower Upper

63 100

41 85.0 62.6 93.8

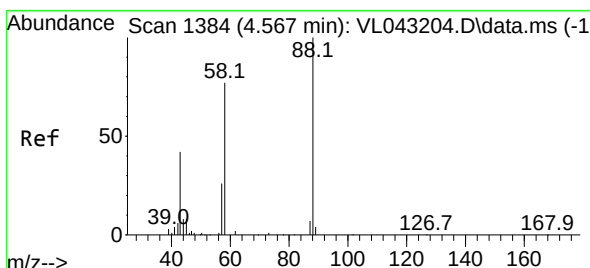
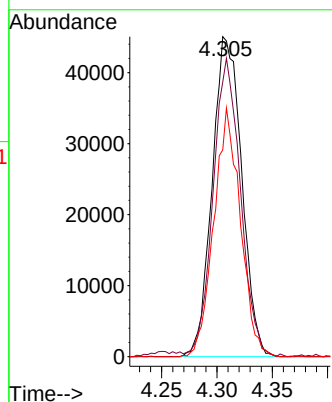
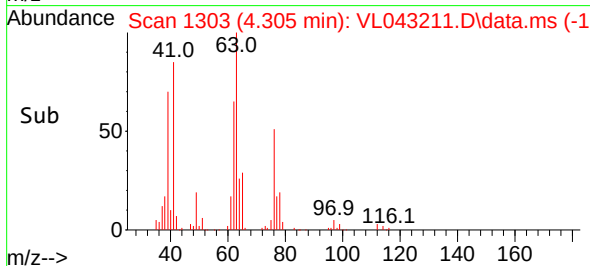
62 64.6 51.0 76.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#40

1,4-Dioxane

Concen: 7.780 ppbv

RT: 4.571 min Scan# 1385

Delta R.T. 0.003 min

Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Tgt Ion: 88 Resp: 32109

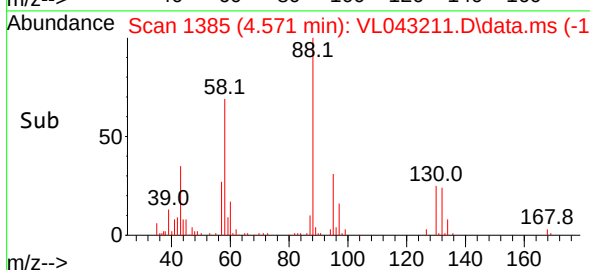
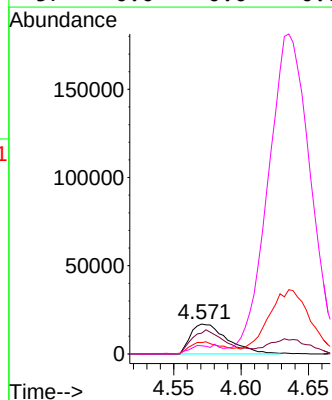
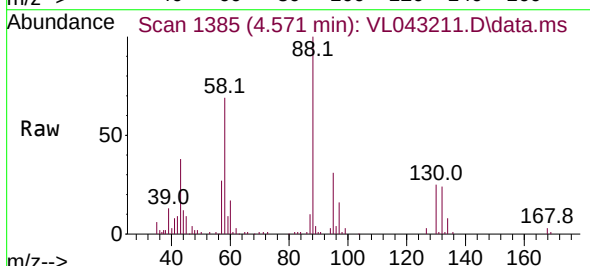
Ion Ratio Lower Upper

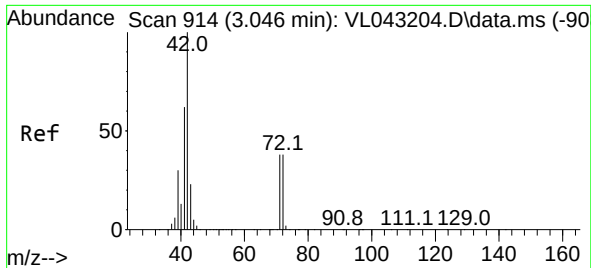
88 100

58 74.8 63.0 94.6

43 37.4 32.5 48.7

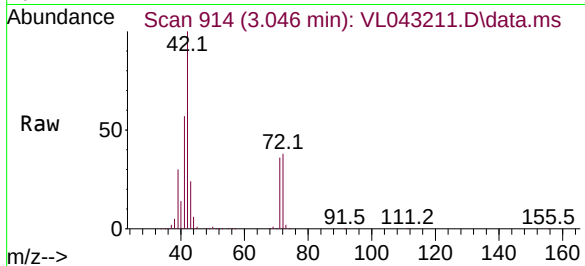
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.891 ppbv
RT: 3.046 min Scan# 914
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

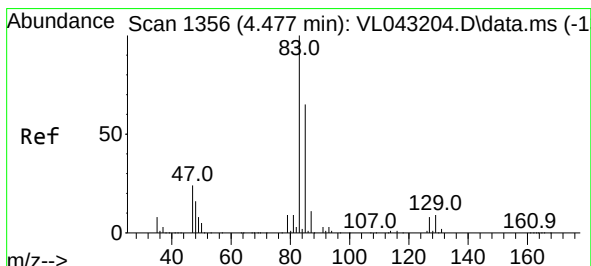
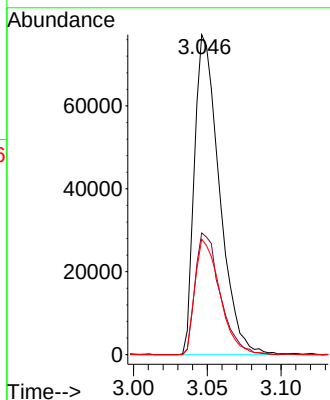
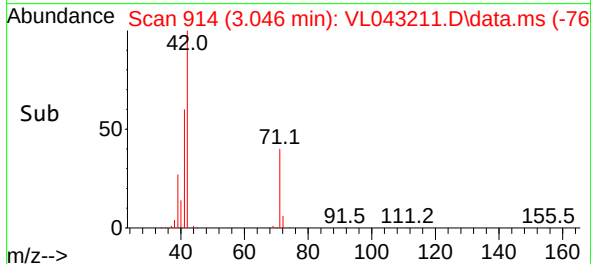
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



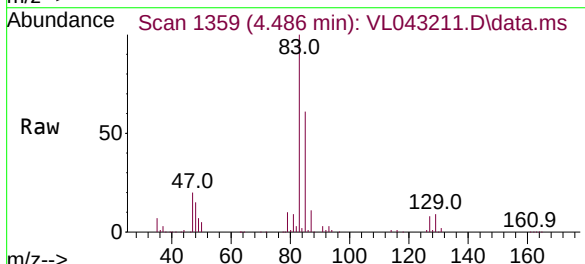
Tgt Ion: 42 Resp: 90769
Ion Ratio Lower Upper
42 100
72 38.0 30.6 46.0
71 36.1 30.5 45.7

Manual Integrations
APPROVED

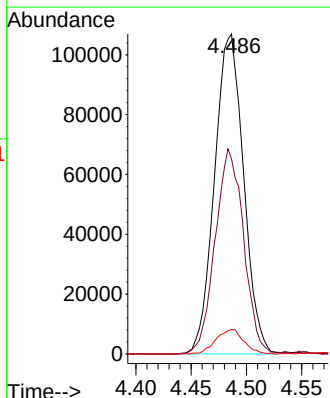
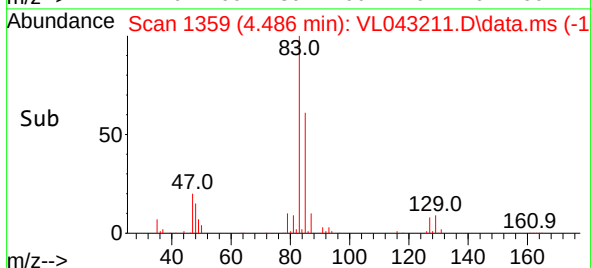
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

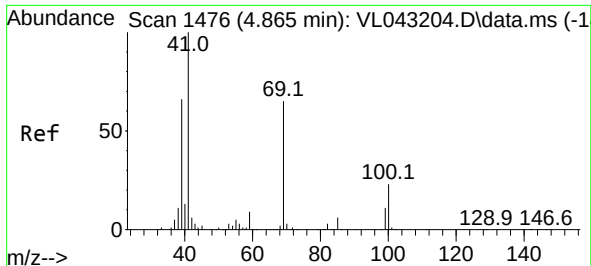


#42
Bromodichloromethane
Concen: 9.657 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



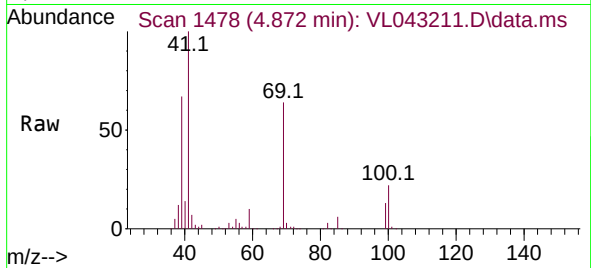
Tgt Ion: 83 Resp: 195442
Ion Ratio Lower Upper
83 100
85 61.0 51.7 77.5
127 7.6 6.3 9.5





#43
Methyl Methacrylate
Concen: 8.737 ppbv
RT: 4.872 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

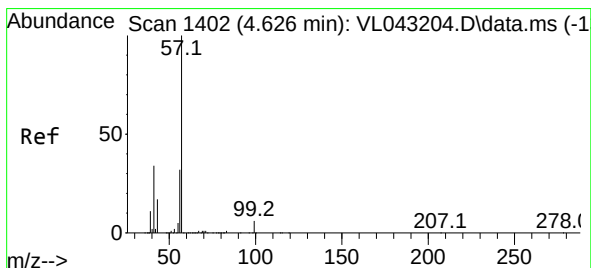
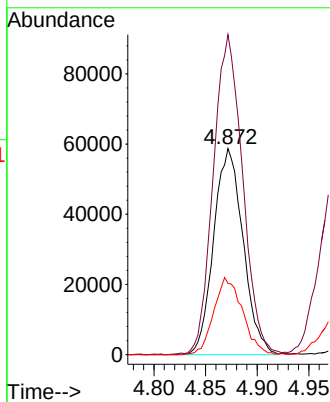
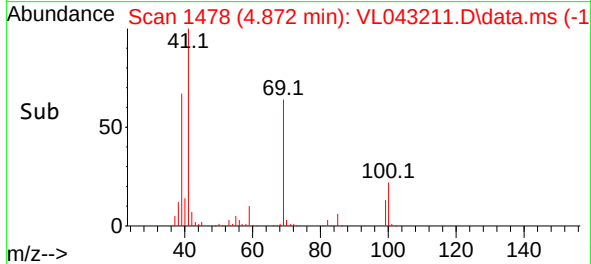
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



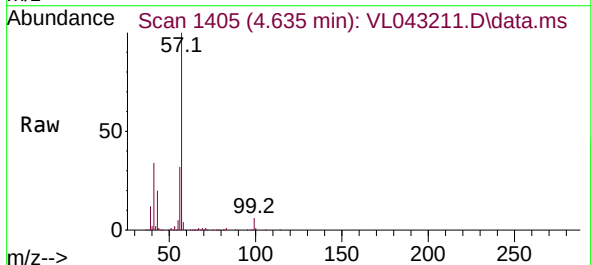
Tgt Ion: 69 Resp: 116325
Ion Ratio Lower Upper
69 100
41 155.2 126.7 190.1
100 36.5 28.6 43.0

Manual Integrations
APPROVED

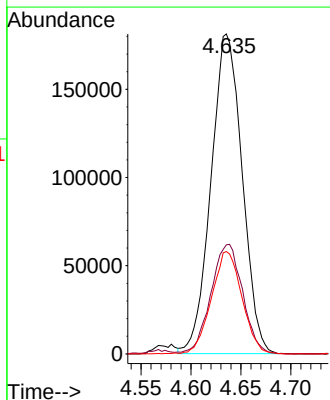
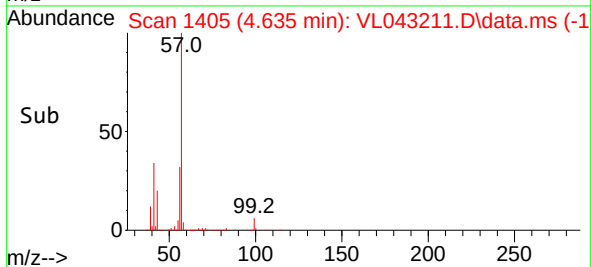
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

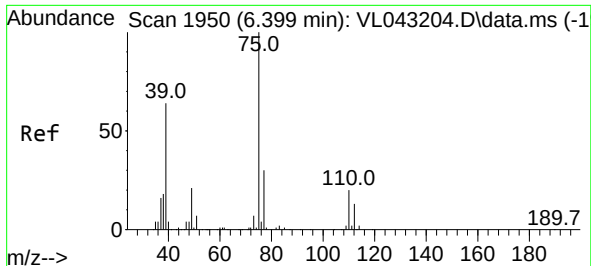


#44
2,2,4-Trimethylpentane
Concen: 9.133 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



Tgt Ion: 57 Resp: 393438
Ion Ratio Lower Upper
57 100
41 35.8 28.0 42.0
56 31.5 25.6 38.4





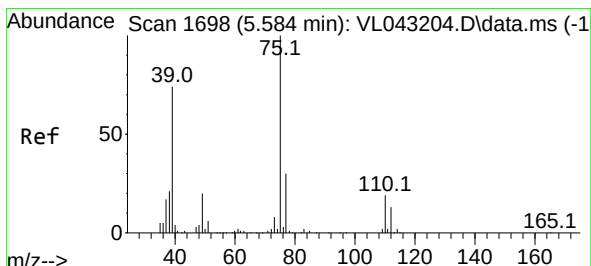
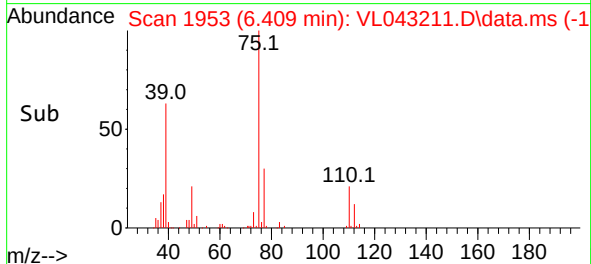
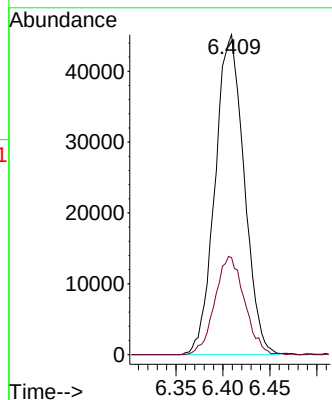
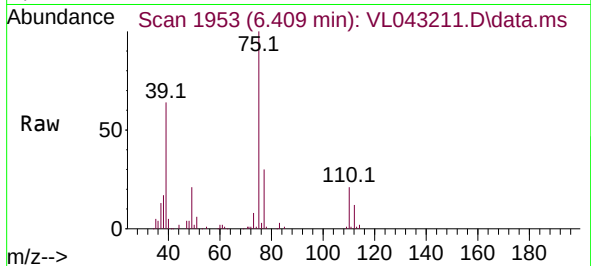
#45
 t-1,3-Dichloropropene
 Concen: 7.863 ppbv
 RT: 6.409 min Scan# 1950
 Delta R.T. 0.010 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Tgt Ion: 75 Resp: 9758
 Ion Ratio Lower Upper
 75 100
 77 30.3 24.3 36.5

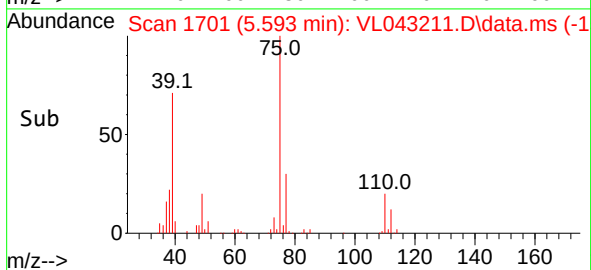
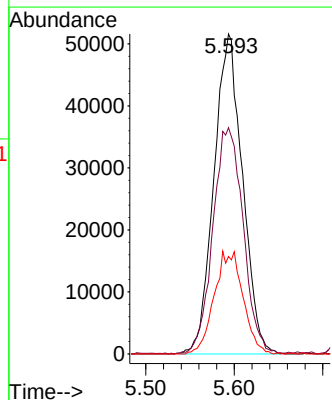
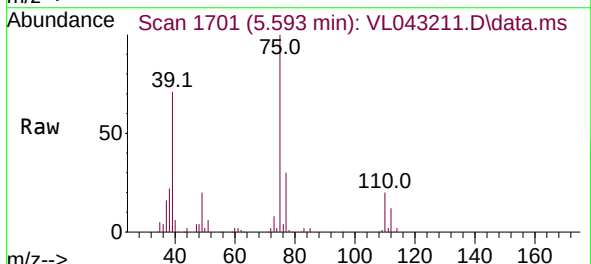
Manual Integrations
 APPROVED

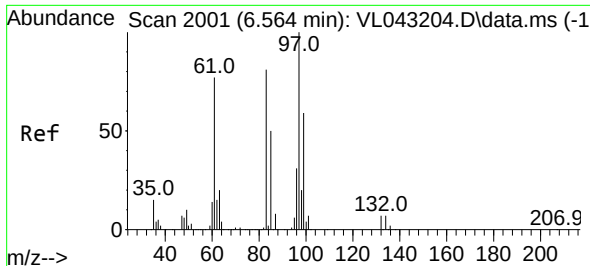
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#46
 cis-1,3-Dichloropropene
 Concen: 7.924 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. 0.010 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

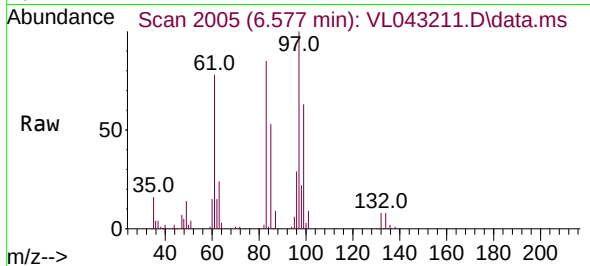
Tgt Ion: 75 Resp: 115476
 Ion Ratio Lower Upper
 75 100
 39 70.4 59.1 88.7
 77 30.4 24.2 36.2





#47
1,1,2-Trichloroethane
Concen: 9.086 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.013 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

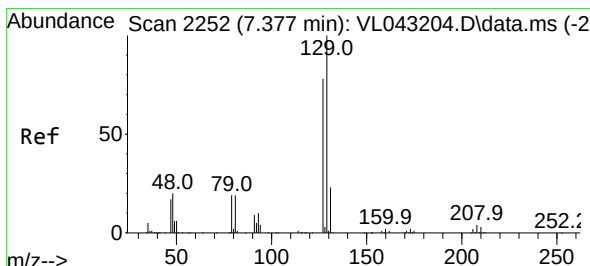
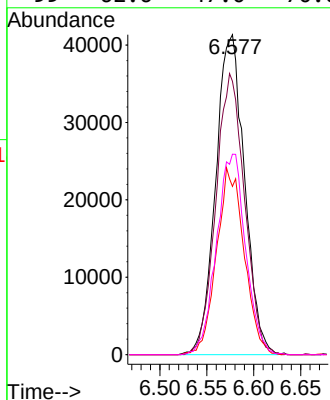
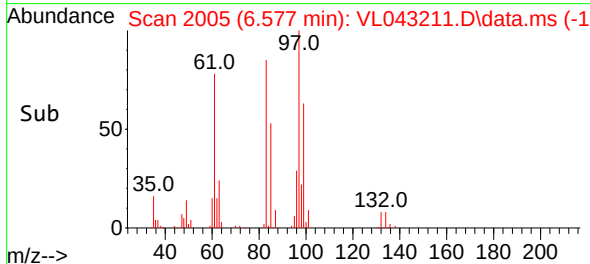
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



Tgt Ion: 97 Resp: 88525
Ion Ratio Lower Upper
97 100
83 85.4 64.6 97.0
85 52.6 39.4 59.2
99 62.6 47.0 70.6

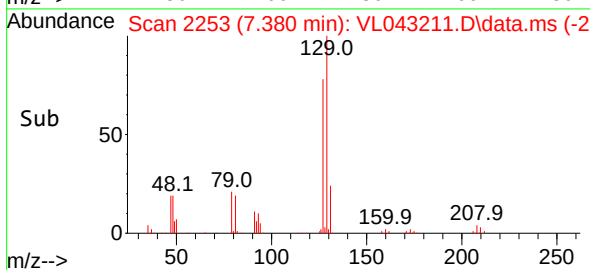
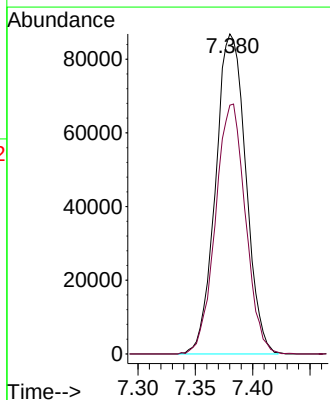
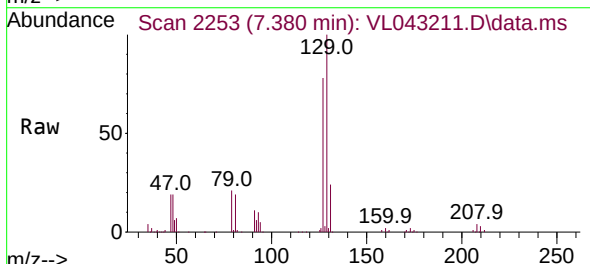
Manual Integrations
APPROVED

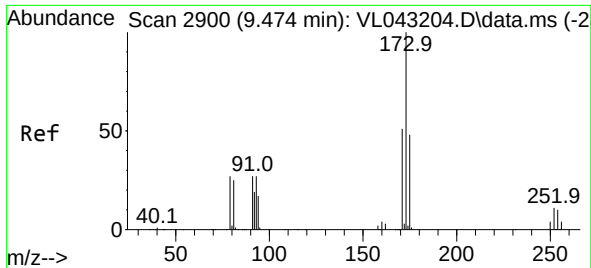
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#48
Dibromochloromethane
Concen: 9.514 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

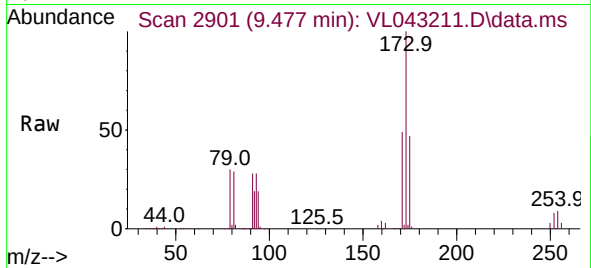
Tgt Ion:129 Resp: 159365
Ion Ratio Lower Upper
129 100
127 77.3 39.3 117.9





#49
Bromoform
Concen: 9.085 ppbv
RT: 9.477 min Scan# 2900
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

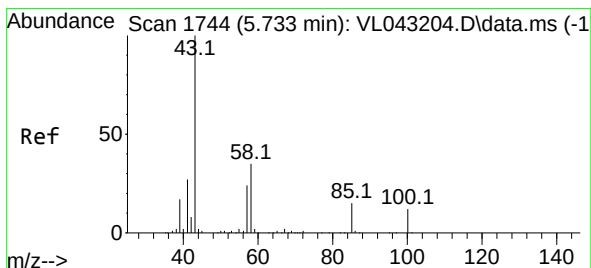
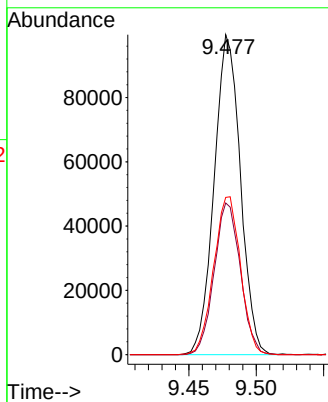
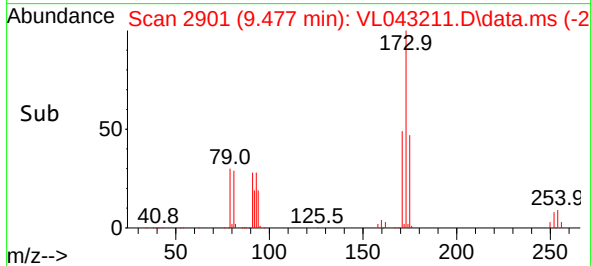
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



Tgt Ion:173 Resp: 134790
Ion Ratio Lower Upper
173 100
175 47.2 38.6 58.0
171 50.2 40.6 61.0

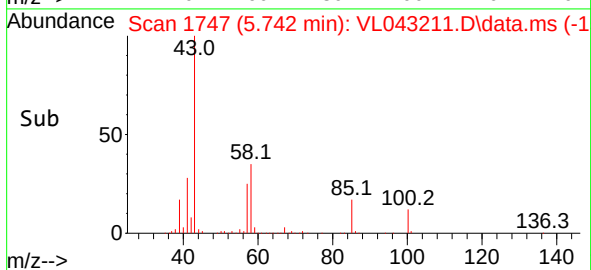
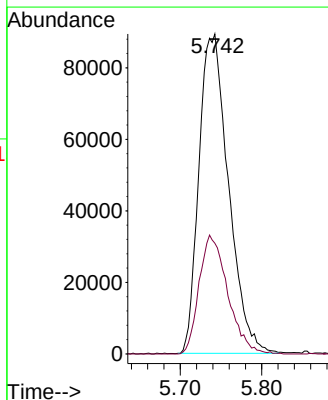
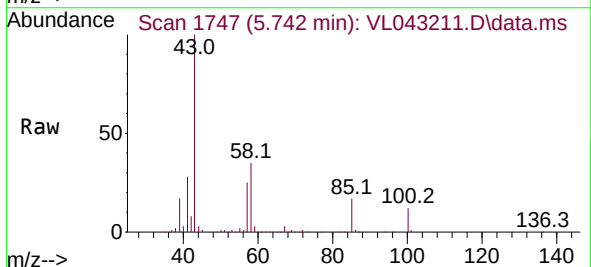
Manual Integrations
APPROVED

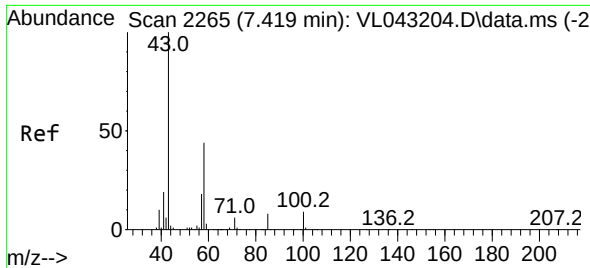
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 8.631 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

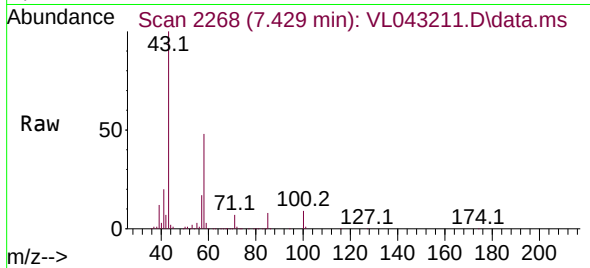
Tgt Ion: 43 Resp: 224791
Ion Ratio Lower Upper
43 100
58 36.0 28.4 42.6





#51
2-Hexanone
Concen: 8.233 ppbv
RT: 7.429 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

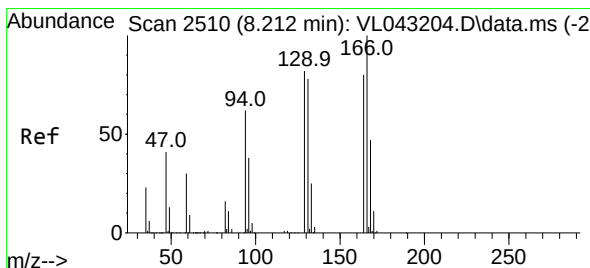
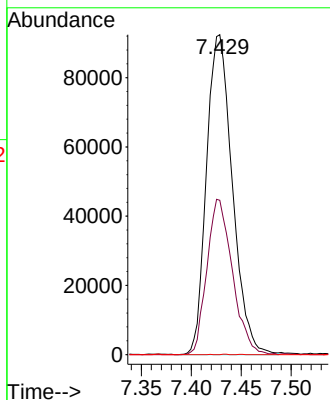
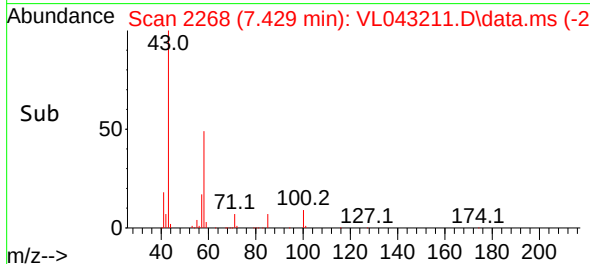
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



Tgt Ion: 43 Resp: 166506
Ion Ratio Lower Upper
43 100
58 47.9 38.4 57.6
98 0.0 0.0 0.0

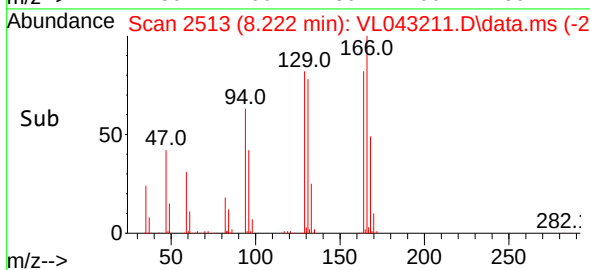
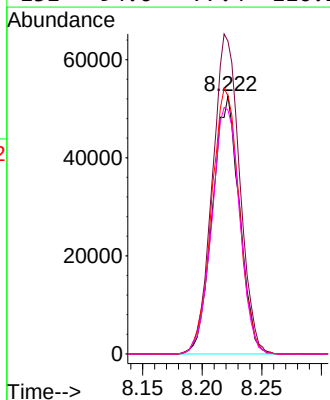
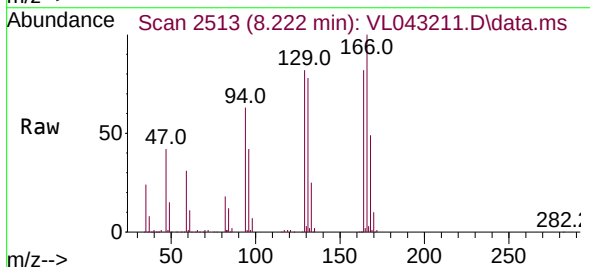
Manual Integrations
APPROVED

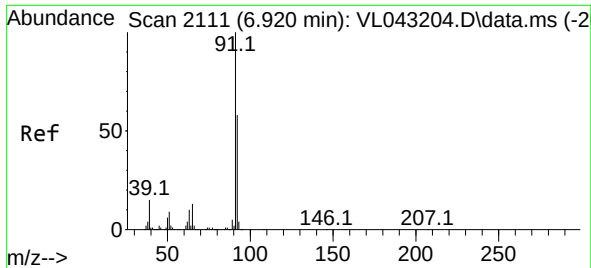
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 8.884 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:164 Resp: 82890
Ion Ratio Lower Upper
164 100
166 121.3 99.4 149.2
129 100.1 81.8 122.8
131 94.6 77.4 116.2





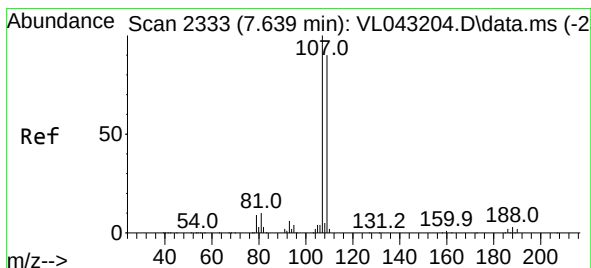
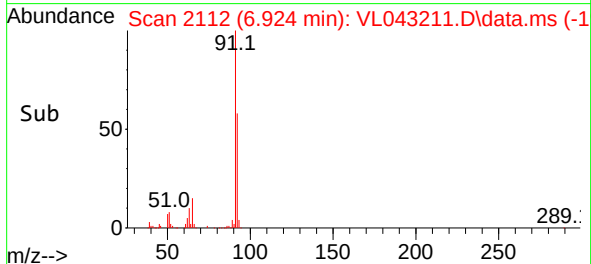
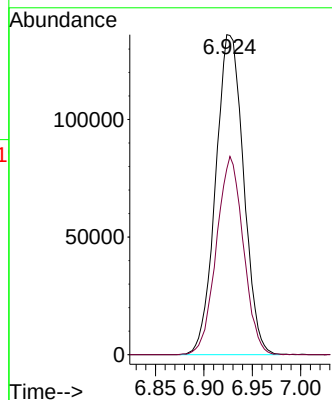
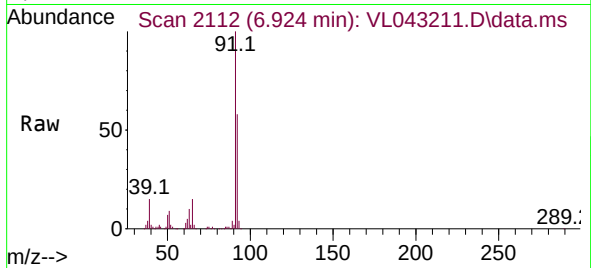
#53
Toluene
Concen: 9.197 ppbv
RT: 6.924 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument : MSVOA_L
ClientSampleId : ICVVL111825

Tgt Ion: 91 Resp: 273172
Ion Ratio Lower Upper
91 100
92 59.8 47.4 71.0

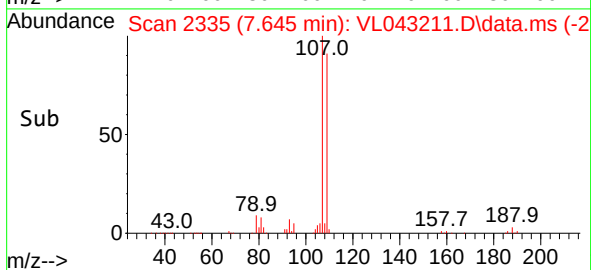
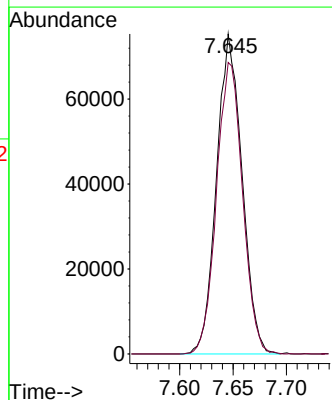
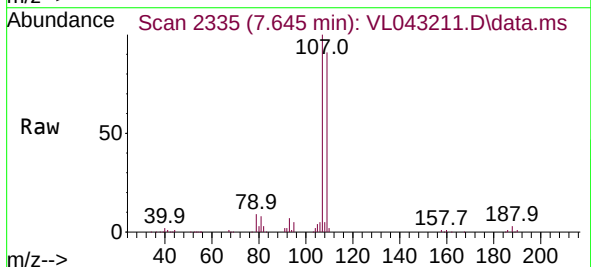
Manual Integrations
APPROVED

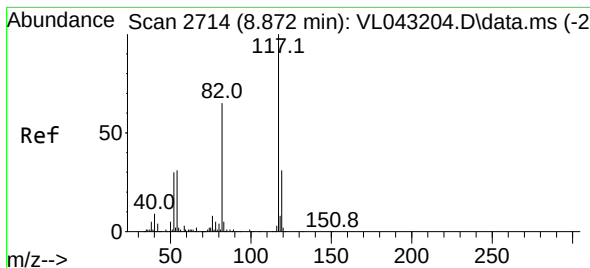
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#54
1,2-Dibromoethane
Concen: 8.705 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:107 Resp: 124804
Ion Ratio Lower Upper
107 100
109 91.1 72.1 108.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111825

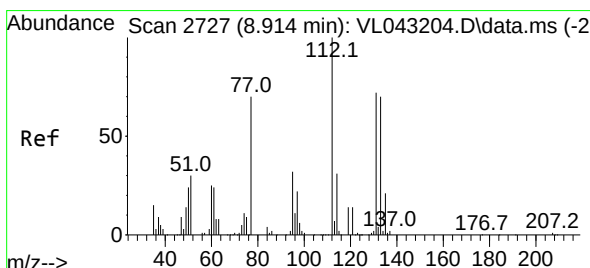
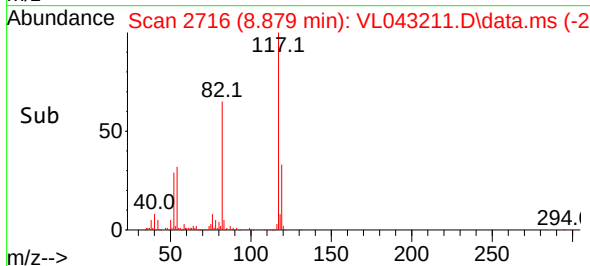
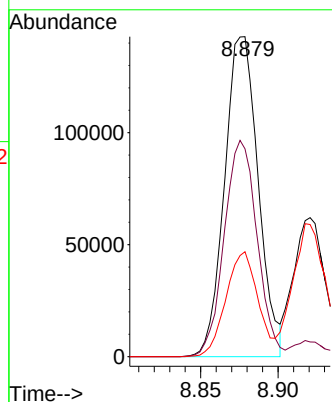
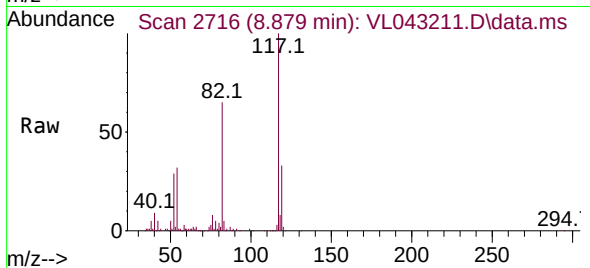
Tgt Ion:117 Resp: 216212

Ion	Ratio	Lower	Upper
117	100		
82	70.6	56.1	84.1
119	32.3	25.0	37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 8.969 ppbv

RT: 8.921 min Scan# 2729

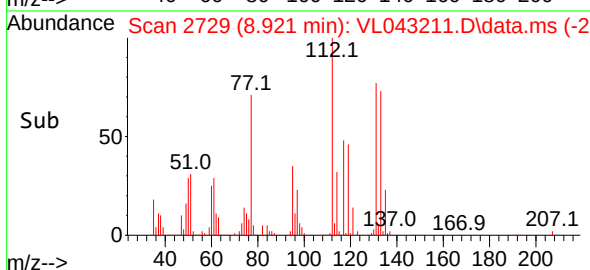
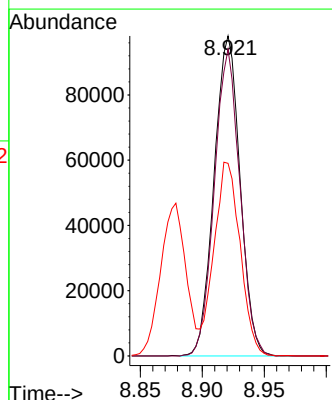
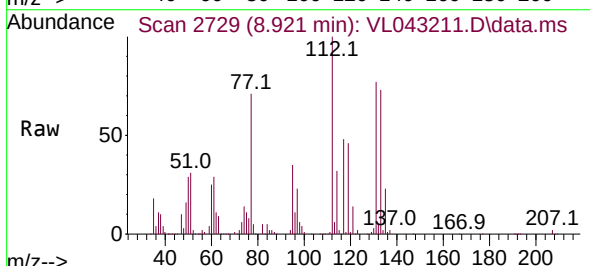
Delta R.T. 0.006 min

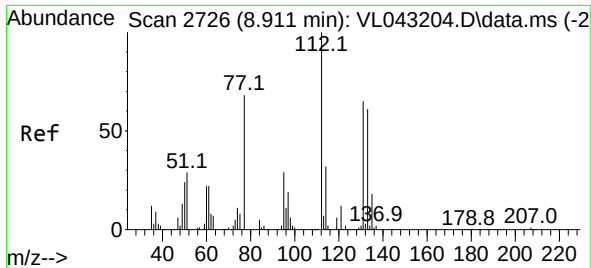
Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Tgt Ion:131 Resp: 142512

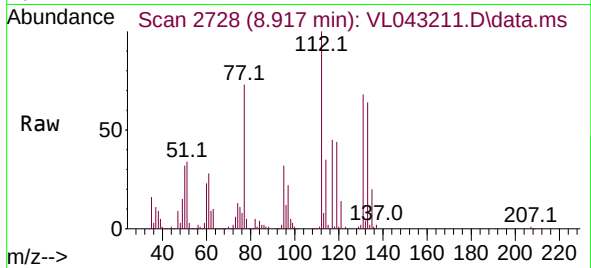
Ion	Ratio	Lower	Upper
131	100		
133	94.3	77.4	116.2
119	61.9	49.1	73.7





#57
Chlorobenzene
Concen: 8.981 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

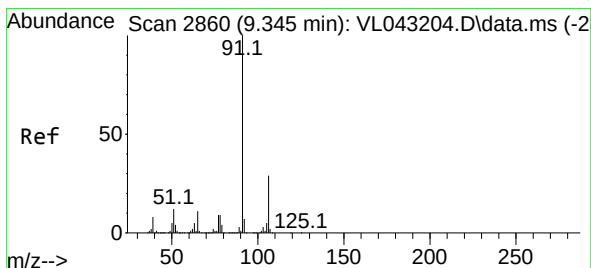
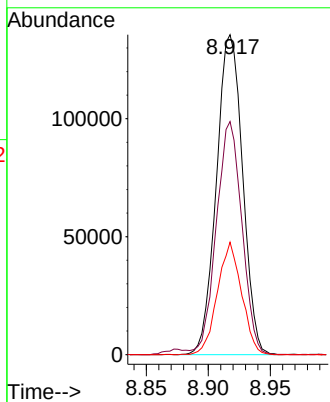
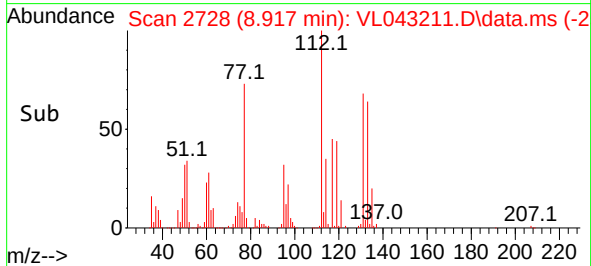
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



Tgt Ion: 112 Resp: 199373
Ion Ratio Lower Upper
112 100
77 72.7 55.5 83.3
114 35.1 29.1 35.5

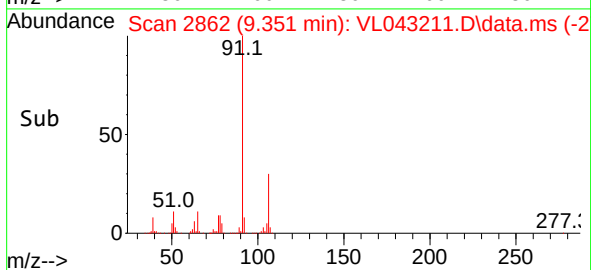
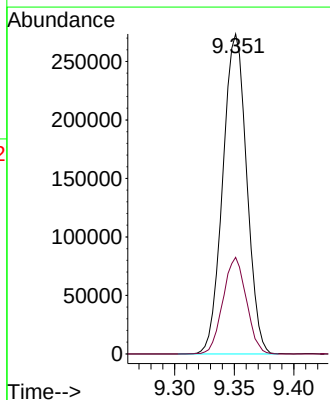
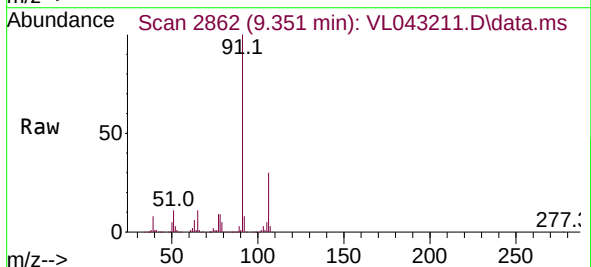
Manual Integrations
APPROVED

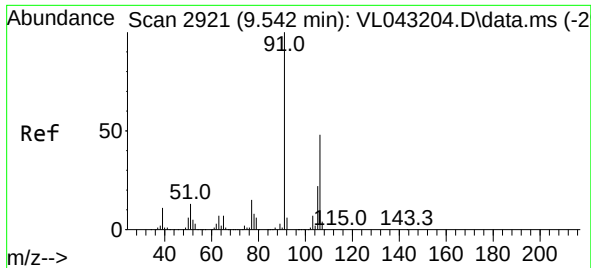
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 9.167 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 381474
Ion Ratio Lower Upper
91 100
106 30.2 22.8 34.2





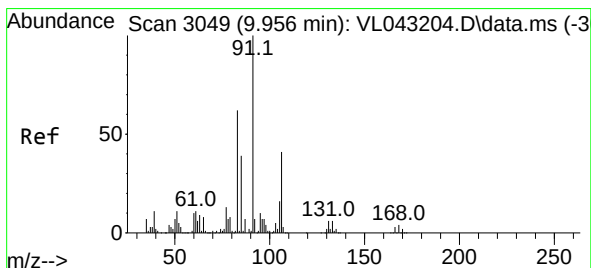
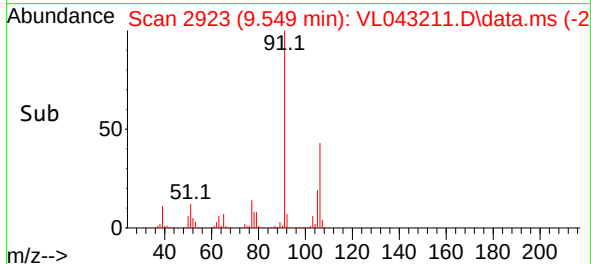
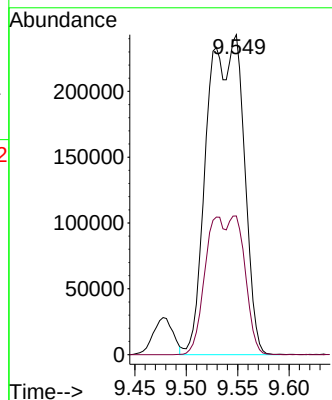
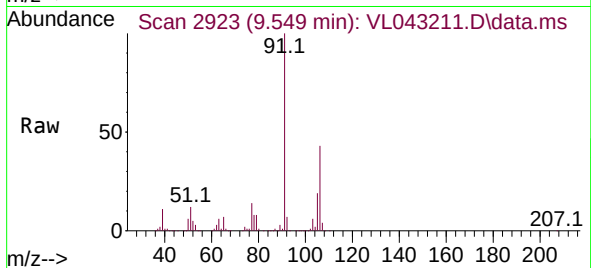
#59
m/p-Xylene
Concen: 18.108 ppbv m
RT: 9.549 min Scan# 29
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 91 Resp: 60416
Ion Ratio Lower Upper
91 100
106 44.8 36.1 54.1

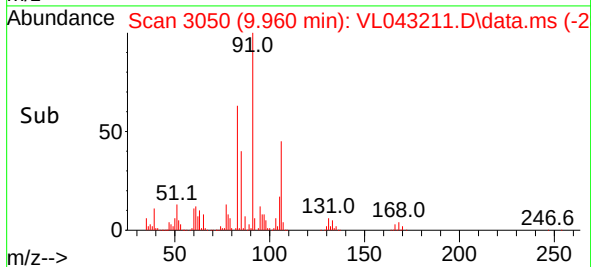
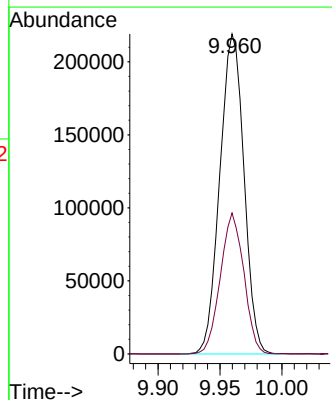
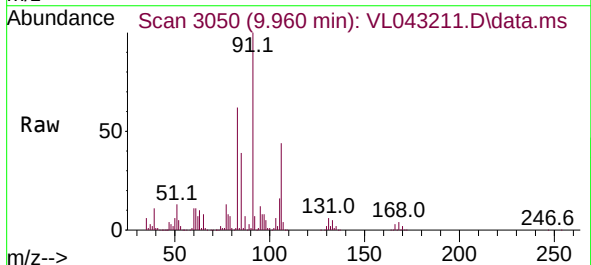
Manual Integrations
APPROVED

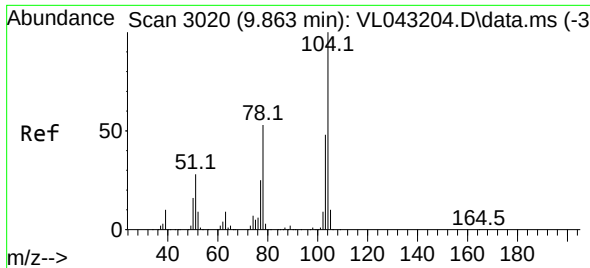
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 8.876 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 295836
Ion Ratio Lower Upper
91 100
106 42.8 20.9 62.8





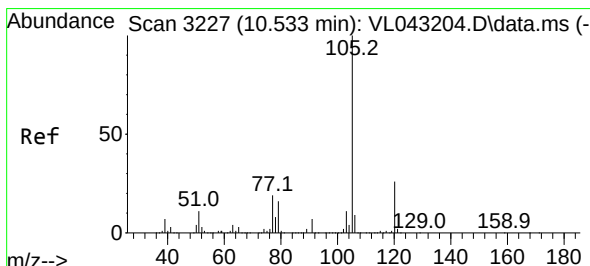
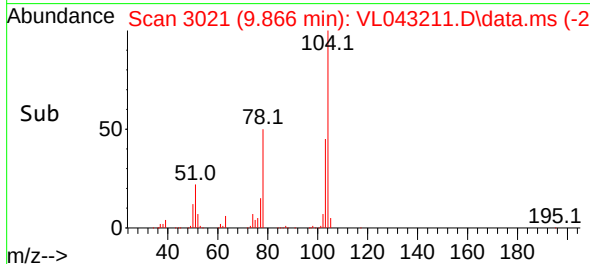
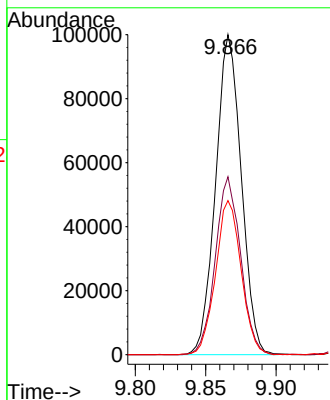
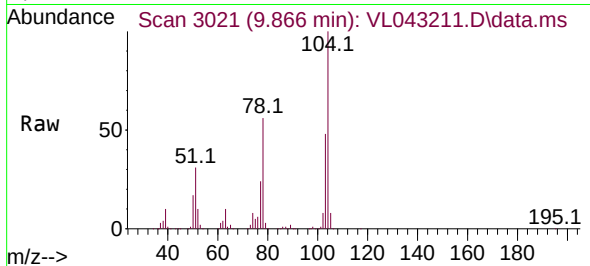
#61
Styrene
Concen: 8.714 ppbv
RT: 9.866 min Scan# 3020
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument : MSVOA_1
ClientSampleId : ICVVL111825

Tgt Ion:104 Resp: 127117
Ion Ratio Lower Upper
104 100
78 54.7 42.1 63.1
103 48.0 37.2 55.8

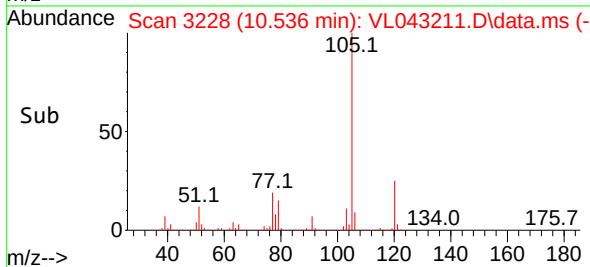
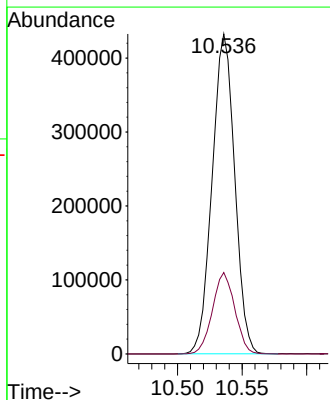
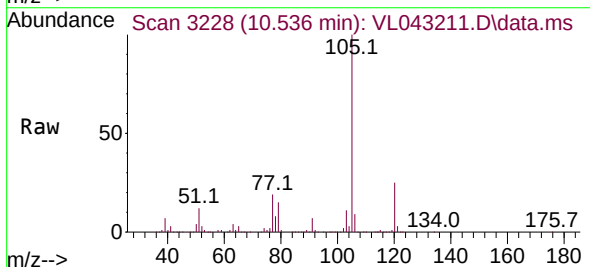
Manual Integrations
APPROVED

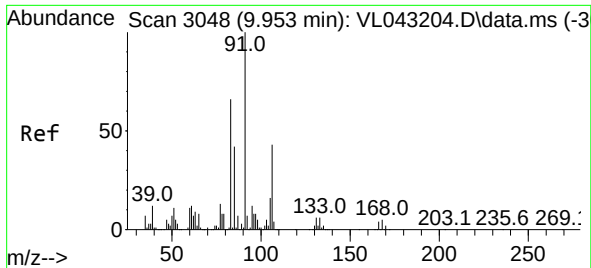
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#62
Isopropylbenzene
Concen: 8.816 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 525717
Ion Ratio Lower Upper
105 100
120 25.1 19.8 29.8





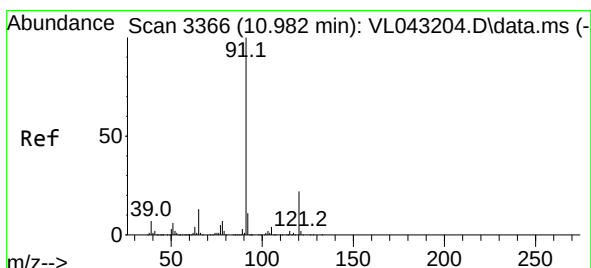
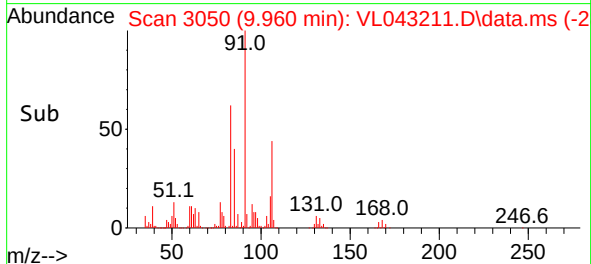
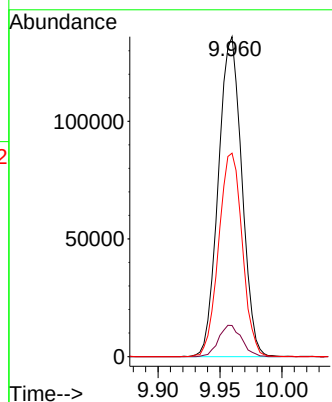
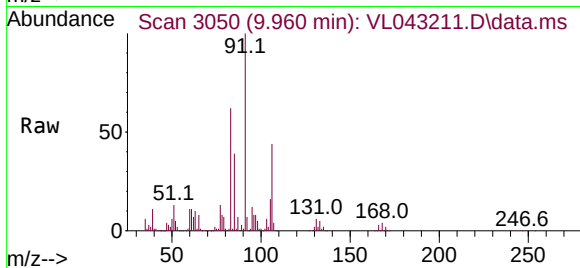
#63
1,1,2,2-Tetrachloroethane
Concen: 8.421 ppbv
RT: 9.960 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 83 Resp: 178591
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 63.9 31.9 95.9

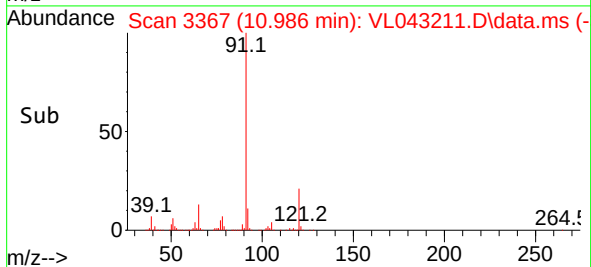
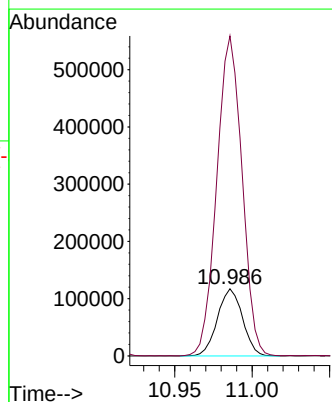
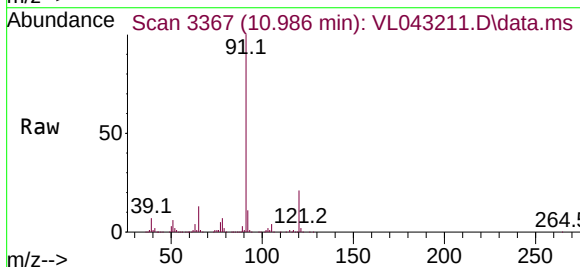
Manual Integrations
APPROVED

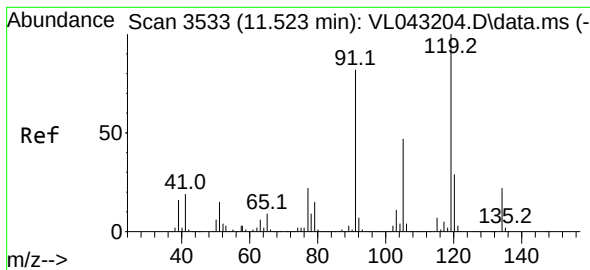
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#64
n-propylbenzene
Concen: 8.591 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:120 Resp: 131634
Ion Ratio Lower Upper
120 100
91 482.2 377.1 565.7





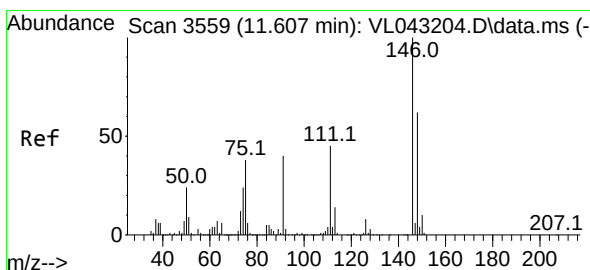
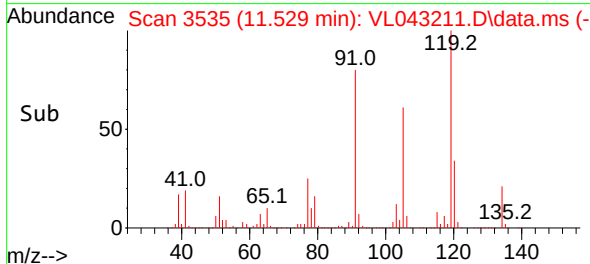
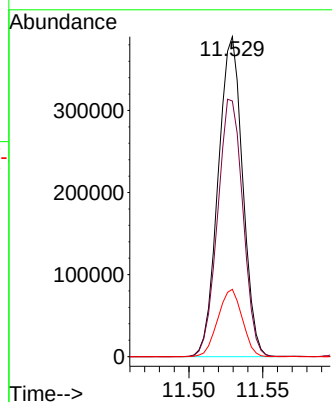
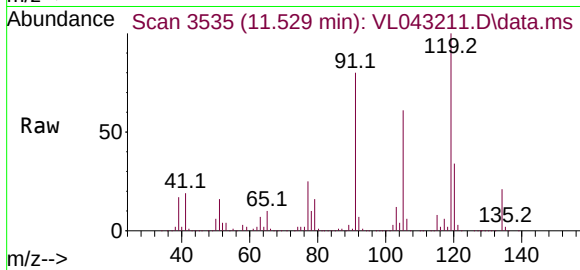
#65
tert-Butylbenzene
Concen: 8.465 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:119 Resp: 450819
Ion Ratio Lower Upper
119 100
91 83.0 65.3 97.9
134 20.8 17.0 25.4

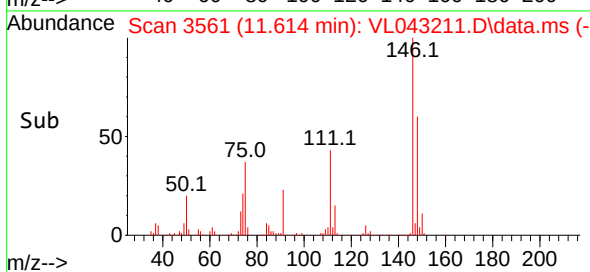
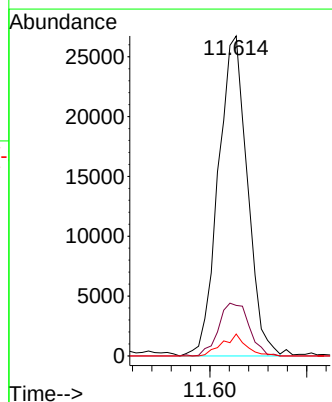
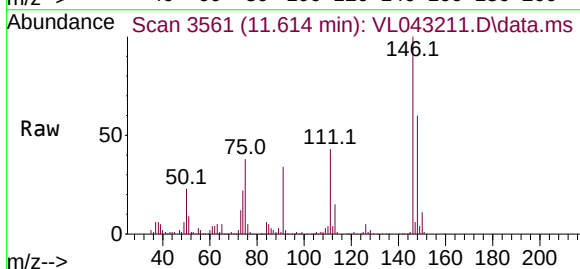
Manual Integrations
APPROVED

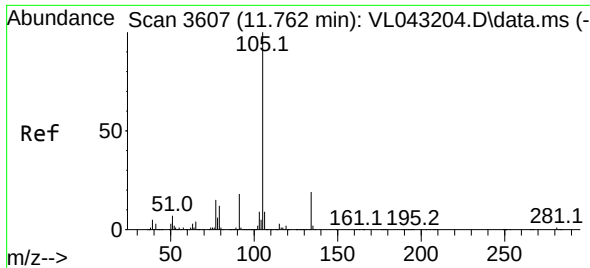
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#66
Benzyl Chloride
Concen: 5.159 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

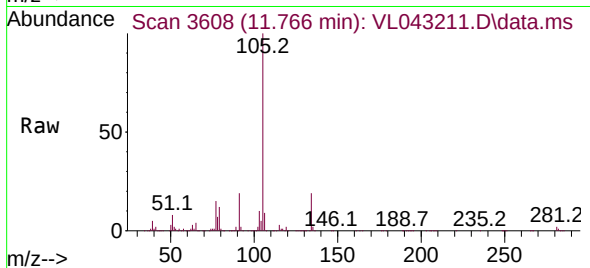
Tgt Ion: 91 Resp: 27878
Ion Ratio Lower Upper
91 100
126 17.3 14.4 21.6
128 5.6 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 8.388 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.003 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

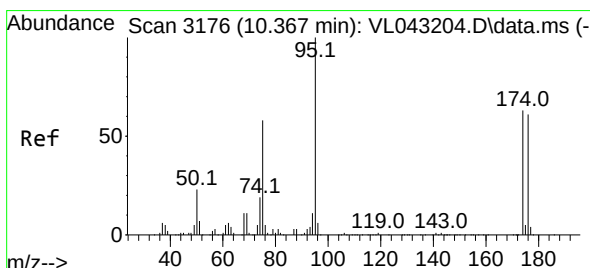
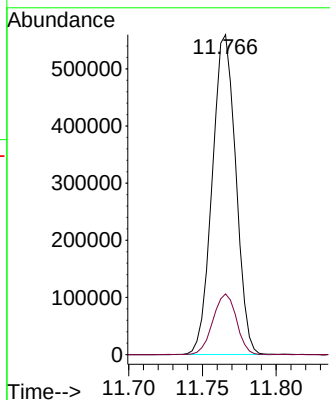
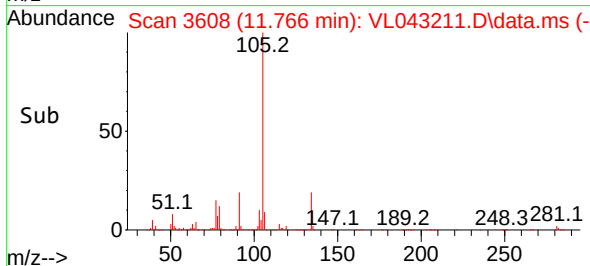
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825



Tgt Ion:105 Resp: 623520
 Ion Ratio Lower Upper
 105 100
 134 19.0 15.0 22.6

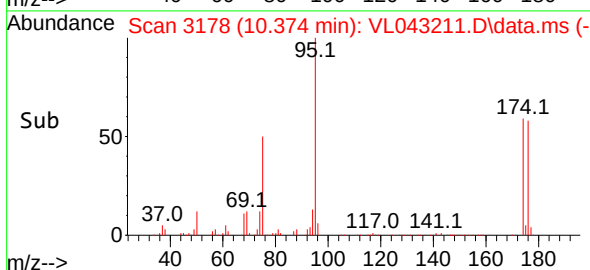
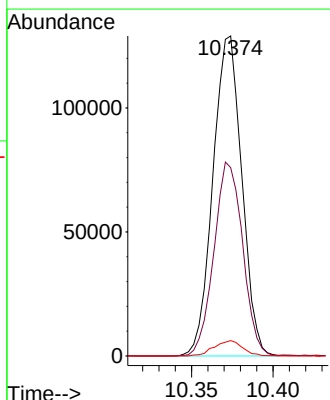
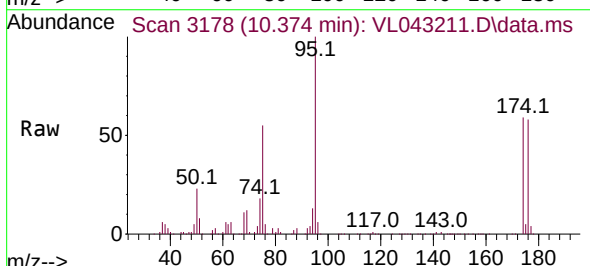
Manual Integrations
 APPROVED

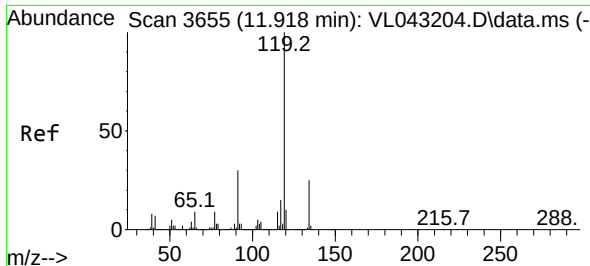
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.048 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.006 min
 Lab File: VL043211.D
 Acq: 18 Nov 2025 13:56

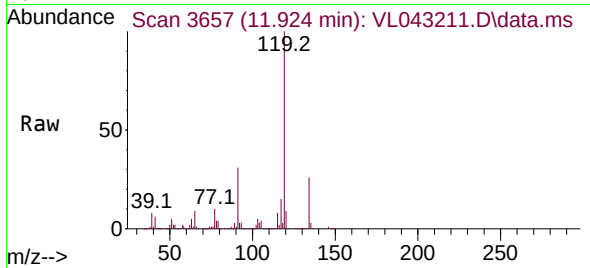
Tgt Ion: 95 Resp: 159242
 Ion Ratio Lower Upper
 95 100
 174 60.4 50.2 75.2
 175 4.7 4.1 6.1





#69
p-Isopropyltoluene
Concen: 8.272 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

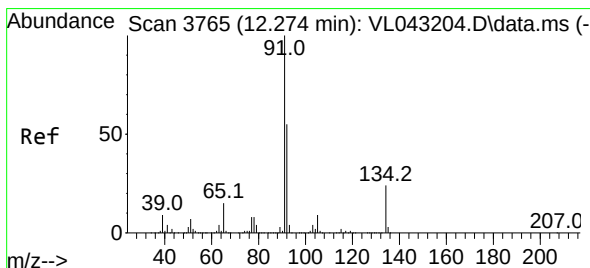
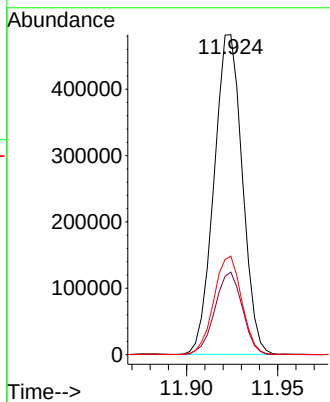
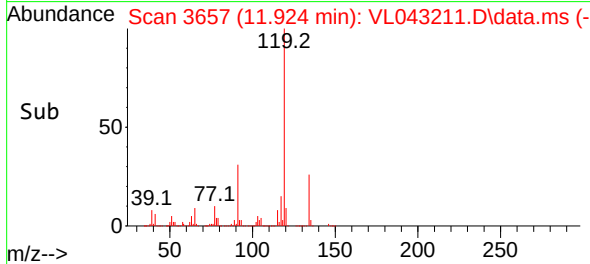
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



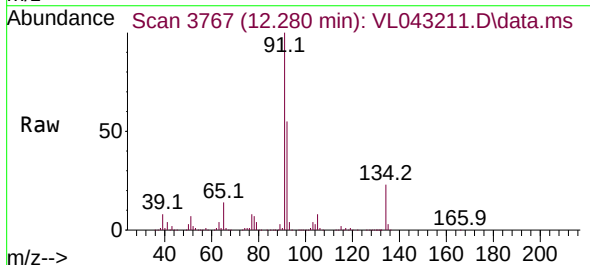
Tgt Ion: 119 Resp: 520880
Ion Ratio Lower Upper
119 100
134 25.2 20.2 30.2
91 30.6 23.8 35.8

Manual Integrations
APPROVED

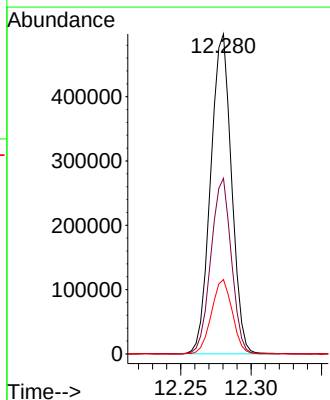
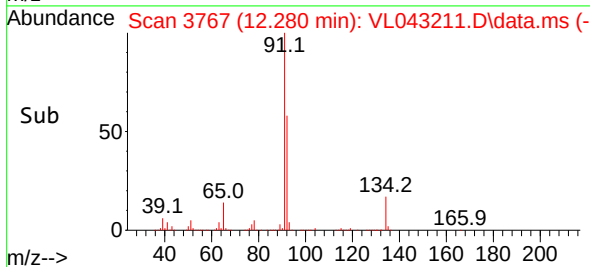
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

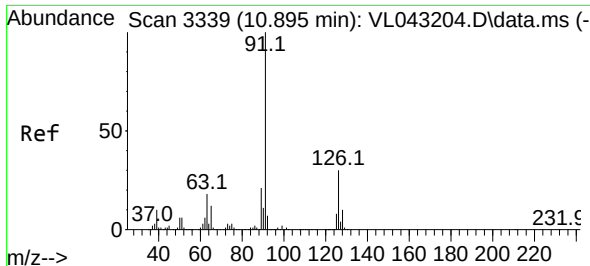


#70
n-Butylbenzene
Concen: 8.398 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



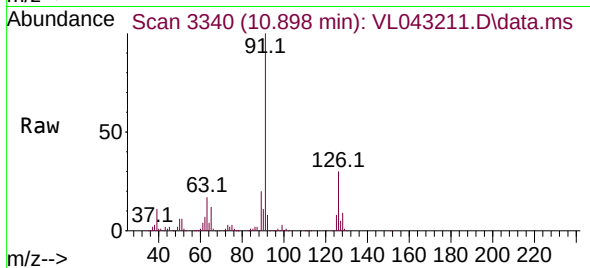
Tgt Ion: 91 Resp: 513027
Ion Ratio Lower Upper
91 100
92 54.0 43.5 65.3
134 23.1 19.0 28.6





#71
2-Chlorotoluene
Concen: 8.649 ppbv
RT: 10.898 min Scan# 3339
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

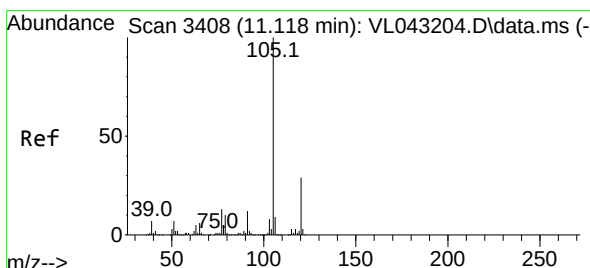
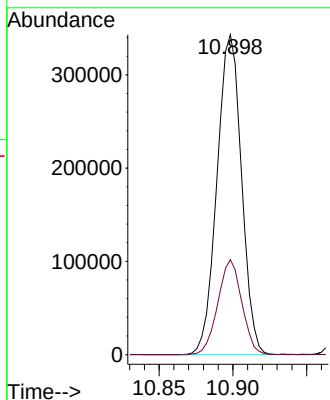
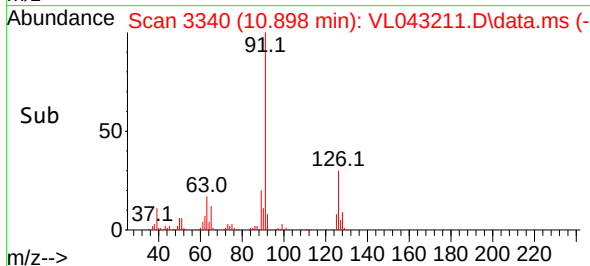
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



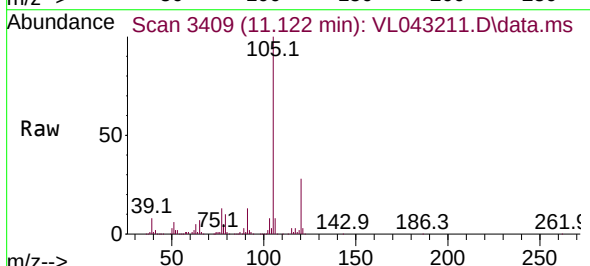
Tgt Ion: 91 Resp: 396434
Ion Ratio Lower Upper
91 100
126 28.9 11.7 46.7

Manual Integrations
APPROVED

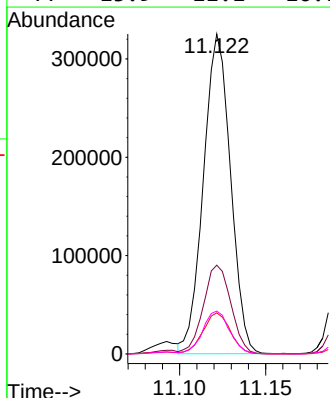
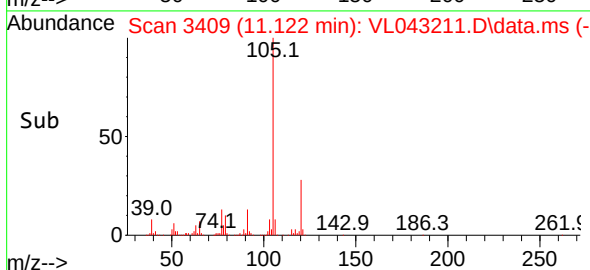
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

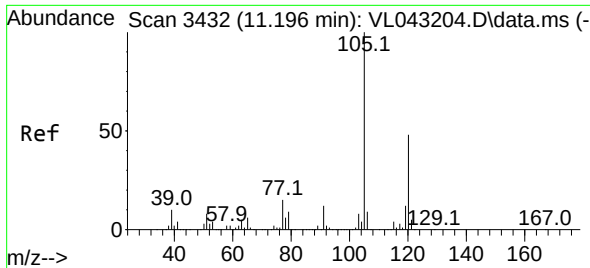


#72
4-Ethyltoluene
Concen: 8.779 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



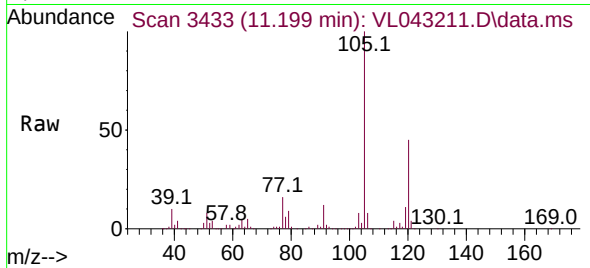
Tgt Ion:105 Resp: 356325
Ion Ratio Lower Upper
105 100
120 29.3 23.8 35.8
91 13.5 10.3 15.5
77 13.9 11.1 16.7





#73
1,3,5-Trimethylbenzene
Concen: 8.660 ppbv
RT: 11.199 min Scan# 3432
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

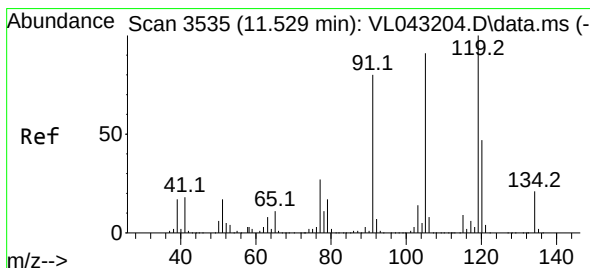
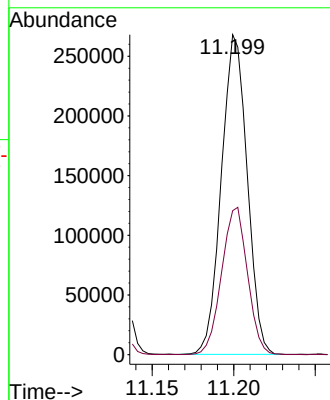
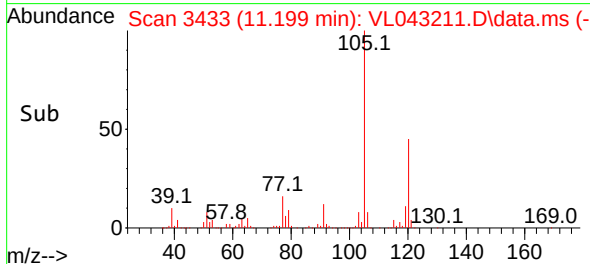
Instrument : MSVOA_L
ClientSampleId : ICVVL111825



Tgt Ion:105 Resp: 294972
Ion Ratio Lower Upper
105 100
120 45.0 38.6 57.8

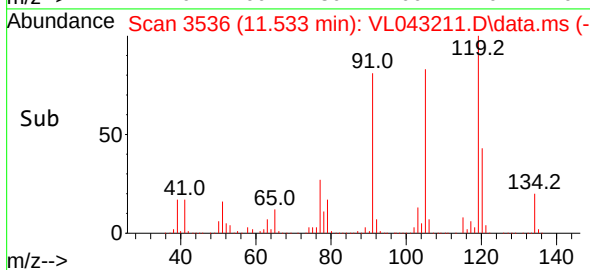
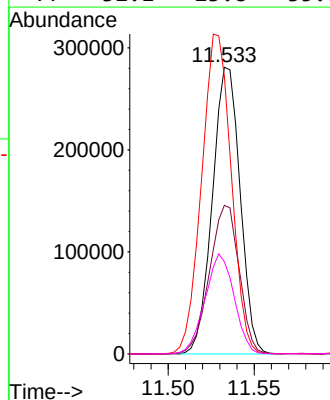
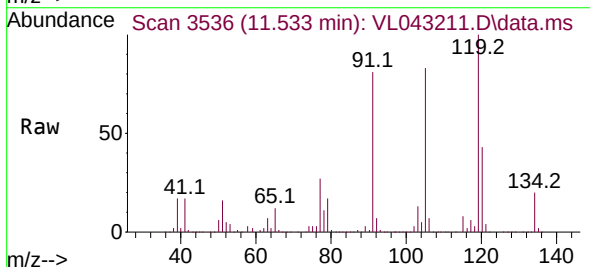
Manual Integrations
APPROVED

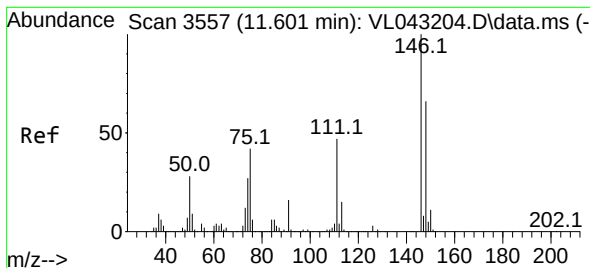
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#74
1,2,4-Trimethylbenzene
Concen: 8.463 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 314606
Ion Ratio Lower Upper
105 100
120 51.8 41.7 62.5
91 96.9 70.0 105.0
77 32.1 23.8 35.8





#75

1,3-Dichlorobenzene

Concen: 8.320 ppbv

RT: 11.604 min Scan# 3557

Delta R.T. 0.003 min

Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Instrument :

MSVOA_L

ClientSampleId :

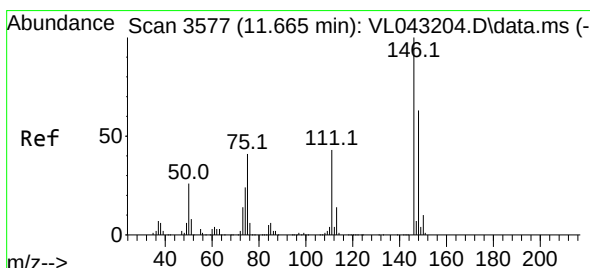
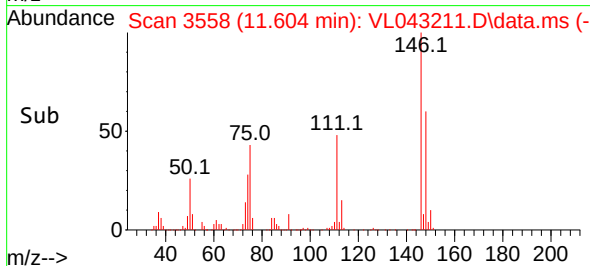
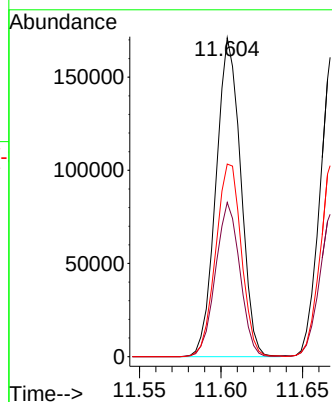
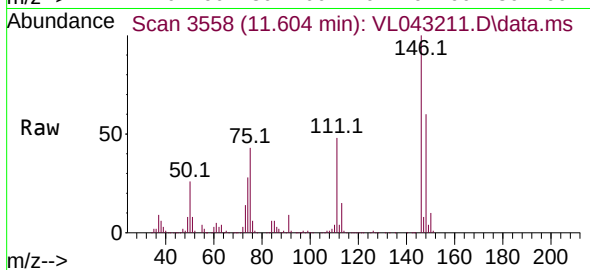
ICVVL111825

Tgt Ion:146	Resp: 180491
Ion Ratio	Lower Upper
146	100
111	47.7 23.4 70.3
148	62.7 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#76

1,4-Dichlorobenzene

Concen: 8.273 ppbv

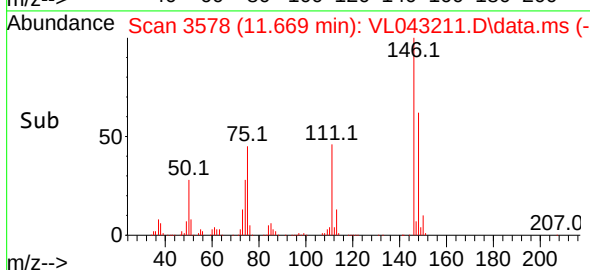
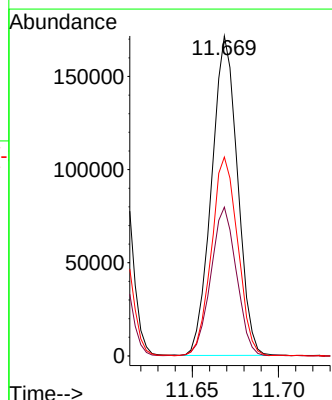
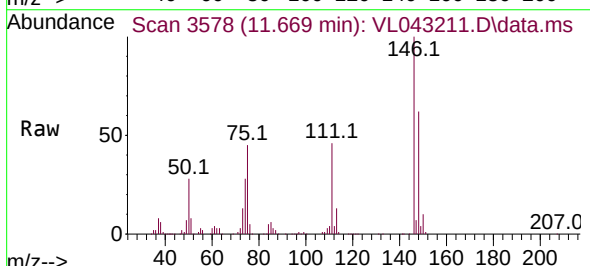
RT: 11.669 min Scan# 3578

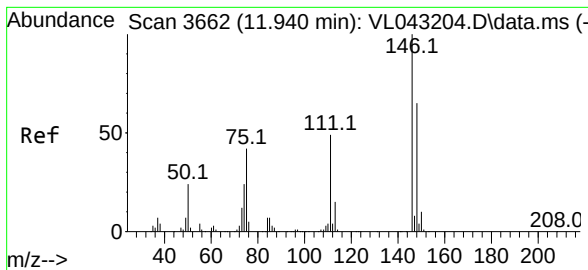
Delta R.T. 0.003 min

Lab File: VL043211.D

Acq: 18 Nov 2025 13:56

Tgt Ion:146	Resp: 179491
Ion Ratio	Lower Upper
146	100
111	46.3 22.8 68.3
148	63.4 31.8 95.4





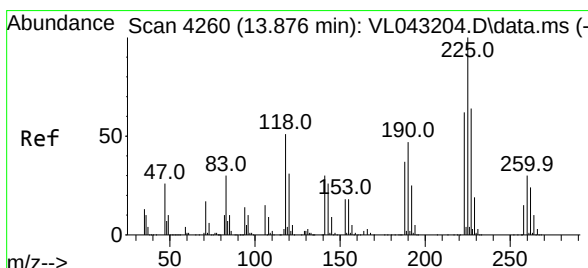
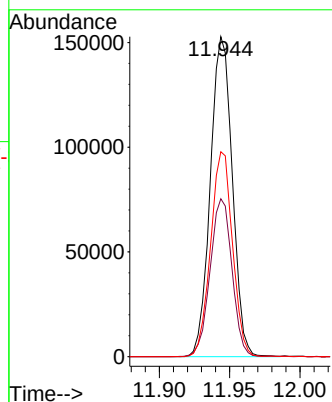
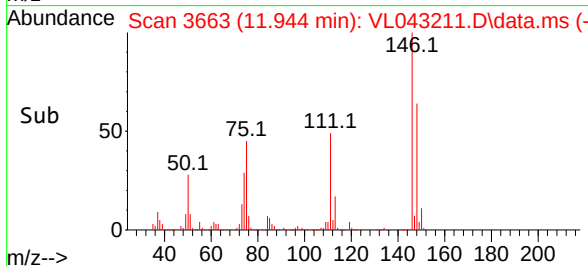
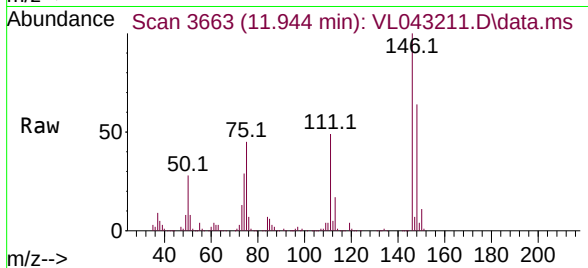
#77
1,2-Dichlorobenzene
Concen: 7.966 ppbv
RT: 11.944 min Scan# 3662
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:146 Resp: 166137
Ion Ratio Lower Upper
146 100
111 49.2 24.3 73.0
148 63.9 31.6 94.7

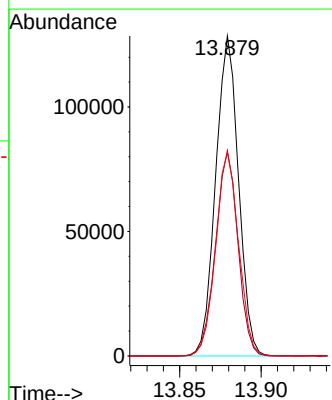
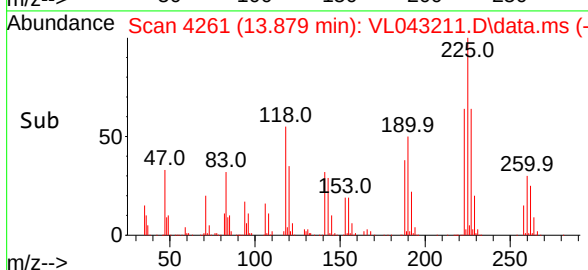
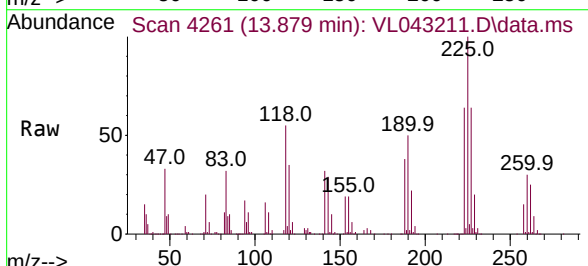
Manual Integrations
APPROVED

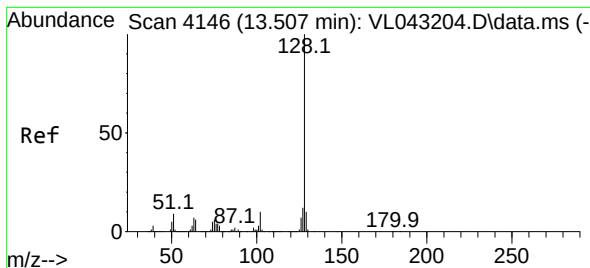
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#78
Hexachloro-1,3-Butadiene
Concen: 7.222 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

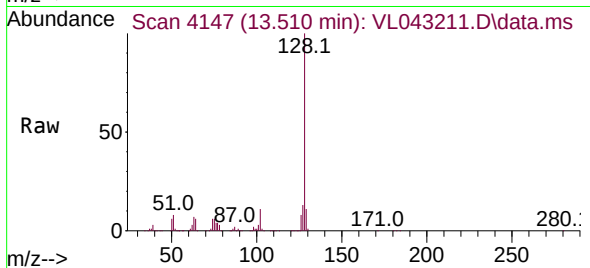
Tgt Ion:225 Resp: 125707
Ion Ratio Lower Upper
225 100
223 62.7 50.2 75.4
227 63.7 51.1 76.7





#79
Naphthalene
Concen: 8.270 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

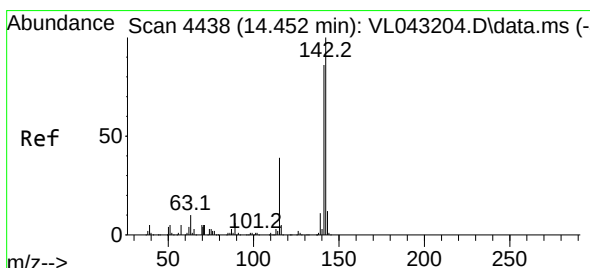
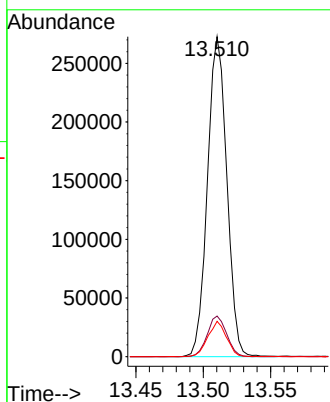
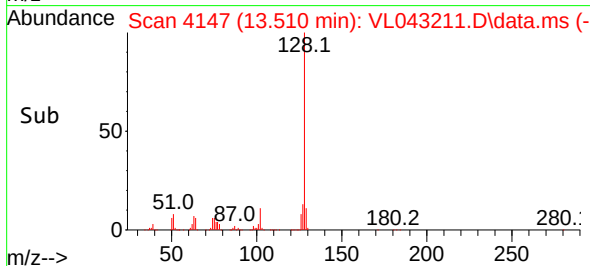
Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825



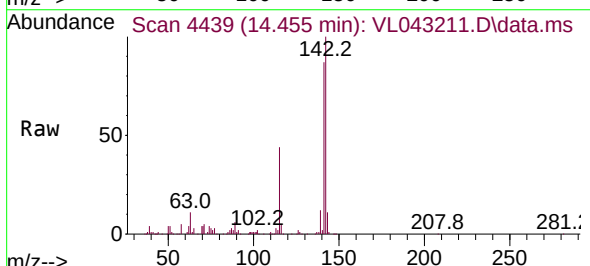
Tgt Ion:128 Resp: 273029
Ion Ratio Lower Upper
128 100
127 12.7 9.9 14.9
129 11.0 8.4 12.6

Manual Integrations
APPROVED

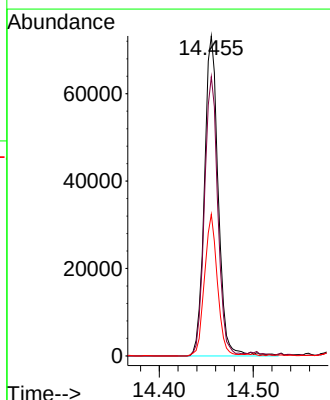
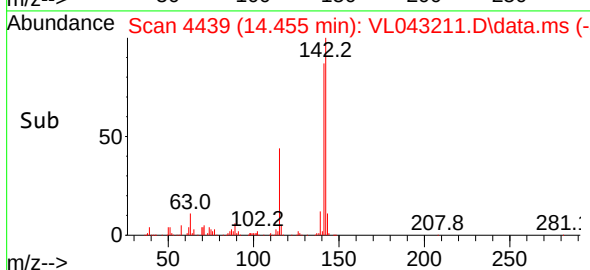
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

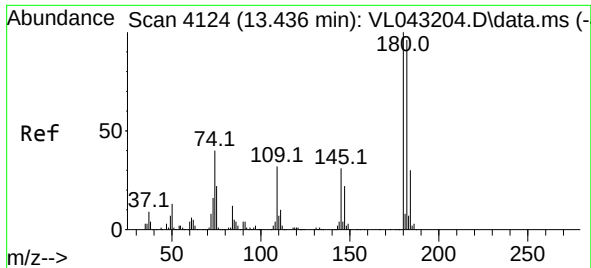


#80
Naphthalene,2-methyl-
Concen: 8.631 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56



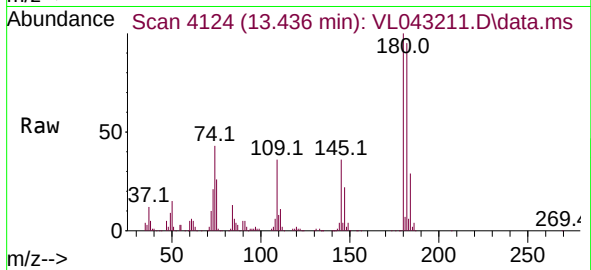
Tgt Ion:142 Resp: 74802
Ion Ratio Lower Upper
142 100
141 86.8 67.1 100.7
115 41.7 31.9 47.9





#81
1,2,4-Trichlorobenzene
Concen: 8.497 ppbv
RT: 13.436 min Scan# 4124
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

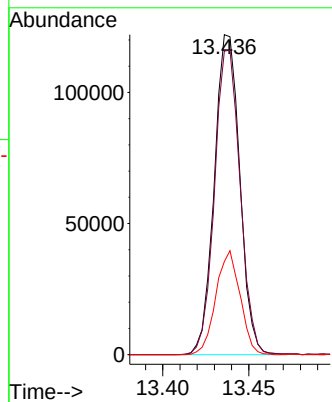
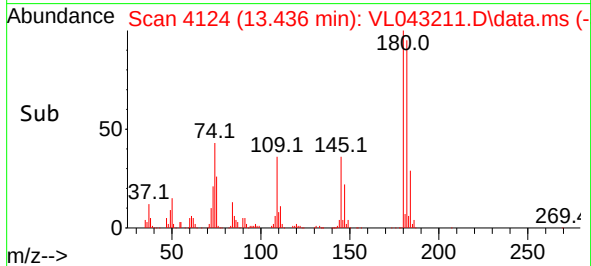
Instrument : MSVOA_L
ClientSampleId : ICVVL111825



Tgt Ion:180 Resp: 125476
Ion Ratio Lower Upper
180 100
182 96.1 77.4 116.2
184 30.9 24.2 36.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	93	0.00
2 T	Dichlorodifluoromethane	1.410	1.363	3.3	95	0.00
3	Chlorodifluoromethane	1.387	1.276	8.0	90	0.00
4	Chloromethane	0.527	0.479	9.1	90	0.00
5 T	Vinyl Chloride	0.577	0.490	15.1	94	0.00
6 T	Bromomethane	0.280	0.227	18.9	84	0.00
7	Chloroethane	0.225	0.203	9.8	97	0.00
8 T	Dichlorotetrafluoroethane	1.173	1.130	3.7	96	0.00
9 T	Propene	0.589	0.552	6.3	103	0.00
10 T	Heptane	1.753	1.525	13.0	88	0.00
11 T	Trichlorofluoromethane	1.367	1.377	-0.7	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.067	1.032	3.3	97	0.00
13	Ethanol	0.207	0.157	24.2	88	0.00
14 T	Bromoethene	0.409	0.378	7.6	97	0.00
15 T	Acetone	1.389	1.071	22.9	97	0.00
16 T	1,3-Butadiene	0.619	0.560	9.5	95	0.00
17	tert-Butyl alcohol	1.824	1.686	7.6	92	0.00
18 T	1,1-Dichloroethene	0.497	0.448	9.9	95	0.00
19 T	Isopropyl Alcohol	0.785	0.662	15.7	90	0.00
20 T	Methylene Chloride	0.600	0.422	29.7	99	0.00
21 T	Allyl Chloride	0.935	0.772	17.4	85	0.00
22 T	trans-1,2-Dichloroethene	0.568	0.513	9.7	96	0.00
23 T	Vinyl Acetate	1.677	1.432	14.6	82	0.00
24 T	1,1-Dichloroethane	1.096	1.054	3.8	96	0.00
25 T	Ethyl Acetate	2.996	2.643	11.8	89	0.00
26 T	Hexane	1.314	1.168	11.1	88	0.00
27 T	Carbon Disulfide	1.341	1.278	4.7	95	0.00
28 T	Methyl tert-Butyl Ether	0.645	0.656	-1.7	103	0.00
29 T	Chloroform	1.867	1.778	4.8	93	0.00
30 T	Cyclohexane	1.101	1.008	8.4	92	0.00
31 T	cis-1,2-Dichloroethene	1.306	1.225	6.2	92	0.00
32 T	1,1,1-Trichloroethane	1.990	1.863	6.4	92	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.706	0.615	12.9	88	0.00
35 T	Carbon Tetrachloride	0.759	0.698	8.0	91	0.00
36 T	Benzene	0.958	0.890	7.1	91	0.00
37 T	1,2-Dichloroethane	0.560	0.547	2.3	95	0.00
38 T	Trichloroethene	0.375	0.347	7.5	91	0.00
39 T	1,2-Dichloropropane	0.351	0.318	9.4	88	0.00
40 T	1,4-Dioxane	0.158	0.123	22.2	79	0.00
41 T	Tetrahydrofuran	0.390	0.347	11.0	87	0.00
42 T	Bromodichloromethane	0.773	0.746	3.5	92	0.00
43	Methyl Methacrylate	0.508	0.444	12.6	89	0.00
44 T	2,2,4-Trimethylpentane	1.645	1.502	8.7	89	0.00
45 T	t-1,3-Dichloropropene	0.474	0.373	21.3	76	0.00
46 T	cis-1,3-Dichloropropene	0.556	0.441	20.7	76	0.00
47 T	1,1,2-Trichloroethane	0.372	0.338	9.1	91	0.01
48 T	Dibromochloromethane	0.640	0.608	5.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	0.566	0.515	9.0	86	0.00
50 T	4-Methyl-2-Pentanone	0.994	0.858	13.7	84	0.00
51 T	2-Hexanone	0.772	0.636	17.6	80	0.00
52 T	Tetrachloroethene	0.356	0.316	11.2	89	0.00
53 T	Toluene	1.134	1.043	8.0	90	0.00
54 T	1,2-Dibromoethane	0.547	0.477	12.8	84	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.735	0.659	10.3	90	0.00
57 T	Chlorobenzene	1.027	0.922	10.2	88	0.00
58 T	Ethyl Benzene	1.925	1.764	8.4	89	0.00
59 T	m/p-Xylene	1.543	1.397	9.5	90	0.00
60 T	o-Xylene	1.542	1.368	11.3	89	0.00
61 T	Styrene	0.675	0.588	12.9	84	0.00
62	Isopropylbenzene	2.758	2.431	11.9	88	0.00
63 T	1,1,2,2-Tetrachloroethane	0.981	0.826	15.8	85	0.00
64	n-propylbenzene	0.709	0.609	14.1	85	0.00
65	tert-Butylbenzene	2.463	2.085	15.3	86	0.00
66 T	Benzyl Chloride	0.250	0.129	48.4#	49	0.00
67	sec-Butylbenzene	3.438	2.884	16.1	85	0.00
68 S	1-Bromo-4-Fluorobenzene	0.733	0.737	-0.5	92	0.00
69	p-Isopropyltoluene	2.912	2.409	17.3	83	0.00
70	n-Butylbenzene	2.825	2.373	16.0	83	0.00
71	2-Chlorotoluene	2.120	1.834	13.5	86	0.00
72 T	4-Ethyltoluene	1.877	1.648	12.2	87	0.00
73 T	1,3,5-Trimethylbenzene	1.575	1.364	13.4	86	0.00
74 T	1,2,4-Trimethylbenzene	1.719	1.455	15.4	87	0.00
75 T	1,3-Dichlorobenzene	1.003	0.835	16.7	82	0.00
76 T	1,4-Dichlorobenzene	1.003	0.830	17.2	81	0.00
77 T	1,2-Dichlorobenzene	0.965	0.768	20.4	81	0.00
78 T	Hexachloro-1,3-Butadiene	0.805	0.581	27.8	78	0.00
79 T	Naphthalene	1.527	1.263	17.3	78	0.00
80 T	Naphthalene,2-methyl-	0.401	0.346	13.7	80	0.00
81 T	1,2,4-Trichlorobenzene	0.683	0.580	15.1	79	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.664	3.4	95	0.00
3	Chlorodifluoromethane	10.000	9.199	8.0	90	0.00
4	Chloromethane	10.000	9.090	9.1	90	0.00
5 T	Vinyl Chloride	10.000	8.493	15.1	94	0.00
6 T	Bromomethane	10.000	8.126	18.7	84	0.00
7	Chloroethane	10.000	9.033	9.7	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.632	3.7	96	0.00
9 T	Propene	10.000	9.370	6.3	103	0.00
10 T	Heptane	10.000	8.698	13.0	88	0.00
11 T	Trichlorofluoromethane	10.000	10.077	-0.8	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.673	3.3	97	0.00
13	Ethanol	10.000	7.584	24.2	88	0.00
14 T	Bromoethene	10.000	9.240	7.6	97	0.00
15 T	Acetone	10.000	7.711	22.9	97	0.00
16 T	1,3-Butadiene	10.000	9.041	9.6	95	0.00
17	tert-Butyl alcohol	10.000	9.245	7.6	92	0.00
18 T	1,1-Dichloroethene	10.000	9.017	9.8	95	0.00
19 T	Isopropyl Alcohol	10.000	8.431	15.7	90	0.00
20 T	Methylene Chloride	10.000	10.323	-3.2	99	0.00
21 T	Allyl Chloride	10.000	8.256	17.4	85	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.041	9.6	96	0.00
23 T	Vinyl Acetate	10.000	8.539	14.6	82	0.00
24 T	1,1-Dichloroethane	10.000	9.622	3.8	96	0.00
25 T	Ethyl Acetate	10.000	8.820	11.8	89	0.00
26 T	Hexane	10.000	8.892	11.1	88	0.00
27 T	Carbon Disulfide	10.000	9.528	4.7	95	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.171	-1.7	103	0.00
29 T	Chloroform	10.000	9.521	4.8	93	0.00
30 T	Cyclohexane	10.000	9.148	8.5	92	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.379	6.2	92	0.00
32 T	1,1,1-Trichloroethane	10.000	9.358	6.4	92	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34 T	2-Butanone	10.000	8.707	12.9	88	0.00
35 T	Carbon Tetrachloride	10.000	9.200	8.0	91	0.00
36 T	Benzene	10.000	9.293	7.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.772	2.3	95	0.00
38 T	Trichloroethene	10.000	9.272	7.3	91	0.00
39 T	1,2-Dichloropropane	10.000	9.086	9.1	88	0.00
40 T	1,4-Dioxane	10.000	7.780	22.2	79	0.00
41 T	Tetrahydrofuran	10.000	8.891	11.1	87	0.00
42 T	Bromodichloromethane	10.000	9.657	3.4	92	0.00
43	Methyl Methacrylate	10.000	8.737	12.6	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.133	8.7	89	0.00
45 T	t-1,3-Dichloropropene	10.000	7.863	21.4	76	0.00
46 T	cis-1,3-Dichloropropene	10.000	7.924	20.8	76	0.00
47 T	1,1,2-Trichloroethane	10.000	9.086	9.1	91	0.01
48 T	Dibromochloromethane	10.000	9.514	4.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	9.085	9.1	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.631	13.7	84	0.00
51 T	2-Hexanone	10.000	8.233	17.7	80	0.00
52 T	Tetrachloroethene	10.000	8.884	11.2	89	0.00
53 T	Toluene	10.000	9.197	8.0	90	0.00
54 T	1,2-Dibromoethane	10.000	8.705	13.0	84	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	8.969	10.3	90	0.00
57 T	Chlorobenzene	10.000	8.981	10.2	88	0.00
58 T	Ethyl Benzene	10.000	9.167	8.3	89	0.00
59 T	m/p-Xylene	20.000	18.108	9.5	90	0.00
60 T	o-Xylene	10.000	8.876	11.2	89	0.00
61 T	Styrene	10.000	8.714	12.9	84	0.00
62	Isopropylbenzene	10.000	8.816	11.8	88	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.421	15.8	85	0.00
64	n-propylbenzene	10.000	8.591	14.1	85	0.00
65	tert-Butylbenzene	10.000	8.465	15.4	86	0.00
66 T	Benzyl Chloride	10.000	5.159	48.4#	49	0.00
67	sec-Butylbenzene	10.000	8.388	16.1	85	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.048	-0.5	92	0.00
69	p-Isopropyltoluene	10.000	8.272	17.3	83	0.00
70	n-Butylbenzene	10.000	8.398	16.0	83	0.00
71	2-Chlorotoluene	10.000	8.649	13.5	86	0.00
72 T	4-Ethyltoluene	10.000	8.779	12.2	87	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.660	13.4	86	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.463	15.4	87	0.00
75 T	1,3-Dichlorobenzene	10.000	8.320	16.8	82	0.00
76 T	1,4-Dichlorobenzene	10.000	8.273	17.3	81	0.00
77 T	1,2-Dichlorobenzene	10.000	7.966	20.3	81	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.222	27.8	78	0.00
79 T	Naphthalene	10.000	8.270	17.3	78	0.00
80 T	Naphthalene,2-methyl-	10.000	8.631	13.7	80	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.497	15.0	79	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3696</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>11/24/2025 12:27</u>
Lab File ID:	<u>VL043278.D</u>	Init. Calib. Date(s):	<u>11/18/2025 11/18/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:29 13:24</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.577	0.536		-7.11	30
Heptane	1.753	1.593		-9.13	30
1,1-Dichloroethane	1.096	1.177		7.39	30
Cyclohexane	1.101	1.079		-2	30
cis-1,2-Dichloroethene	1.306	1.344		2.91	30
1,1,1-Trichloroethane	1.990	2.235		12.31	30
2,2,4-Trimethylpentane	1.645	1.686		2.49	30
Benzene	0.958	1.018		6.26	30
Trichloroethene	0.375	0.406		8.27	30
Toluene	1.134	1.132		-0.18	30
Tetrachloroethene	0.356	0.373		4.78	30
Ethyl Benzene	1.925	2.087		8.42	30
m/p-Xylene	1.543	1.711		10.89	30
o-Xylene	1.542	1.735		12.52	30
1,3,5-Trimethylbenzene	1.575	1.732		9.97	30
1,2,4-Trimethylbenzene	1.719	1.905		10.82	30
Naphthalene	1.527	1.581		3.54	30
1-Bromo-4-Fluorobenzene	0.733	0.760		3.68	30
Hexane	1.314	1.279		-2.66	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\VL112425\
 Data File : VL043278.D
 Acq On : 24 Nov 2025 12:27
 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 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:38:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	107061	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	275969	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	215083	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 163444 10.367 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	165790	10.979	ppbv	100
3) Chlorodifluoromethane	1.476	51	154655	10.414	ppbv	96
4) Chloromethane	1.531	50	57140	10.121	ppbv	92
5) Vinyl Chloride	1.580	62	57379	9.293	ppbv	94
6) Bromomethane	1.667	94	28470	9.512	ppbv	95
7) Chloroethane	1.703	64	23590	9.810	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	137737	10.965	ppbv	99
9) Propene	1.482	41	60577m	9.606	ppbv	
10) Heptane	4.968	43	170551	9.087	ppbv	99
11) Trichlorofluoromethane	1.877	101	175925	12.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	130475	11.423	ppbv	96
13) Ethanol	1.719	45	17888	8.067	ppbv	95
14) Bromoethene	1.780	108	47510	10.850	ppbv	96
15) Acetone	1.832	43	125343	8.427	ppbv	99
16) 1,3-Butadiene	1.609	39	64565	9.736	ppbv	96
17) tert-Butyl alcohol	2.036	59	188025	9.630	ppbv	100
18) 1,1-Dichloroethene	2.033	96	57383	10.790	ppbv	98
19) Isopropyl Alcohol	1.884	45	75837	9.023	ppbv	93
20) Methylene Chloride	2.059	84	52345	12.108	ppbv	91
21) Allyl Chloride	2.094	41	88510	8.844	ppbv	94
22) trans-1,2-Dichloroethene	2.337	96	64226	10.566	ppbv	99
23) Vinyl Acetate	2.460	43	162160	9.030	ppbv #	99
24) 1,1-Dichloroethane	2.405	63	126001	10.739	ppbv	98
25) Ethyl Acetate	2.829	43	302952	9.443	ppbv	99
26) Hexane	2.822	57	136961	9.738	ppbv	98
27) Carbon Disulfide	2.149	76	160712	11.192	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	69559	10.075	ppbv	94
29) Chloroform	2.845	83	232873	11.649	ppbv	100
30) Cyclohexane	3.852	84	115484	9.793	ppbv	95
31) cis-1,2-Dichloroethene	2.716	61	143927	10.295	ppbv	98
32) 1,1,1-Trichloroethane	3.360	97	239307	11.230	ppbv	99
34) 2-Butanone	2.551	43	193336	9.925	ppbv	99
35) Carbon Tetrachloride	3.758	117	251772	12.019	ppbv	98
36) Benzene	3.651	78	281056	10.634	ppbv	98
37) 1,2-Dichloroethane	3.211	62	179931	11.639	ppbv	98
38) Trichloroethene	4.538	130	112004	10.832	ppbv	95
39) 1,2-Dichloropropane	4.305	63	100819	10.423	ppbv	89
40) 1,4-Dioxane	4.570	88	37926	8.722	ppbv #	97
41) Tetrahydrofuran	3.046	42	100803	9.370	ppbv	97
42) Bromodichloromethane	4.480	83	247223	11.593	ppbv	98
43) Methyl Methacrylate	4.868	69	133803	9.538	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	465164	10.248	ppbv	98
45) t-1,3-Dichloropropene	6.405	75	104473	7.989	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043278.D
 Acq On : 24 Nov 2025 12:27
 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 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:38:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

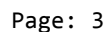
Response via : Initial Calibration

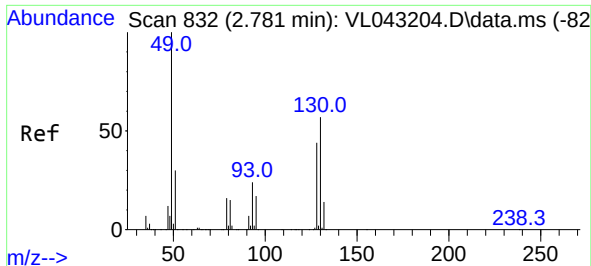
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	128727	8.383	ppbv	93
47) 1,1,2-Trichloroethane	6.567	97	112927	11.001	ppbv	97
48) Dibromochloromethane	7.376	129	204344	11.578	ppbv	100
49) Bromoform	9.474	173	180678	11.557	ppbv	99
50) 4-Methyl-2-Pentanone	5.729	43	252700	9.209	ppbv	100
51) 2-Hexanone	7.422	43	183438	8.608	ppbv #	99
52) Tetrachloroethene	8.218	164	102830	10.460	ppbv	91
53) Toluene	6.923	91	312291	9.979	ppbv	99
54) 1,2-Dibromoethane	7.642	107	152418	10.090	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.917	131	189737	12.003	ppbv	99
57) Chlorobenzene	8.914	112	249546	11.300	ppbv	97
58) Ethyl Benzene	9.348	91	448888	10.843	ppbv	97
59) m/p-Xylene	9.545	91	735995m	22.175	ppbv	
60) o-Xylene	9.956	91	373234	11.257	ppbv	100
61) Styrene	9.862	104	142379	9.812	ppbv	99
62) Isopropylbenzene	10.532	105	663175	11.180	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	229515	10.879	ppbv	100
64) n-propylbenzene	10.982	120	162848	10.684	ppbv	93
65) tert-Butylbenzene	11.526	119	575690	10.867	ppbv	99
66) Benzyl Chloride	11.610	91	27757	5.163	ppbv	98
67) sec-Butylbenzene	11.762	105	808129	10.929	ppbv	99
69) p-Isopropyltoluene	11.921	119	665442	10.623	ppbv	99
70) n-Butylbenzene	12.277	91	647136	10.649	ppbv	100
71) 2-Chlorotoluene	10.895	91	495463	10.867	ppbv	99
72) 4-Ethyltoluene	11.118	105	442267	10.953	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	372473	10.992	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	409684	11.079	ppbv	90
75) 1,3-Dichlorobenzene	11.600	146	242050	11.217	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	239021	11.074	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	231049	11.136	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	181252	10.468	ppbv	99
79) Naphthalene	13.507	128	339967	10.351	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	85751	9.947	ppbv	99
81) 1,2,4-Trichlorobenzene	13.435	180	170083	11.579	ppbv	97

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

Manual Integrations

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





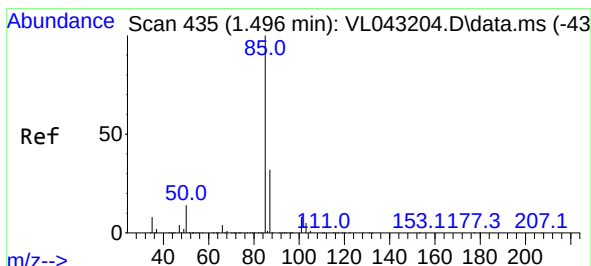
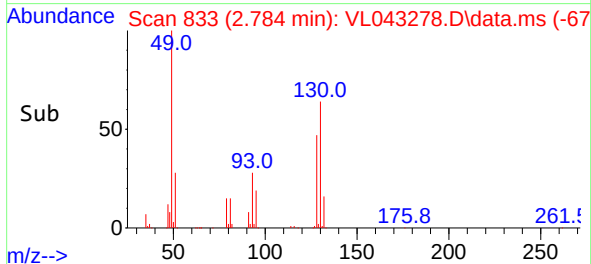
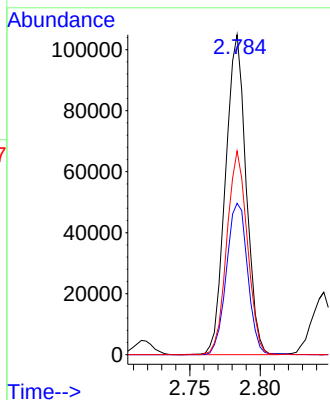
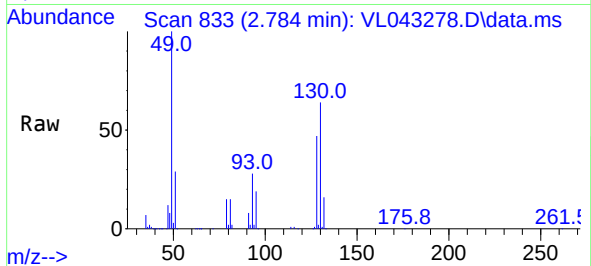
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 10706
Ion Ratio Lower Upper
49 100
128 48.8 23.0 69.0
130 63.3 29.9 89.7

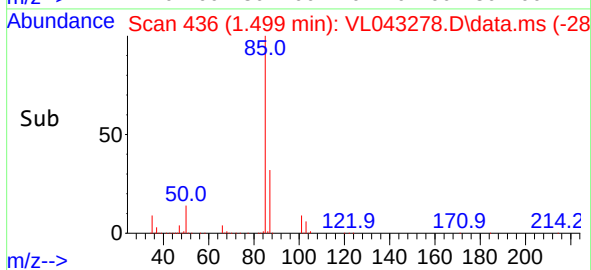
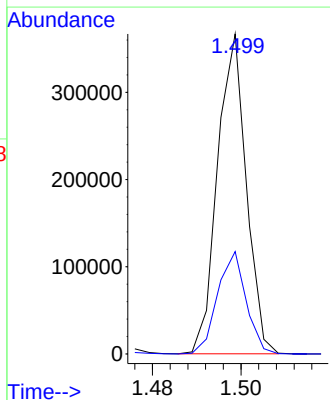
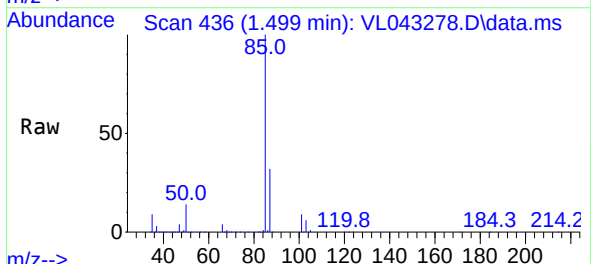
Manual Integrations
APPROVED

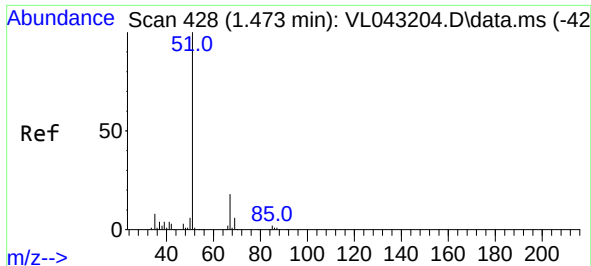
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 10.979 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

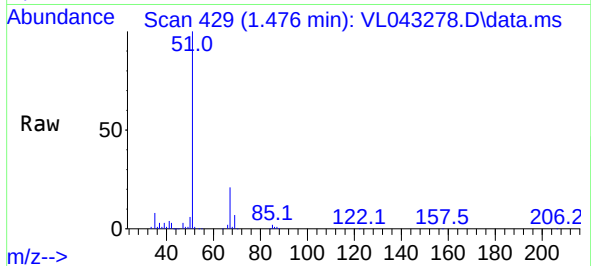
Tgt Ion: 85 Resp: 165790
Ion Ratio Lower Upper
85 100
87 32.0 25.4 38.2





#3
Chlorodifluoromethane
Concen: 10.414 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

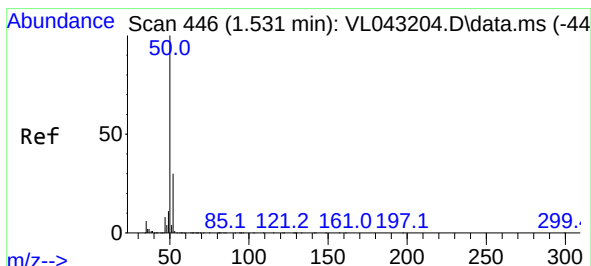
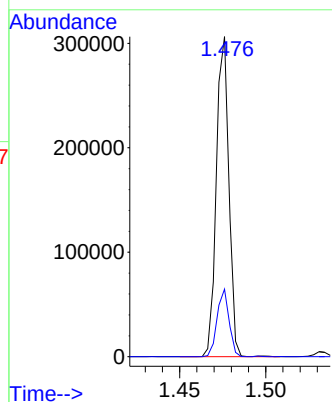
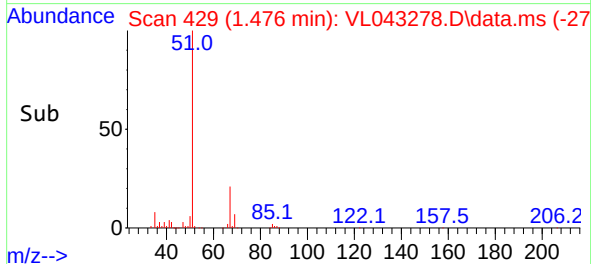
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 51 Resp: 15465
Ion Ratio Lower Upper
51 100
67 20.3 14.9 22.3

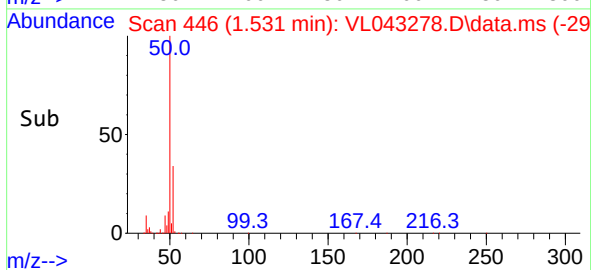
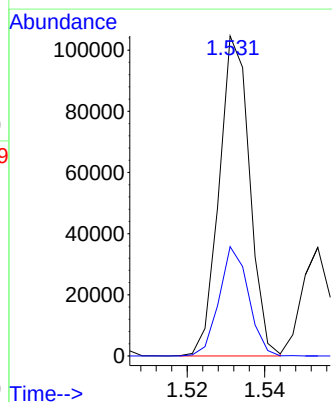
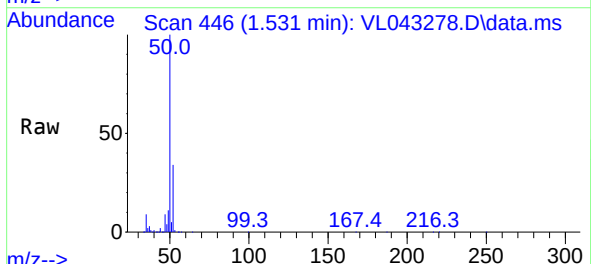
Manual Integrations
APPROVED

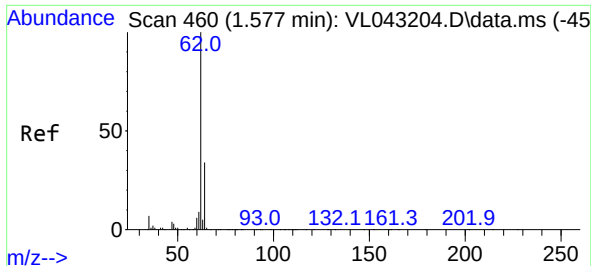
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#4
Chloromethane
Concen: 10.121 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion: 50 Resp: 57140
Ion Ratio Lower Upper
50 100
52 34.2 24.1 36.1





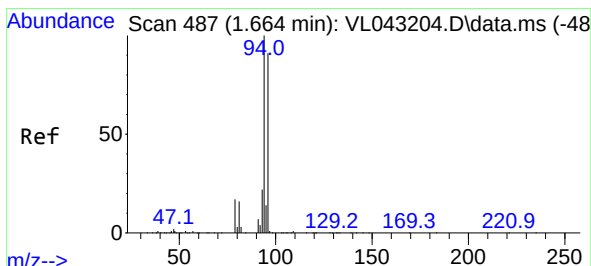
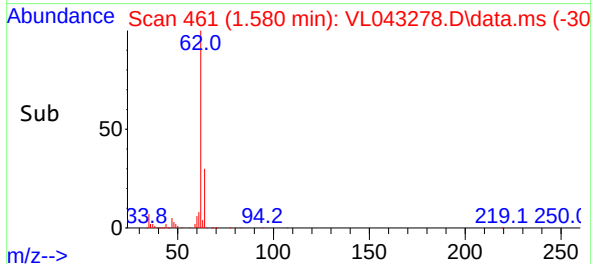
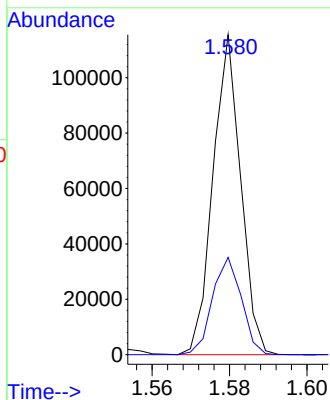
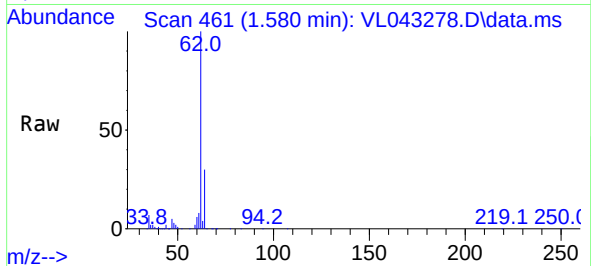
#5
 Vinyl Chloride
 Concen: 9.293 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 57379
 Ion Ratio Lower Upper
 62 100
 64 30.4 27.3 40.9

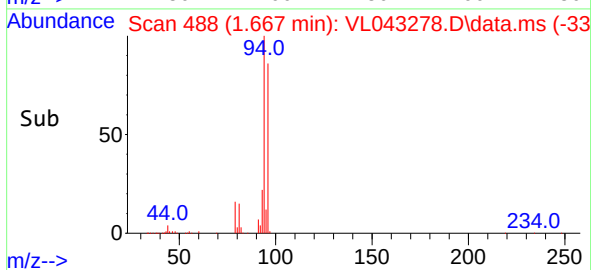
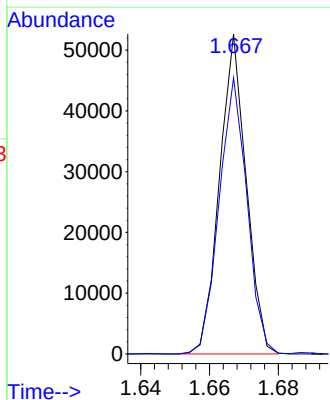
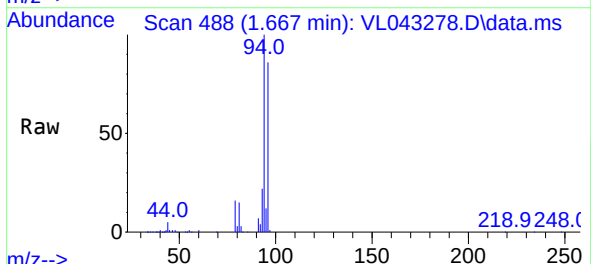
Manual Integrations
 APPROVED

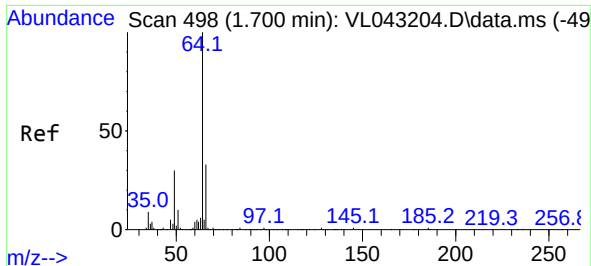
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



#6
 Bromomethane
 Concen: 9.512 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

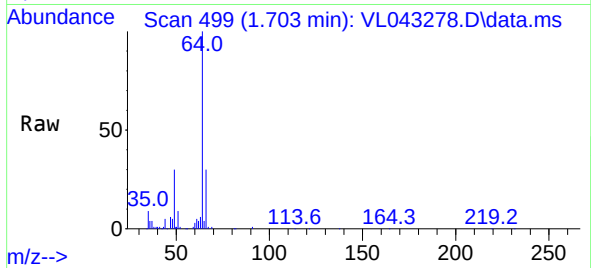
Tgt Ion: 94 Resp: 28470
 Ion Ratio Lower Upper
 94 100
 96 86.3 72.9 109.3





#7
Chloroethane
Concen: 9.810 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

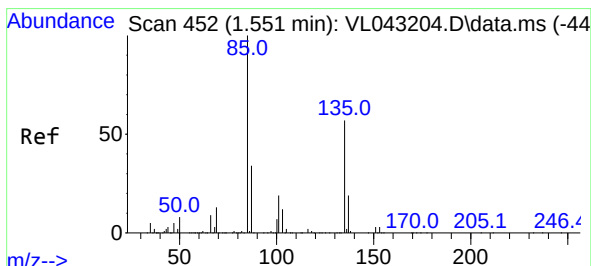
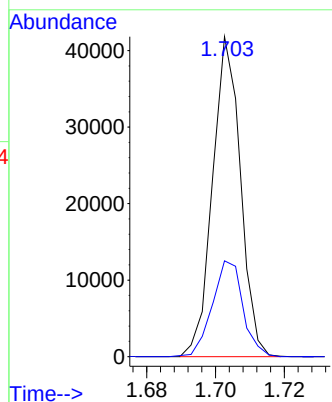
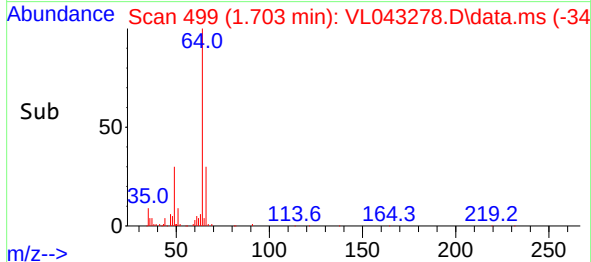
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



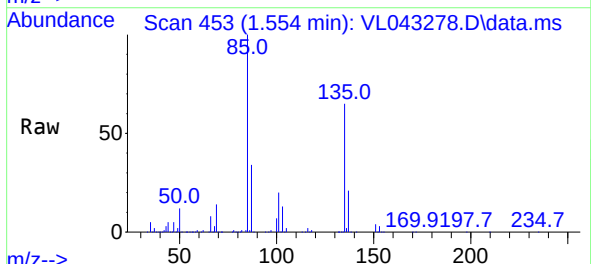
Tgt Ion: 64 Resp: 23590
Ion Ratio Lower Upper
64 100
66 29.9 26.8 40.2

Manual Integrations
APPROVED

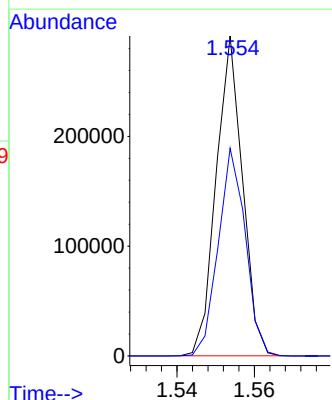
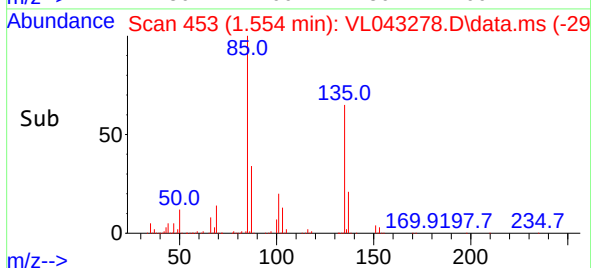
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

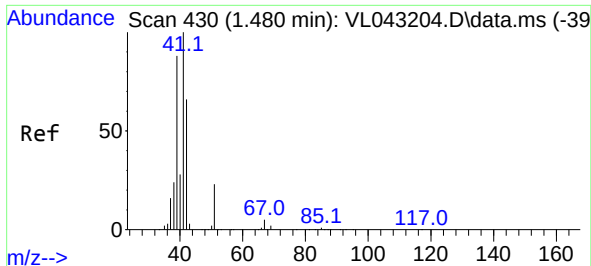


#8
Dichlorotetrafluoroethane
Concen: 10.965 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



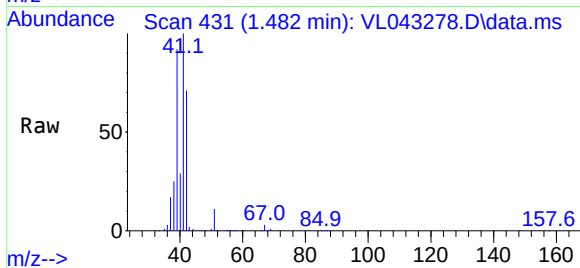
Tgt Ion: 85 Resp: 137737
Ion Ratio Lower Upper
85 100
135 66.9 52.6 79.0





#9
Propene
Concen: 9.606 ppbv m
RT: 1.482 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

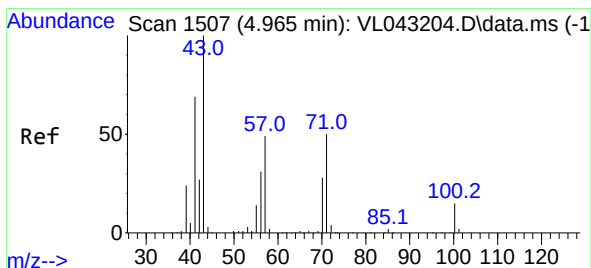
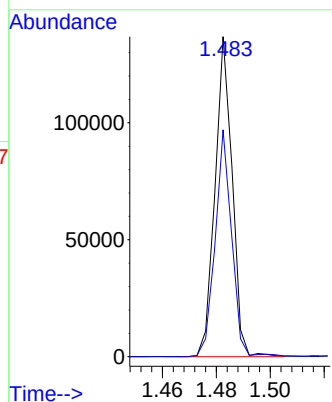
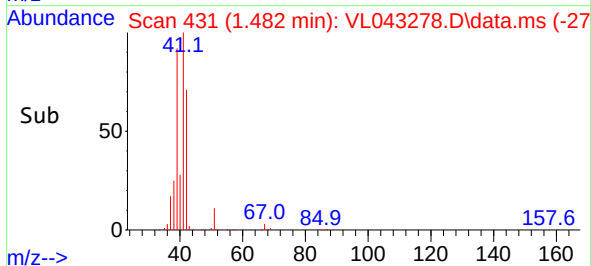
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



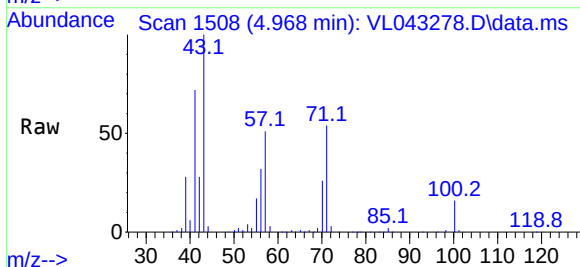
Tgt Ion: 41 Resp: 6057
Ion Ratio Lower Upper
41 100
42 5.0 3.7 5.5

Manual Integrations
APPROVED

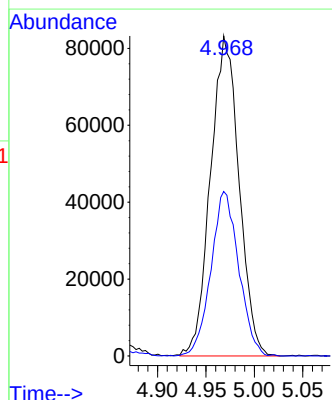
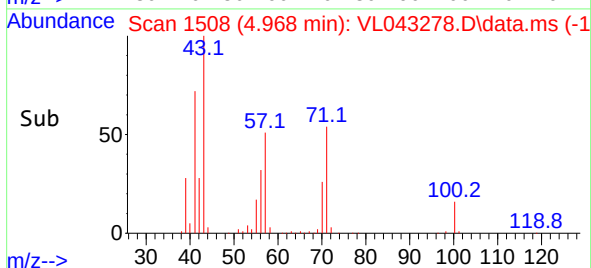
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

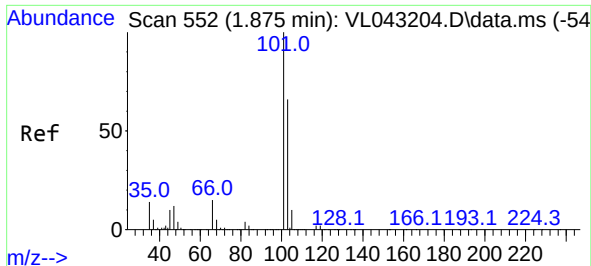


#10
Heptane
Concen: 9.087 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



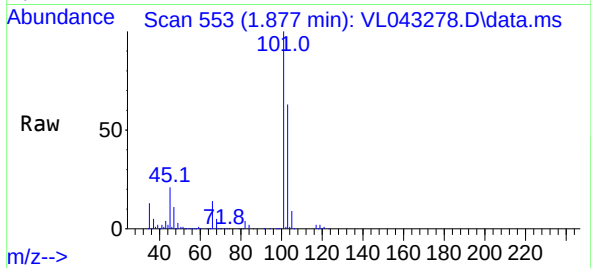
Tgt Ion: 43 Resp: 170551
Ion Ratio Lower Upper
43 100
57 50.1 39.7 59.5





#11
Trichlorofluoromethane
Concen: 12.025 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

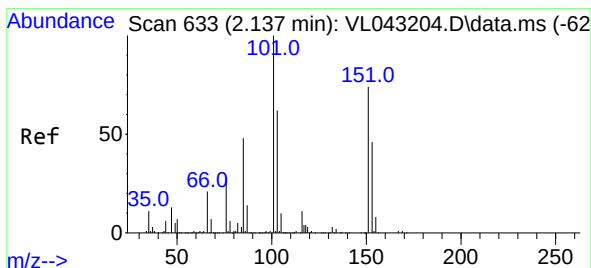
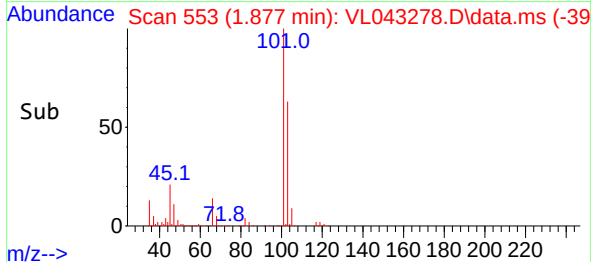
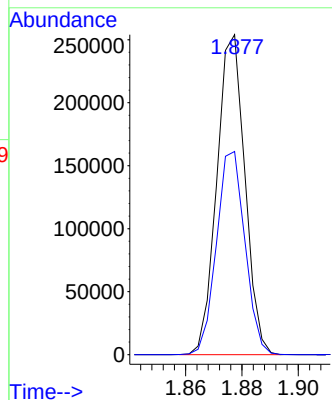
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:101 Resp: 175925
Ion Ratio Lower Upper
101 100
103 63.5 52.6 79.0

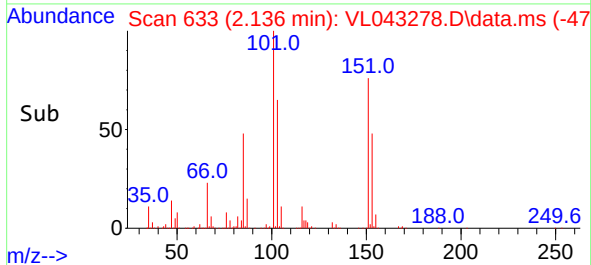
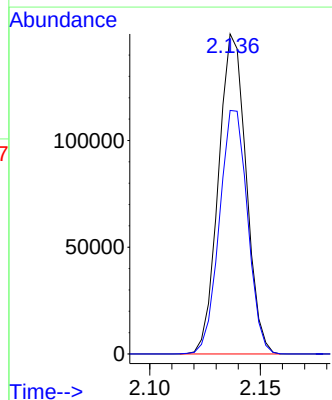
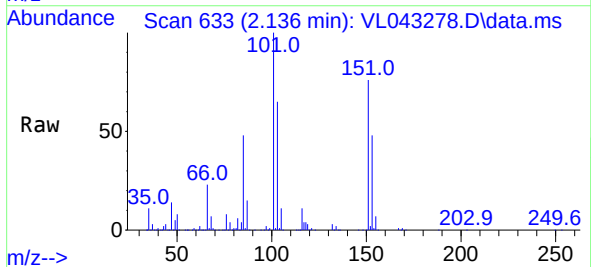
Manual Integrations
APPROVED

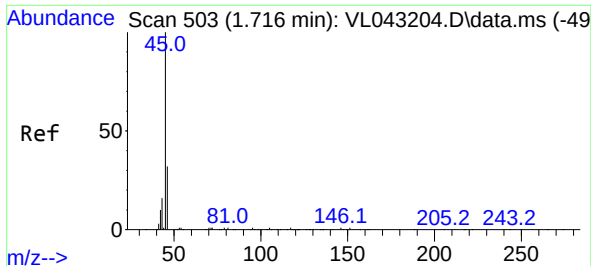
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.423 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion:101 Resp: 130475
Ion Ratio Lower Upper
101 100
151 77.5 59.2 88.8





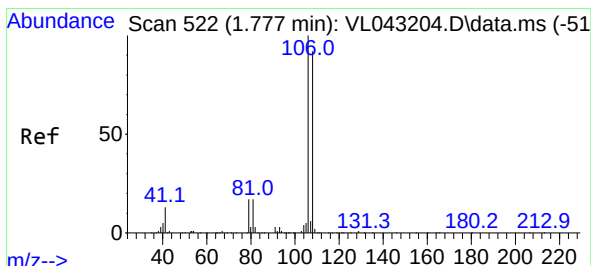
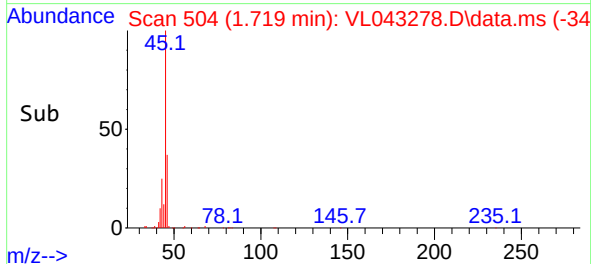
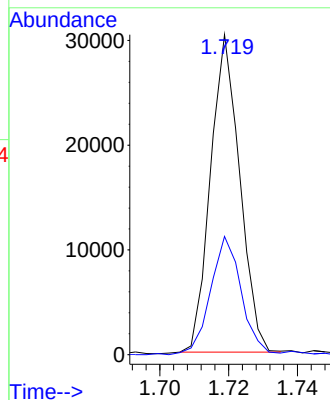
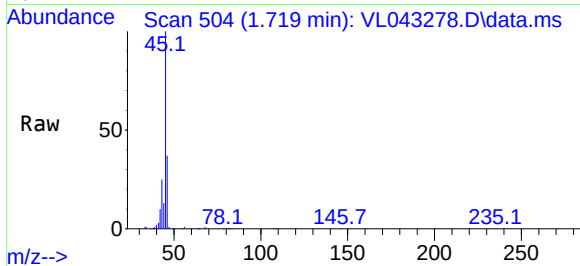
#13
Ethanol
Concen: 8.067 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 1788
Ion Ratio Lower Upper
45 100
46 40.3 15.0 59.8

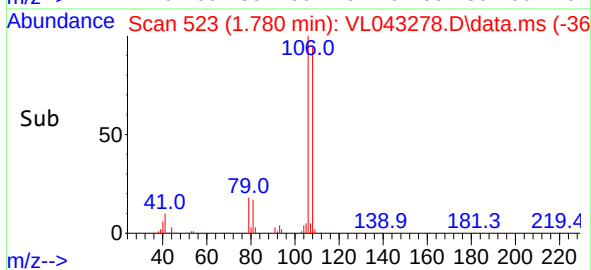
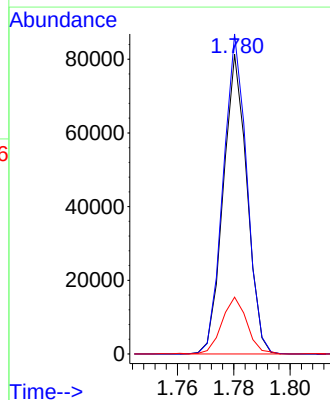
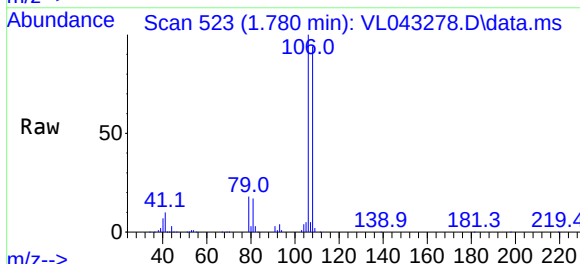
Manual Integrations
APPROVED

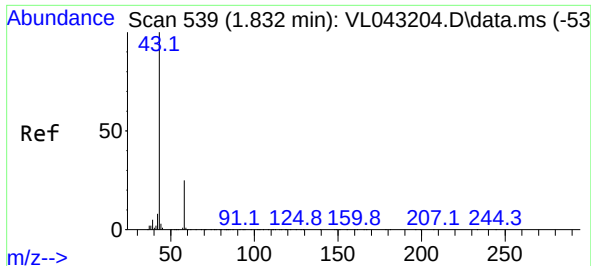
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#14
Bromoethene
Concen: 10.850 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion:108 Resp: 47510
Ion Ratio Lower Upper
108 100
106 105.9 88.9 133.3
79 20.1 16.5 24.7





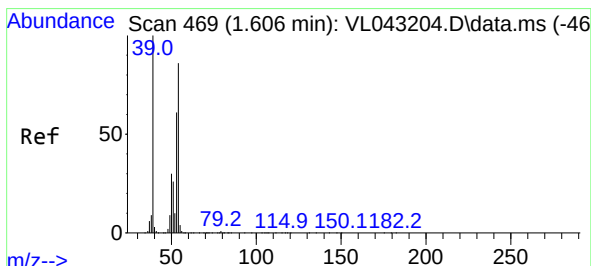
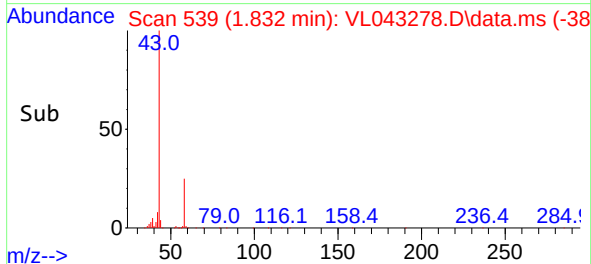
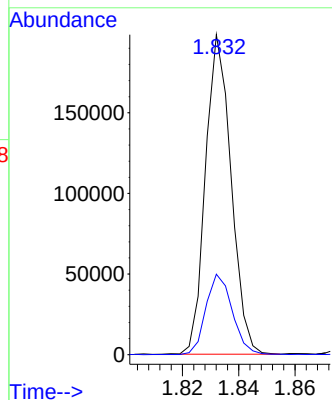
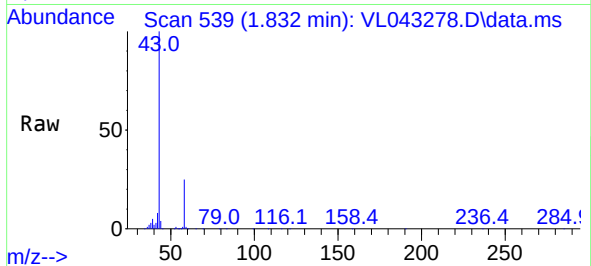
#15
Acetone
Concen: 8.427 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 12534
Ion Ratio Lower Upper
43 100
58 26.2 20.7 31.1

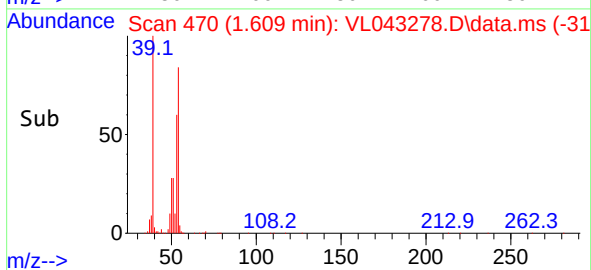
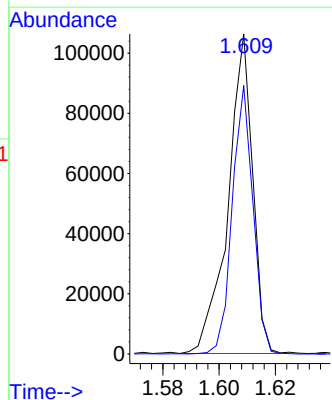
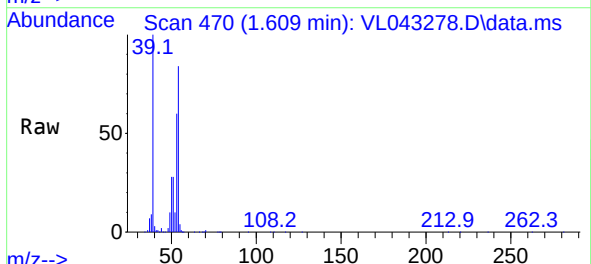
Manual Integrations
APPROVED

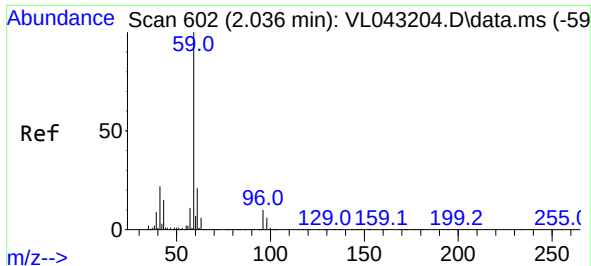
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#16
1,3-Butadiene
Concen: 9.736 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

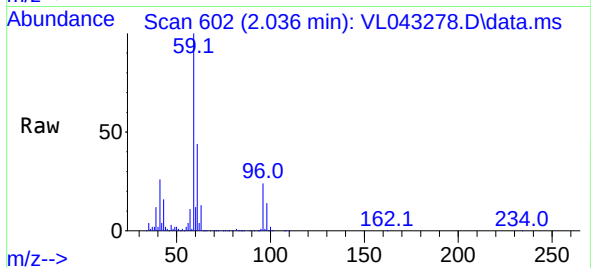
Tgt Ion: 39 Resp: 64565
Ion Ratio Lower Upper
39 100
54 70.5 59.4 89.2





#17
tert-Butyl alcohol
Concen: 9.630 ppbv
RT: 2.036 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

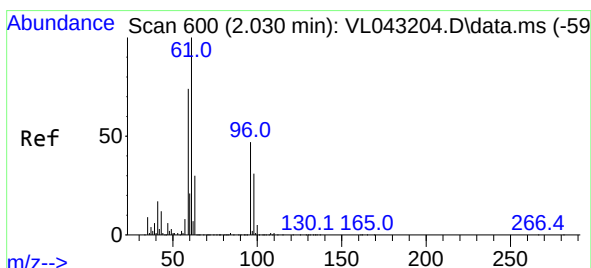
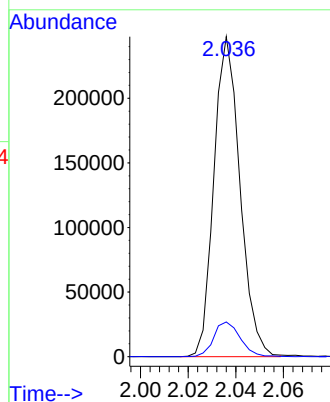
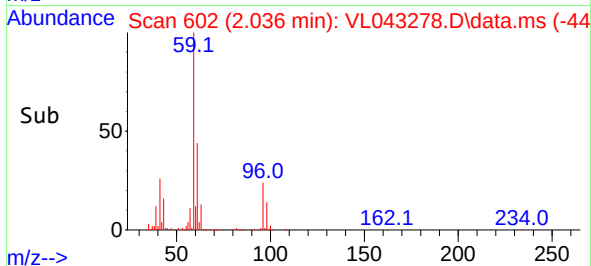
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



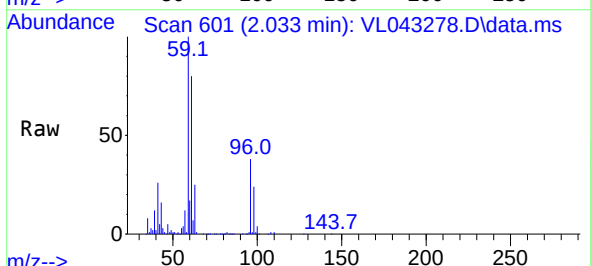
Tgt Ion: 59 Resp: 188025
Ion Ratio Lower Upper
59 100
57 11.1 9.0 13.4

Manual Integrations
APPROVED

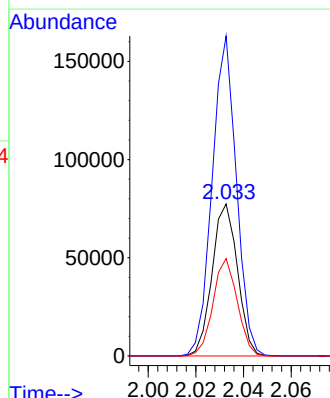
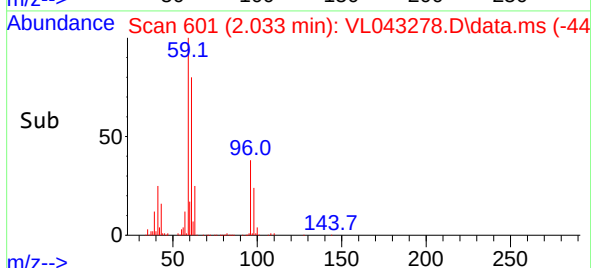
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

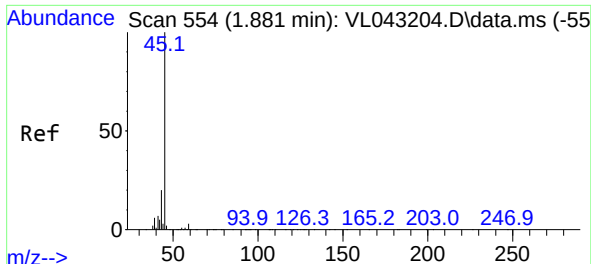


#18
1,1-Dichloroethene
Concen: 10.790 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



Tgt Ion: 96 Resp: 57383
Ion Ratio Lower Upper
96 100
61 210.5 170.6 255.8
98 64.1 52.2 78.4





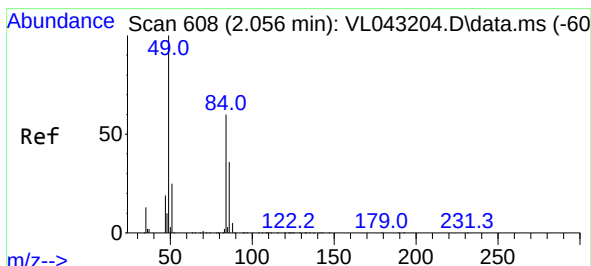
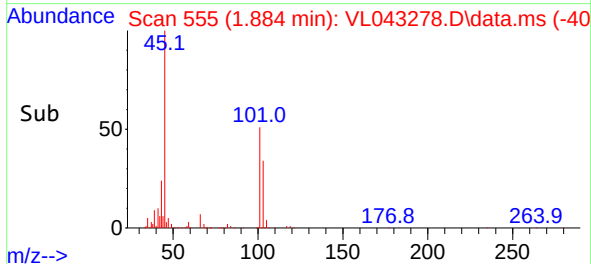
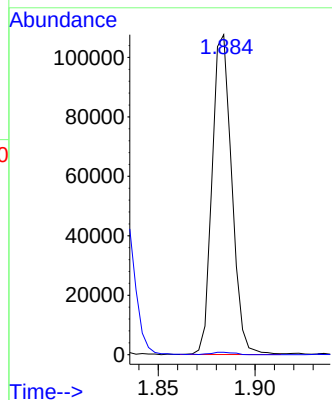
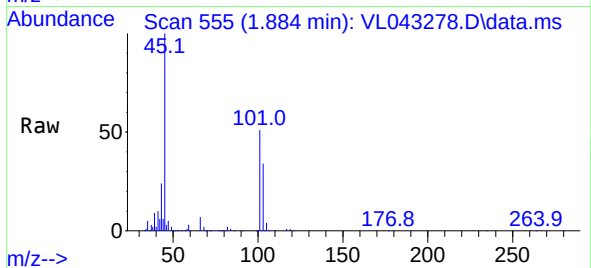
#19
Isopropyl Alcohol
Concen: 9.023 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 7583
Ion Ratio Lower Upper
45 100
58 43.3 31.3 46.9

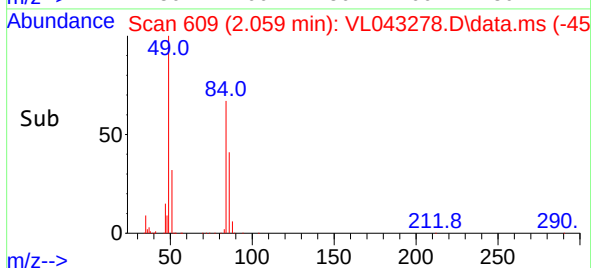
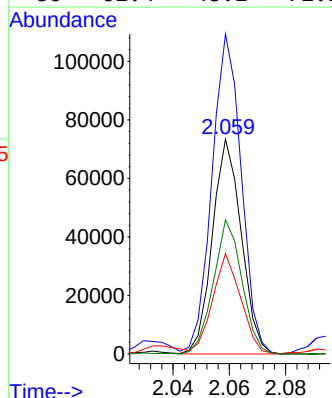
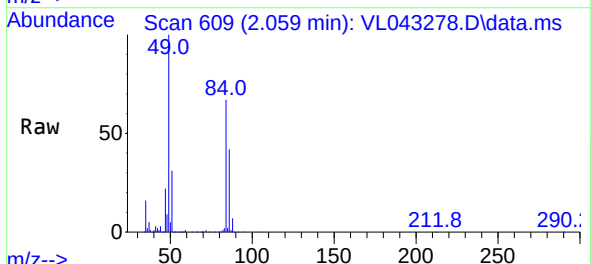
Manual Integrations
APPROVED

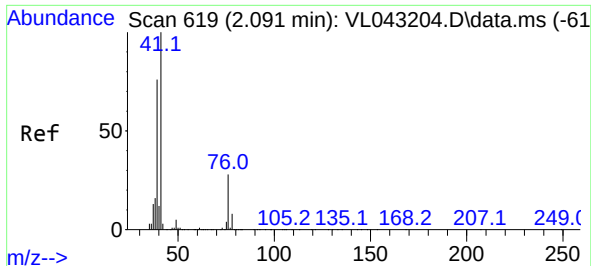
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#20
Methylene Chloride
Concen: 12.108 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion: 84 Resp: 52345
Ion Ratio Lower Upper
84 100
49 148.8 132.9 199.3
51 46.6 34.8 52.2
86 62.4 48.2 72.2





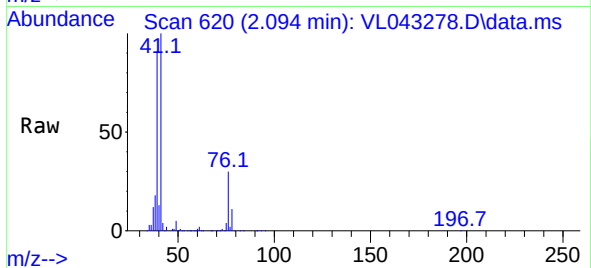
#21
 Allyl Chloride
 Concen: 8.844 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

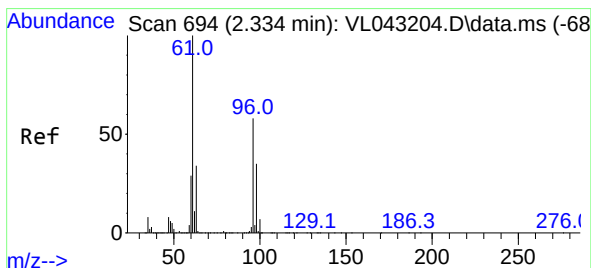
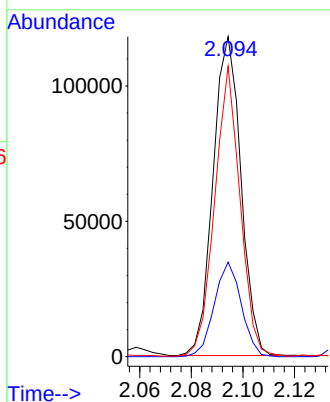
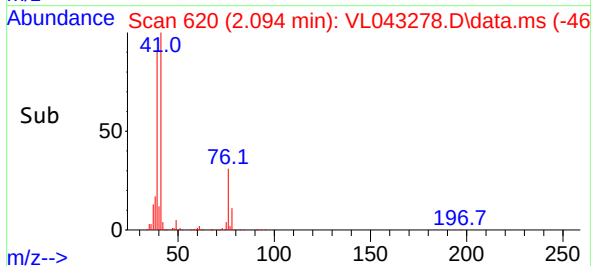


Tgt Ion: 41 Resp: 88510
 Ion Ratio Lower Upper
 41 100
 76 28.7 22.1 33.1
 39 82.5 61.0 91.4

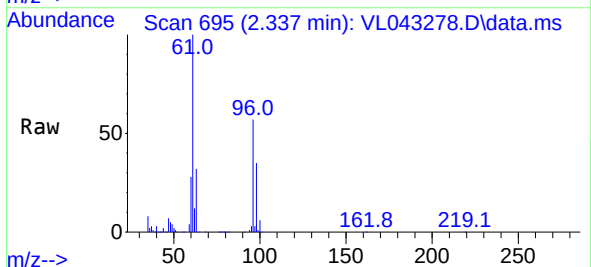
Manual Integrations

APPROVED

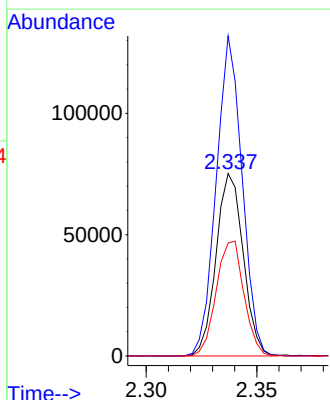
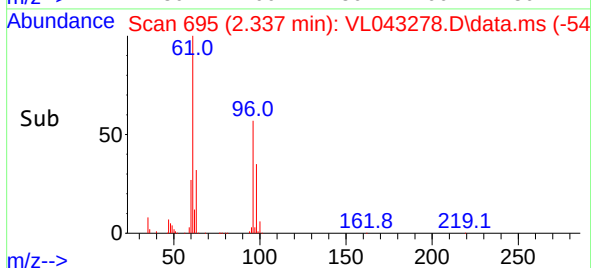
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

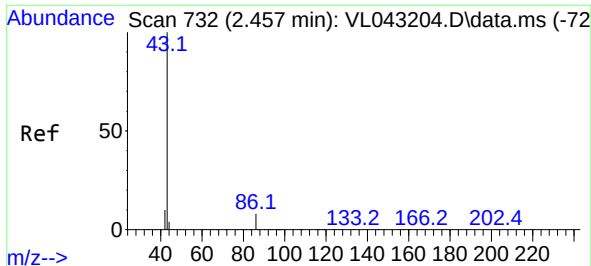


#22
 trans-1,2-Dichloroethene
 Concen: 10.566 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.003 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27



Tgt Ion: 96 Resp: 64226
 Ion Ratio Lower Upper
 96 100
 61 175.4 139.0 208.6
 98 62.0 49.4 74.2





#23
 Vinyl Acetate
 Concen: 9.030 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

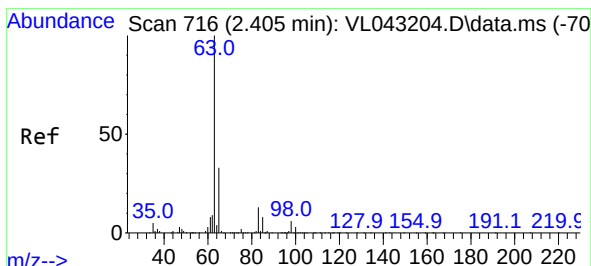
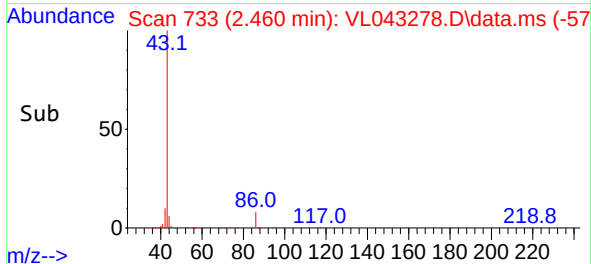
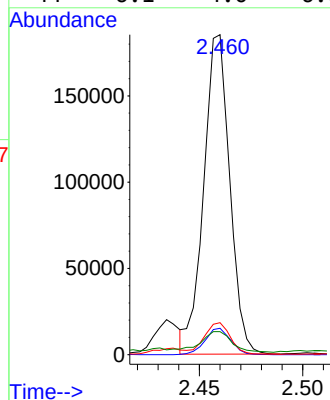
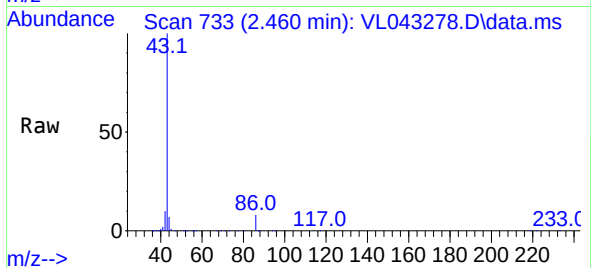
VSTDCCC010

Tgt Ion: 43 Resp: 162160
 Ion Ratio Lower Upper
 43 100
 86 8.3 6.2 9.2
 42 9.9 8.0 12.0
 44 6.1 4.0 6.0#

Manual Integrations

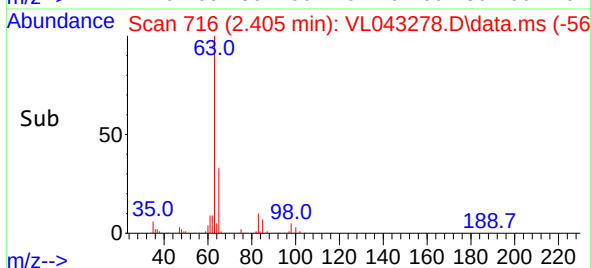
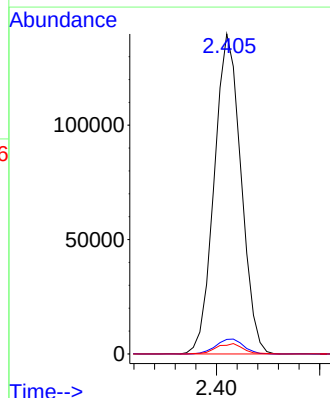
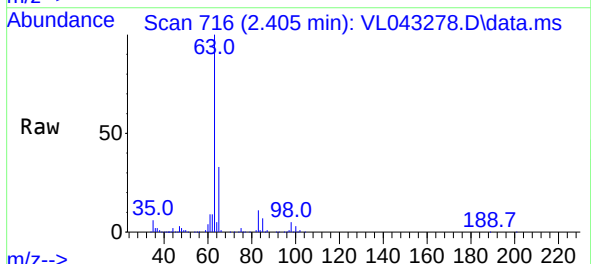
APPROVED

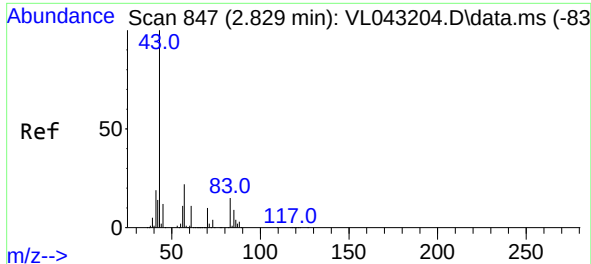
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



#24
 1,1-Dichloroethane
 Concen: 10.739 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

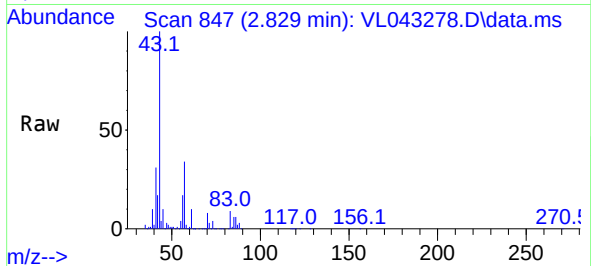
Tgt Ion: 63 Resp: 126001
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.8 8.4
 100 2.7 1.3 3.9





#25
Ethyl Acetate
Concen: 9.443 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

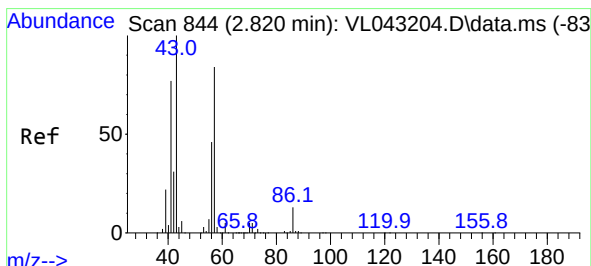
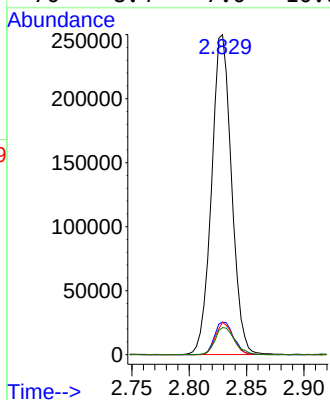
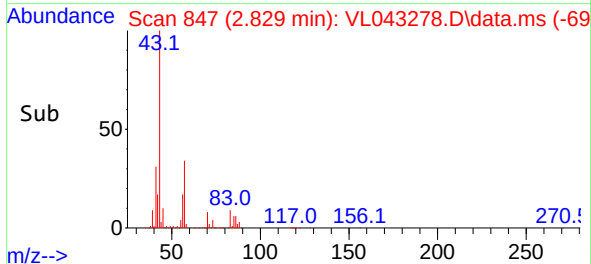
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



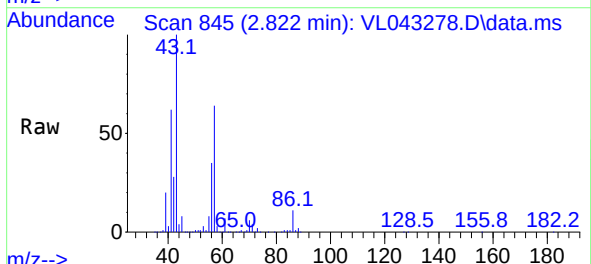
Tgt Ion: 43 Resp: 302952
Ion Ratio Lower Upper
43 100
45 9.8 8.1 12.1
61 8.9 7.0 10.4
70 8.4 7.0 10.6

Manual Integrations
APPROVED

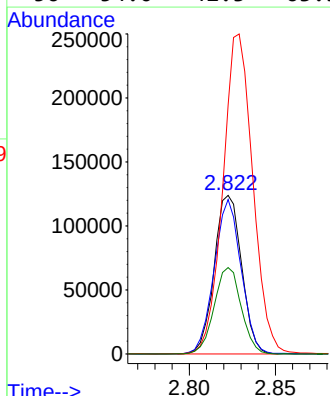
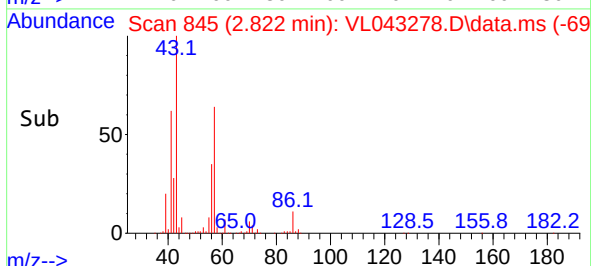
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

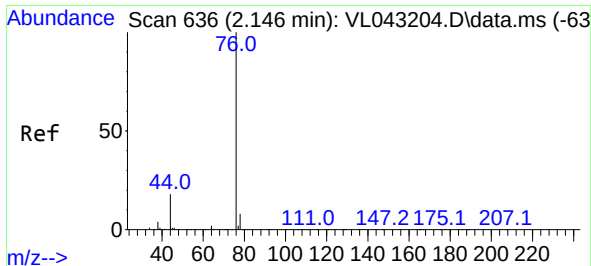


#26
Hexane
Concen: 9.738 ppbv
RT: 2.822 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



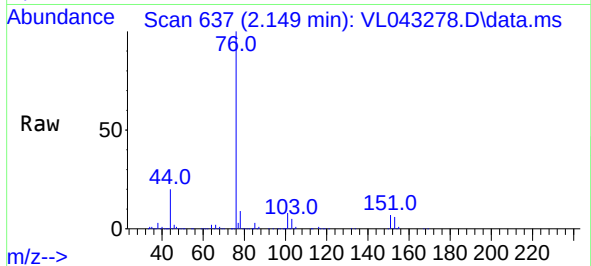
Tgt Ion: 57 Resp: 136961
Ion Ratio Lower Upper
57 100
41 96.3 74.6 111.8
43 221.7 179.0 268.4
56 54.0 42.3 63.5





#27
Carbon Disulfide
Concen: 11.192 ppbv
RT: 2.149 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

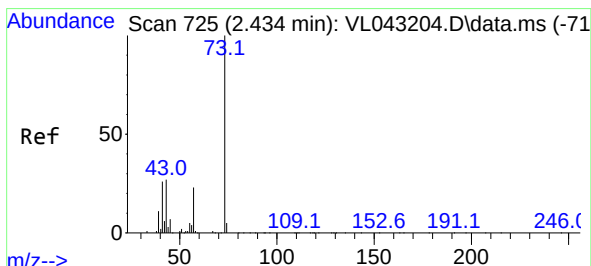
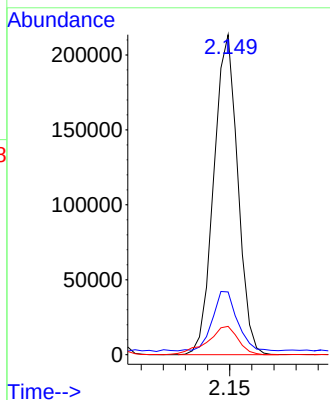
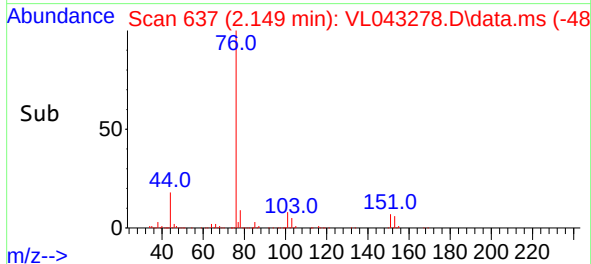
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



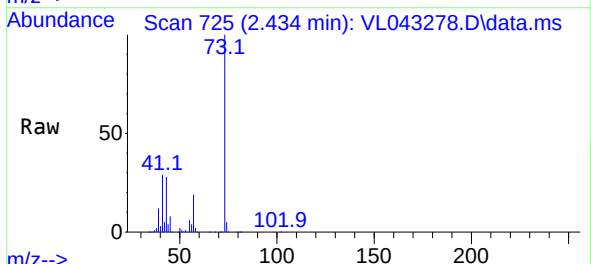
Tgt Ion: 76 Resp: 160712
Ion Ratio Lower Upper
76 100
44 20.3 16.1 24.1
78 11.2 9.6 14.4

Manual Integrations
APPROVED

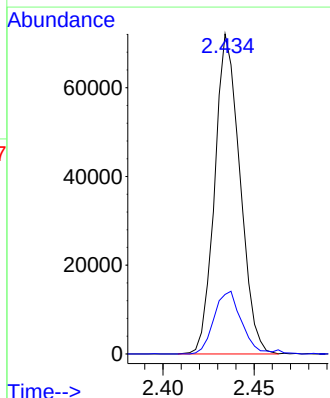
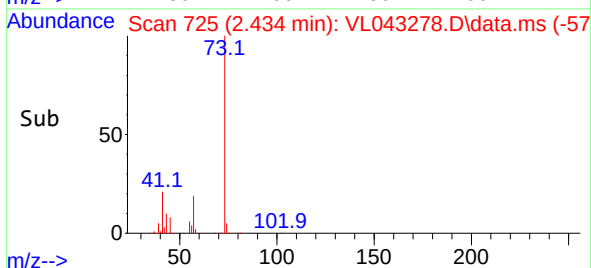
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

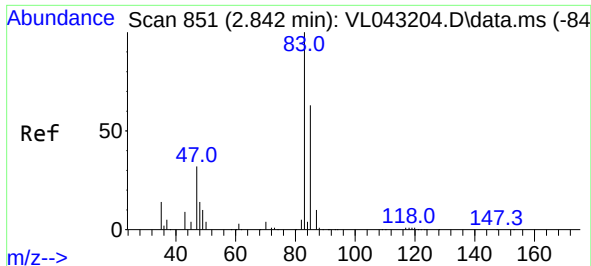


#28
Methyl tert-Butyl Ether
Concen: 10.075 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



Tgt Ion: 73 Resp: 69559
Ion Ratio Lower Upper
73 100
57 21.7 19.8 29.8





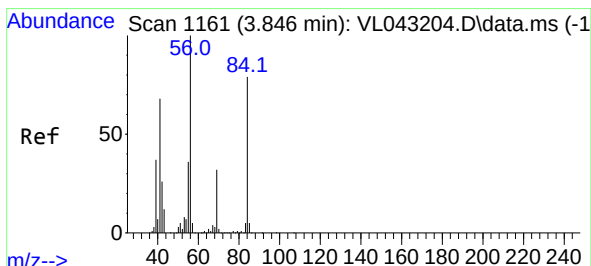
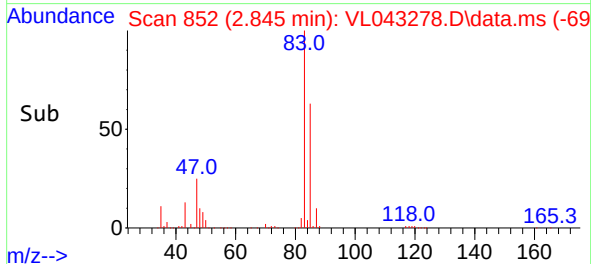
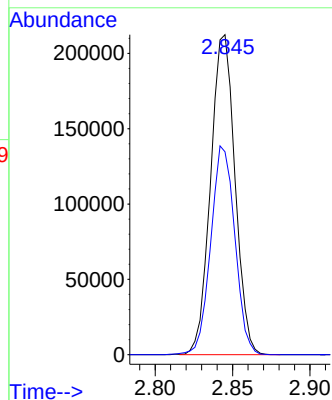
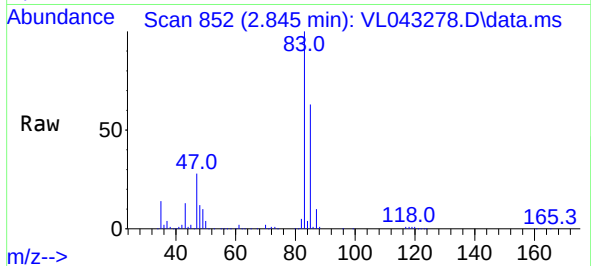
#29
Chloroform
Concen: 11.649 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 23287
Ion Ratio Lower Upper
83 100
85 63.4 50.5 75.7

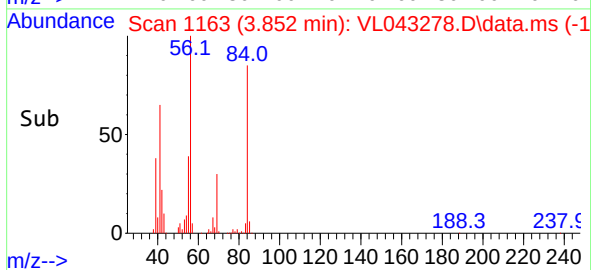
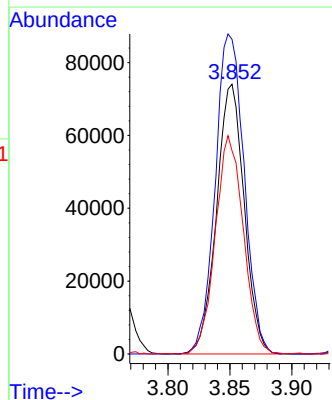
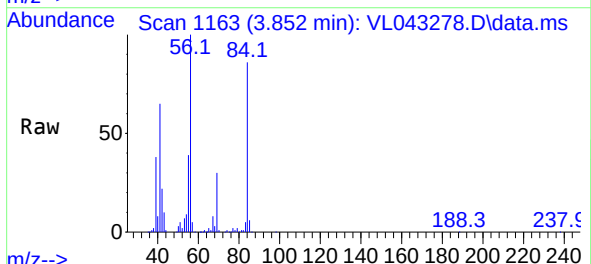
Manual Integrations
APPROVED

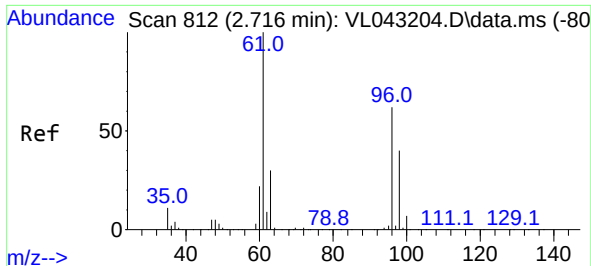
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#30
Cyclohexane
Concen: 9.793 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

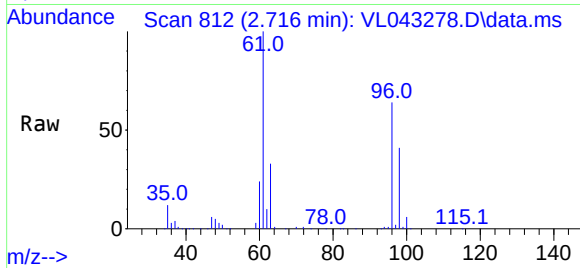
Tgt Ion: 84 Resp: 115484
Ion Ratio Lower Upper
84 100
56 123.9 104.7 157.1
41 82.2 69.0 103.6





#31
 cis-1,2-Dichloroethene
 Concen: 10.295 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. -0.000 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

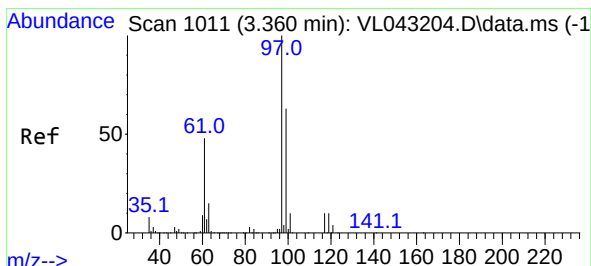
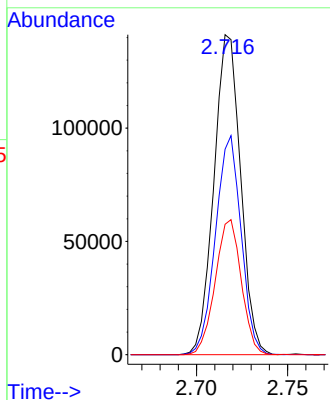
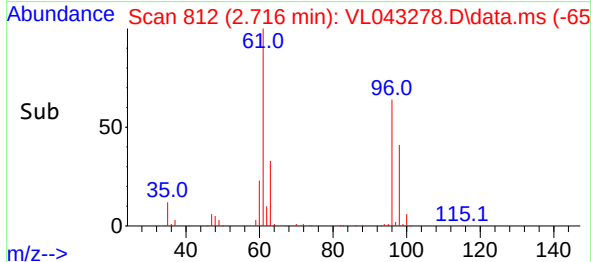
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



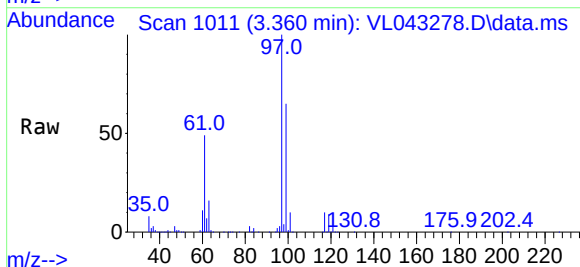
Tgt Ion: 61 Resp: 143927
 Ion Ratio Lower Upper
 61 100
 96 64.2 49.3 73.9
 98 40.8 32.1 48.1

Manual Integrations
 APPROVED

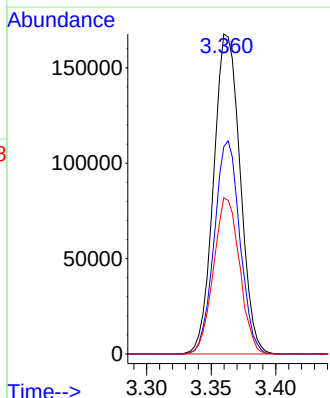
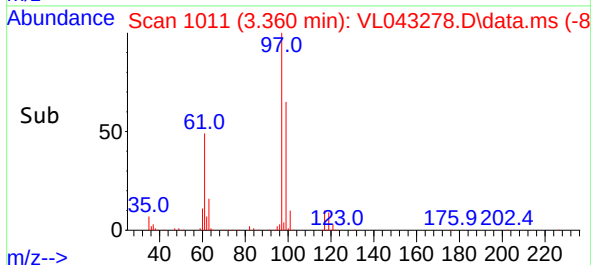
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

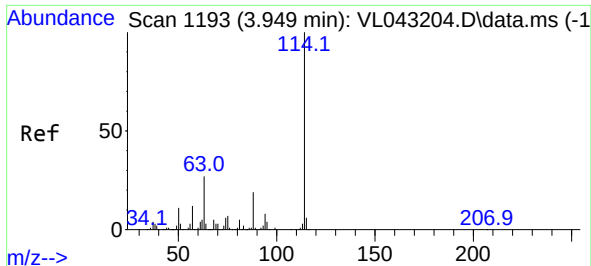


#32
 1,1,1-Trichloroethane
 Concen: 11.230 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.000 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27



Tgt Ion: 97 Resp: 239307
 Ion Ratio Lower Upper
 97 100
 99 64.3 50.3 75.5
 61 48.0 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL043278.D

Acq: 24 Nov 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

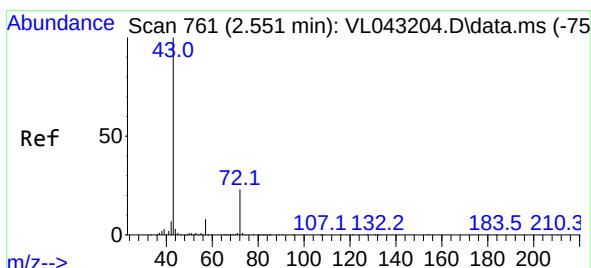
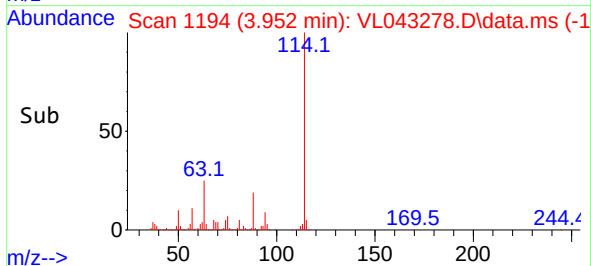
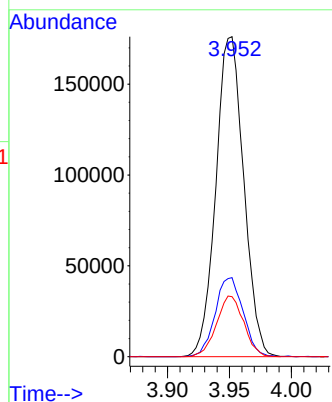
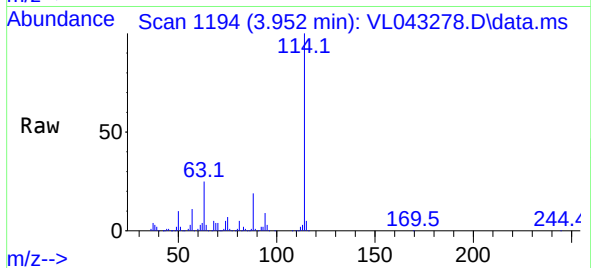
Tgt Ion:114 Resp: 275969

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.5	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#34

2-Butanone

Concen: 9.925 ppbv

RT: 2.551 min Scan# 761

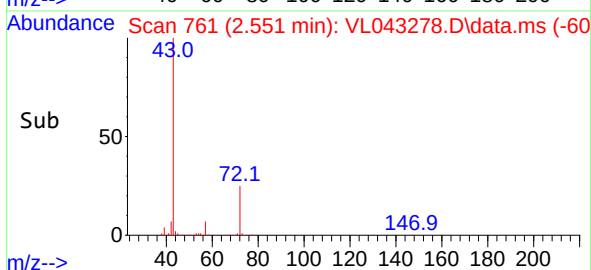
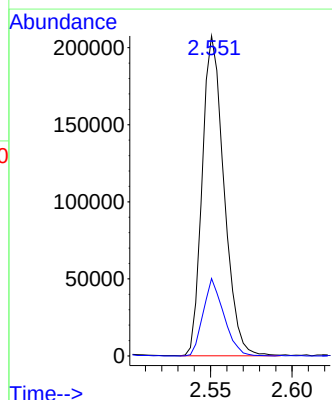
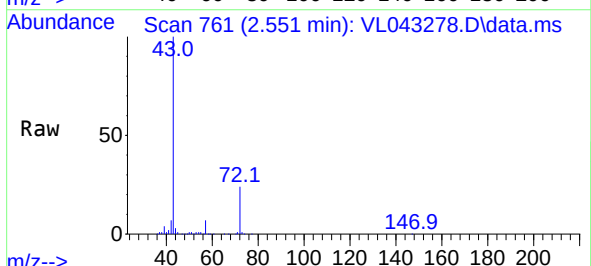
Delta R.T. -0.000 min

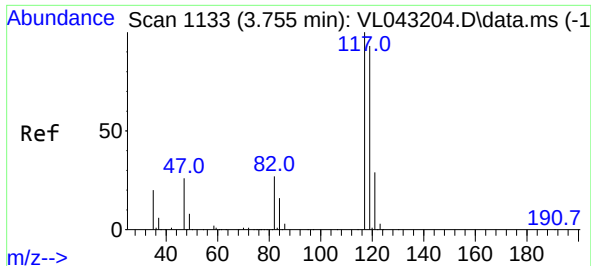
Lab File: VL043278.D

Acq: 24 Nov 2025 12:27

Tgt Ion: 43 Resp: 193336

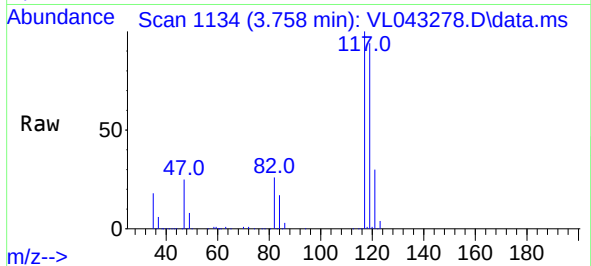
Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.1	27.1





#35
Carbon Tetrachloride
Concen: 12.019 ppbv
RT: 3.758 min Scan# 1133
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

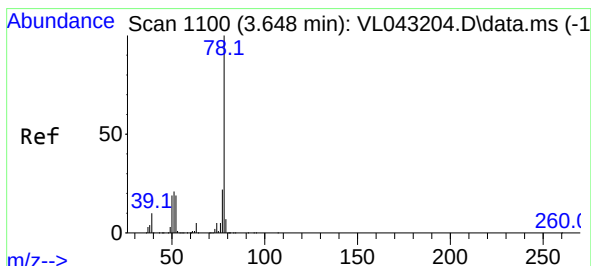
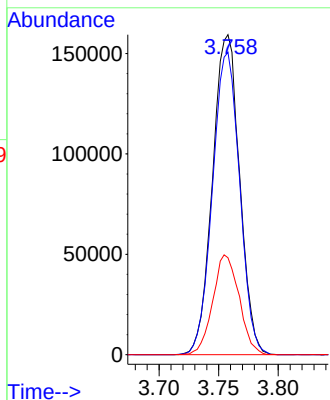
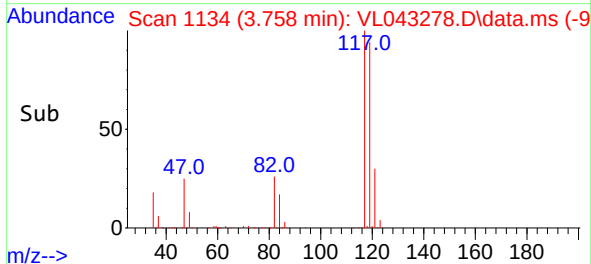
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



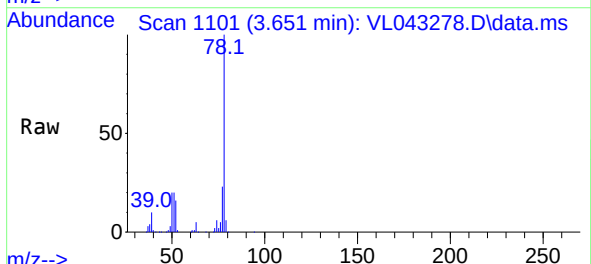
Tgt Ion: 117 Resp: 251772
Ion Ratio Lower Upper
117 100
119 94.5 74.6 112.0
121 30.3 23.2 34.8

Manual Integrations
APPROVED

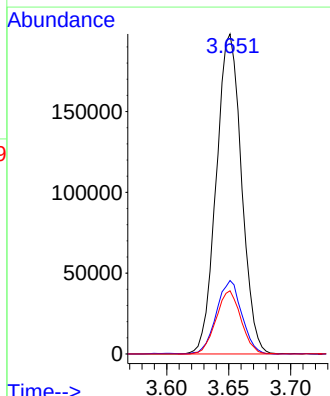
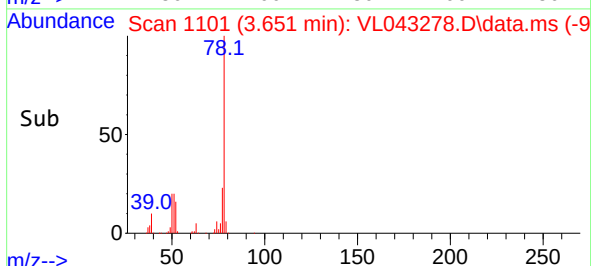
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

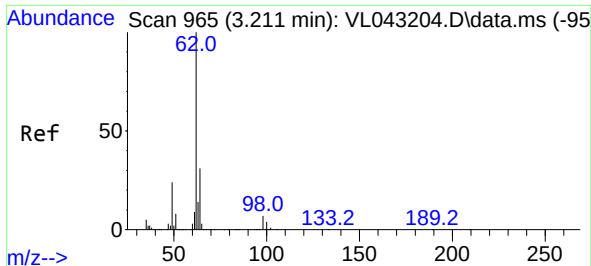


#36
Benzene
Concen: 10.634 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



Tgt Ion: 78 Resp: 281056
Ion Ratio Lower Upper
78 100
77 23.0 17.5 26.3
50 19.8 15.5 23.3





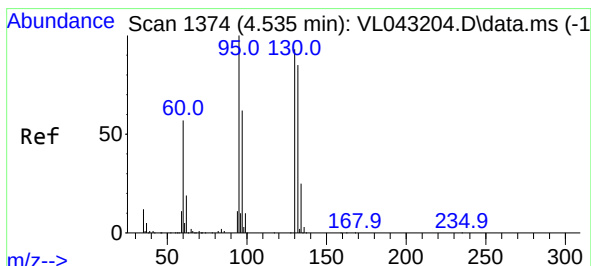
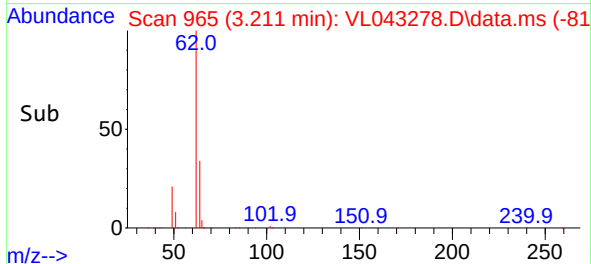
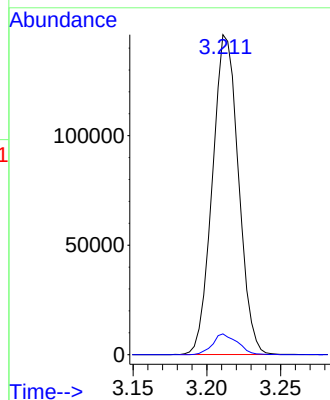
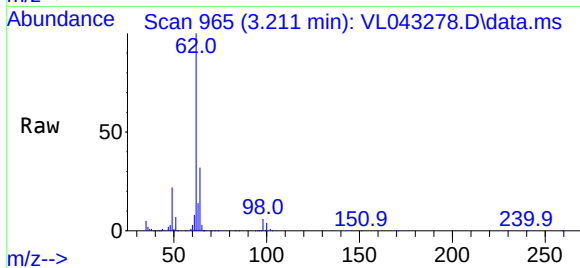
#37
1,2-Dichloroethane
Concen: 11.639 ppbv
RT: 3.211 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 17993
Ion Ratio Lower Upper
62 100
98 6.2 5.5 8.3

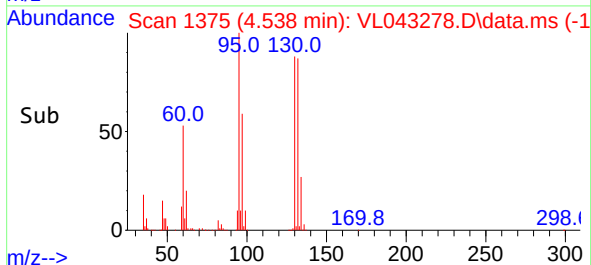
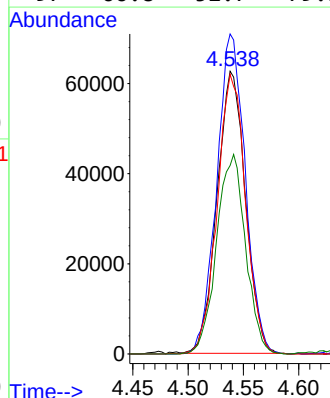
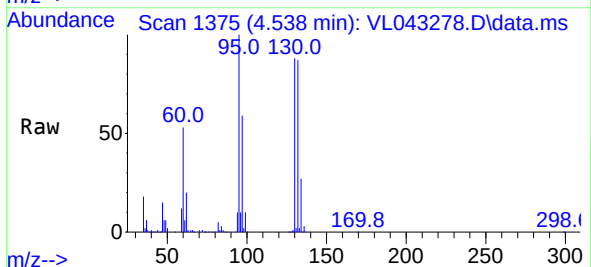
Manual Integrations
APPROVED

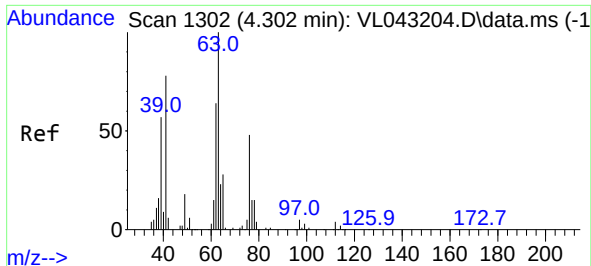
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#38
Trichloroethene
Concen: 10.832 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion:130 Resp: 112004
Ion Ratio Lower Upper
130 100
95 113.2 85.7 128.5
132 99.1 73.4 110.0
97 66.8 52.7 79.1





#39

1,2-Dichloropropane

Concen: 10.423 ppbv

RT: 4.305 min Scan# 1302

Delta R.T. 0.003 min

Lab File: VL043278.D

Acq: 24 Nov 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 100819

Ion Ratio Lower Upper

63 100

41 89.0 62.6 93.8

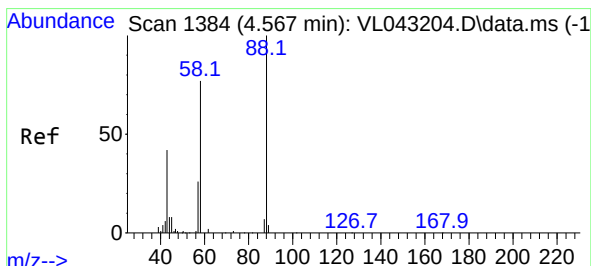
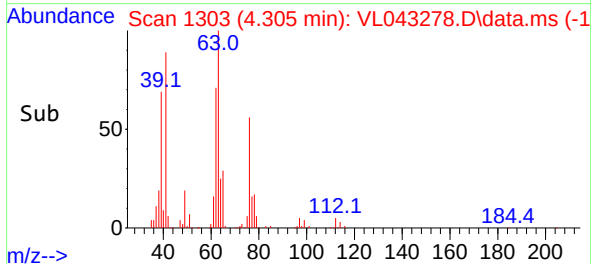
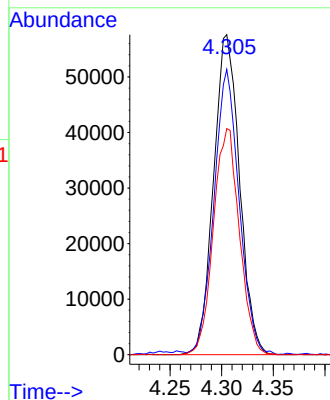
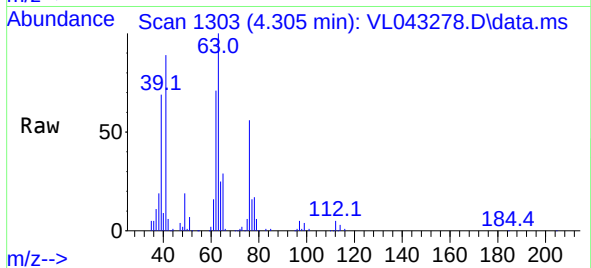
62 70.7 51.0 76.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#40

1,4-Dioxane

Concen: 8.722 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. 0.003 min

Lab File: VL043278.D

Acq: 24 Nov 2025 12:27

Tgt Ion: 88 Resp: 37926

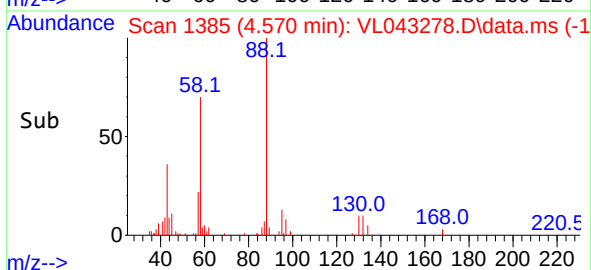
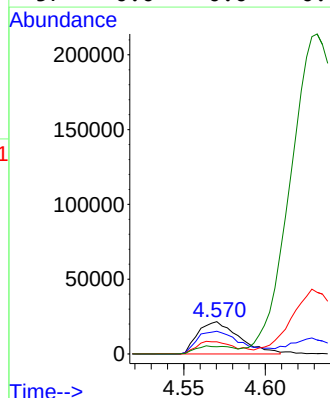
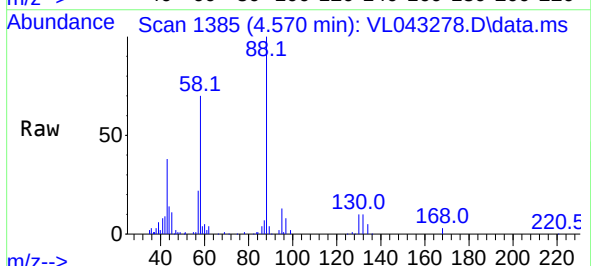
Ion Ratio Lower Upper

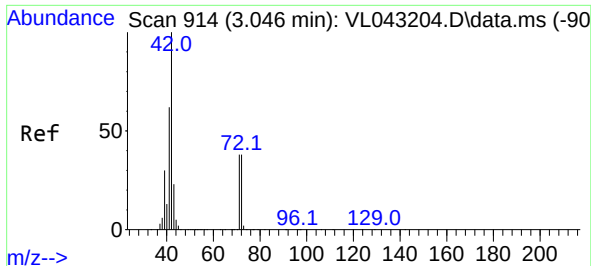
88 100

58 76.7 63.0 94.6

43 38.2 32.5 48.7

57 0.0 0.0 0.0





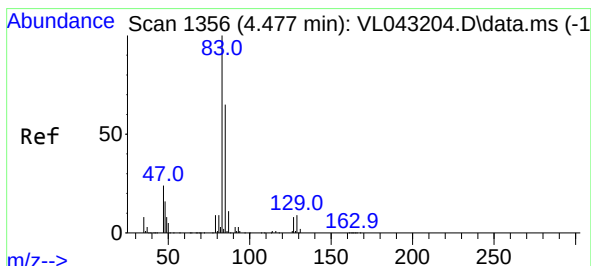
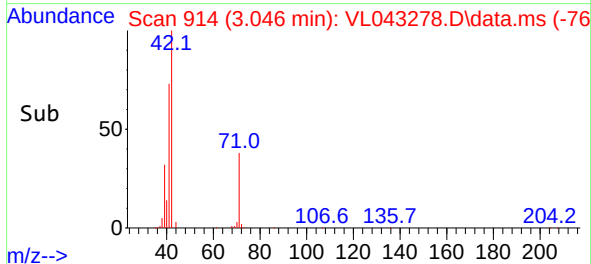
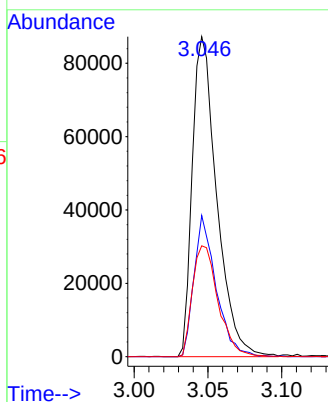
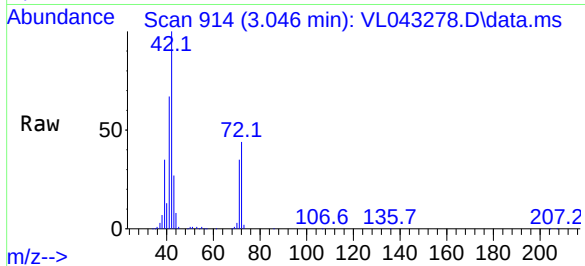
#41
Tetrahydrofuran
Concen: 9.370 ppbv
RT: 3.046 min Scan# 914
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 100800
Ion Ratio Lower Upper
42 100
72 39.9 30.6 46.0
71 36.4 30.5 45.7

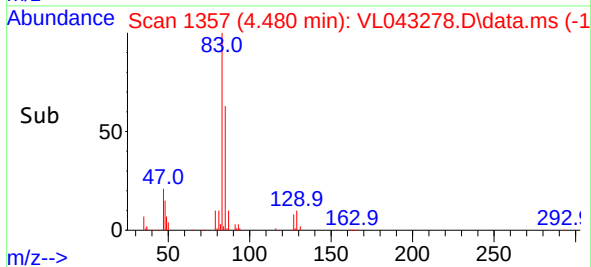
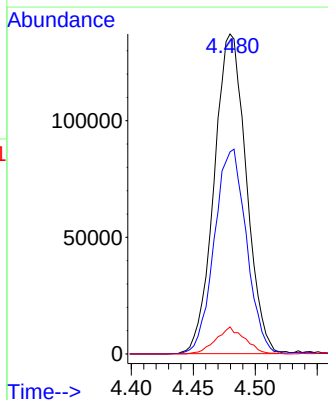
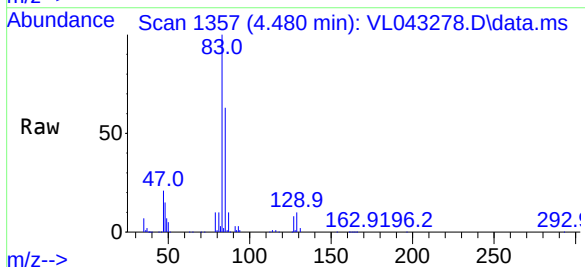
Manual Integrations
APPROVED

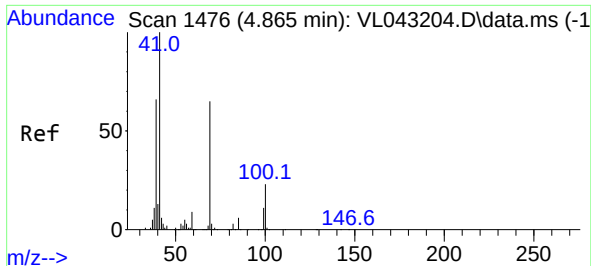
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#42
Bromodichloromethane
Concen: 11.593 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion: 83 Resp: 247223
Ion Ratio Lower Upper
83 100
85 63.1 51.7 77.5
127 8.4 6.3 9.5





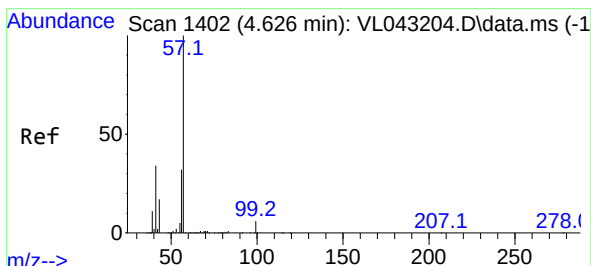
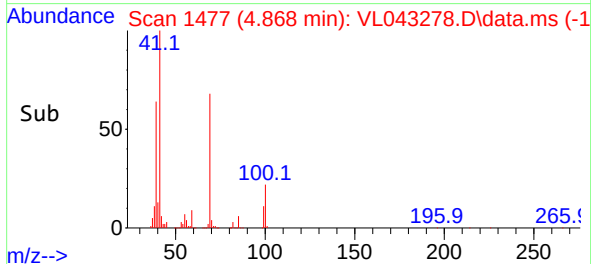
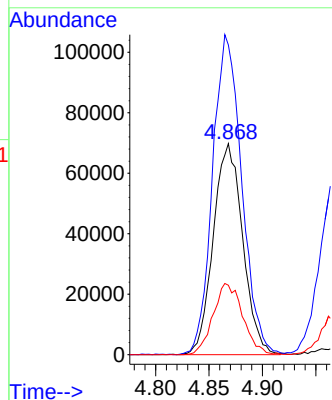
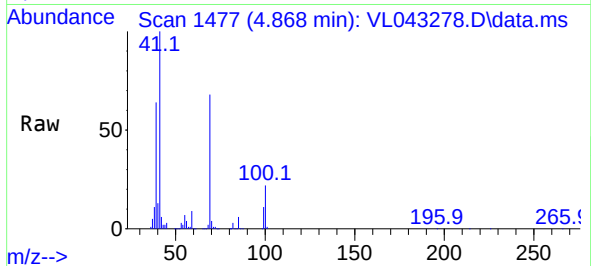
#43
Methyl Methacrylate
Concen: 9.538 ppbv
RT: 4.868 min Scan# 1476
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 13380
Ion Ratio Lower Upper
69 100
41 150.4 126.7 190.1
100 34.0 28.6 43.0

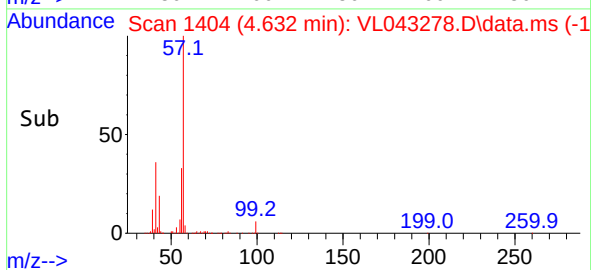
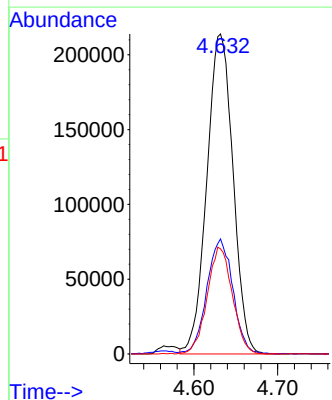
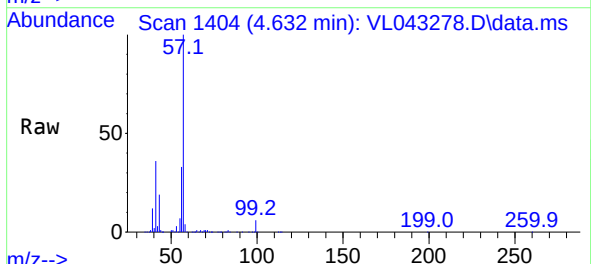
Manual Integrations
APPROVED

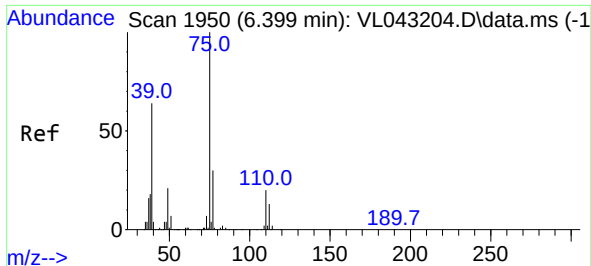
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#44
2,2,4-Trimethylpentane
Concen: 10.248 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion: 57 Resp: 465164
Ion Ratio Lower Upper
57 100
41 36.6 28.0 42.0
56 32.1 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 7.989 ppbv

RT: 6.405 min Scan# 1950

Delta R.T. 0.006 min

Lab File: VL043278.D

Acq: 24 Nov 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 75 Resp: 10447

Ion Ratio Lower Upper

75 100

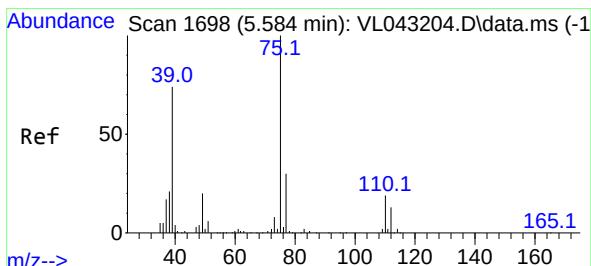
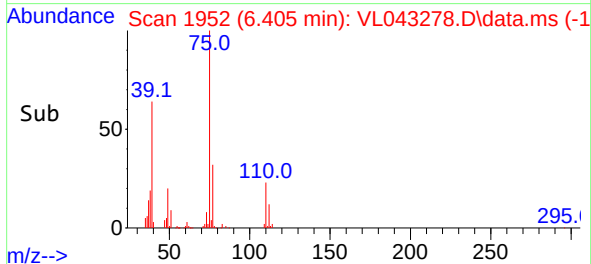
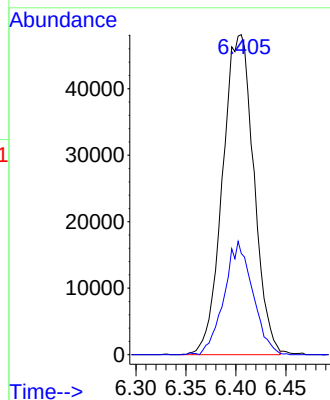
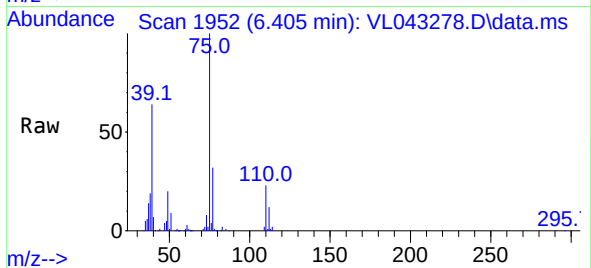
77 31.6 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#46

cis-1,3-Dichloropropene

Concen: 8.383 ppbv

RT: 5.590 min Scan# 1700

Delta R.T. 0.006 min

Lab File: VL043278.D

Acq: 24 Nov 2025 12:27

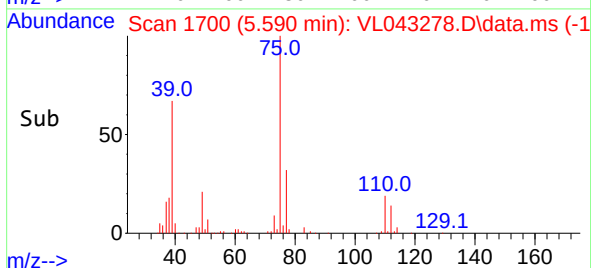
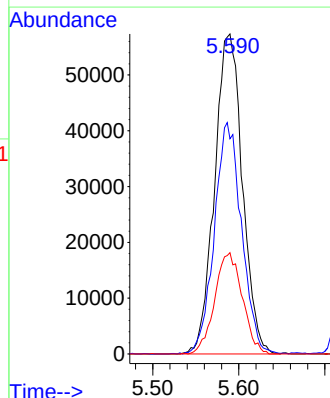
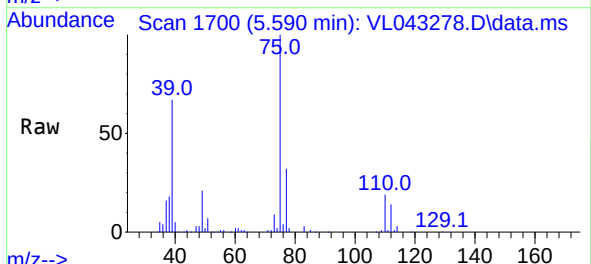
Tgt Ion: 75 Resp: 128727

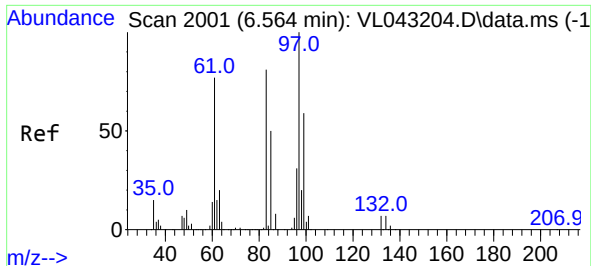
Ion Ratio Lower Upper

75 100

39 67.0 59.1 88.7

77 31.7 24.2 36.2





#47

1,1,2-Trichloroethane

Concen: 11.001 ppbv

RT: 6.567 min Scan# 2001

Delta R.T. 0.003 min

Lab File: VL043278.D

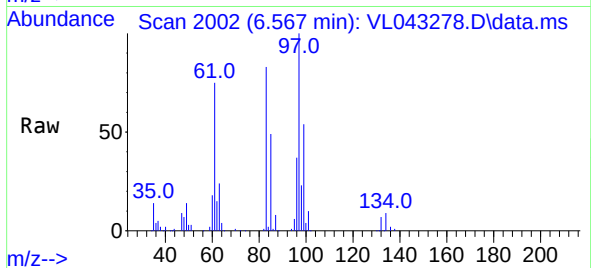
Acq: 24 Nov 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 97 Resp: 11292

Ion Ratio Lower Upper

97 100

83 83.5 64.6 97.0

85 48.7 39.4 59.2

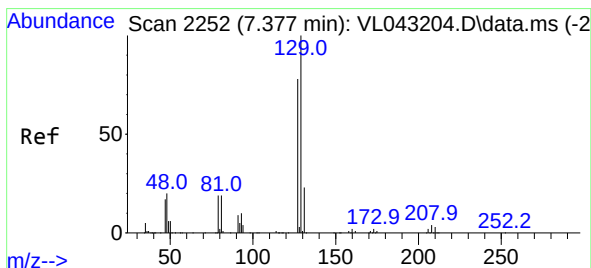
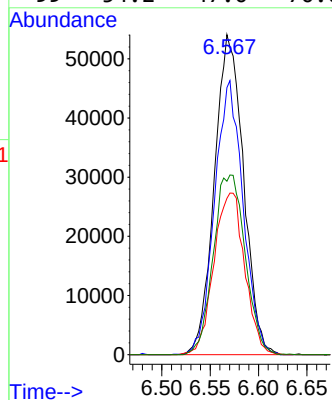
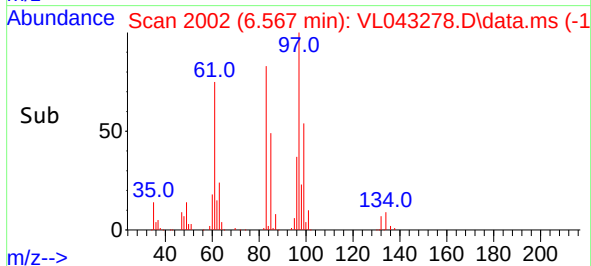
99 54.2 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#48

Dibromochloromethane

Concen: 11.578 ppbv

RT: 7.376 min Scan# 2252

Delta R.T. -0.000 min

Lab File: VL043278.D

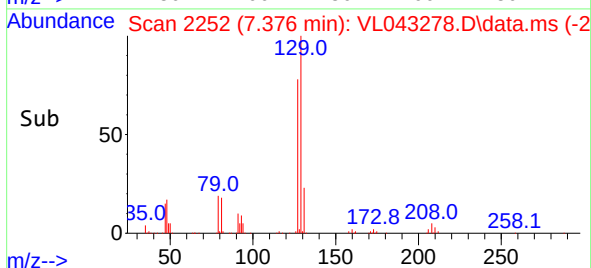
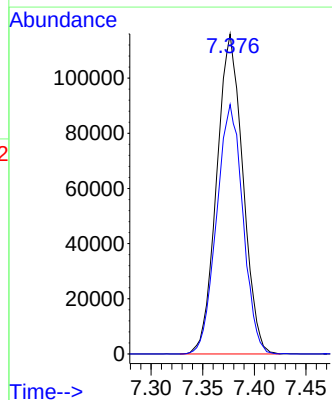
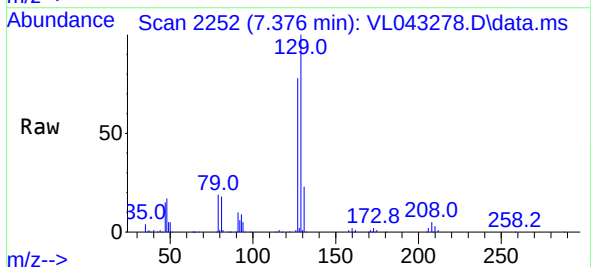
Acq: 24 Nov 2025 12:27

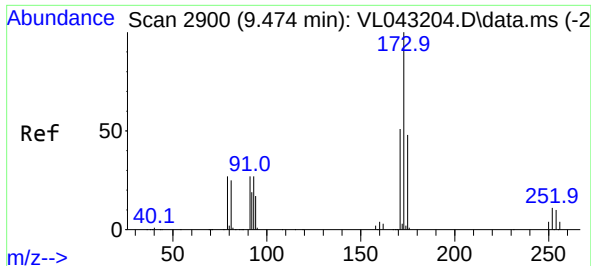
Tgt Ion:129 Resp: 204344

Ion Ratio Lower Upper

129 100

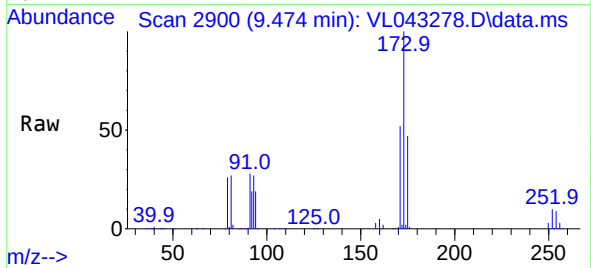
127 78.5 39.3 117.9





#49
Bromoform
Concen: 11.557 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

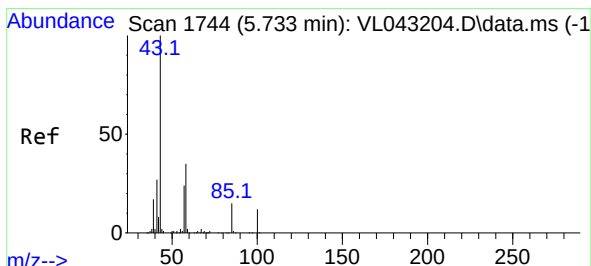
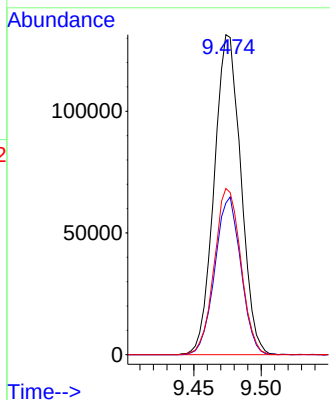
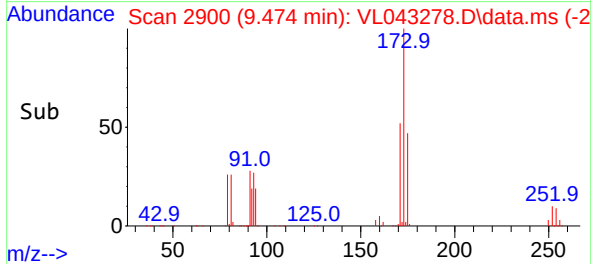
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



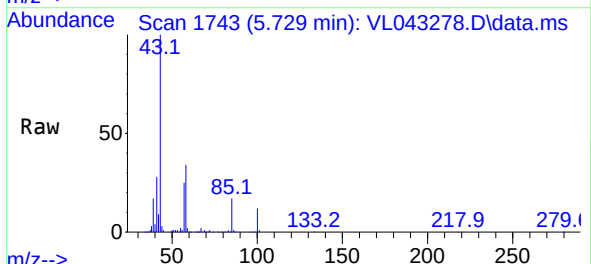
Tgt Ion:173 Resp: 180678
Ion Ratio Lower Upper
173 100
175 48.1 38.6 58.0
171 51.8 40.6 61.0

Manual Integrations
APPROVED

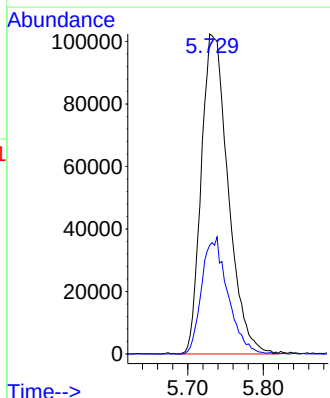
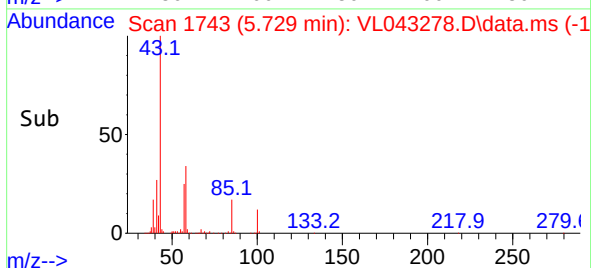
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

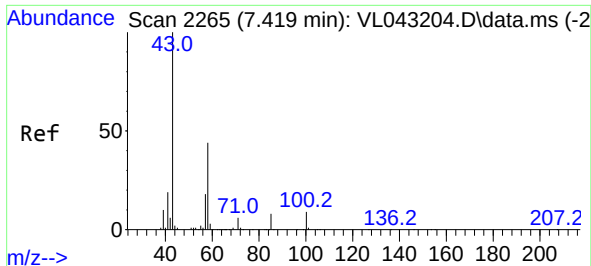


#50
4-Methyl-2-Pentanone
Concen: 9.209 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. -0.004 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



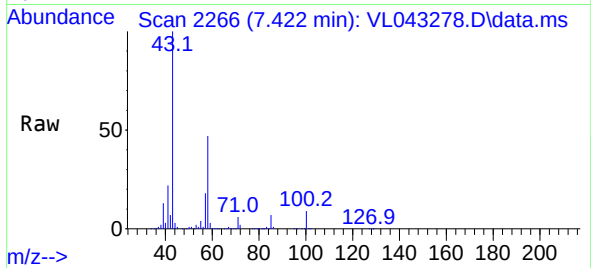
Tgt Ion: 43 Resp: 252700
Ion Ratio Lower Upper
43 100
58 35.4 28.4 42.6





#51
2-Hexanone
Concen: 8.608 ppbv
RT: 7.422 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

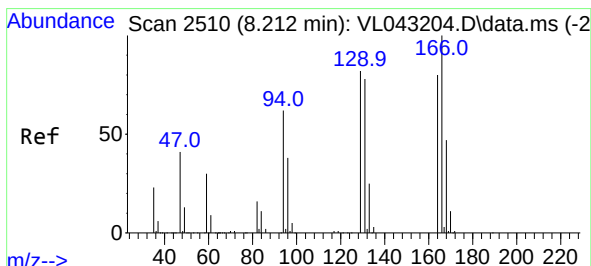
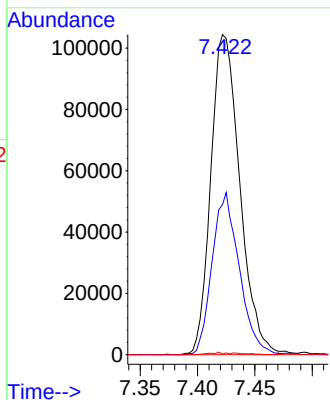
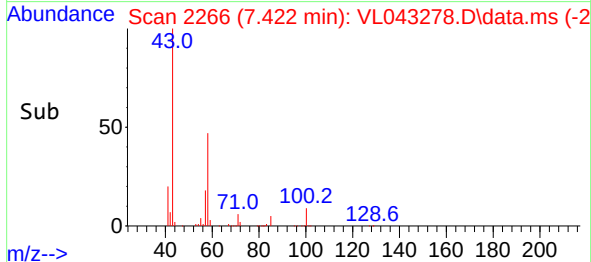
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



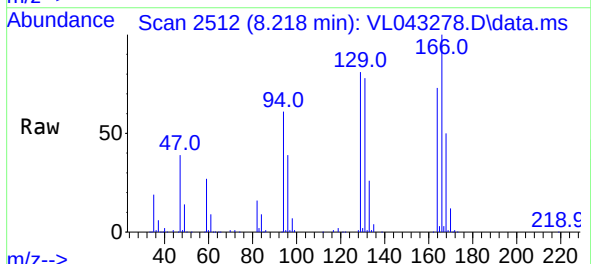
Tgt Ion: 43 Resp: 183438
Ion Ratio Lower Upper
43 100
58 47.6 38.4 57.6
98 0.7 0.0 0.0

Manual Integrations
APPROVED

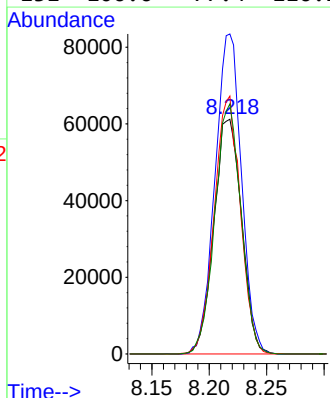
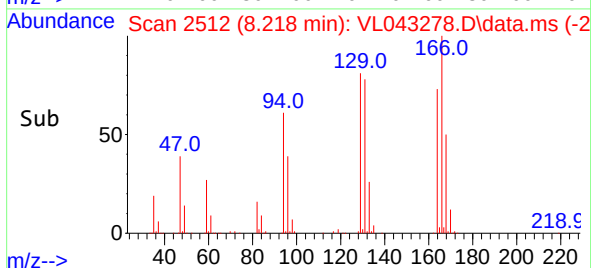
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

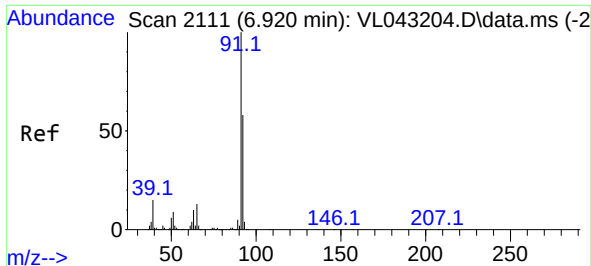


#52
Tetrachloroethene
Concen: 10.460 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



Tgt Ion:164 Resp: 102830
Ion Ratio Lower Upper
164 100
166 136.4 99.4 149.2
129 109.9 81.8 122.8
131 106.6 77.4 116.2





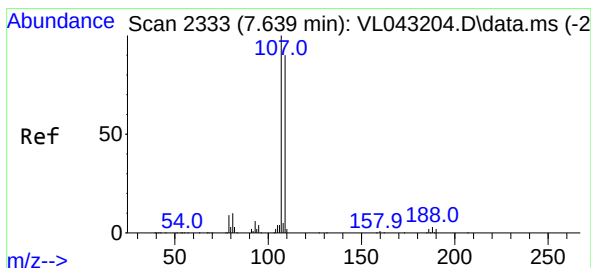
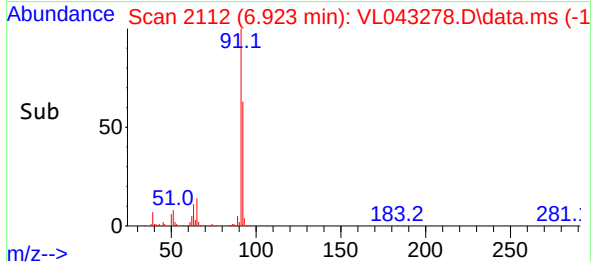
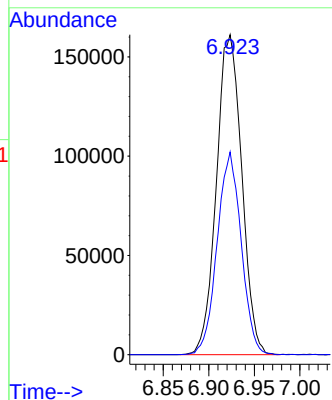
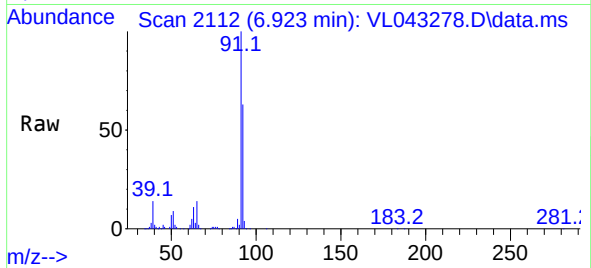
#53
Toluene
Concen: 9.979 ppbv
RT: 6.923 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 31229
Ion Ratio Lower Upper
91 100
92 60.1 47.4 71.0

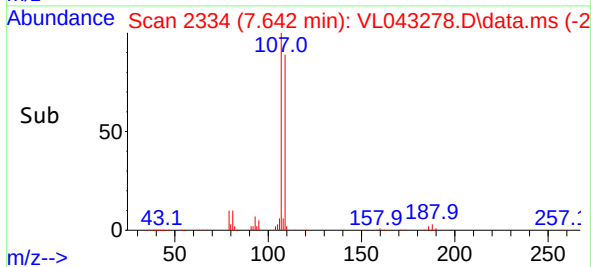
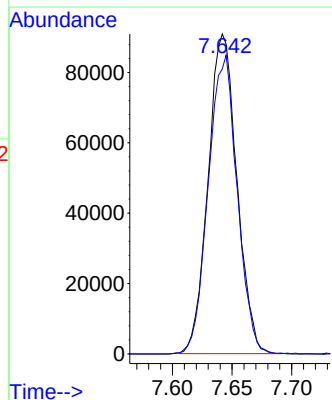
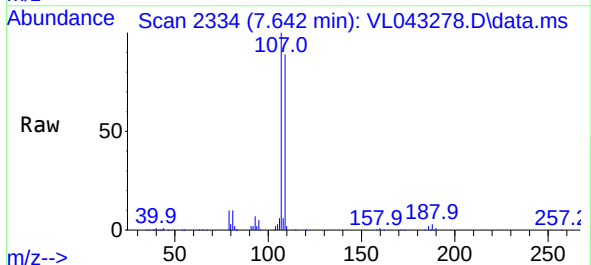
Manual Integrations
APPROVED

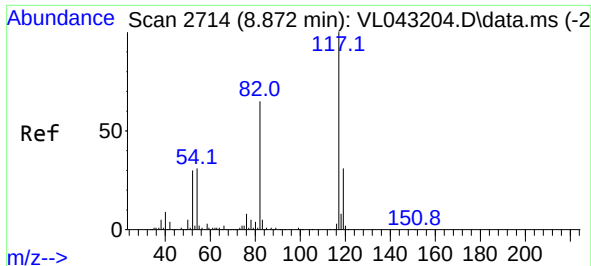
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#54
1,2-Dibromoethane
Concen: 10.090 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

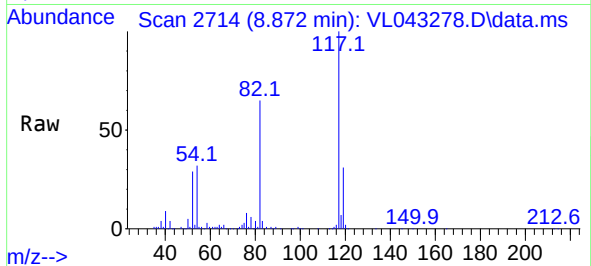
Tgt Ion:107 Resp: 152418
Ion Ratio Lower Upper
107 100
109 88.9 72.1 108.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21508
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

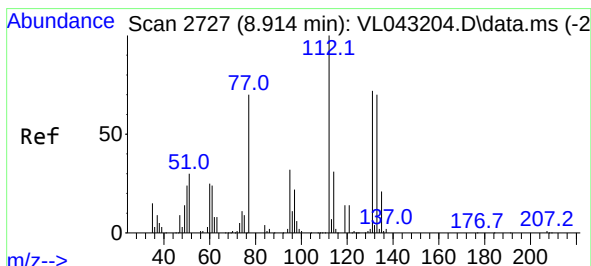
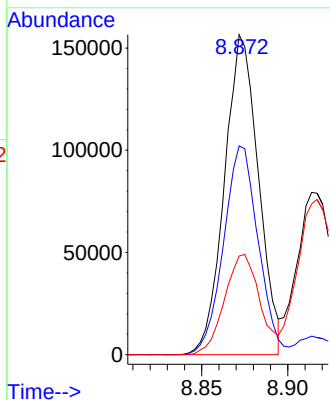
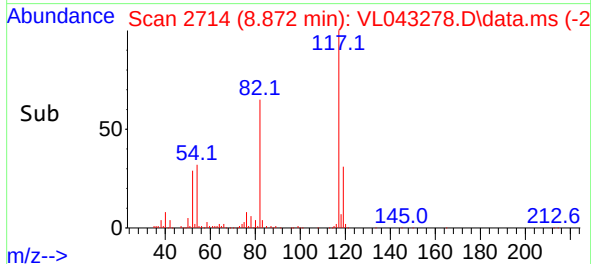
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



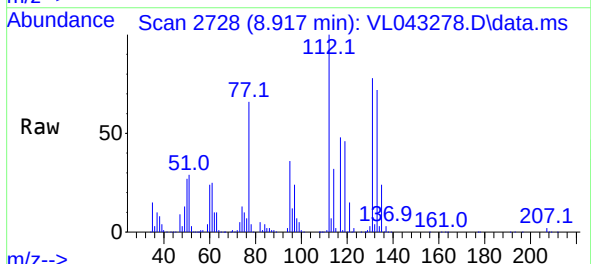
Tgt Ion:117 Resp: 21508
Ion Ratio Lower Upper
117 100
82 67.1 56.1 84.1
119 32.7 25.0 37.6

Manual Integrations
APPROVED

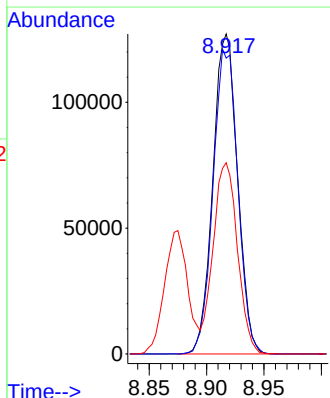
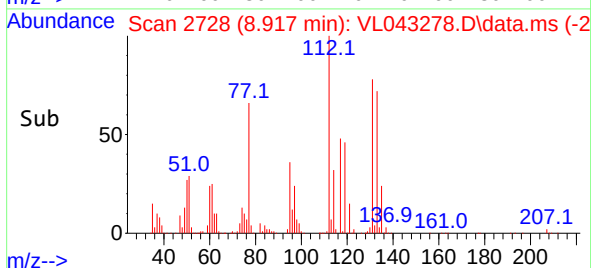
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

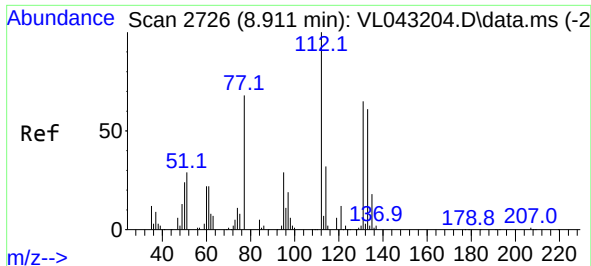


#56
1,1,1,2-Tetrachloroethane
Concen: 12.003 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



Tgt Ion:131 Resp: 189737
Ion Ratio Lower Upper
131 100
133 95.9 77.4 116.2
119 60.0 49.1 73.7





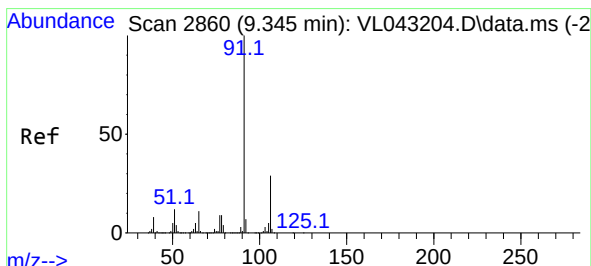
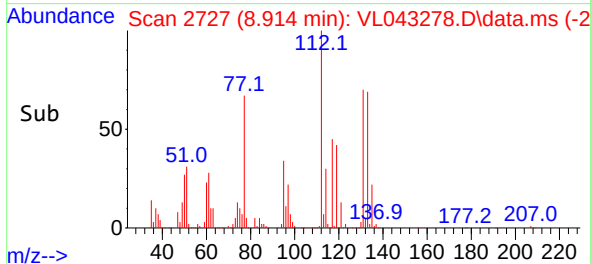
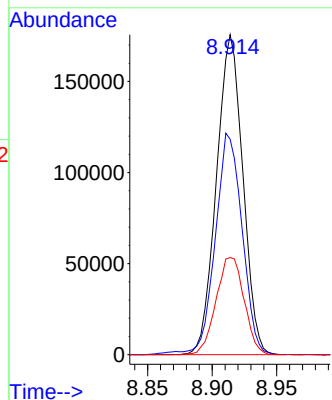
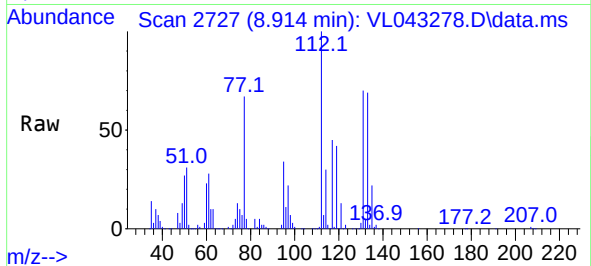
#57
Chlorobenzene
Concen: 11.300 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 112 Resp: 249540
Ion Ratio Lower Upper
112 100
77 67.3 55.5 83.3
114 30.3 29.1 35.5

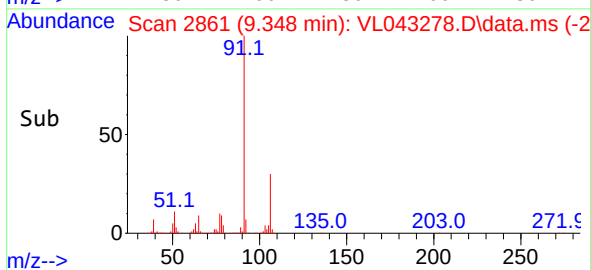
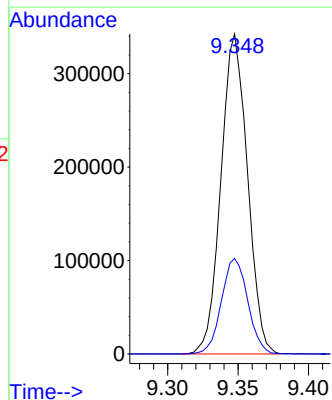
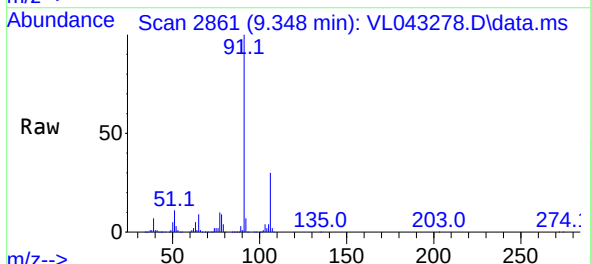
Manual Integrations
APPROVED

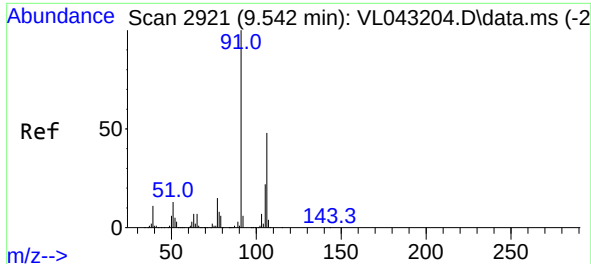
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#58
Ethyl Benzene
Concen: 10.843 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion: 91 Resp: 448888
Ion Ratio Lower Upper
91 100
106 29.8 22.8 34.2





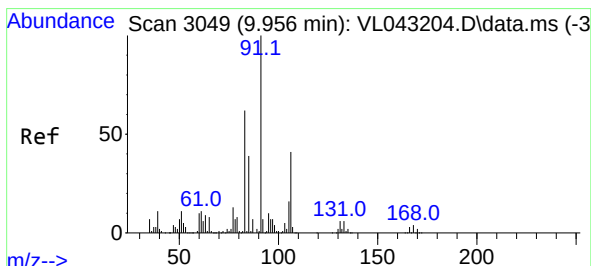
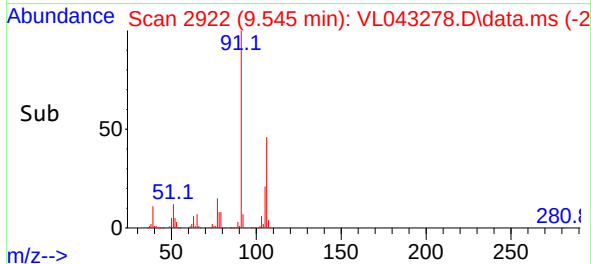
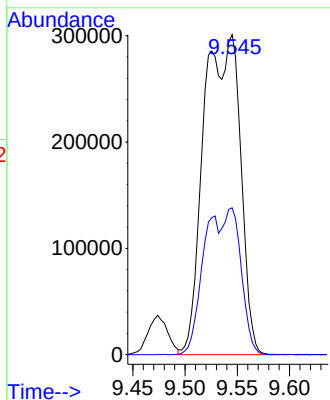
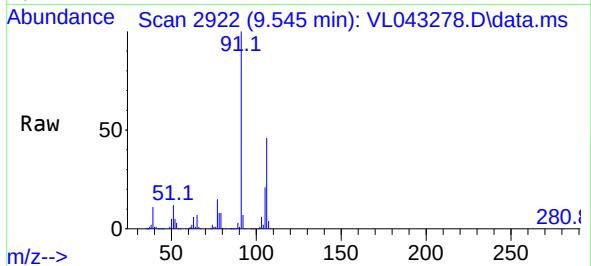
#59
m/p-Xylene
Concen: 22.175 ppbv m
RT: 9.545 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 73599
Ion Ratio Lower Upper
91 100
106 45.4 36.1 54.1

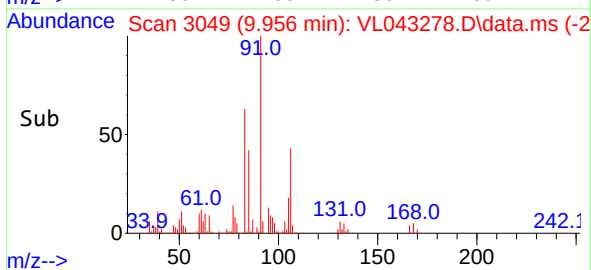
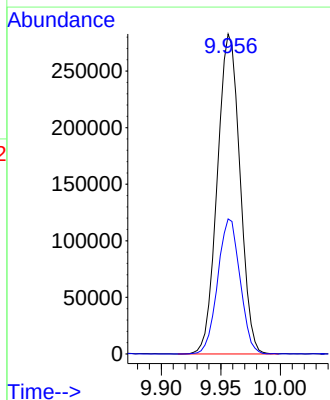
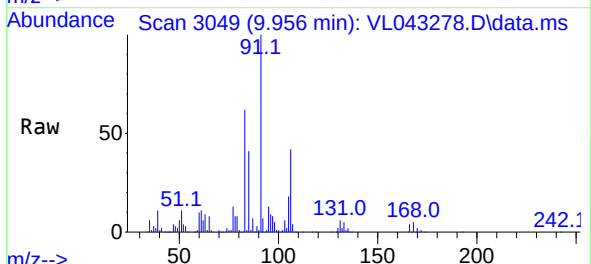
Manual Integrations
APPROVED

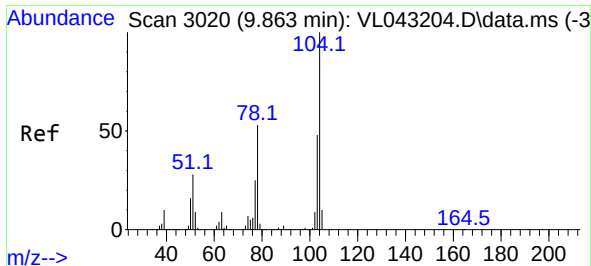
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#60
o-Xylene
Concen: 11.257 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion: 91 Resp: 373234
Ion Ratio Lower Upper
91 100
106 41.7 20.9 62.8





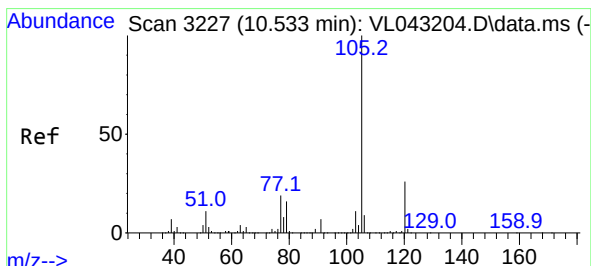
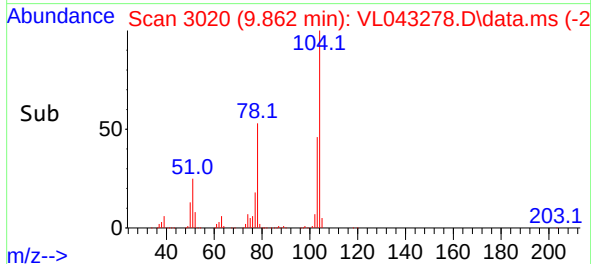
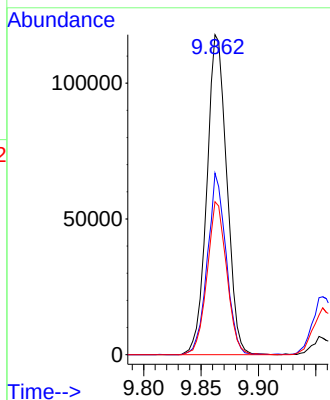
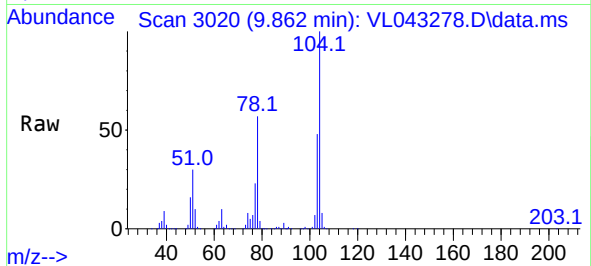
#61
Styrene
Concen: 9.812 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 142379
Ion Ratio Lower Upper
104 100
78 53.1 42.1 63.1
103 47.0 37.2 55.8

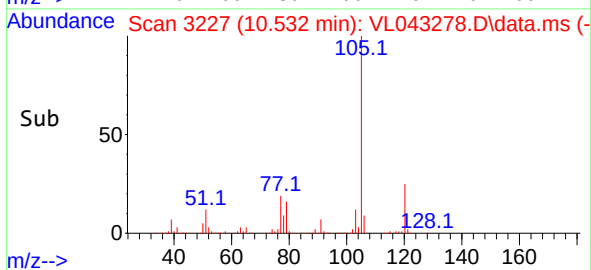
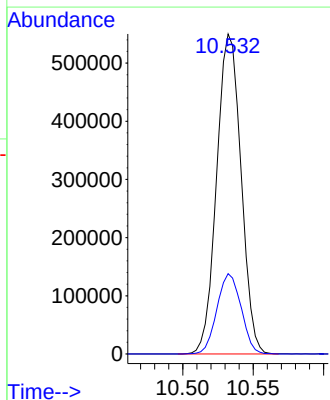
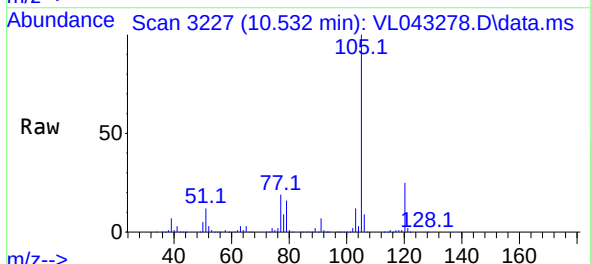
Manual Integrations
APPROVED

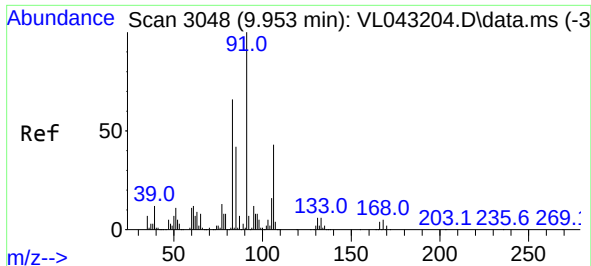
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#62
Isopropylbenzene
Concen: 11.180 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion:105 Resp: 663175
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





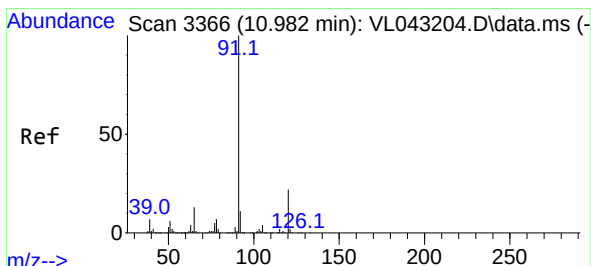
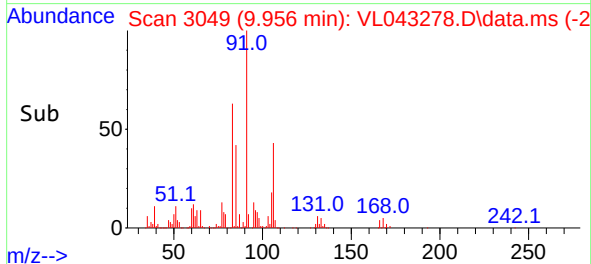
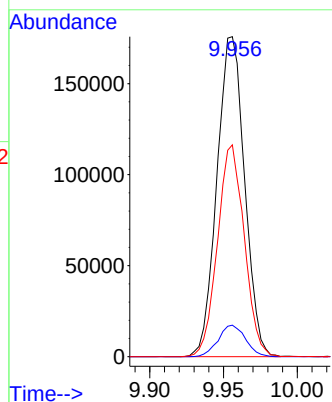
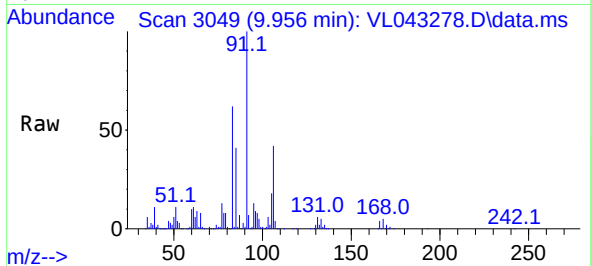
#63
1,1,2,2-Tetrachloroethane
Concen: 10.879 ppbv
RT: 9.956 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 22951
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 64.1 31.9 95.9

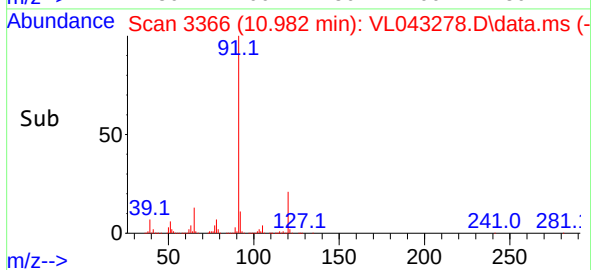
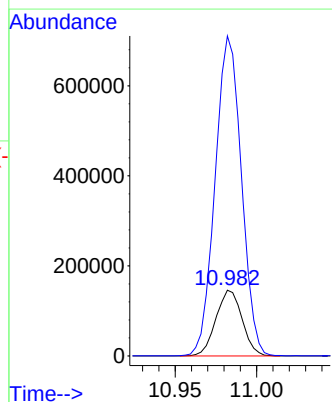
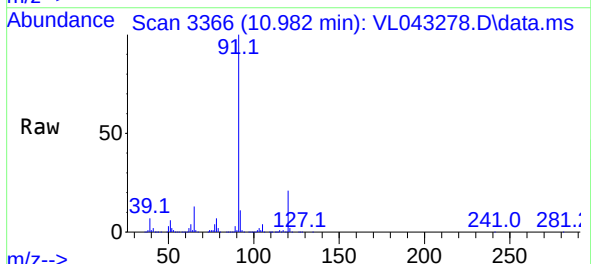
Manual Integrations
APPROVED

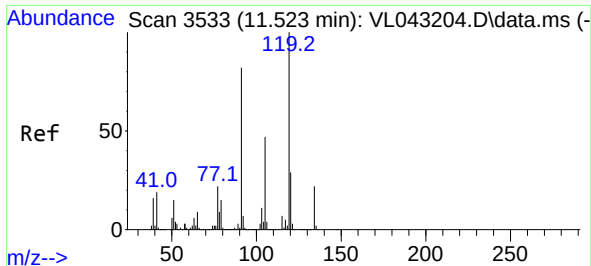
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#64
n-propylbenzene
Concen: 10.684 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion:120 Resp: 162848
Ion Ratio Lower Upper
120 100
91 489.6 377.1 565.7





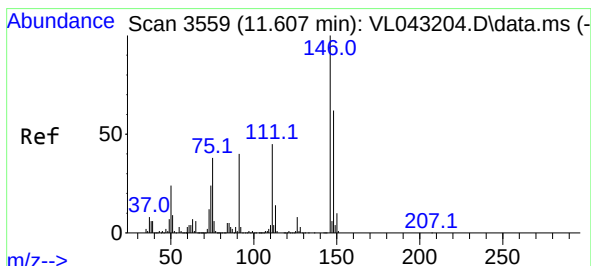
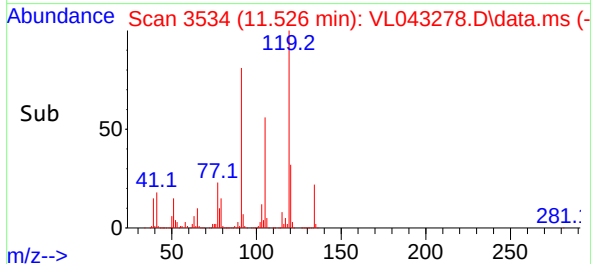
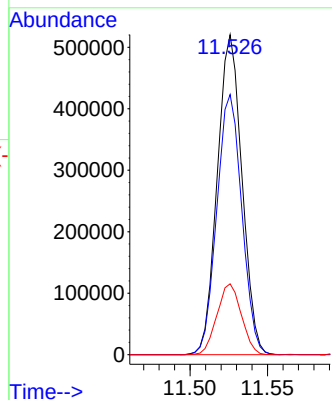
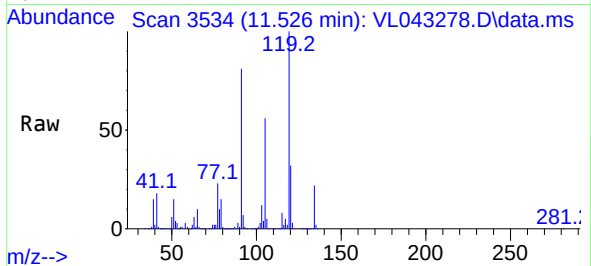
#65
tert-Butylbenzene
Concen: 10.867 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 575690
Ion Ratio Lower Upper
119 100
91 82.5 65.3 97.9
134 21.9 17.0 25.4

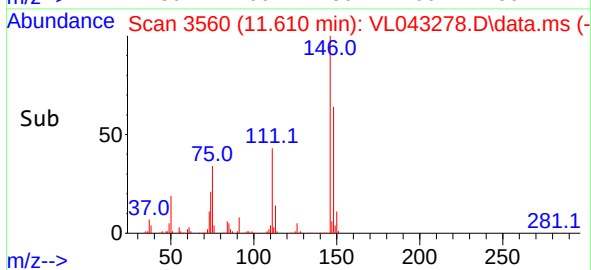
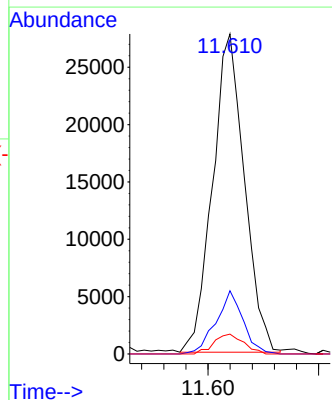
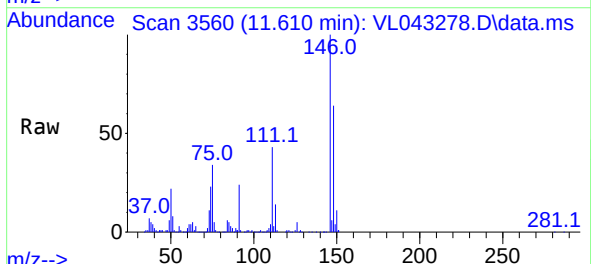
Manual Integrations
APPROVED

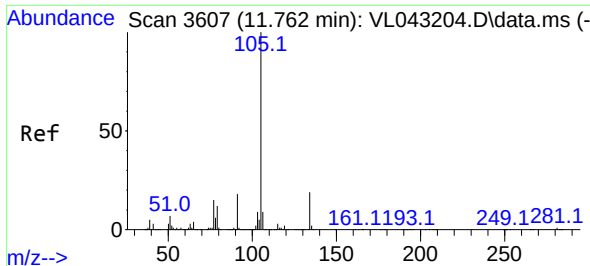
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#66
Benzyl Chloride
Concen: 5.163 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

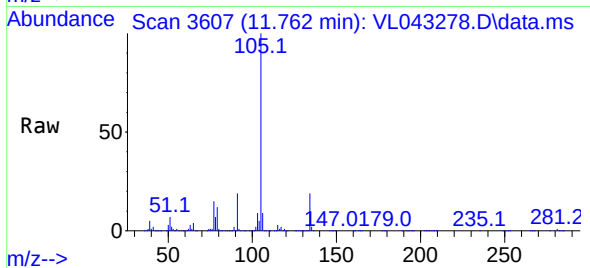
Tgt Ion: 91 Resp: 27757
Ion Ratio Lower Upper
91 100
126 16.9 14.4 21.6
128 5.9 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 10.929 ppbv
 RT: 11.762 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

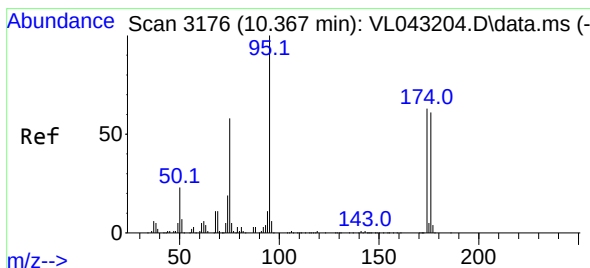
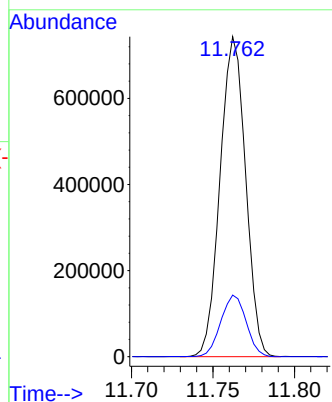
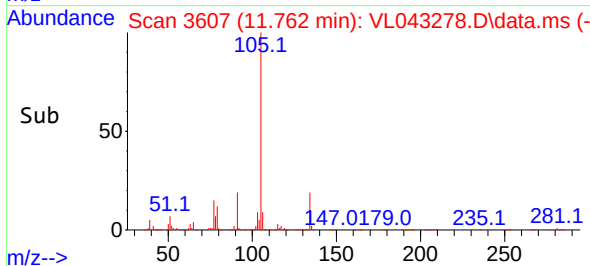
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



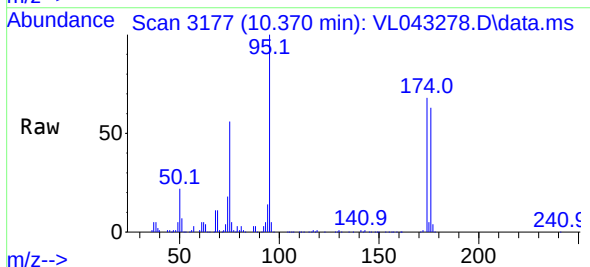
Tgt Ion:105 Resp: 808129
 Ion Ratio Lower Upper
 105 100
 134 19.2 15.0 22.6

Manual Integrations
 APPROVED

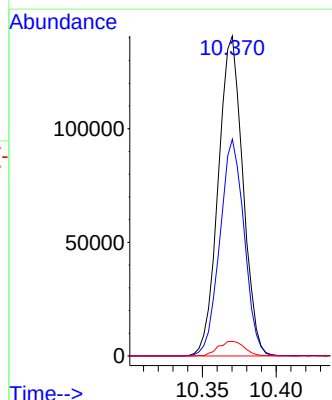
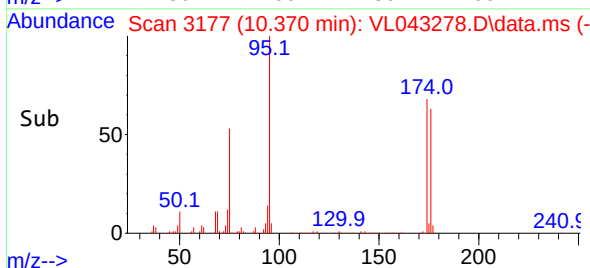
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

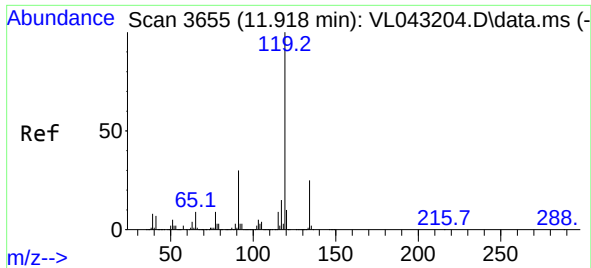


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.367 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27



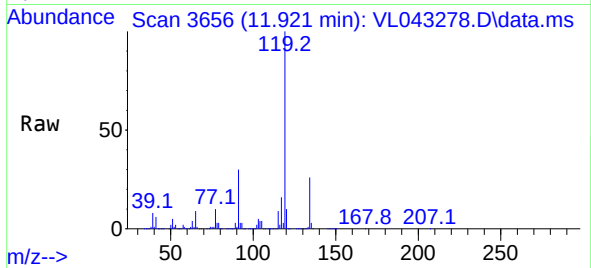
Tgt Ion: 95 Resp: 163444
 Ion Ratio Lower Upper
 95 100
 174 67.1 50.2 75.2
 175 5.0 4.1 6.1





#69
p-Isopropyltoluene
Concen: 10.623 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

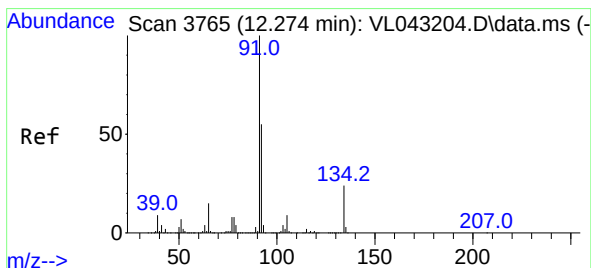
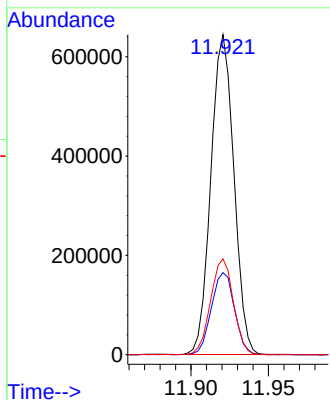
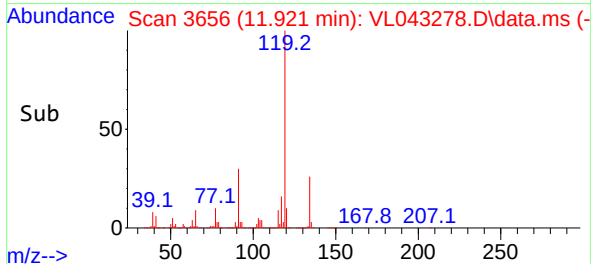
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



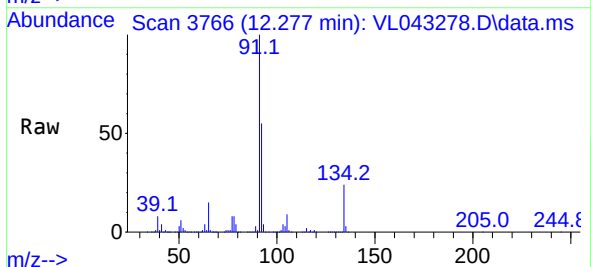
Tgt Ion:119 Resp: 66544
Ion Ratio Lower Upper
119 100
134 25.8 20.2 30.2
91 29.8 23.8 35.8

Manual Integrations
APPROVED

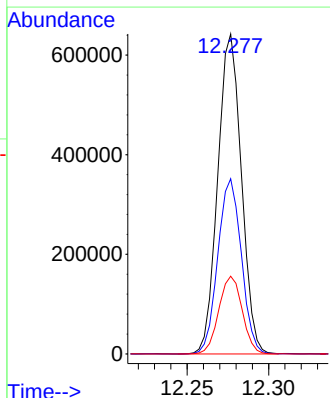
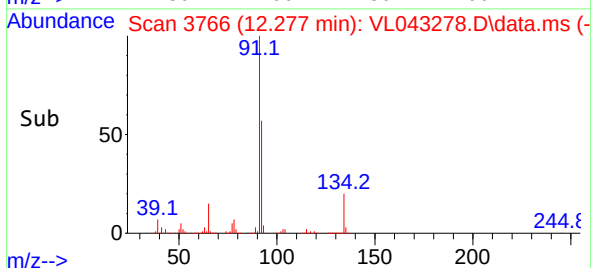
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

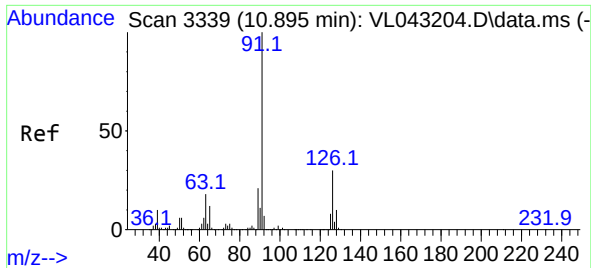


#70
n-Butylbenzene
Concen: 10.649 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



Tgt Ion: 91 Resp: 647136
Ion Ratio Lower Upper
91 100
92 54.6 43.5 65.3
134 24.1 19.0 28.6





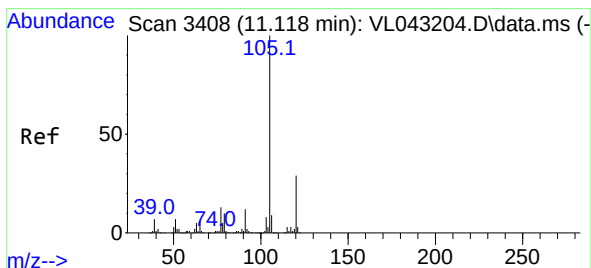
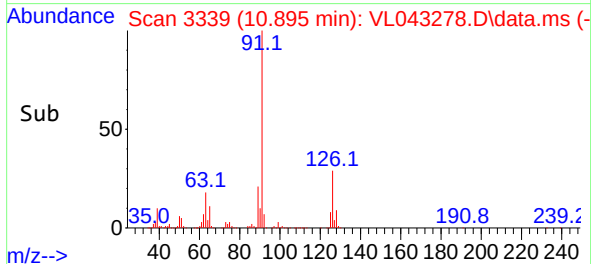
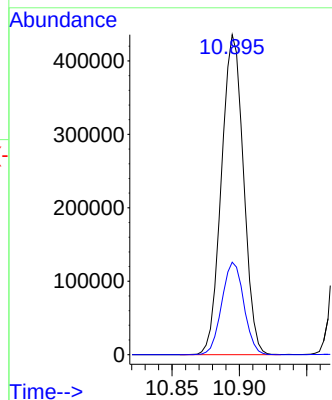
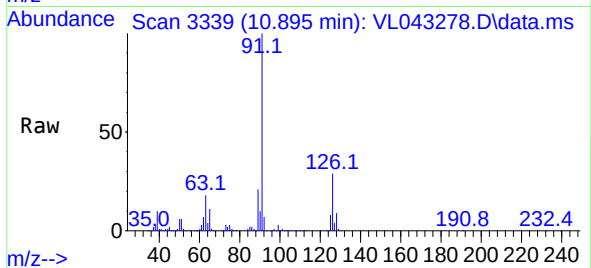
#71
2-Chlorotoluene
Concen: 10.867 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 49546
Ion Ratio Lower Upper
91 100
126 28.9 11.7 46.7

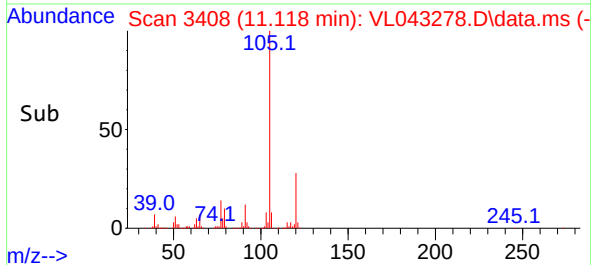
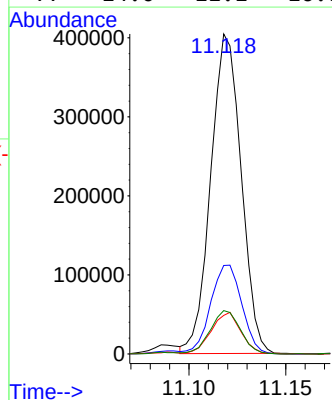
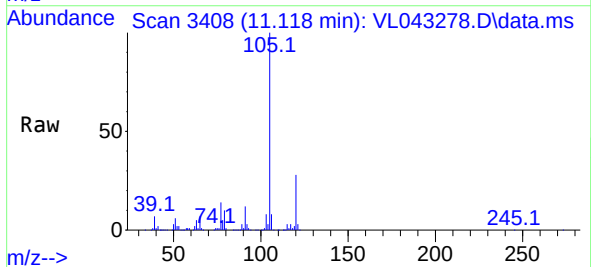
Manual Integrations
APPROVED

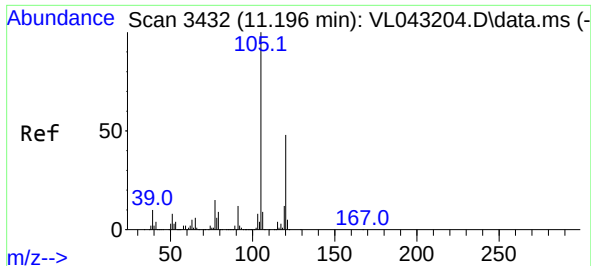
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#72
4-Ethyltoluene
Concen: 10.953 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Tgt Ion:105 Resp: 442267
Ion Ratio Lower Upper
105 100
120 29.3 23.8 35.8
91 13.2 10.3 15.5
77 14.0 11.1 16.7





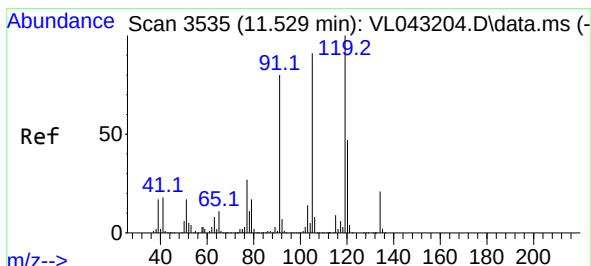
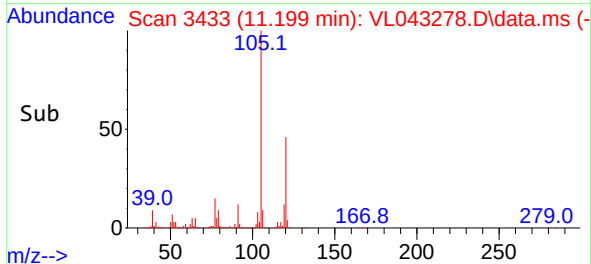
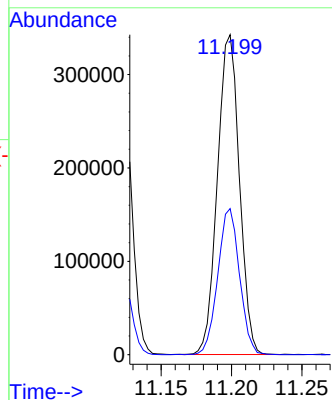
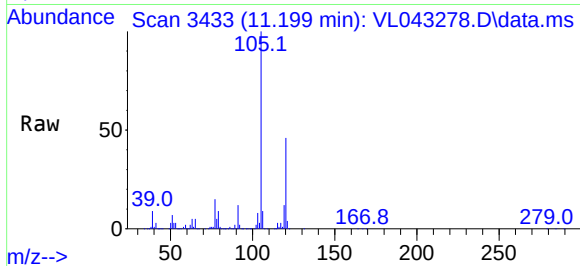
#73
1,3,5-Trimethylbenzene
Concen: 10.992 ppbv
RT: 11.199 min Scan# 3432
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 37247
Ion Ratio Lower Upper
105 100
120 45.7 38.6 57.8

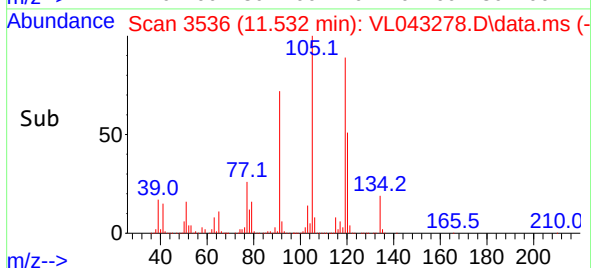
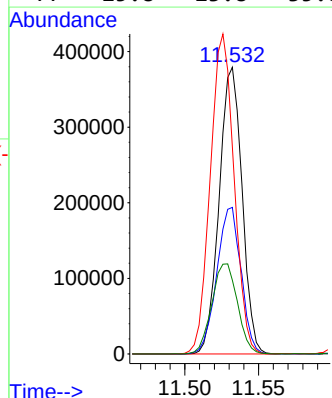
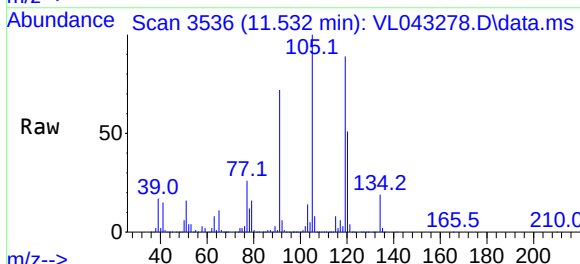
Manual Integrations
APPROVED

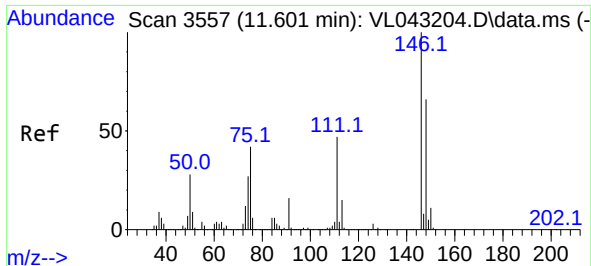
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 11.079 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

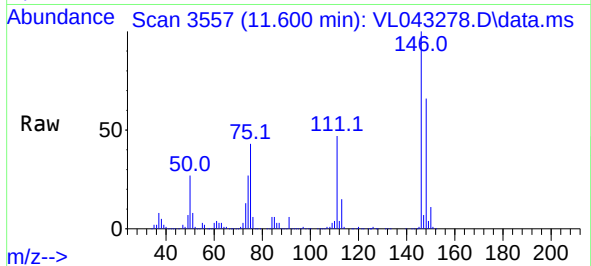
Tgt Ion:105 Resp: 409684
Ion Ratio Lower Upper
105 100
120 51.1 41.7 62.5
91 72.2 70.0 105.0
77 25.8 23.8 35.8





#75
1,3-Dichlorobenzene
Concen: 11.217 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

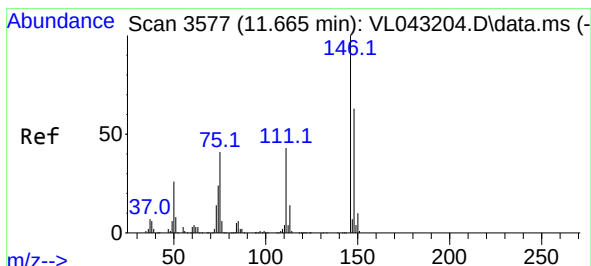
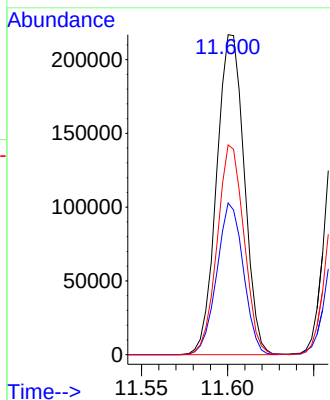
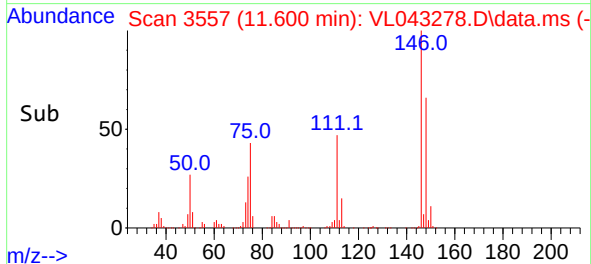
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



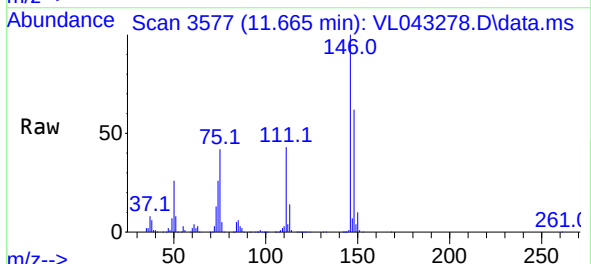
Tgt Ion:146 Resp: 242050
Ion Ratio Lower Upper
146 100
111 45.6 23.4 70.3
148 63.6 31.6 95.0

Manual Integrations
APPROVED

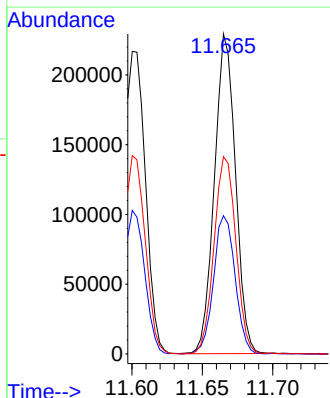
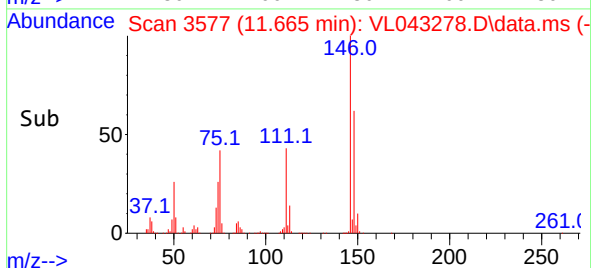
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

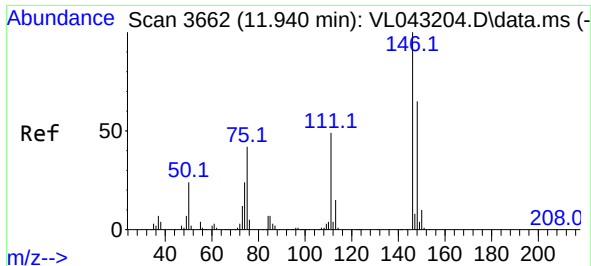


#76
1,4-Dichlorobenzene
Concen: 11.074 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



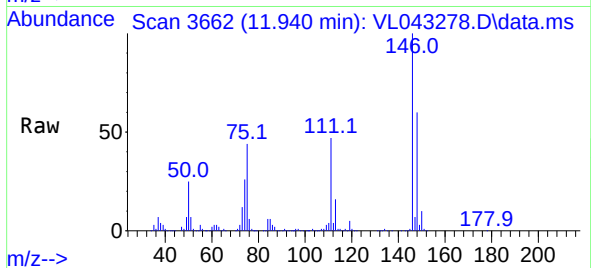
Tgt Ion:146 Resp: 239021
Ion Ratio Lower Upper
146 100
111 44.4 22.8 68.3
148 64.3 31.8 95.4





#77
1,2-Dichlorobenzene
Concen: 11.136 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

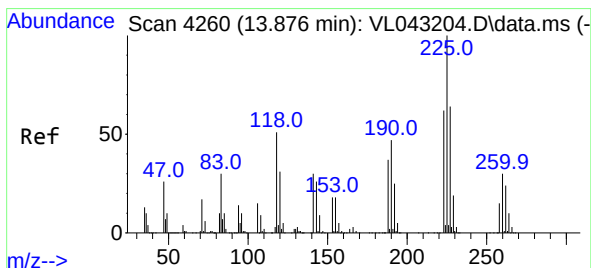
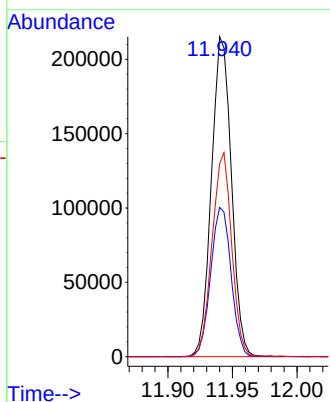
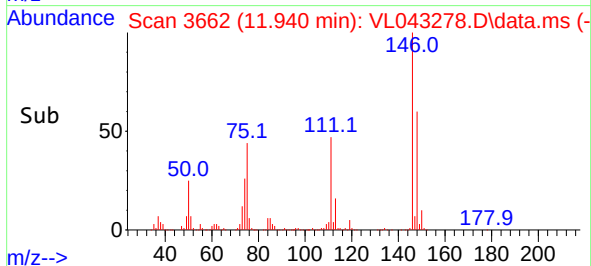
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



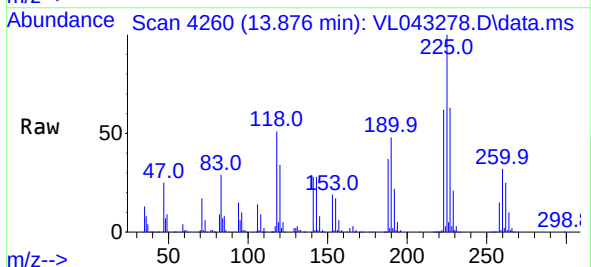
Tgt Ion:146 Resp: 231049
Ion Ratio Lower Upper
146 100
111 47.7 24.3 73.0
148 62.9 31.6 94.7

Manual Integrations
APPROVED

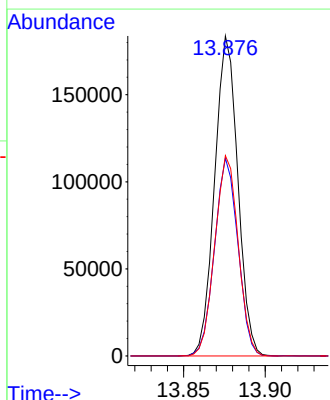
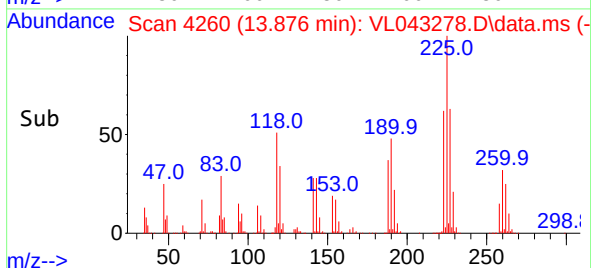
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

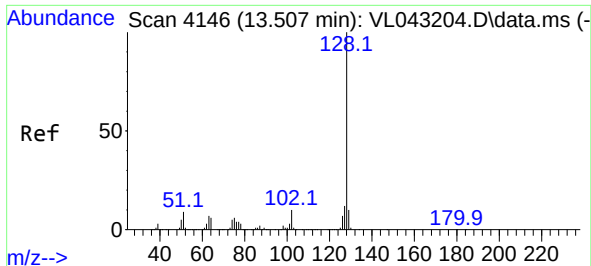


#78
Hexachloro-1,3-Butadiene
Concen: 10.468 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



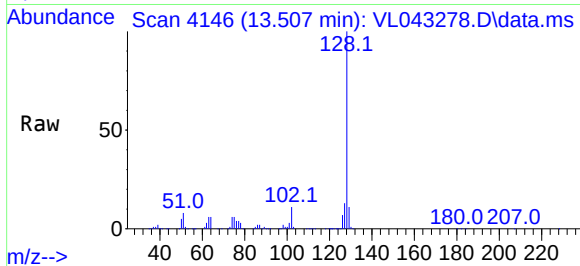
Tgt Ion:225 Resp: 181252
Ion Ratio Lower Upper
225 100
223 62.3 50.2 75.4
227 63.4 51.1 76.7





#79
Naphthalene
Concen: 10.351 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27

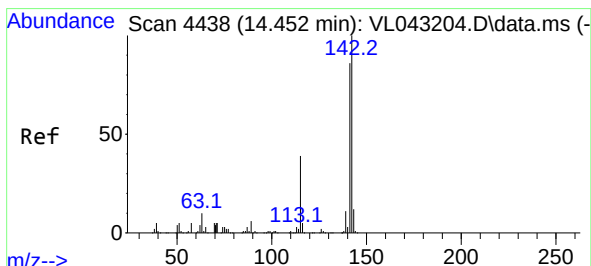
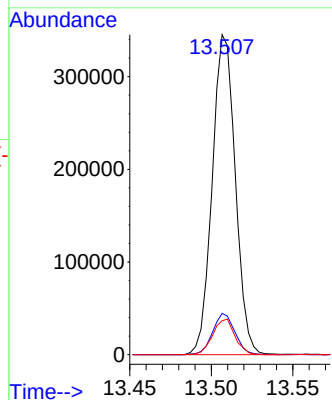
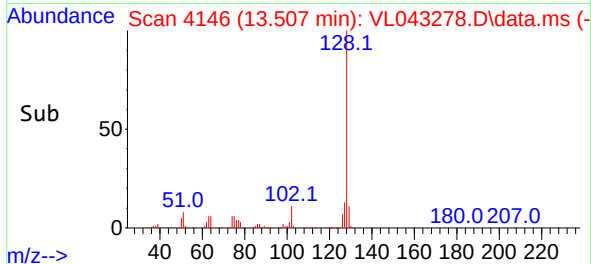
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



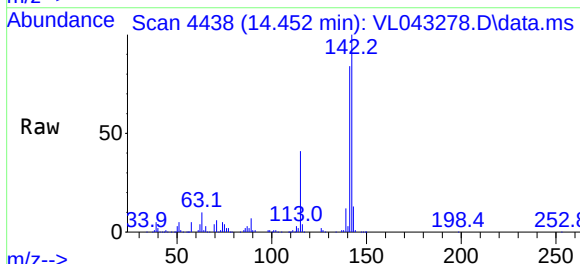
Tgt Ion:128 Resp: 33996
Ion Ratio Lower Upper
128 100
127 12.9 9.9 14.9
129 10.6 8.4 12.6

Manual Integrations
APPROVED

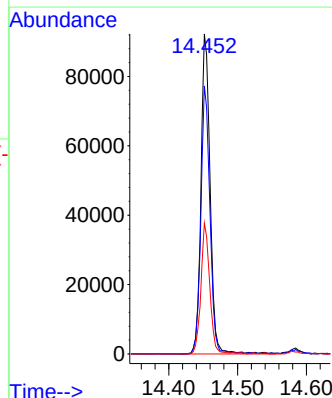
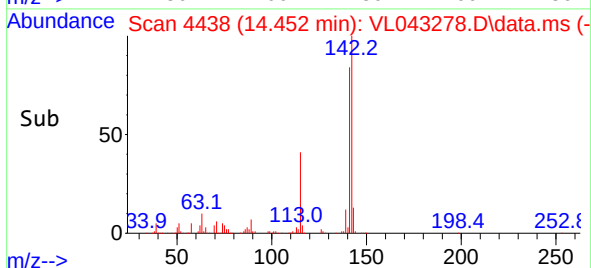
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

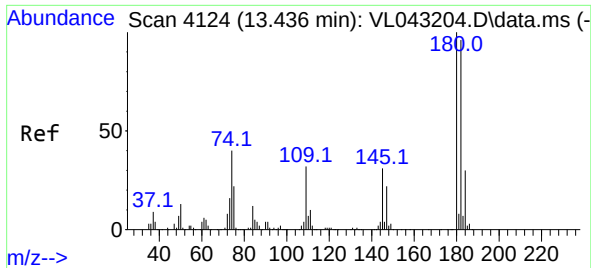


#80
Naphthalene,2-methyl-
Concen: 9.947 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043278.D
Acq: 24 Nov 2025 12:27



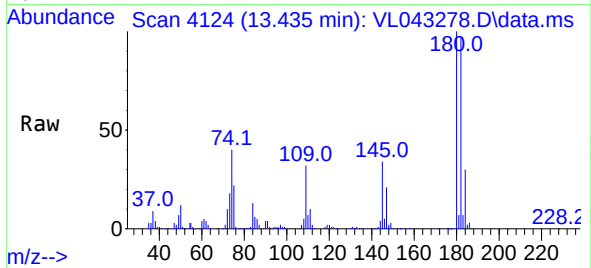
Tgt Ion:142 Resp: 85751
Ion Ratio Lower Upper
142 100
141 83.4 67.1 100.7
115 39.6 31.9 47.9





#81
 1,2,4-Trichlorobenzene
 Concen: 11.579 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043278.D
 Acq: 24 Nov 2025 12:27

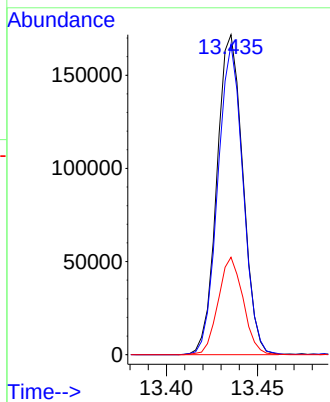
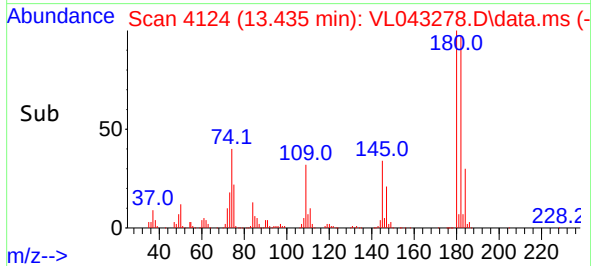
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 170083
 Ion Ratio Lower Upper
 180 100
 182 94.0 77.4 116.2
 184 29.2 24.2 36.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043278.D
 Acq On : 24 Nov 2025 12:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	1.410	1.549	-9.9	118	0.00
3	Chlorodifluoromethane	1.387	1.445	-4.2	112	0.00
4	Chloromethane	0.527	0.534	-1.3	109	0.00
5 T	Vinyl Chloride	0.577	0.536	7.1	112	0.00
6 T	Bromomethane	0.280	0.266	5.0	107	0.00
7	Chloroethane	0.225	0.220	2.2	116	0.00
8 T	Dichlorotetrafluoroethane	1.173	1.287	-9.7	120	0.00
9 T	Propene	0.589	0.566	3.9	115	0.00
10 T	Heptane	1.753	1.593	9.1	101	0.00
11 T	Trichlorofluoromethane	1.367	1.643	-20.2	135	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.067	1.219	-14.2	126	0.00
13	Ethanol	0.207	0.167	19.3	102	0.00
14 T	Bromoethene	0.409	0.444	-8.6	125	0.00
15 T	Acetone	1.389	1.171	15.7	116	0.00
16 T	1,3-Butadiene	0.619	0.603	2.6	112	0.00
17	tert-Butyl alcohol	1.824	1.756	3.7	105	0.00
18 T	1,1-Dichloroethene	0.497	0.536	-7.8	124	0.00
19 T	Isopropyl Alcohol	0.785	0.708	9.8	106	0.00
20 T	Methylene Chloride	0.600	0.489	18.5	125	0.00
21 T	Allyl Chloride	0.935	0.827	11.6	99	0.00
22 T	trans-1,2-Dichloroethene	0.568	0.600	-5.6	122	0.00
23 T	Vinyl Acetate	1.677	1.515	9.7	95	0.00
24 T	1,1-Dichloroethane	1.096	1.177	-7.4	118	0.00
25 T	Ethyl Acetate	2.996	2.830	5.5	104	0.00
26 T	Hexane	1.314	1.279	2.7	106	0.00
27 T	Carbon Disulfide	1.341	1.501	-11.9	122	0.00
28 T	Methyl tert-Butyl Ether	0.645	0.650	-0.8	112	0.00
29 T	Chloroform	1.867	2.175	-16.5	124	0.00
30 T	Cyclohexane	1.101	1.079	2.0	107	0.00
31 T	cis-1,2-Dichloroethene	1.306	1.344	-2.9	110	0.00
32 T	1,1,1-Trichloroethane	1.990	2.235	-12.3	121	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
34 T	2-Butanone	0.706	0.701	0.7	106	0.00
35 T	Carbon Tetrachloride	0.759	0.912	-20.2	125	0.00
36 T	Benzene	0.958	1.018	-6.3	109	0.00
37 T	1,2-Dichloroethane	0.560	0.652	-16.4	119	0.00
38 T	Trichloroethene	0.375	0.406	-8.3	112	0.00
39 T	1,2-Dichloropropane	0.351	0.365	-4.0	106	0.00
40 T	1,4-Dioxane	0.158	0.137	13.3	94	0.00
41 T	Tetrahydrofuran	0.390	0.365	6.4	97	0.00
42 T	Bromodichloromethane	0.773	0.896	-15.9	117	0.00
43	Methyl Methacrylate	0.508	0.485	4.5	102	0.00
44 T	2,2,4-Trimethylpentane	1.645	1.686	-2.5	105	0.00
45 T	t-1,3-Dichloropropene	0.474	0.379	20.0	81	0.00
46 T	cis-1,3-Dichloropropene	0.556	0.466	16.2	85	0.00
47 T	1,1,2-Trichloroethane	0.372	0.409	-9.9	116	0.00
48 T	Dibromochloromethane	0.640	0.740	-15.6	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043278.D
 Acq On : 24 Nov 2025 12:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	0.566	0.655	-15.7	115	0.00
50 T	4-Methyl-2-Pentanone	0.994	0.916	7.8	94	0.00
51 T	2-Hexanone	0.772	0.665	13.9	88	0.00
52 T	Tetrachloroethene	0.356	0.373	-4.8	110	0.00
53 T	Toluene	1.134	1.132	0.2	102	0.00
54 T	1,2-Dibromoethane	0.547	0.552	-0.9	102	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.735	0.882	-20.0	119	0.00
57 T	Chlorobenzene	1.027	1.160	-13.0	110	0.00
58 T	Ethyl Benzene	1.925	2.087	-8.4	105	0.00
59 T	m/p-Xylene	1.543	1.711	-10.9	109	0.00
60 T	o-Xylene	1.542	1.735	-12.5	112	0.00
61 T	Styrene	0.675	0.662	1.9	94	0.00
62	Isopropylbenzene	2.758	3.083	-11.8	111	0.00
63 T	1,1,2,2-Tetrachloroethane	0.981	1.067	-8.8	110	0.00
64	n-propylbenzene	0.709	0.757	-6.8	106	0.00
65	tert-Butylbenzene	2.463	2.677	-8.7	110	0.00
66 T	Benzyl Chloride	0.250	0.129	48.4#	49	0.00
67	sec-Butylbenzene	3.438	3.757	-9.3	111	0.00
68 S	1-Bromo-4-Fluorobenzene	0.733	0.760	-3.7	95	0.00
69	p-Isopropyltoluene	2.912	3.094	-6.2	107	0.00
70	n-Butylbenzene	2.825	3.009	-6.5	104	0.00
71	2-Chlorotoluene	2.120	2.304	-8.7	108	0.00
72 T	4-Ethyltoluene	1.877	2.056	-9.5	108	0.00
73 T	1,3,5-Trimethylbenzene	1.575	1.732	-10.0	109	0.00
74 T	1,2,4-Trimethylbenzene	1.719	1.905	-10.8	113	0.00
75 T	1,3-Dichlorobenzene	1.003	1.125	-12.2	110	0.00
76 T	1,4-Dichlorobenzene	1.003	1.111	-10.8	108	0.00
77 T	1,2-Dichlorobenzene	0.965	1.074	-11.3	113	0.00
78 T	Hexachloro-1,3-Butadiene	0.805	0.843	-4.7	113	0.00
79 T	Naphthalene	1.527	1.581	-3.5	97	0.00
80 T	Naphthalene,2-methyl-	0.401	0.399	0.5	92	0.00
81 T	1,2,4-Trichlorobenzene	0.683	0.791	-15.8	107	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043278.D
 Acq On : 24 Nov 2025 12:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	10.979	-9.8	118	0.00
3	Chlorodifluoromethane	10.000	10.414	-4.1	112	0.00
4	Chloromethane	10.000	10.121	-1.2	109	0.00
5 T	Vinyl Chloride	10.000	9.293	7.1	112	0.00
6 T	Bromomethane	10.000	9.512	4.9	107	0.00
7	Chloroethane	10.000	9.810	1.9	116	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.965	-9.6	120	0.00
9 T	Propene	10.000	9.606	3.9	115	0.00
10 T	Heptane	10.000	9.087	9.1	101	0.00
11 T	Trichlorofluoromethane	10.000	12.025	-20.3	135	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	11.423	-14.2	126	0.00
13	Ethanol	10.000	8.067	19.3	102	0.00
14 T	Bromoethene	10.000	10.850	-8.5	125	0.00
15 T	Acetone	10.000	8.427	15.7	116	0.00
16 T	1,3-Butadiene	10.000	9.736	2.6	112	0.00
17	tert-Butyl alcohol	10.000	9.630	3.7	105	0.00
18 T	1,1-Dichloroethene	10.000	10.790	-7.9	124	0.00
19 T	Isopropyl Alcohol	10.000	9.023	9.8	106	0.00
20 T	Methylene Chloride	10.000	12.108	-21.1	125	0.00
21 T	Allyl Chloride	10.000	8.844	11.6	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	10.566	-5.7	122	0.00
23 T	Vinyl Acetate	10.000	9.030	9.7	95	0.00
24 T	1,1-Dichloroethane	10.000	10.739	-7.4	118	0.00
25 T	Ethyl Acetate	10.000	9.443	5.6	104	0.00
26 T	Hexane	10.000	9.738	2.6	106	0.00
27 T	Carbon Disulfide	10.000	11.192	-11.9	122	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.075	-0.7	112	0.00
29 T	Chloroform	10.000	11.649	-16.5	124	0.00
30 T	Cyclohexane	10.000	9.793	2.1	107	0.00
31 T	cis-1,2-Dichloroethene	10.000	10.295	-2.9	110	0.00
32 T	1,1,1-Trichloroethane	10.000	11.230	-12.3	121	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	97	0.00
34 T	2-Butanone	10.000	9.925	0.7	106	0.00
35 T	Carbon Tetrachloride	10.000	12.019	-20.2	125	0.00
36 T	Benzene	10.000	10.634	-6.3	109	0.00
37 T	1,2-Dichloroethane	10.000	11.639	-16.4	119	0.00
38 T	Trichloroethene	10.000	10.832	-8.3	112	0.00
39 T	1,2-Dichloropropane	10.000	10.423	-4.2	106	0.00
40 T	1,4-Dioxane	10.000	8.722	12.8	94	0.00
41 T	Tetrahydrofuran	10.000	9.370	6.3	97	0.00
42 T	Bromodichloromethane	10.000	11.593	-15.9	117	0.00
43	Methyl Methacrylate	10.000	9.538	4.6	102	0.00
44 T	2,2,4-Trimethylpentane	10.000	10.248	-2.5	105	0.00
45 T	t-1,3-Dichloropropene	10.000	7.989	20.1	81	0.00
46 T	cis-1,3-Dichloropropene	10.000	8.383	16.2	85	0.00
47 T	1,1,2-Trichloroethane	10.000	11.001	-10.0	116	0.00
48 T	Dibromochloromethane	10.000	11.578	-15.8	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043278.D
 Acq On : 24 Nov 2025 12:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	11.557	-15.6	115	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.209	7.9	94	0.00
51 T	2-Hexanone	10.000	8.608	13.9	88	0.00
52 T	Tetrachloroethene	10.000	10.460	-4.6	110	0.00
53 T	Toluene	10.000	9.979	0.2	102	0.00
54 T	1,2-Dibromoethane	10.000	10.090	-0.9	102	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	12.003	-20.0	119	0.00
57 T	Chlorobenzene	10.000	11.300	-13.0	110	0.00
58 T	Ethyl Benzene	10.000	10.843	-8.4	105	0.00
59 T	m/p-Xylene	20.000	22.175	-10.9	109	0.00
60 T	o-Xylene	10.000	11.257	-12.6	112	0.00
61 T	Styrene	10.000	9.812	1.9	94	0.00
62	Isopropylbenzene	10.000	11.180	-11.8	111	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.879	-8.8	110	0.00
64	n-propylbenzene	10.000	10.684	-6.8	106	0.00
65	tert-Butylbenzene	10.000	10.867	-8.7	110	0.00
66 T	Benzyl Chloride	10.000	5.163	48.4#	49	0.00
67	sec-Butylbenzene	10.000	10.929	-9.3	111	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.367	-3.7	95	0.00
69	p-Isopropyltoluene	10.000	10.623	-6.2	107	0.00
70	n-Butylbenzene	10.000	10.649	-6.5	104	0.00
71	2-Chlorotoluene	10.000	10.867	-8.7	108	0.00
72 T	4-Ethyltoluene	10.000	10.953	-9.5	108	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.992	-9.9	109	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.079	-10.8	113	0.00
75 T	1,3-Dichlorobenzene	10.000	11.217	-12.2	110	0.00
76 T	1,4-Dichlorobenzene	10.000	11.074	-10.7	108	0.00
77 T	1,2-Dichlorobenzene	10.000	11.136	-11.4	113	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	10.468	-4.7	113	0.00
79 T	Naphthalene	10.000	10.351	-3.5	97	0.00
80 T	Naphthalene,2-methyl-	10.000	9.947	0.5	92	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.579	-15.8	107	0.00

(#) = Out of Range

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



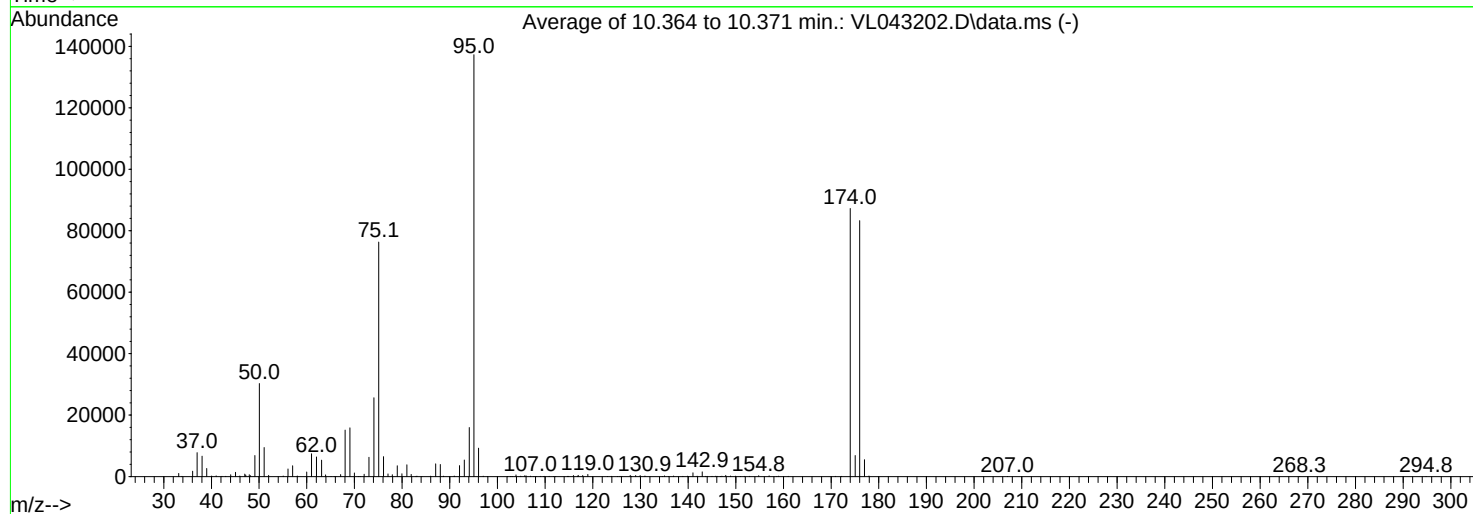
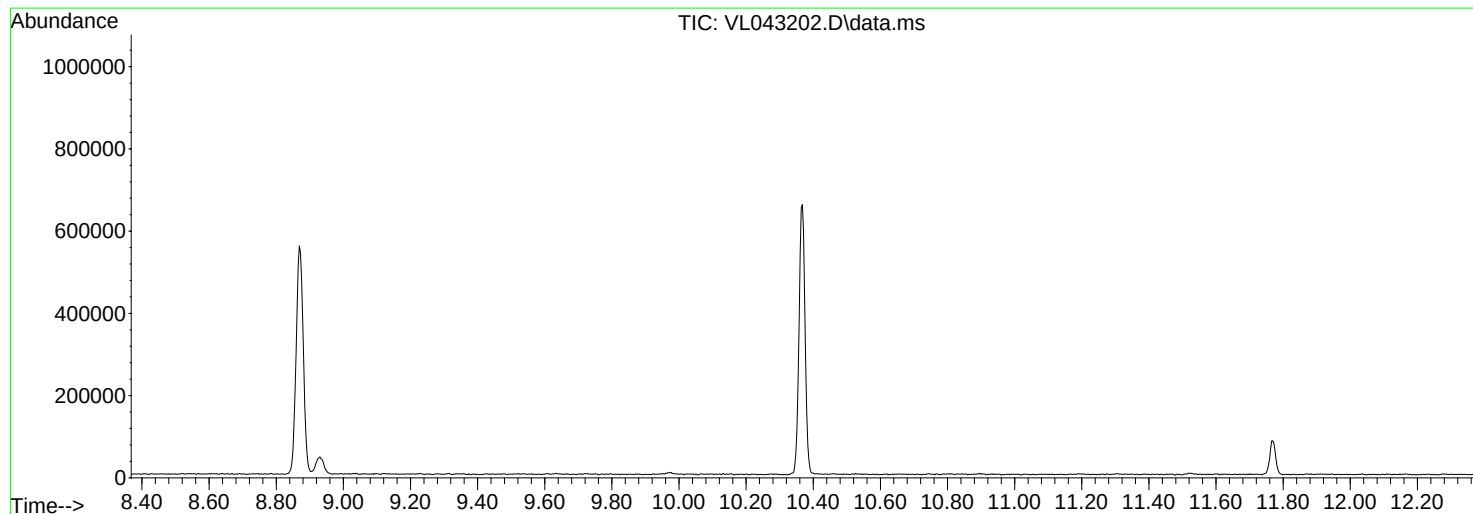
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043202.D
Acq On : 18 Nov 2025 08:46
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\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	30285	PASS
75	95	30	66	55.6	76296	PASS
95	95	100	100	100.0	137266	PASS
96	95	5	9	6.7	9227	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.6	87269	PASS
175	174	4	9	7.8	6847	PASS
176	174	93	101	95.5	83301	PASS
177	176	5	9	6.6	5509	PASS

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	1017	45.05	1373	56.05	2485	67.10	650
33.80	90	45.95	190	57.05	3511	68.05	1515
36.05	1728	47.00	799	58.00	209	69.05	1587
37.00	7775	47.20	474	60.00	1493	70.00	1182
38.05	6647	47.95	600	61.00	7430	70.90	18
39.00	2637	48.20	316	62.05	6404	71.20	48
40.05	176	49.10	6876	63.10	5348	72.05	772
41.00	228	50.05	30285	63.95	548	73.05	6279
42.20	99	51.05	9432	65.10	18	74.10	25637
43.00	63	52.00	422	65.75	54	75.10	76296
44.05	598	55.05	162	66.10	23	76.10	6470

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	853	88.00	3931	102.80	24	109.85	96
77.95	601	88.70	128	103.10	20	110.85	101
79.00	3536	90.95	202	103.90	564	111.80	44
79.95	911	92.05	3581	104.90	156	112.20	28
81.00	3819	93.05	5411	105.75	294	114.70	70
81.90	690	94.10	15989	106.00	240	114.95	67
82.90	77	95.05	137266	106.95	132	115.95	360
83.10	136	96.05	9227	107.65	48	116.80	153
84.15	40	97.00	116	108.10	27	116.95	414
86.00	131	97.90	24	109.00	61	117.90	356
87.05	4162	102.10	22	109.70	38	118.95	710

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.10	19	135.05	222	145.80	142	157.00	250
123.90	99	135.90	30	146.10	100	158.60	28
125.20	19	136.95	182	146.80	34	159.00	120
125.70	56	138.90	65	147.10	127	161.00	78
126.10	58	139.90	157	147.90	406	170.90	87
127.85	394	141.00	1242	148.90	165	172.20	73
128.10	59	141.90	141	149.95	156	174.00	87269
129.00	325	142.95	1524	151.00	22	175.05	6847
129.95	344	143.70	75	151.80	76	176.00	83301
130.95	175	144.00	78	152.90	62	177.00	5509
134.60	21	145.00	87	154.80	296	177.95	166

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

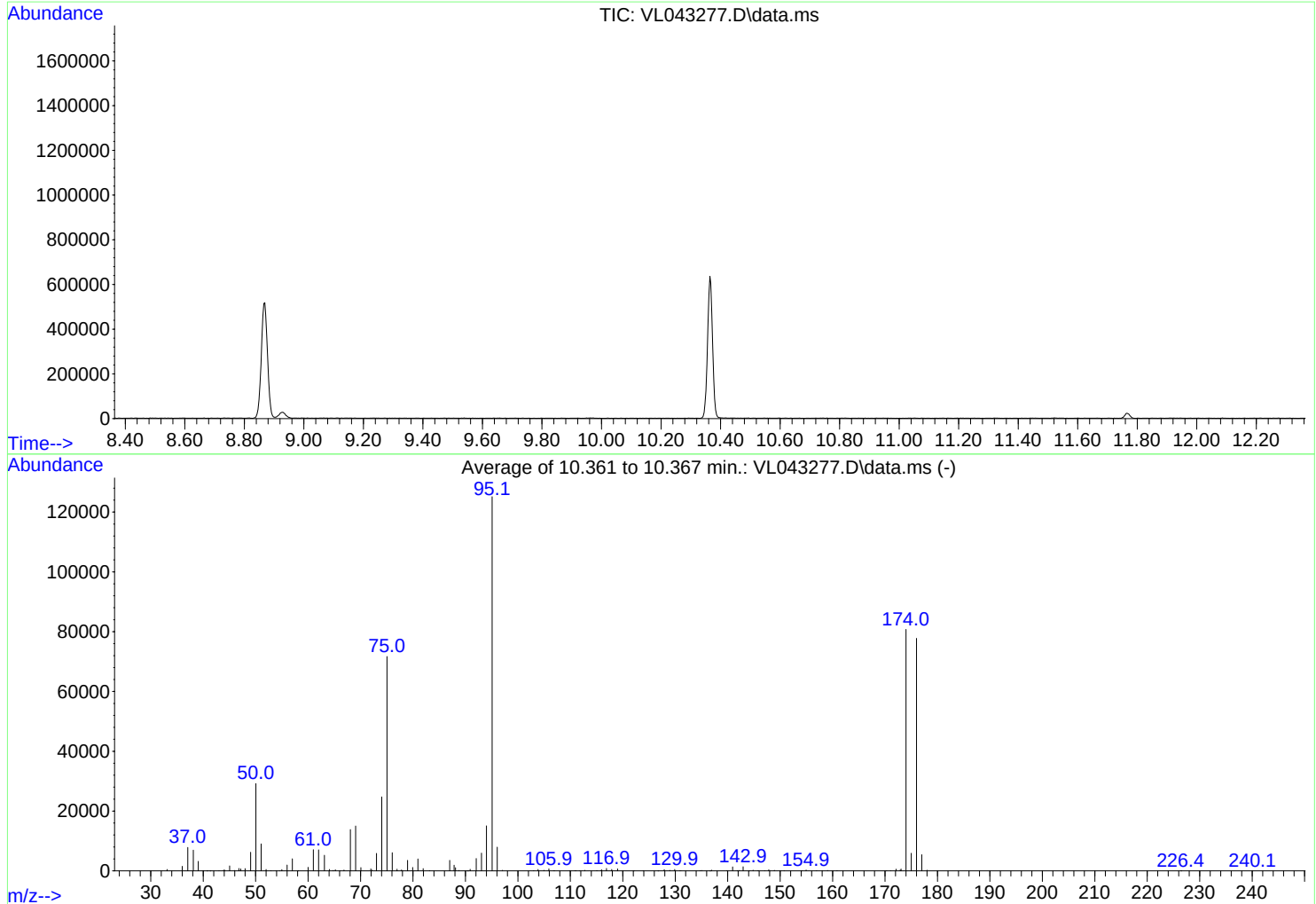
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.00	28						
268.30	20						
294.80	17						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043277.D
Acq On : 24 Nov 2025 08:53
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\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3174, 3175, 3176; Background Corrected with Scan 3159

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.3	29189	PASS
75	95	30	66	57.3	71715	PASS
95	95	100	100	100.0	125165	PASS
96	95	5	9	6.3	7928	PASS
173	174	0.00	2	0.8	642	PASS
174	95	50	120	64.5	80763	PASS
175	174	4	9	7.3	5908	PASS
176	174	93	101	96.3	77795	PASS
177	176	5	9	7.0	5416	PASS

Average of 10.361 to 10.367 min.: VL043277.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	478	45.05	1687	54.60	53	65.20	391
36.00	1507	45.95	136	55.00	422	66.05	51
37.05	7822	46.80	795	56.00	1965	66.85	28
38.10	6940	47.15	681	57.00	4054	68.05	1384
39.05	3202	48.00	783	58.15	117	69.05	14985
40.00	114	49.05	6220	60.00	1197	70.05	1092
40.70	19	50.05	29189	61.00	7095	71.95	679
41.30	25	51.05	9009	62.00	7024	72.20	235
43.00	59	52.00	501	63.10	5229	73.05	5870
43.90	284	52.90	47	64.05	495	74.05	24755
44.10	256	53.90	57	64.80	140	75.05	71715

Average of 10.361 to 10.367 min.: VL043277.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	6065	88.10	1041	103.85	501	115.80	83
76.95	589	88.75	144	104.95	191	115.95	362
77.80	287	90.40	26	105.90	660	116.90	815
78.00	158	90.90	546	106.80	120	117.90	469
78.95	3509	92.05	4129	107.00	77	119.00	667
79.95	1144	93.05	5957	109.85	82	122.00	22
80.95	3978	94.00	15063	110.85	96	123.90	67
81.95	783	95.10	125165	111.10	94	126.70	25
83.15	125	96.05	7928	111.80	72	127.90	444
87.00	3497	97.05	187	112.75	196	128.95	207
87.85	1920	103.00	101	115.05	163	129.90	485

Average of 10.361 to 10.367 min.: VL043277.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
130.90	113	142.95	1385	154.00	18	174.00	80763
131.10	39	144.00	19	154.95	310	175.00	5908
134.75	104	144.85	217	156.95	120	176.00	77795
135.05	136	145.70	62	158.05	59	177.00	5416
136.60	23	145.90	96	159.05	153	178.00	233
136.95	221	147.05	61	160.85	107	226.40	19
139.80	67	147.85	386	170.30	46	240.10	42
140.00	73	148.10	41	171.05	61		
140.95	1333	148.90	182	172.10	555		
141.85	103	150.05	72	172.90	300		
142.20	139	150.75	68	173.05	642		

Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: VL1124ABL01
Lab Sample ID: VL1124ABL01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/24/25 13:11	VL112425
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/24/25 13:11	VL112425
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/24/25 13:11	VL112425
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/24/25 13:11	VL112425
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/24/25 13:11	VL112425
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/24/25 13:11	VL112425
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/24/25 13:11	VL112425
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/24/25 13:11	VL112425
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/24/25 13:11	VL112425
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/24/25 13:11	VL112425
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/24/25 13:11	VL112425
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/24/25 13:11	VL112425
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/24/25 13:11	VL112425
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/24/25 13:11	VL112425
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 13:11	VL112425
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/24/25 13:11	VL112425
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/24/25 13:11	VL112425
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/24/25 13:11	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.80				65 - 135	98% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	106000							
540-36-3	1,4-Difluorobenzene	278000							
3114-55-4	Chlorobenzene-d5	210000							

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\VL112425\
 Data File : VL043279.D
 Acq On : 24 Nov 2025 13:11
 Operator : SY/MD
 Sample : VL1124ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABL01

Quant Time: Nov 24 23:39:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	106137	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	277570	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	209566	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	151293	9.849	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%

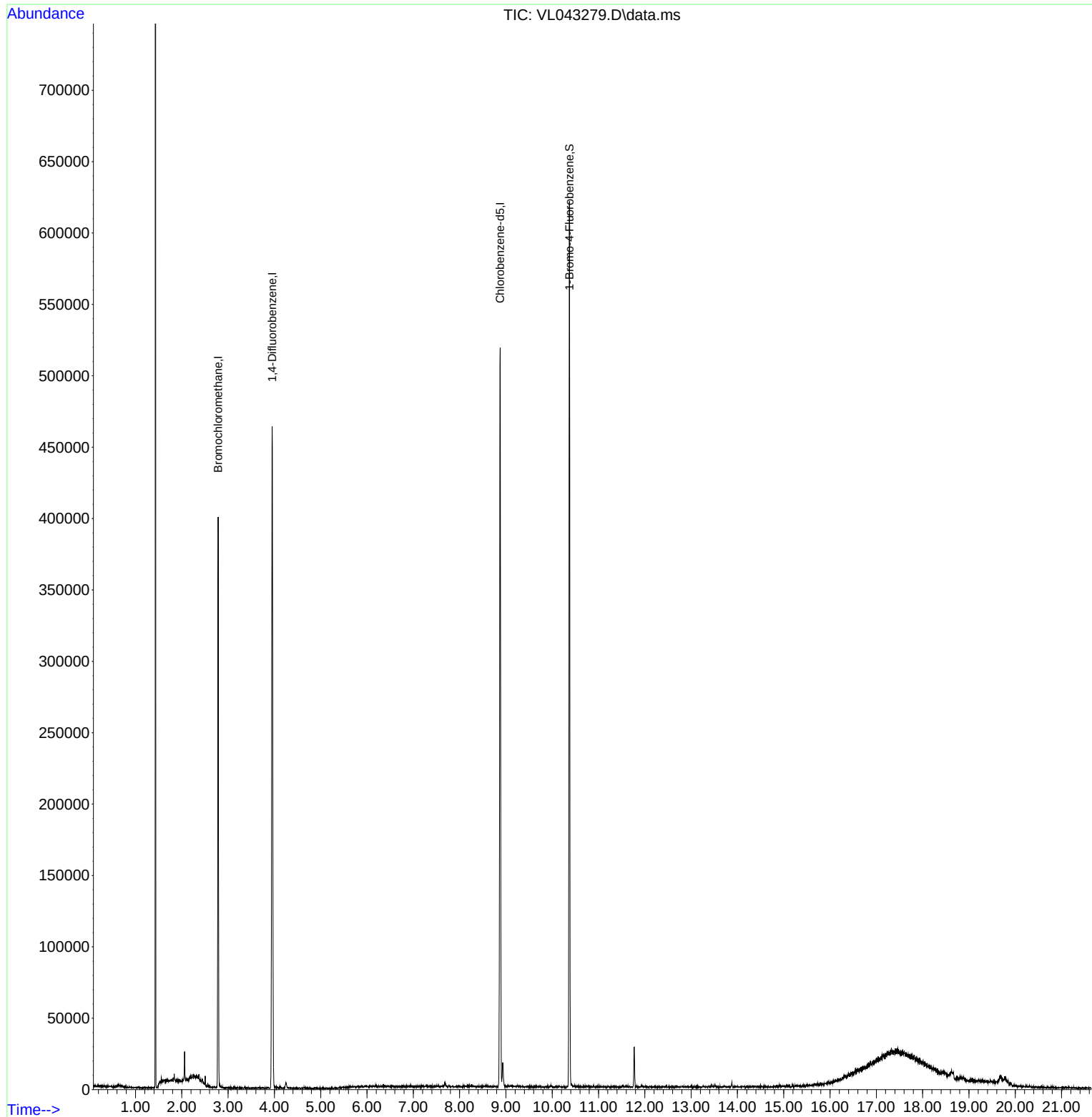
Target Compounds	Qvalue

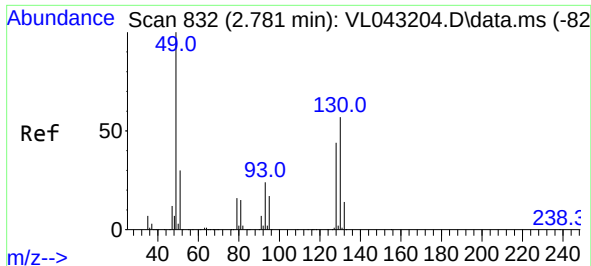
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043279.D
Acq On : 24 Nov 2025 13:11
Operator : SY/MD
Sample : VL1124ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABL01

Quant Time: Nov 24 23:39:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

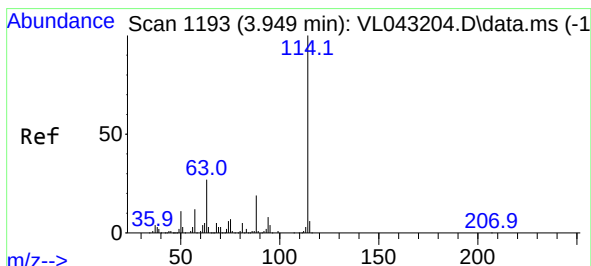
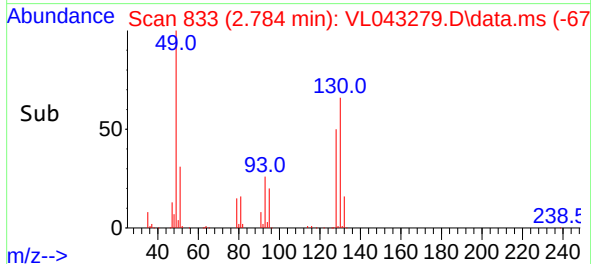
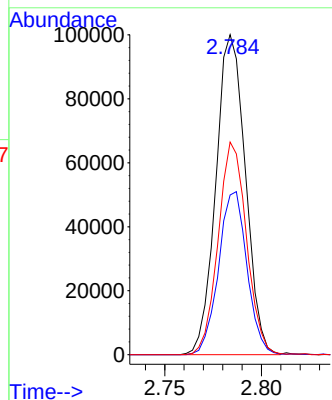
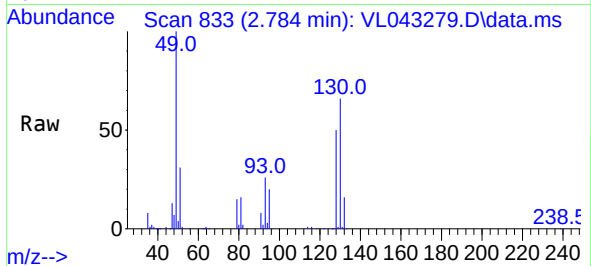




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043279.D
Acq: 24 Nov 2025 13:11

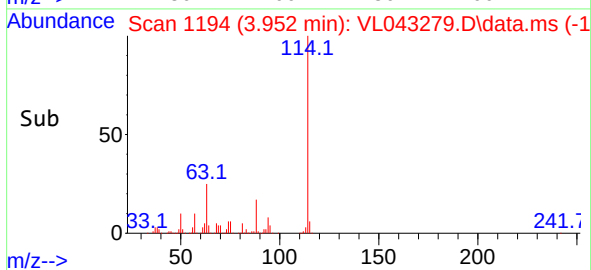
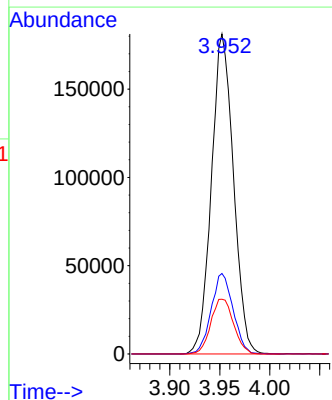
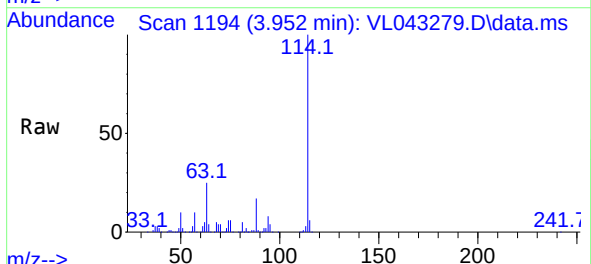
Instrument :
MSVOA_1
ClientSampleId :
VL1124ABL01

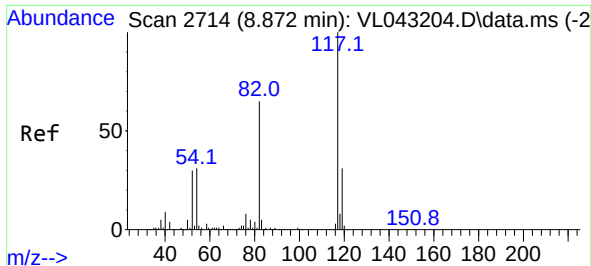
Tgt Ion: 49 Resp: 106137
Ion Ratio Lower Upper
49 100
128 49.2 23.0 69.0
130 63.9 29.9 89.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043279.D
Acq: 24 Nov 2025 13:11

Tgt Ion: 114 Resp: 277570
Ion Ratio Lower Upper
114 100
63 25.1 21.0 31.6
88 17.7 14.9 22.3

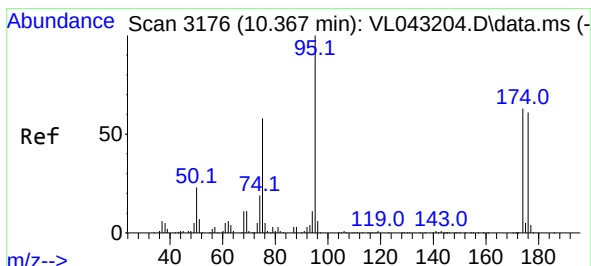
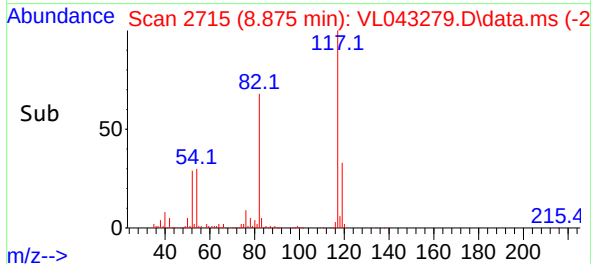
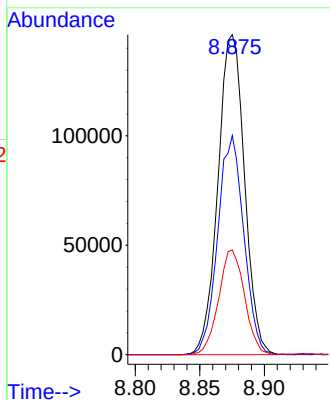
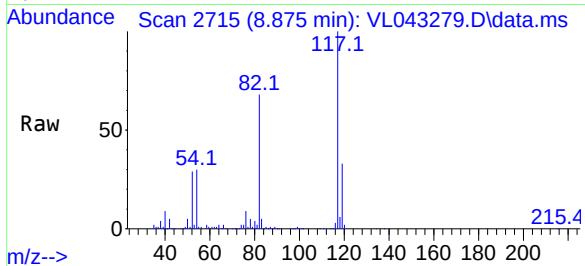




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043279.D
Acq: 24 Nov 2025 13:11

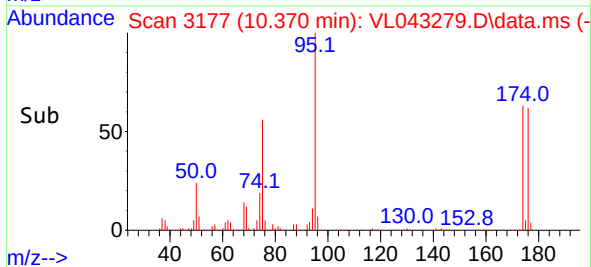
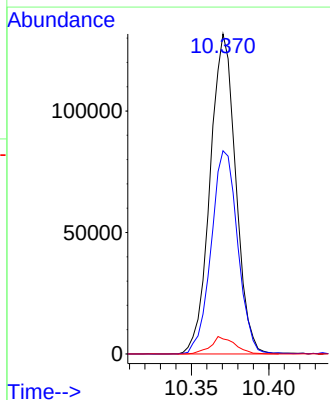
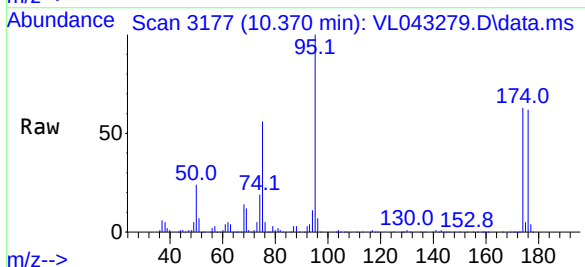
Instrument :
MSVOA_1
ClientSampleId :
VL1124ABL01

Tgt Ion:117 Resp: 209566
Ion Ratio Lower Upper
117 100
82 67.0 56.1 84.1
119 32.1 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.849 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043279.D
Acq: 24 Nov 2025 13:11

Tgt Ion: 95 Resp: 151293
Ion Ratio Lower Upper
95 100
174 65.8 50.2 75.2
175 5.1 4.1 6.1



Report of Analysis

Client: GFE LLC
Project: 90-73 Sutphin Blvd Jamaica, NY
Client Sample ID: VL1124ABS01
Lab Sample ID: VL1124ABS01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3696
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	9.40	24.0		1	0.080	0.080	11/24/25 13:52	VL112425
142-82-5	Heptane	9.30	38.1		1	0.70	2.05	11/24/25 13:52	VL112425
75-34-3	1,1-Dichloroethane	10.8	43.7		1	0.53	2.02	11/24/25 13:52	VL112425
110-82-7	Cyclohexane	10.1	34.8		1	0.76	1.72	11/24/25 13:52	VL112425
156-59-2	cis-1,2-Dichloroethene	10.4	41.2		1	0.40	1.98	11/24/25 13:52	VL112425
71-55-6	1,1,1-Trichloroethane	11.2	61.1		1	0.11	0.16	11/24/25 13:52	VL112425
540-84-1	2,2,4-Trimethylpentane	10.2	47.6		1	0.65	2.34	11/24/25 13:52	VL112425
71-43-2	Benzene	10.7	34.2		1	0.26	1.60	11/24/25 13:52	VL112425
79-01-6	Trichloroethene	11.0	59.1		1	0.11	0.16	11/24/25 13:52	VL112425
108-88-3	Toluene	10.2	38.4		1	0.60	1.88	11/24/25 13:52	VL112425
127-18-4	Tetrachloroethene	10.6	71.9		1	0.14	0.20	11/24/25 13:52	VL112425
100-41-4	Ethyl Benzene	10.6	46.0		1	0.83	2.17	11/24/25 13:52	VL112425
179601-23-1	m/p-Xylene	21.8	94.7		1	1.78	4.34	11/24/25 13:52	VL112425
95-47-6	o-Xylene	10.8	46.9		1	0.91	2.17	11/24/25 13:52	VL112425
108-67-8	1,3,5-Trimethylbenzene	10.7	52.6		1	0.88	2.46	11/24/25 13:52	VL112425
95-63-6	1,2,4-Trimethylbenzene	10.9	53.6		1	0.88	2.46	11/24/25 13:52	VL112425
91-20-3	Naphthalene	10.1	53.0		1	0.050	0.52	11/24/25 13:52	VL112425
110-54-3	Hexane	9.80	34.5		1	0.56	1.76	11/24/25 13:52	VL112425
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.2				65 - 135	102% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	105000							
540-36-3	1,4-Difluorobenzene	273000							
3114-55-4	Chlorobenzene-d5	221000							

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\VL112425\
 Data File : VL043280.D
 Acq On : 24 Nov 2025 13:52
 Operator : SY/MD
 Sample : VL1124ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:39:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	105147	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	272854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	221036	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 164851 10.175 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	162546	10.960	ppbv	99
3) Chlorodifluoromethane	1.476	51	149762	10.268	ppbv	95
4) Chloromethane	1.531	50	55864	10.075	ppbv	96
5) Vinyl Chloride	1.580	62	57122	9.420	ppbv	98
6) Bromomethane	1.667	94	28296	9.626	ppbv	98
7) Chloroethane	1.703	64	22649	9.590	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	135608	10.992	ppbv	98
9) Propene	1.483	41	58566m	9.456	ppbv	
10) Heptane	4.969	43	170817	9.267	ppbv	99
11) Trichlorofluoromethane	1.875	101	169809	11.818	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	132086	11.775	ppbv	99
13) Ethanol	1.719	45	17266	7.928	ppbv	97
14) Bromoethene	1.781	108	46318	10.771	ppbv	98
15) Acetone	1.832	43	126744	8.676	ppbv	98
16) 1,3-Butadiene	1.609	39	64230	9.862	ppbv	96
17) tert-Butyl alcohol	2.036	59	179940	9.384	ppbv	100
18) 1,1-Dichloroethene	2.030	96	55652	10.655	ppbv	92
19) Isopropyl Alcohol	1.884	45	71853	8.704	ppbv	92
20) Methylene Chloride	2.059	84	50105	11.780	ppbv	91
21) Allyl Chloride	2.095	41	88132	8.967	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	64065	10.731	ppbv	98
23) Vinyl Acetate	2.457	43	171121	9.703	ppbv #	99
24) 1,1-Dichloroethane	2.405	63	124688	10.820	ppbv	98
25) Ethyl Acetate	2.826	43	301985	9.585	ppbv	99
26) Hexane	2.820	57	135935	9.841	ppbv	99
27) Carbon Disulfide	2.146	76	158318	11.226	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	75424	11.124	ppbv	95
29) Chloroform	2.842	83	228576	11.642	ppbv	98
30) Cyclohexane	3.852	84	116565	10.065	ppbv	93
31) cis-1,2-Dichloroethene	2.716	61	143211	10.430	ppbv	98
32) 1,1,1-Trichloroethane	3.360	97	235081	11.233	ppbv	99
34) 2-Butanone	2.551	43	193105	10.026	ppbv	99
35) Carbon Tetrachloride	3.755	117	246117	11.883	ppbv	99
36) Benzene	3.648	78	279506	10.697	ppbv	98
37) 1,2-Dichloroethane	3.211	62	178873	11.703	ppbv	98
38) Trichloroethene	4.538	130	112238	10.979	ppbv	96
39) 1,2-Dichloropropane	4.302	63	101403	10.603	ppbv	93
40) 1,4-Dioxane	4.564	88	38115	8.866	ppbv #	94
41) Tetrahydrofuran	3.043	42	103010	9.685	ppbv	98
42) Bromodichloromethane	4.477	83	246932	11.712	ppbv	95
43) Methyl Methacrylate	4.868	69	132570	9.558	ppbv	96
44) 2,2,4-Trimethylpentane	4.632	57	459765	10.245	ppbv	99
45) t-1,3-Dichloropropene	6.403	75	103648	8.017	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043280.D
 Acq On : 24 Nov 2025 13:52
 Operator : SY/MD
 Sample : VL1124ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2025
 Supervised By : Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:39:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

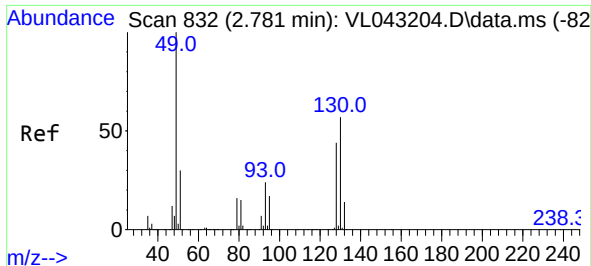
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	125652	8.277	ppbv	94
47) 1,1,2-Trichloroethane	6.568	97	111403	10.976	ppbv	92
48) Dibromochloromethane	7.377	129	203117	11.640	ppbv	98
49) Bromoform	9.474	173	179808	11.633	ppbv	99
50) 4-Methyl-2-Pentanone	5.729	43	257888	9.505	ppbv	98
51) 2-Hexanone	7.422	43	184928	8.777	ppbv #	98
52) Tetrachloroethene	8.212	164	102674	10.563	ppbv	94
53) Toluene	6.920	91	315386	10.193	ppbv	99
54) 1,2-Dibromoethane	7.642	107	154824	10.366	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.914	131	190059	11.700	ppbv	98
57) Chlorobenzene	8.914	112	250652	11.045	ppbv	98
58) Ethyl Benzene	9.348	91	451322	10.609	ppbv	98
59) m/p-Xylene	9.523	91	743261m	21.791	ppbv	
60) o-Xylene	9.956	91	367807	10.794	ppbv	99
61) Styrene	9.863	104	142907	9.583	ppbv	99
62) Isopropylbenzene	10.533	105	669597	10.984	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	227409	10.489	ppbv	99
64) n-propylbenzene	10.982	120	167620	10.701	ppbv	99
65) tert-Butylbenzene	11.523	119	573049	10.526	ppbv	99
66) Benzyl Chloride	11.610	91	25332	4.585	ppbv	99
67) sec-Butylbenzene	11.759	105	802399	10.559	ppbv	99
69) p-Isopropyltoluene	11.918	119	666208	10.349	ppbv	100
70) n-Butylbenzene	12.274	91	653544	10.465	ppbv	99
71) 2-Chlorotoluene	10.895	91	492497	10.511	ppbv	100
72) 4-Ethyltoluene	11.118	105	448275	10.803	ppbv	98
73) 1,3,5-Trimethylbenzene	11.196	105	372510	10.697	ppbv	96
74) 1,2,4-Trimethylbenzene	11.529	105	413769	10.888	ppbv	96
75) 1,3-Dichlorobenzene	11.601	146	239632	10.806	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	239094	10.779	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	227478	10.669	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	183653	10.321	ppbv	99
79) Naphthalene	13.507	128	340028	10.074	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	83577	9.433	ppbv	100
81) 1,2,4-Trichlorobenzene	13.433	180	167890	11.122	ppbv	99

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



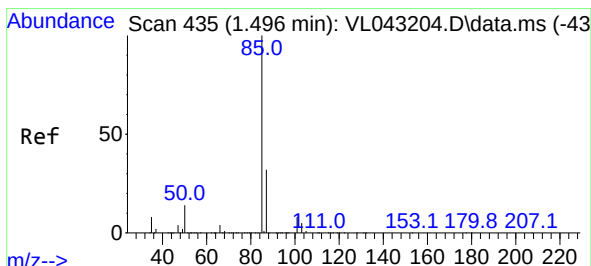
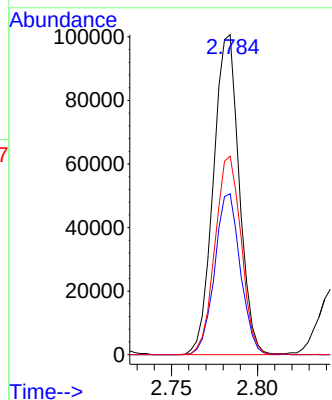
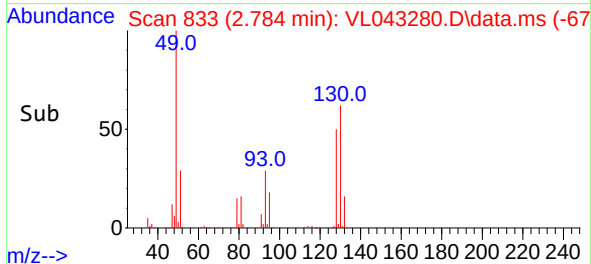
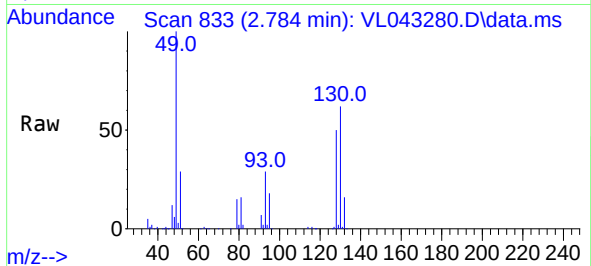
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion: 49 Resp: 10514
Ion Ratio Lower Upper
49 100
128 50.0 23.0 69.0
130 62.8 29.9 89.7

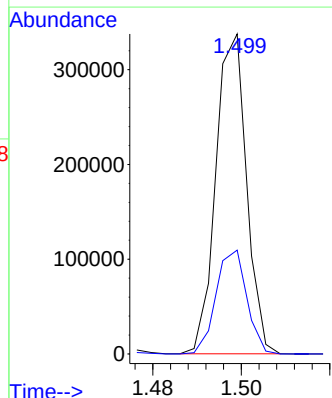
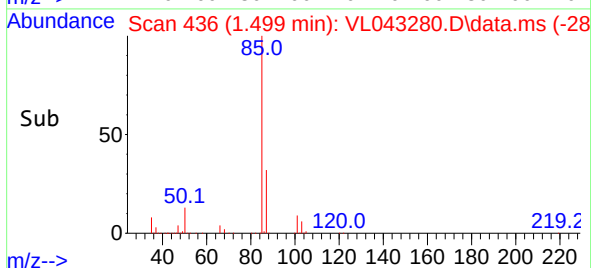
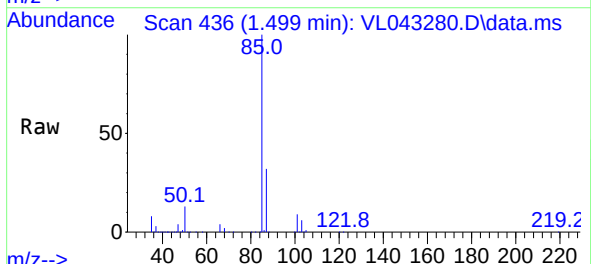
Manual Integrations
APPROVED

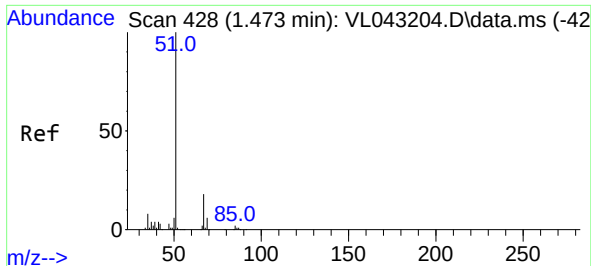
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 10.960 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

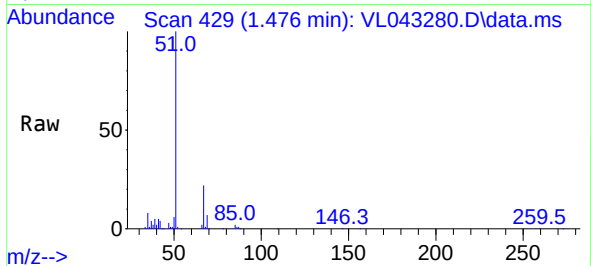
Tgt Ion: 85 Resp: 162546
Ion Ratio Lower Upper
85 100
87 32.5 25.4 38.2





#3
Chlorodifluoromethane
Concen: 10.268 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

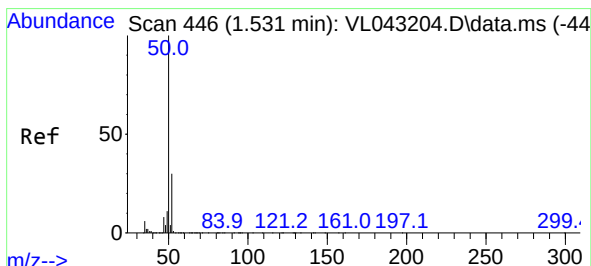
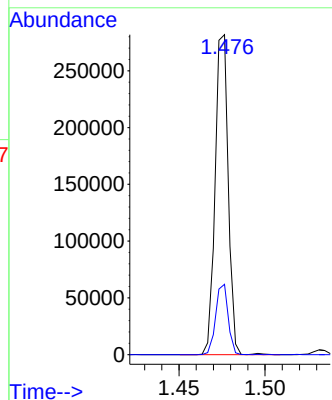
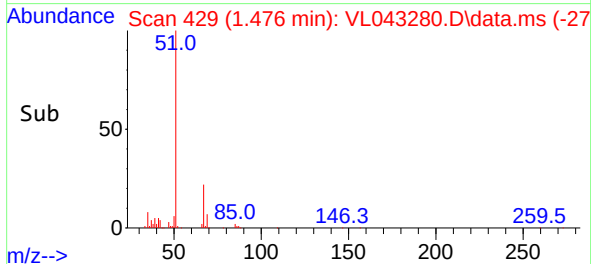
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



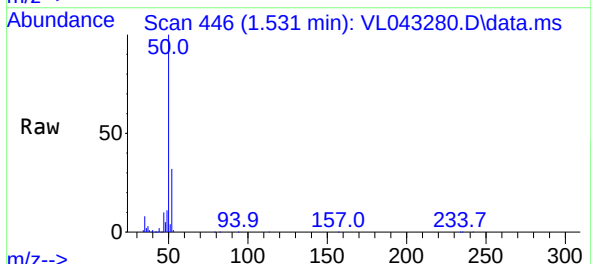
Tgt Ion: 51 Resp: 149762
Ion Ratio Lower Upper
51 100
67 21.0 14.9 22.3

Manual Integrations
APPROVED

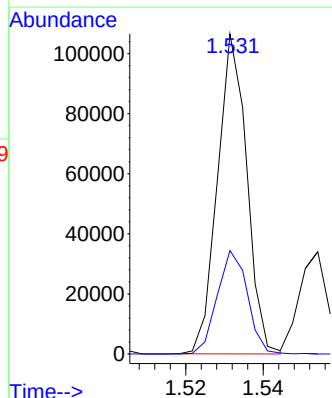
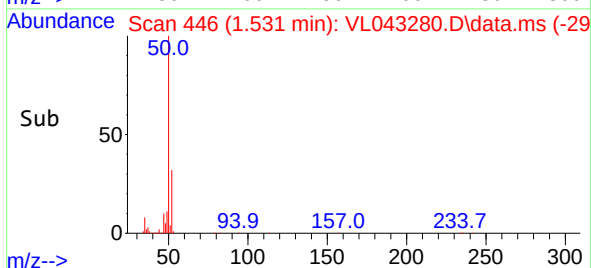
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

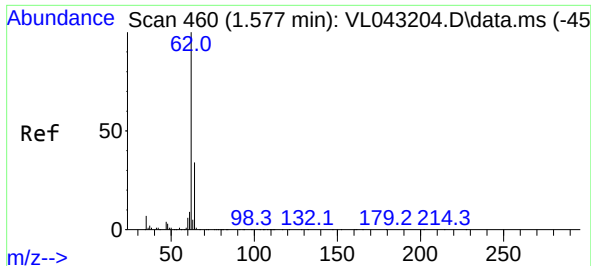


#4
Chloromethane
Concen: 10.075 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion: 50 Resp: 55864
Ion Ratio Lower Upper
50 100
52 32.3 24.1 36.1





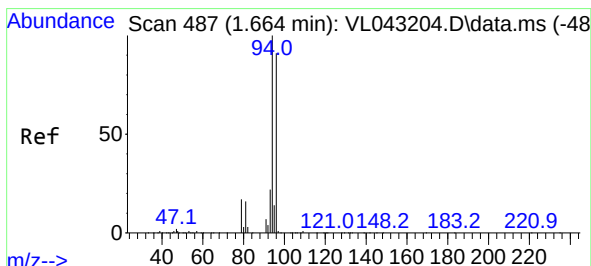
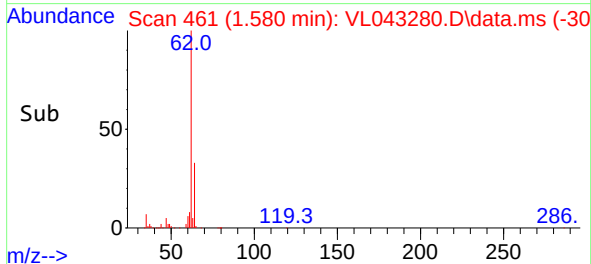
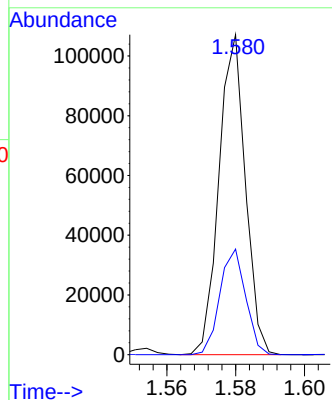
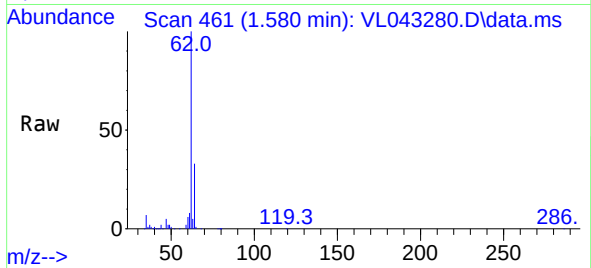
#5
 Vinyl Chloride
 Concen: 9.420 ppbv
 RT: 1.580 min Scan# 460
 Delta R.T. 0.003 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABS01

Tgt Ion: 62 Resp: 5712
 Ion Ratio Lower Upper
 62 100
 64 33.0 27.3 40.9

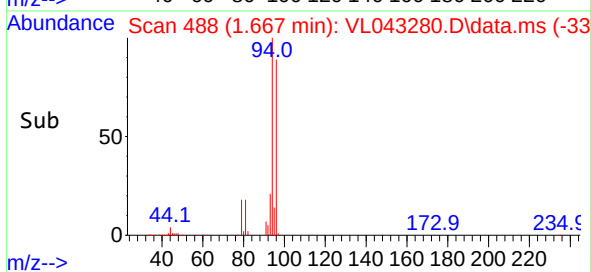
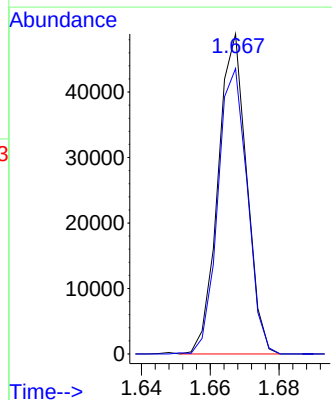
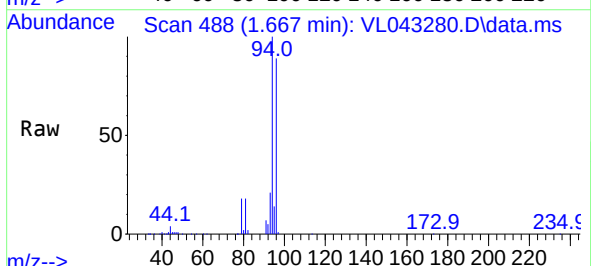
Manual Integrations
 APPROVED

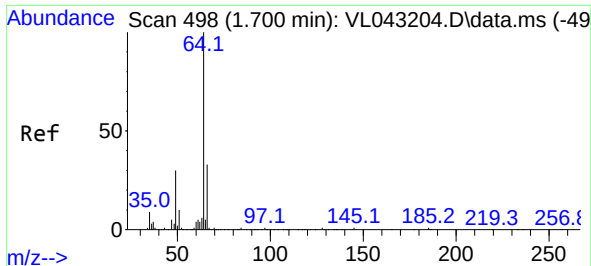
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



#6
 Bromomethane
 Concen: 9.626 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

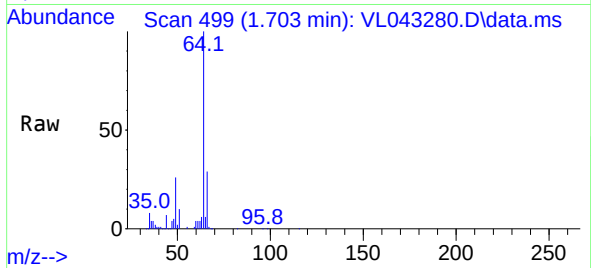
Tgt Ion: 94 Resp: 28296
 Ion Ratio Lower Upper
 94 100
 96 89.2 72.9 109.3





#7
Chloroethane
Concen: 9.590 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

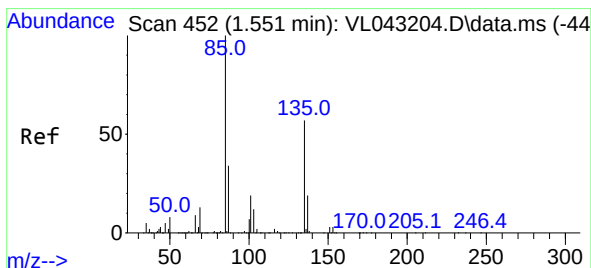
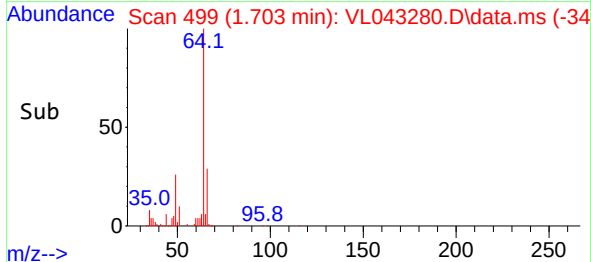
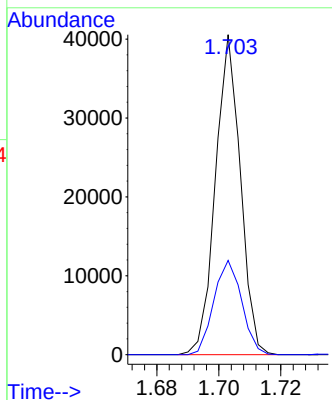
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



Tgt Ion: 64 Resp: 22649
Ion Ratio Lower Upper
64 100
66 29.5 26.8 40.2

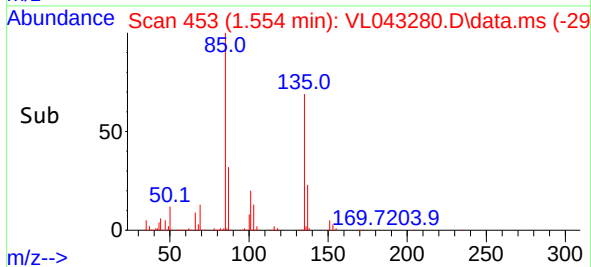
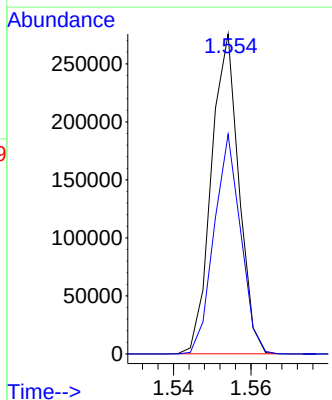
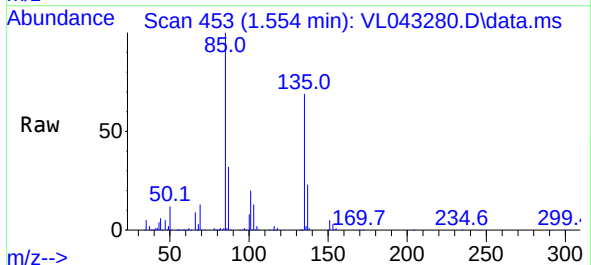
Manual Integrations
APPROVED

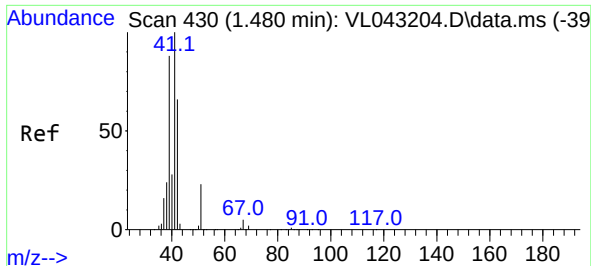
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#8
Dichlorotetrafluoroethane
Concen: 10.992 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Tgt Ion: 85 Resp: 135608
Ion Ratio Lower Upper
85 100
135 67.0 52.6 79.0





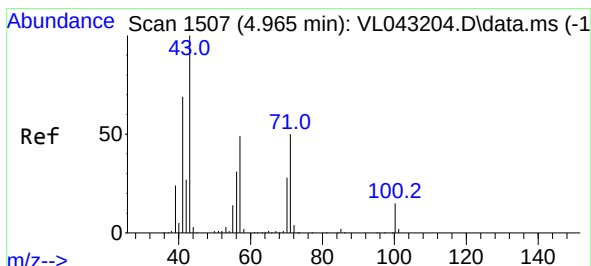
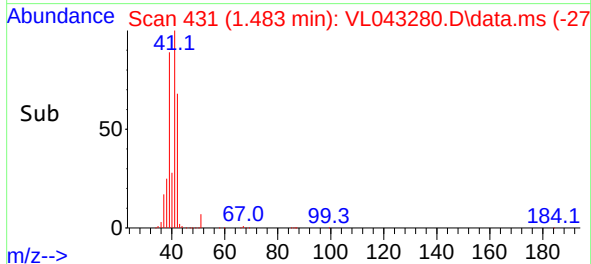
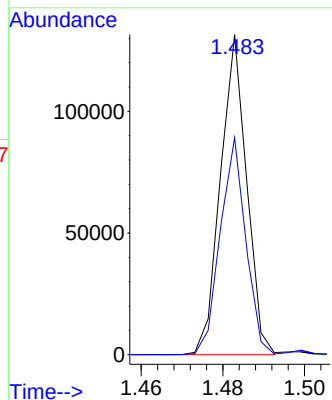
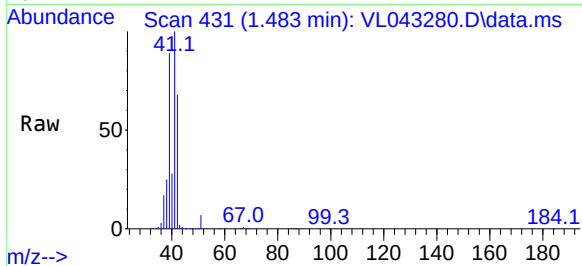
#9
Propene
Concen: 9.456 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion: 41 Resp: 58560
Ion Ratio Lower Upper
41 100
42 5.6 3.7 5.5

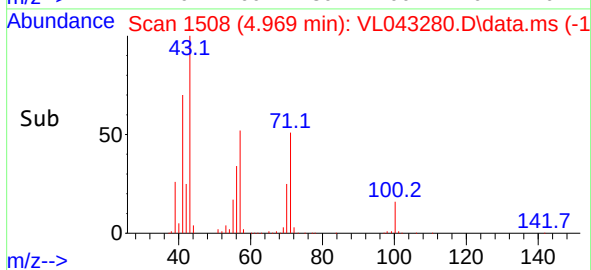
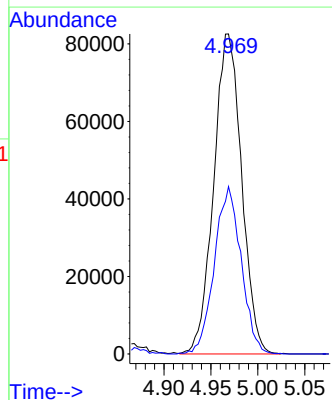
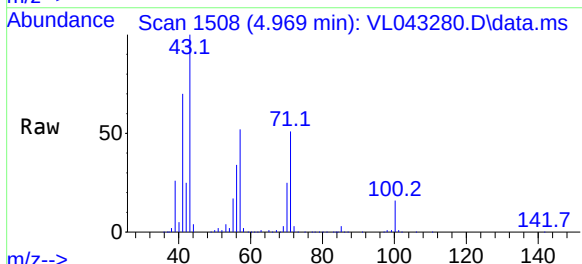
Manual Integrations
APPROVED

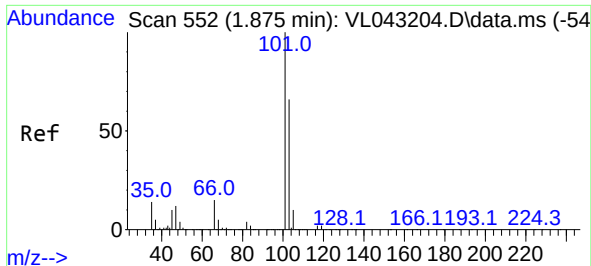
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#10
Heptane
Concen: 9.267 ppbv
RT: 4.969 min Scan# 1508
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

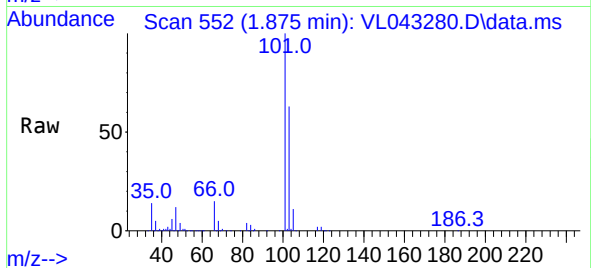
Tgt Ion: 43 Resp: 170817
Ion Ratio Lower Upper
43 100
57 50.1 39.7 59.5





#11
Trichlorofluoromethane
Concen: 11.818 ppbv
RT: 1.875 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

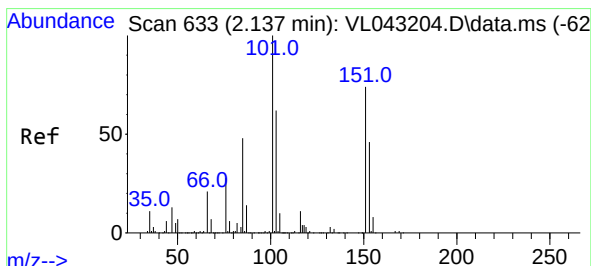
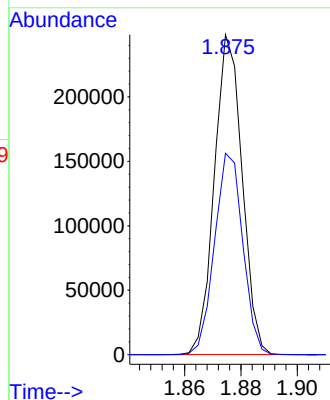
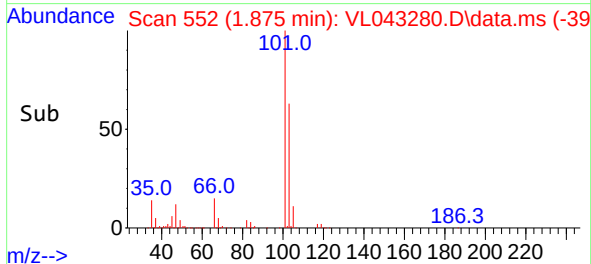
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



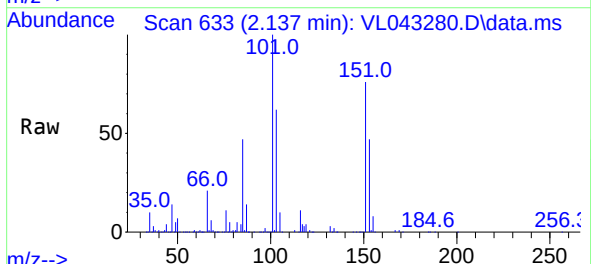
Tgt Ion:101 Resp: 169809
Ion Ratio Lower Upper
101 100
103 63.0 52.6 79.0

Manual Integrations
APPROVED

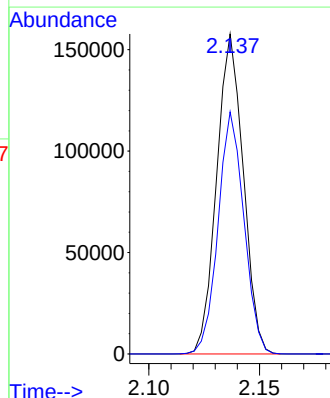
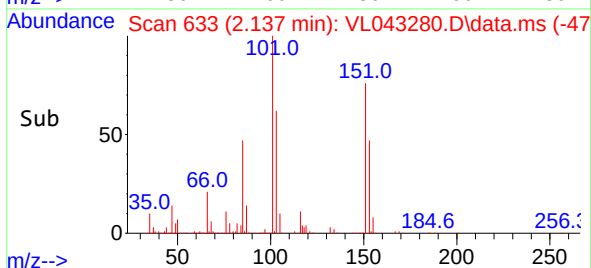
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

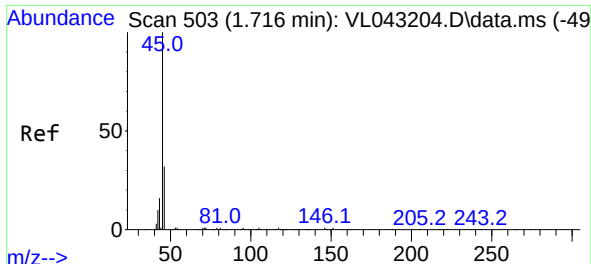


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.775 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion:101 Resp: 132086
Ion Ratio Lower Upper
101 100
151 73.5 59.2 88.8





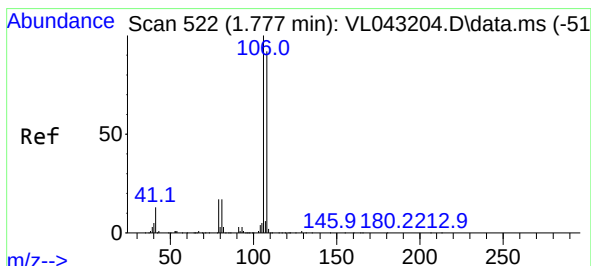
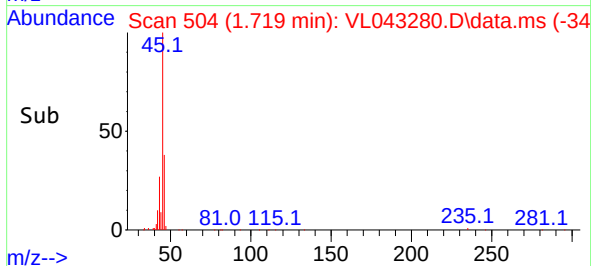
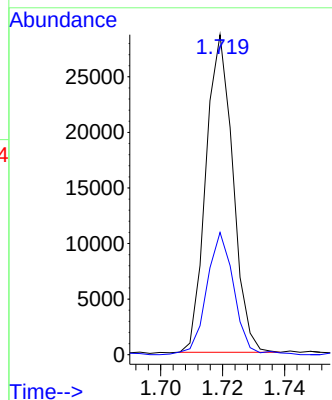
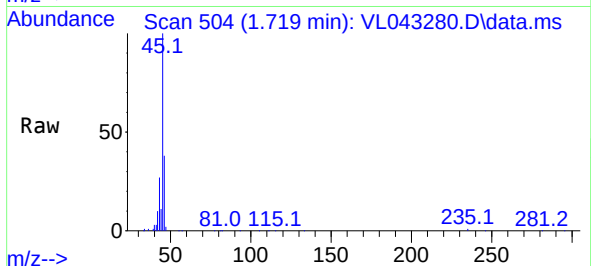
#13
Ethanol
Concen: 7.928 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion: 45 Resp: 17260
Ion Ratio Lower Upper
45 100
46 39.4 15.0 59.8

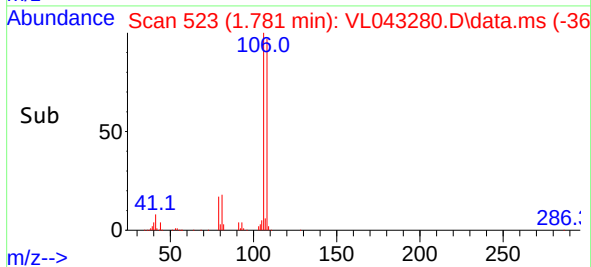
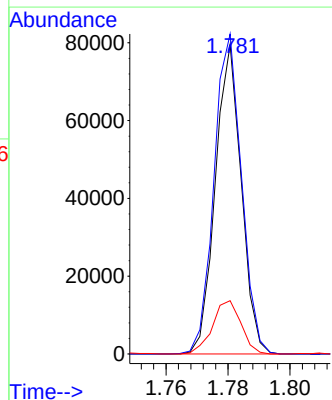
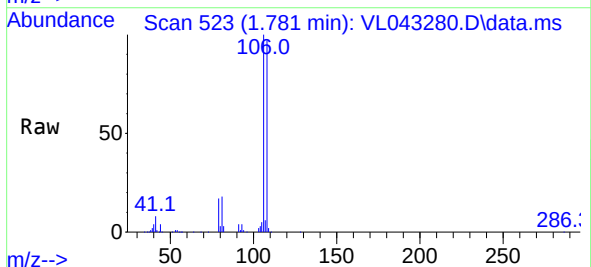
Manual Integrations
APPROVED

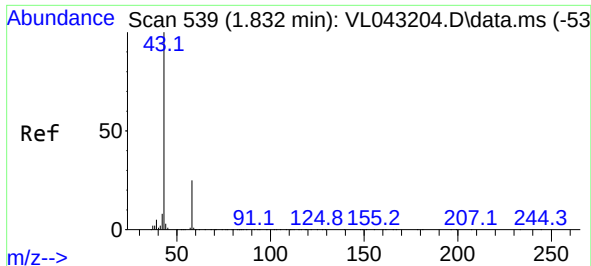
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#14
Bromoethene
Concen: 10.771 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

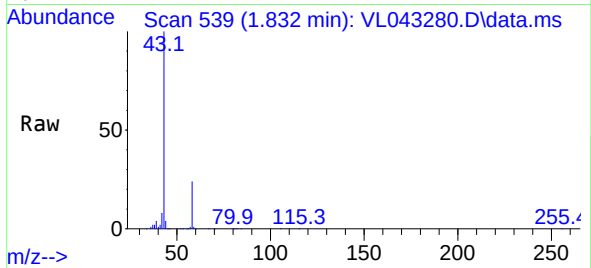
Tgt Ion:108 Resp: 46318
Ion Ratio Lower Upper
108 100
106 109.1 88.9 133.3
79 19.3 16.5 24.7





#15
Acetone
Concen: 8.676 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

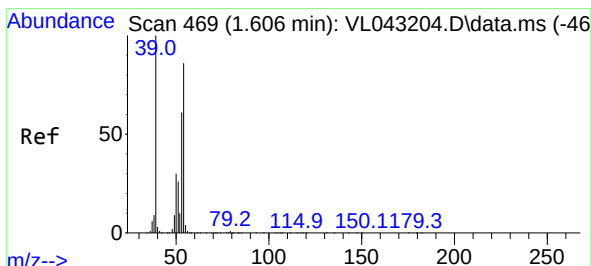
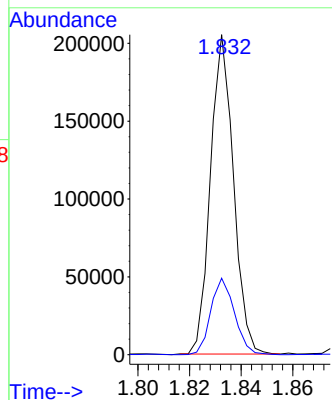
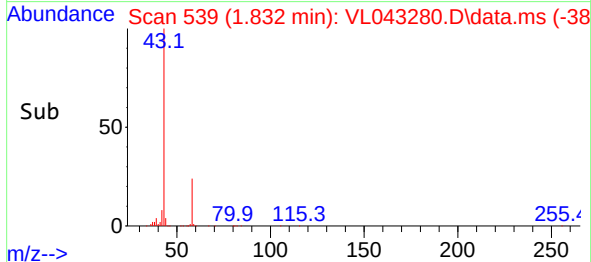
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



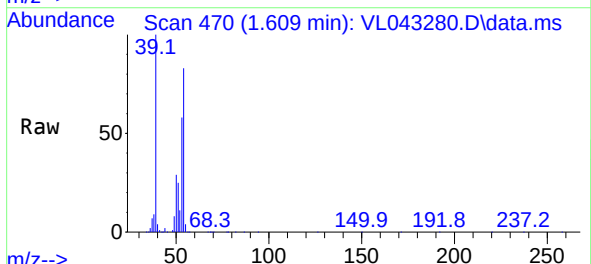
Tgt Ion: 43 Resp: 126744
Ion Ratio Lower Upper
43 100
58 24.9 20.7 31.1

Manual Integrations
APPROVED

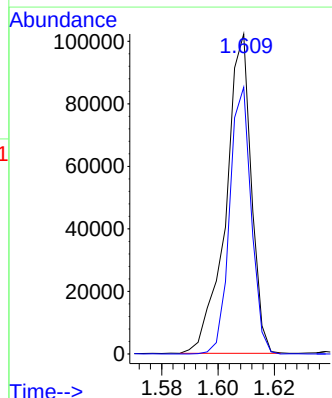
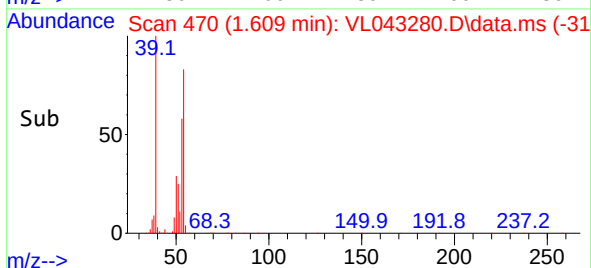
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

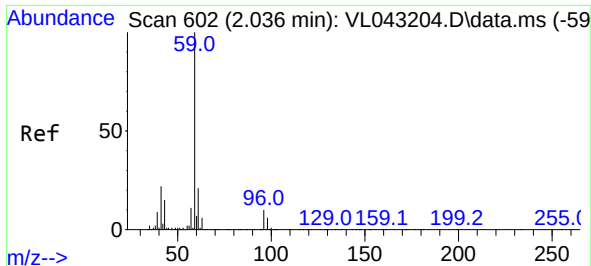


#16
1,3-Butadiene
Concen: 9.862 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



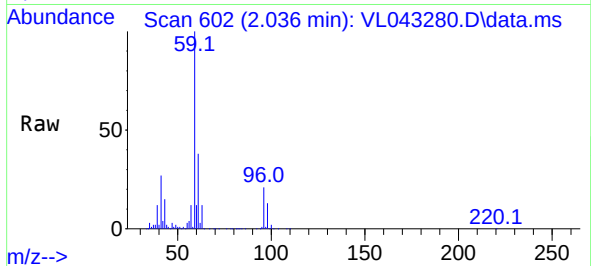
Tgt Ion: 39 Resp: 64230
Ion Ratio Lower Upper
39 100
54 70.7 59.4 89.2





#17
tert-Butyl alcohol
Concen: 9.384 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

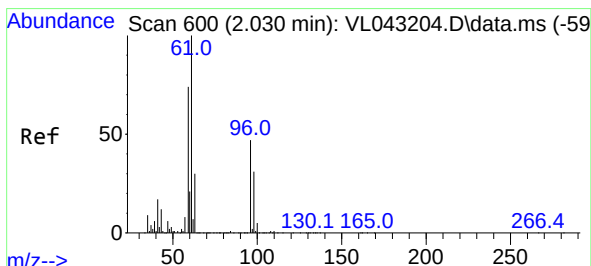
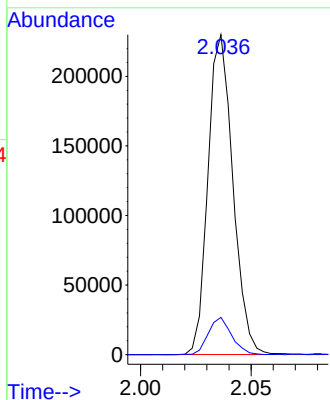
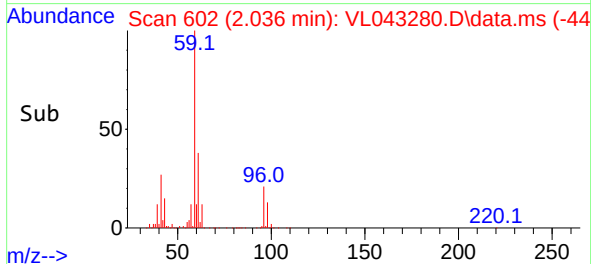
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



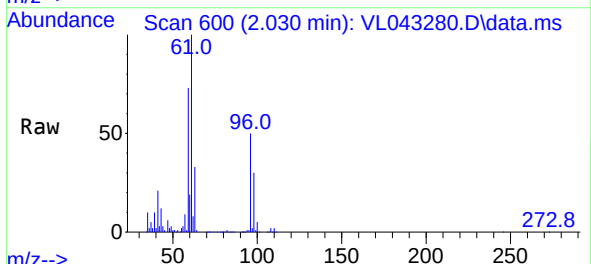
Tgt Ion: 59 Resp: 179940
Ion Ratio Lower Upper
59 100
57 11.1 9.0 13.4

Manual Integrations
APPROVED

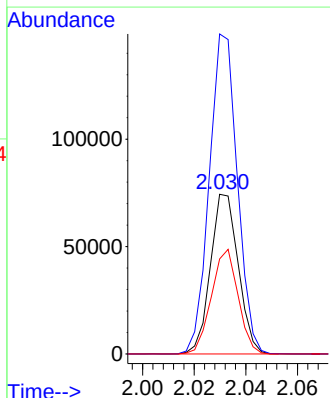
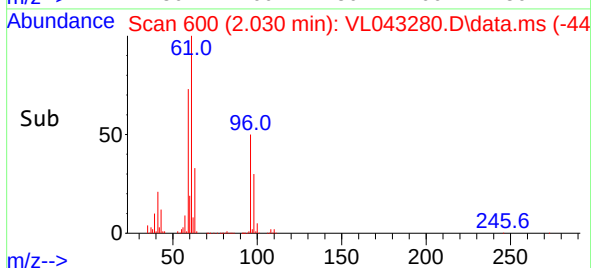
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

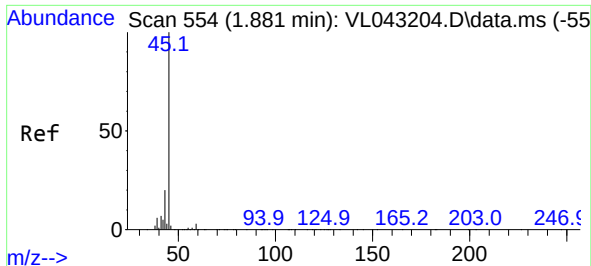


#18
1,1-Dichloroethene
Concen: 10.655 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion: 96 Resp: 55652
Ion Ratio Lower Upper
96 100
61 200.3 170.6 255.8
98 59.5 52.2 78.4





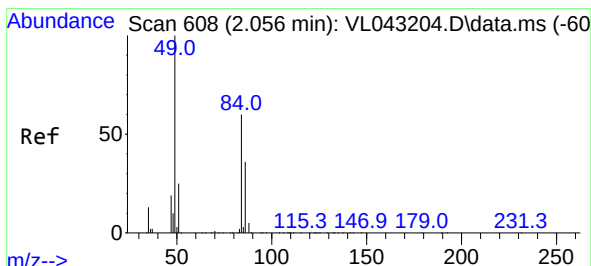
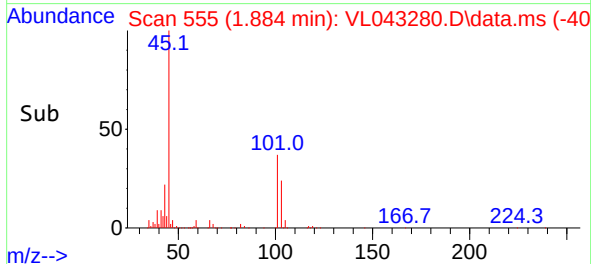
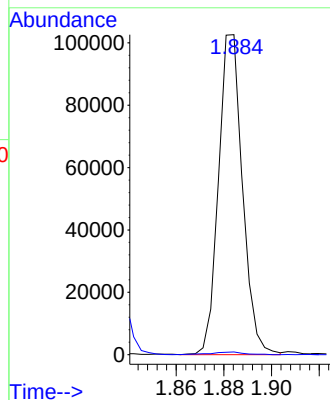
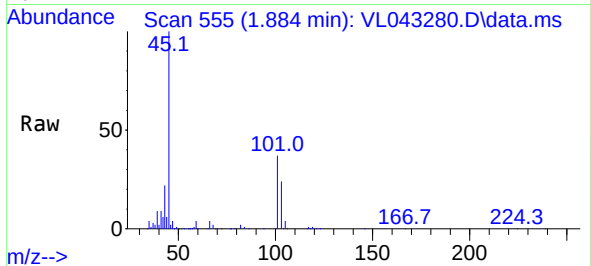
#19
Isopropyl Alcohol
Concen: 8.704 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion: 45 Resp: 7185
Ion Ratio Lower Upper
45 100
58 43.9 31.3 46.9

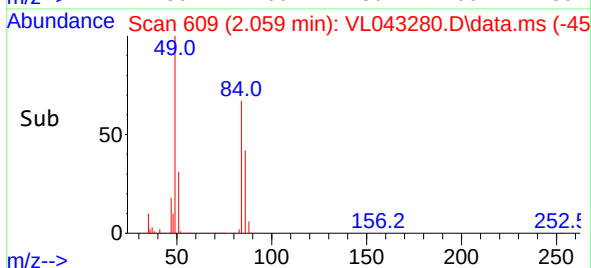
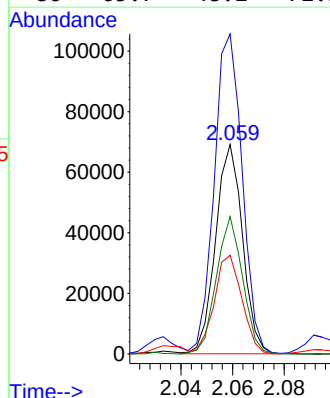
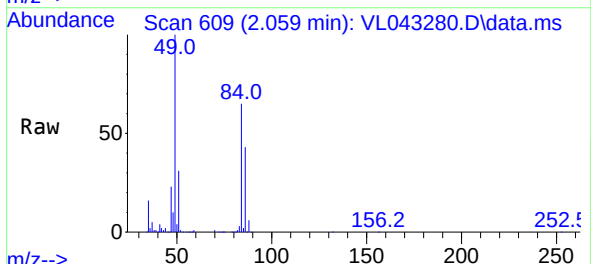
Manual Integrations
APPROVED

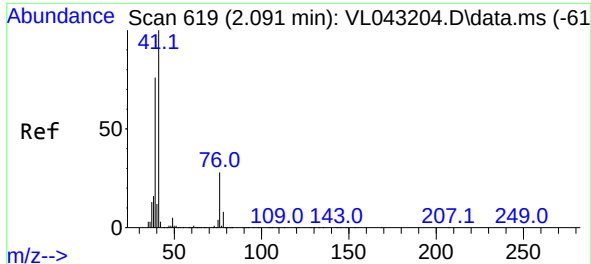
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#20
Methylene Chloride
Concen: 11.780 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

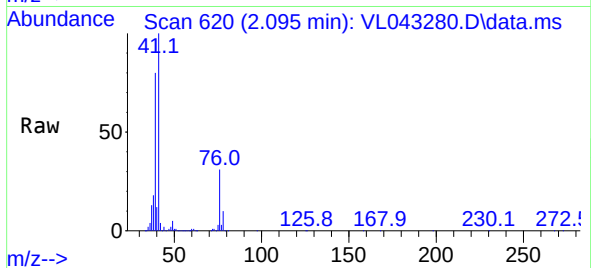
Tgt Ion: 84 Resp: 50105
Ion Ratio Lower Upper
84 100
49 152.7 132.9 199.3
51 47.1 34.8 52.2
86 65.7 48.2 72.2





#21
 Allyl Chloride
 Concen: 8.967 ppbv
 RT: 2.095 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

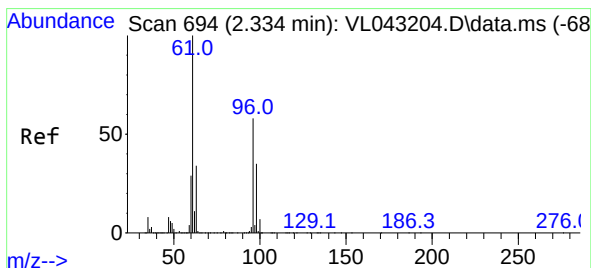
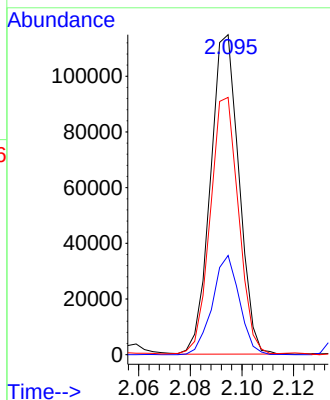
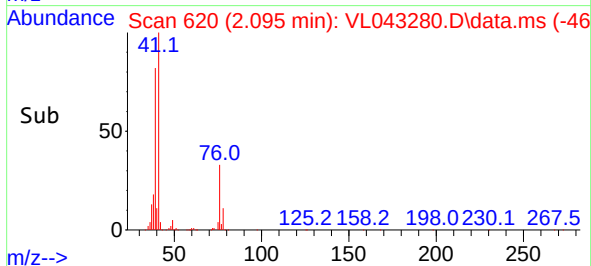
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABS01



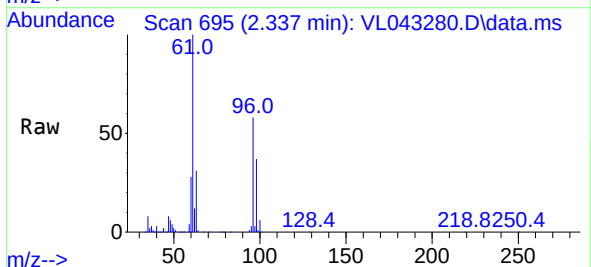
Tgt Ion: 41 Resp: 8813
 Ion Ratio Lower Upper
 41 100
 76 29.4 22.1 33.1
 39 79.8 61.0 91.4

Manual Integrations
 APPROVED

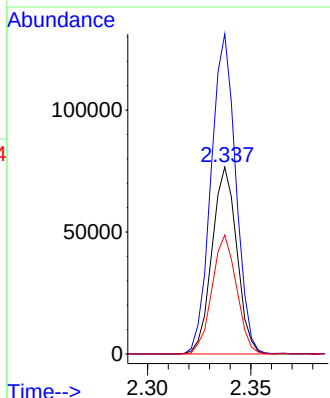
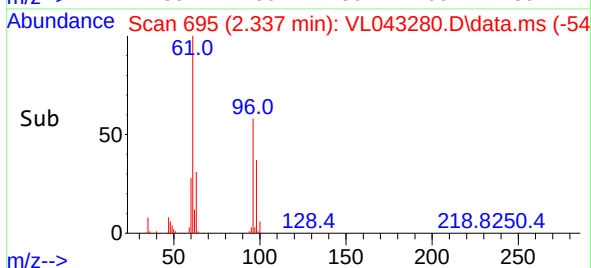
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

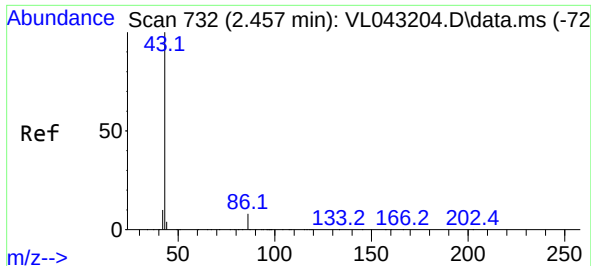


#22
 trans-1,2-Dichloroethene
 Concen: 10.731 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.003 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52



Tgt Ion: 96 Resp: 64065
 Ion Ratio Lower Upper
 96 100
 61 171.3 139.0 208.6
 98 63.5 49.4 74.2





#23
 Vinyl Acetate
 Concen: 9.703 ppbv
 RT: 2.457 min Scan# 711
 Delta R.T. 0.000 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

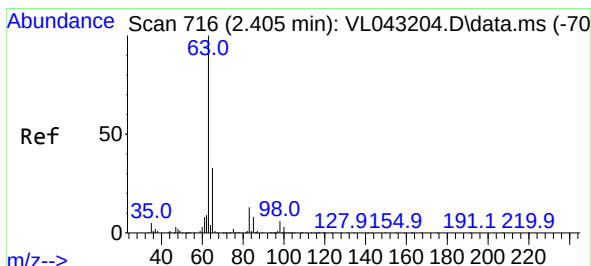
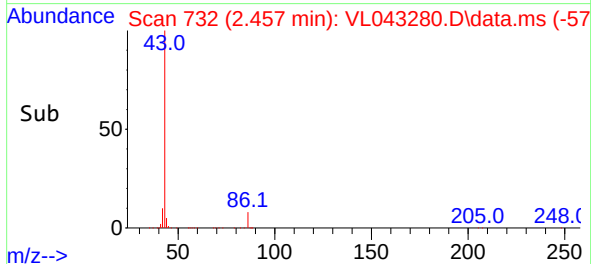
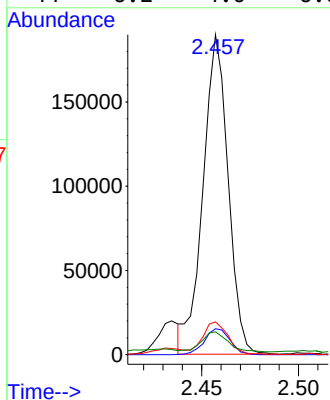
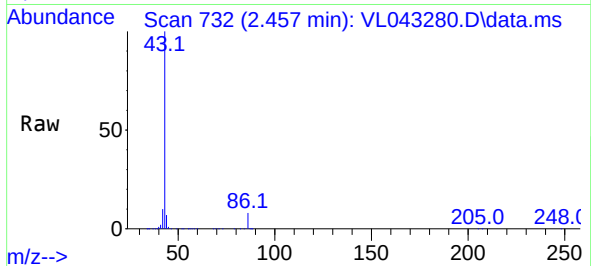
VL1124ABS01

Tgt Ion: 43 Resp: 17112
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.2 9.2
 42 10.0 8.0 12.0
 44 6.2 4.0 6.0#

Manual Integrations

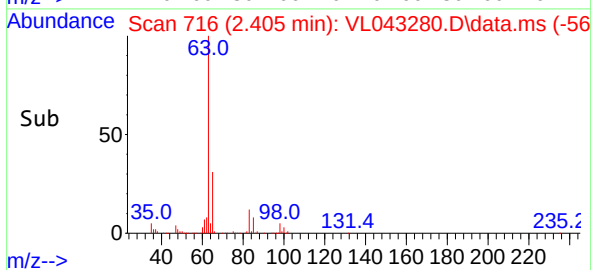
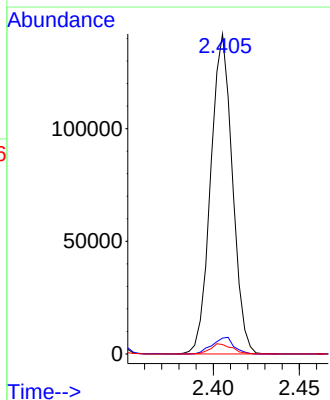
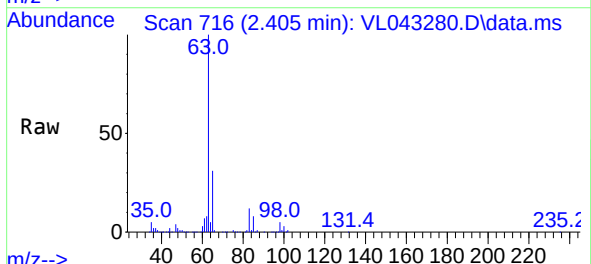
APPROVED

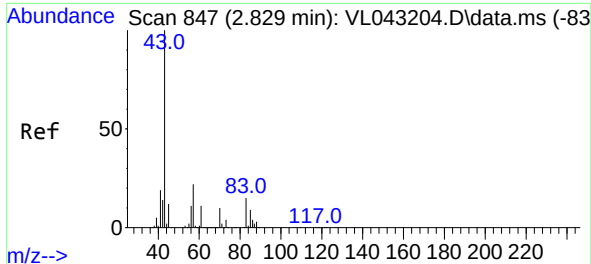
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



#24
 1,1-Dichloroethane
 Concen: 10.820 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

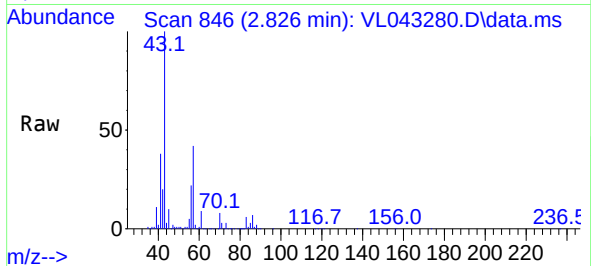
Tgt Ion: 63 Resp: 124688
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.8 8.4
 100 3.0 1.3 3.9





#25
Ethyl Acetate
Concen: 9.585 ppbv
RT: 2.826 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

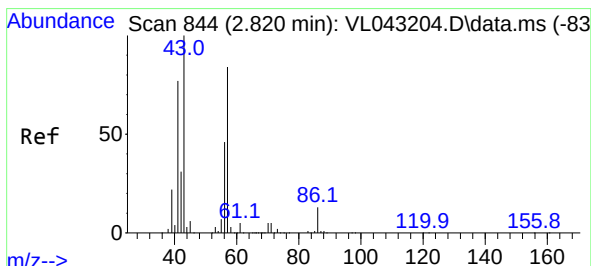
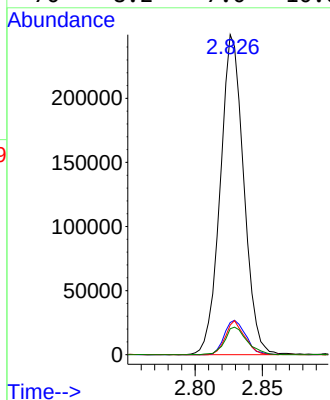
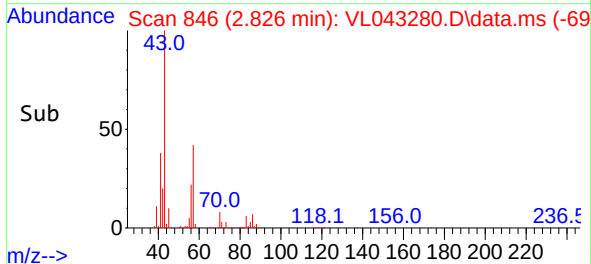
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



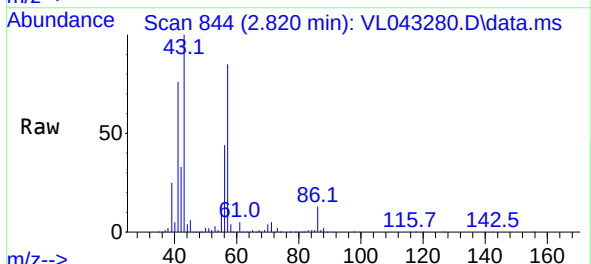
Tgt Ion: 43 Resp: 301985
Ion Ratio Lower Upper
43 100
45 9.9 8.1 12.1
61 8.7 7.0 10.4
70 8.2 7.0 10.6

Manual Integrations
APPROVED

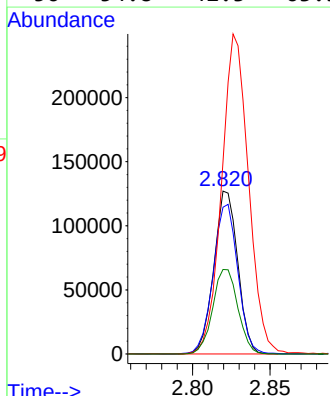
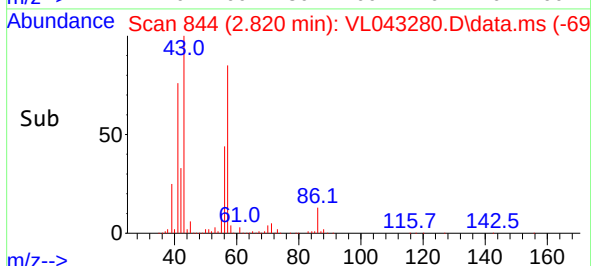
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

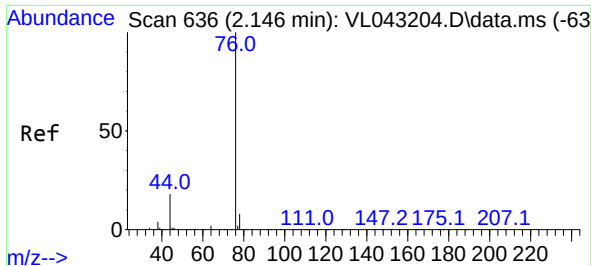


#26
Hexane
Concen: 9.841 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



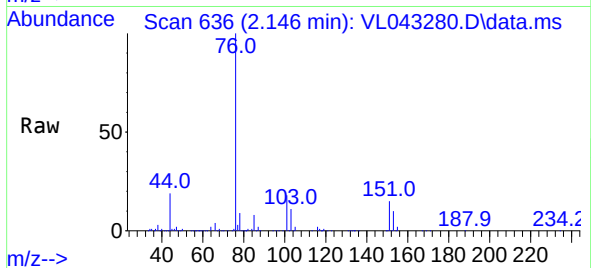
Tgt Ion: 57 Resp: 135935
Ion Ratio Lower Upper
57 100
41 95.3 74.6 111.8
43 223.4 179.0 268.4
56 54.8 42.3 63.5





#27
Carbon Disulfide
Concen: 11.226 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

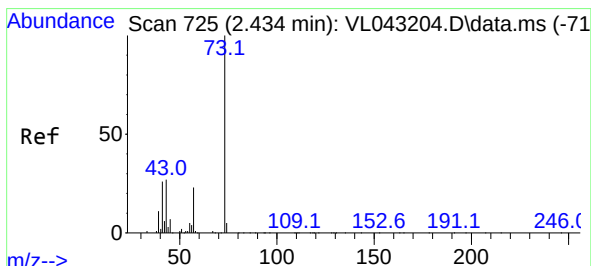
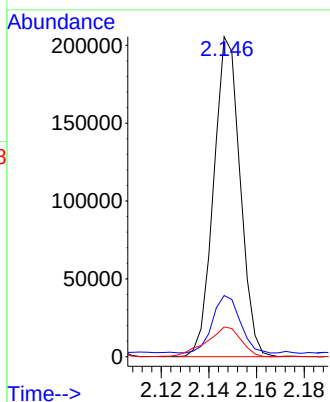
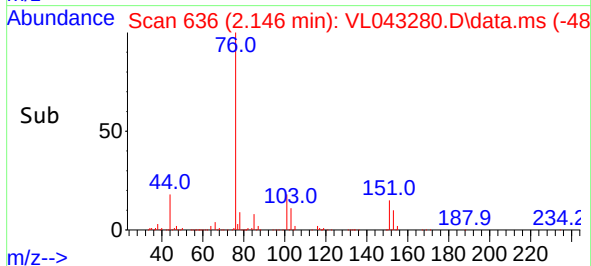
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



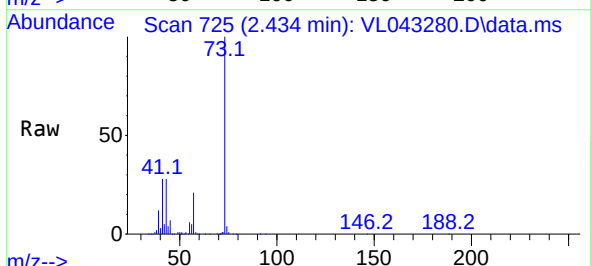
Tgt Ion: 76 Resp: 158318
Ion Ratio Lower Upper
76 100
44 20.0 16.1 24.1
78 12.2 9.6 14.4

Manual Integrations
APPROVED

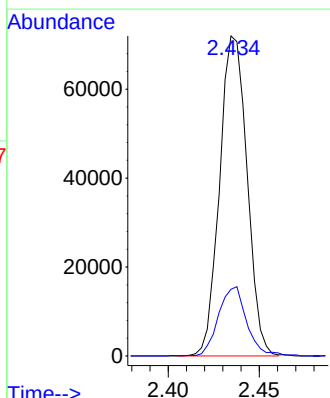
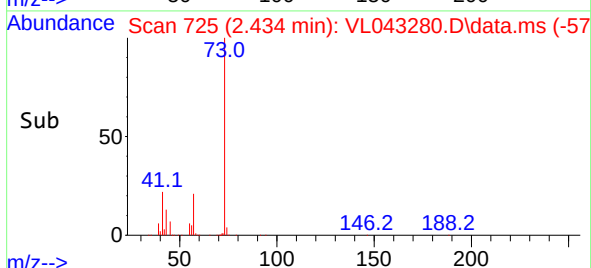
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

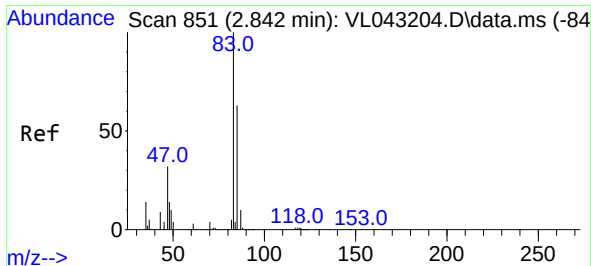


#28
Methyl tert-Butyl Ether
Concen: 11.124 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



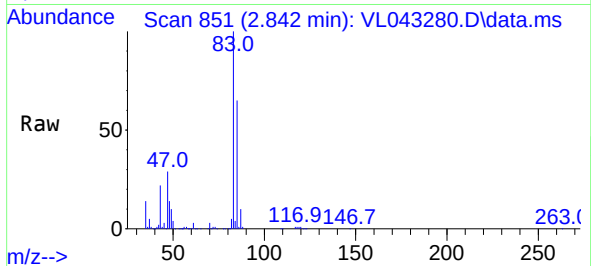
Tgt Ion: 73 Resp: 75424
Ion Ratio Lower Upper
73 100
57 22.4 19.8 29.8





#29
Chloroform
Concen: 11.642 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

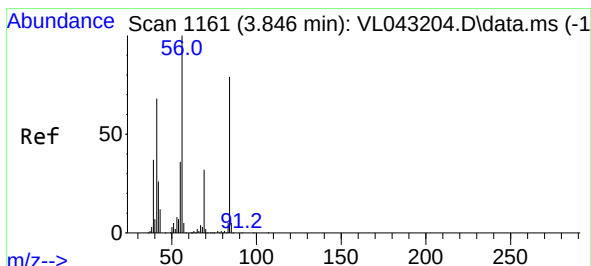
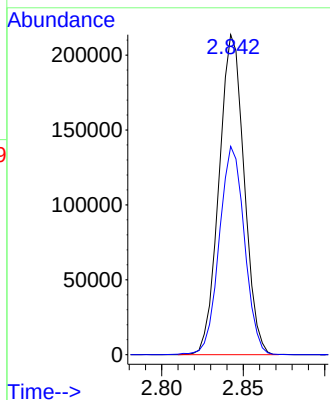
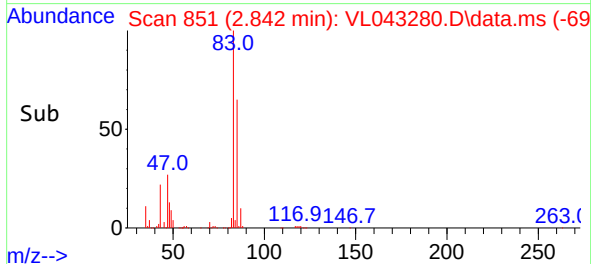
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



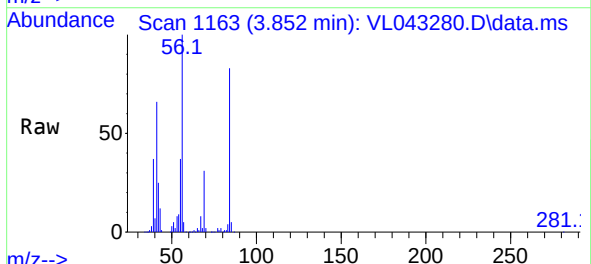
Tgt Ion: 83 Resp: 228570
Ion Ratio Lower Upper
83 100
85 65.0 50.5 75.7

Manual Integrations
APPROVED

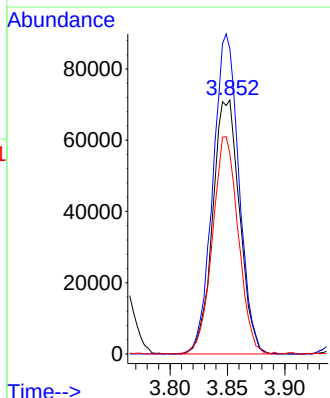
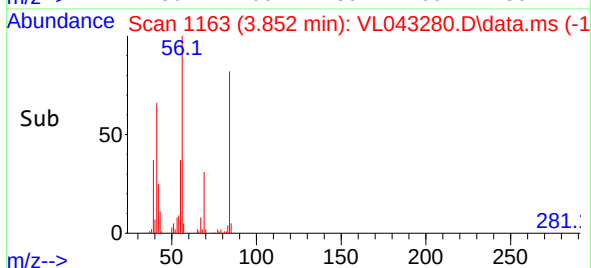
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

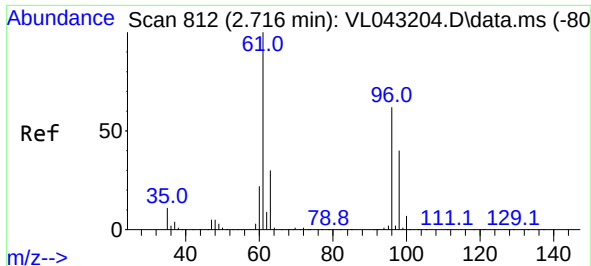


#30
Cyclohexane
Concen: 10.065 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



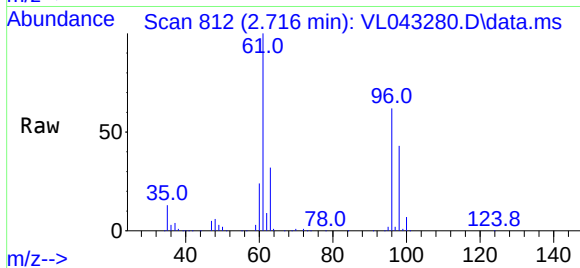
Tgt Ion: 84 Resp: 116565
Ion Ratio Lower Upper
84 100
56 121.4 104.7 157.1
41 82.3 69.0 103.6





#31
 cis-1,2-Dichloroethene
 Concen: 10.430 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

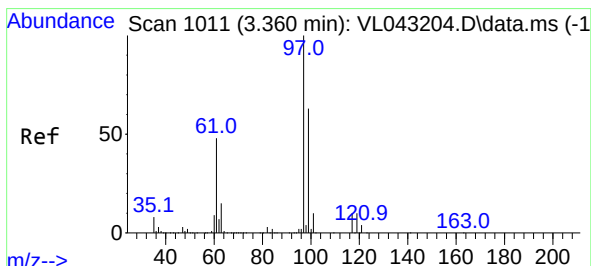
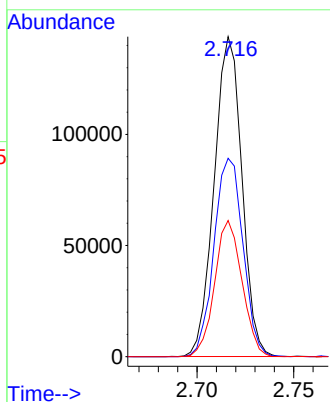
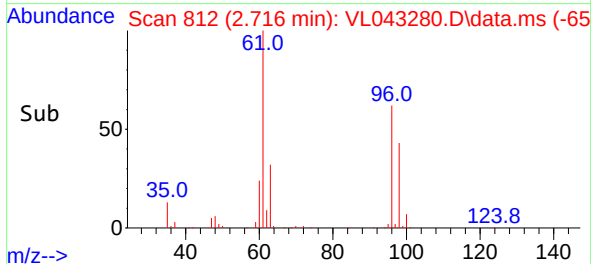
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABS01



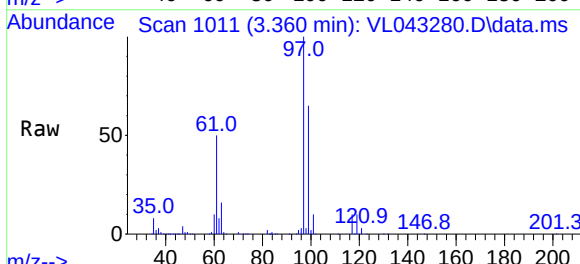
Tgt Ion: 61 Resp: 14321
 Ion Ratio Lower Upper
 61 100
 96 62.0 49.3 73.9
 98 42.6 32.1 48.1

Manual Integrations
 APPROVED

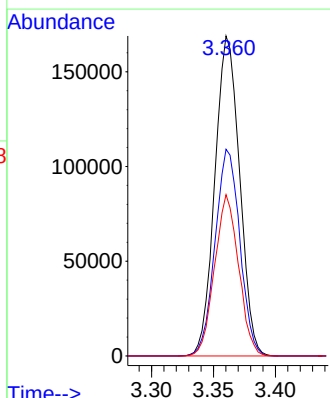
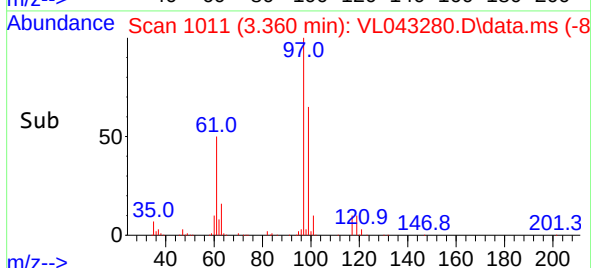
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

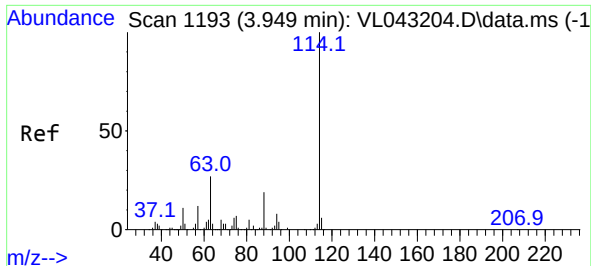


#32
 1,1,1-Trichloroethane
 Concen: 11.233 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. 0.000 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52



Tgt Ion: 97 Resp: 235081
 Ion Ratio Lower Upper
 97 100
 99 64.7 50.3 75.5
 61 48.9 38.9 58.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

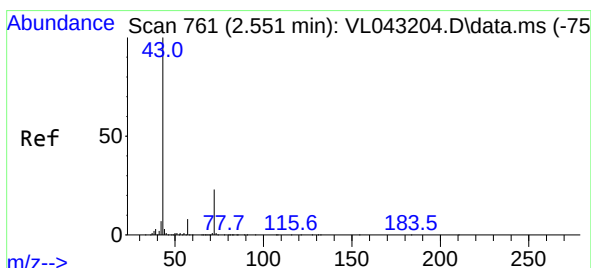
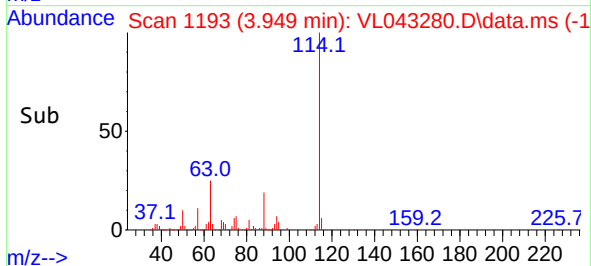
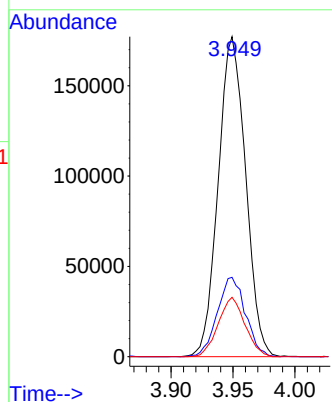
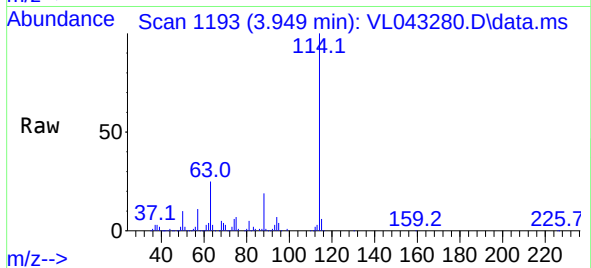
VL1124ABS01

Tgt Ion:114 Resp: 272854
Ion Ratio Lower Upper
114 100
63 25.5 21.0 31.6
88 18.1 14.9 22.3

Manual Integrations

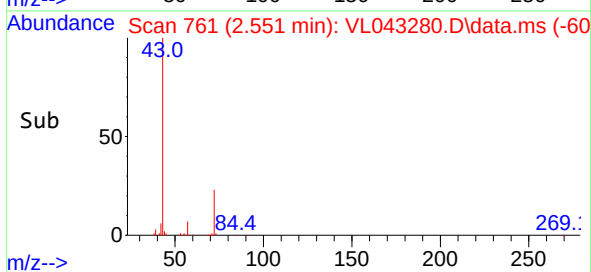
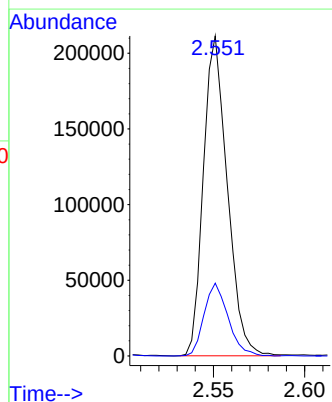
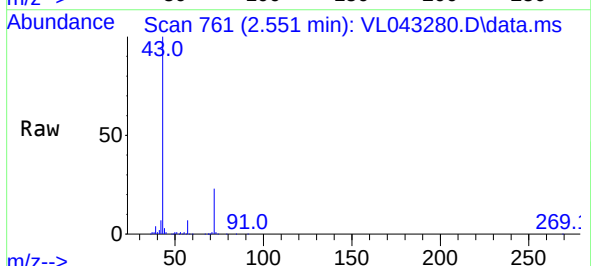
APPROVED

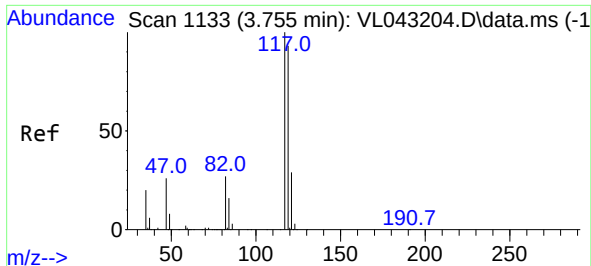
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#34
2-Butanone
Concen: 10.026 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

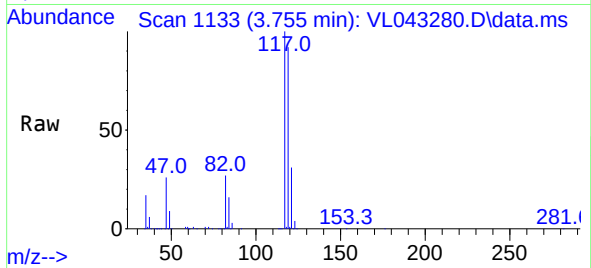
Tgt Ion: 43 Resp: 193105
Ion Ratio Lower Upper
43 100
72 22.9 18.1 27.1





#35
Carbon Tetrachloride
Concen: 11.883 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

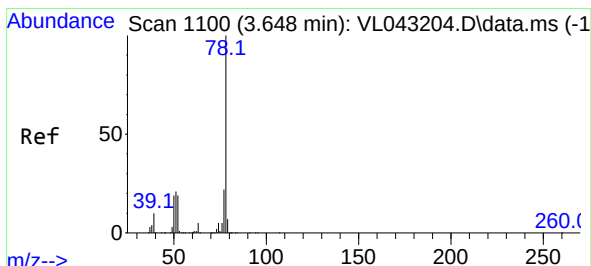
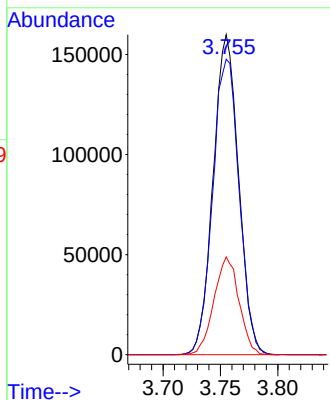
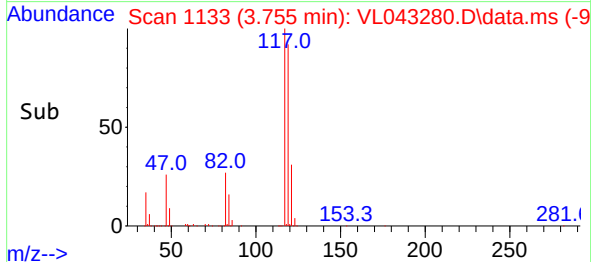
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



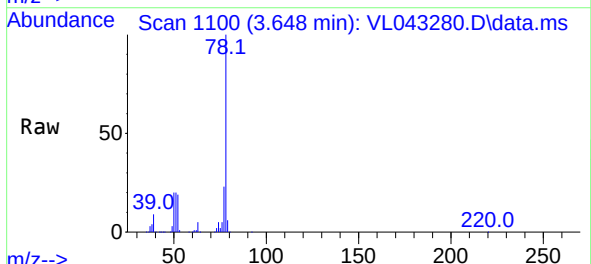
Tgt Ion:117 Resp: 246117
Ion Ratio Lower Upper
117 100
119 92.4 74.6 112.0
121 30.5 23.2 34.8

Manual Integrations
APPROVED

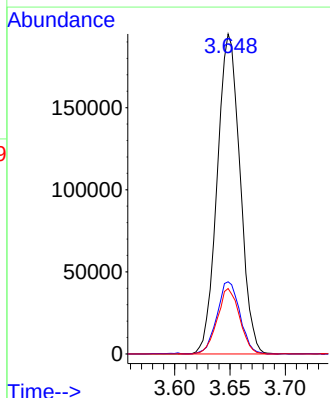
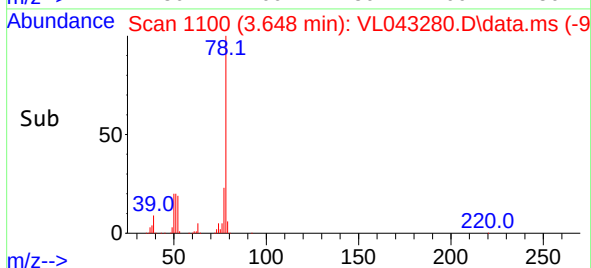
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

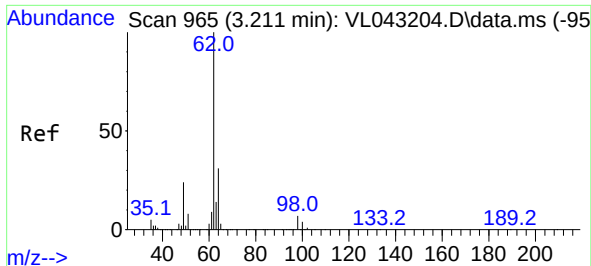


#36
Benzene
Concen: 10.697 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



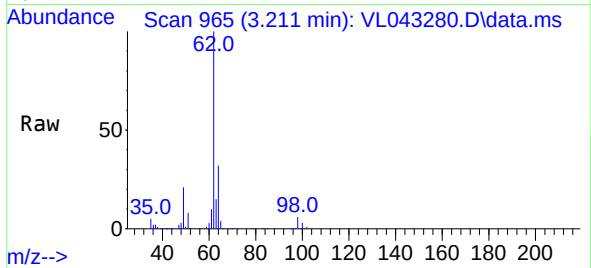
Tgt Ion: 78 Resp: 279506
Ion Ratio Lower Upper
78 100
77 22.5 17.5 26.3
50 20.4 15.5 23.3





#37
1,2-Dichloroethane
Concen: 11.703 ppbv
RT: 3.211 min Scan# 965
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

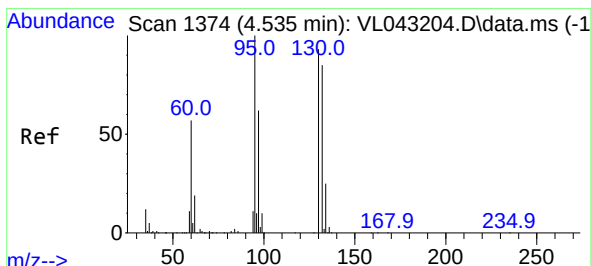
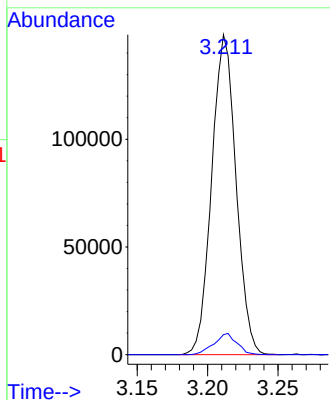
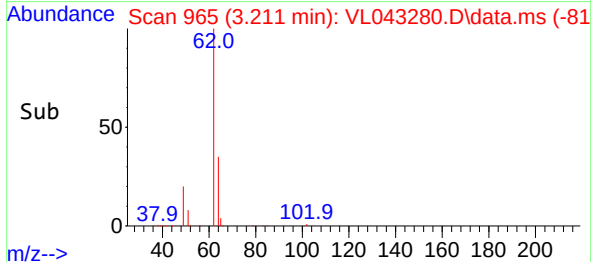
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



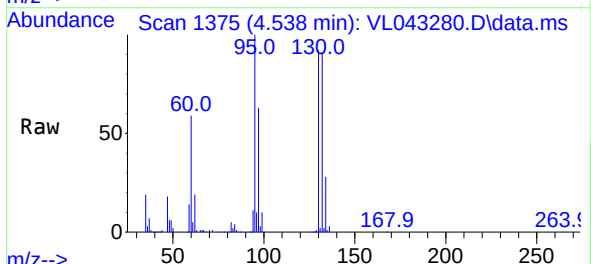
Tgt Ion: 62 Resp: 17887
Ion Ratio Lower Upper
62 100
98 6.2 5.5 8.3

Manual Integrations
APPROVED

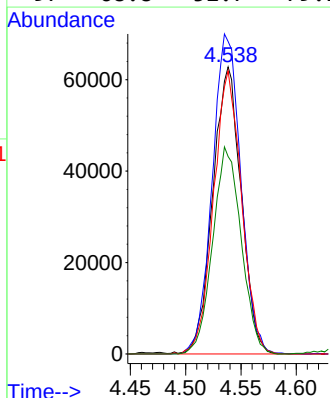
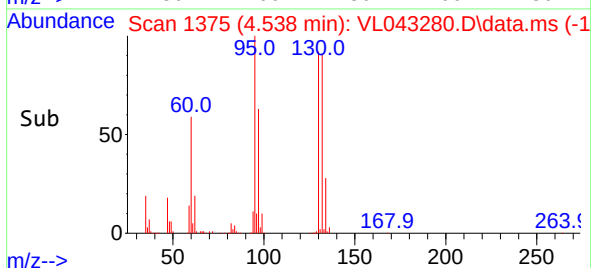
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

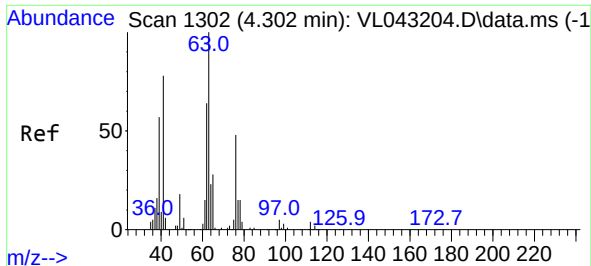


#38
Trichloroethene
Concen: 10.979 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



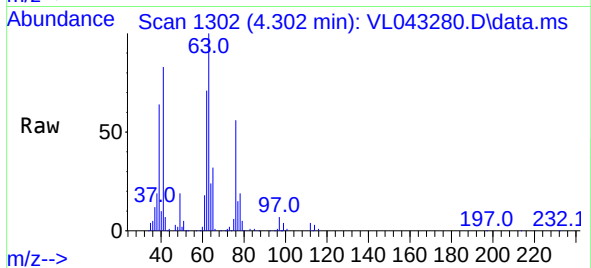
Tgt Ion:130 Resp: 112238
Ion Ratio Lower Upper
130 100
95 108.8 85.7 128.5
132 98.5 73.4 110.0
97 68.8 52.7 79.1





#39
1,2-Dichloropropane
Concen: 10.603 ppbv
RT: 4.302 min Scan# 1302
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

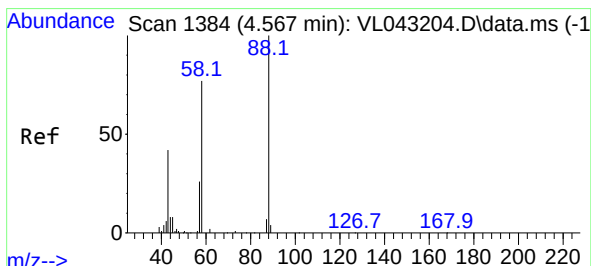
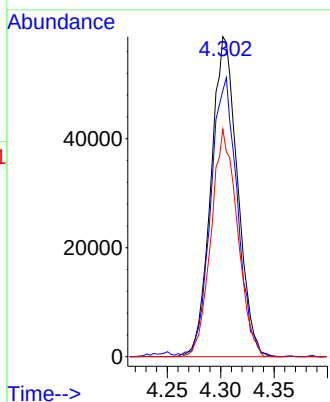
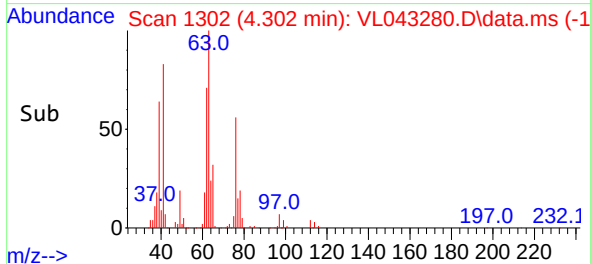
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



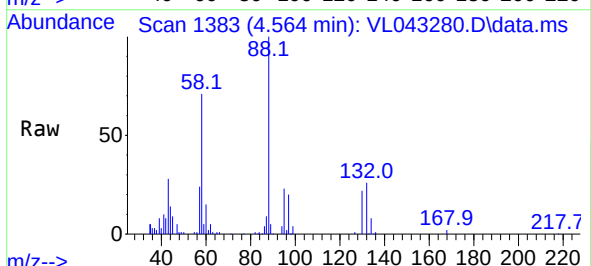
Tgt Ion: 63 Resp: 101400
Ion Ratio Lower Upper
63 100
41 83.2 62.6 93.8
62 71.1 51.0 76.6

Manual Integrations
APPROVED

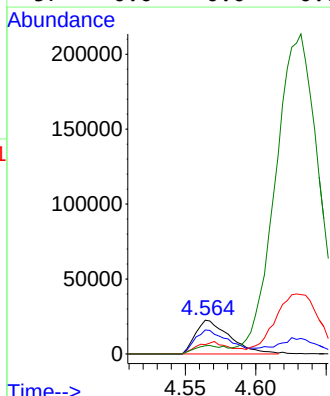
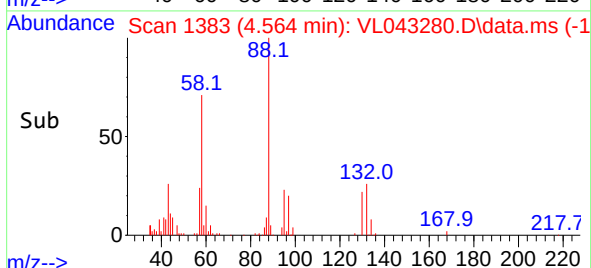
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

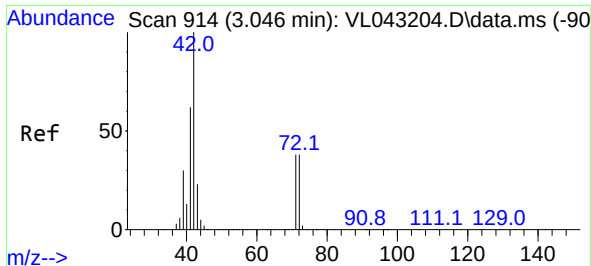


#40
1,4-Dioxane
Concen: 8.866 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



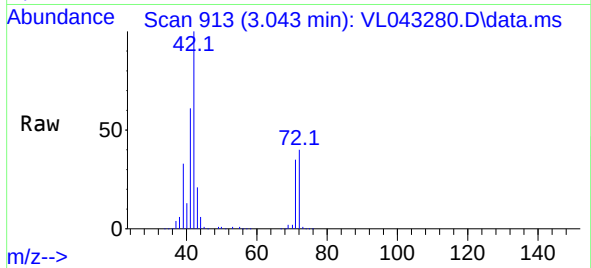
Tgt Ion: 88 Resp: 38115
Ion Ratio Lower Upper
88 100
58 74.6 63.0 94.6
43 35.5 32.5 48.7
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.685 ppbv
RT: 3.043 min Scan# 914
Delta R.T. -0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

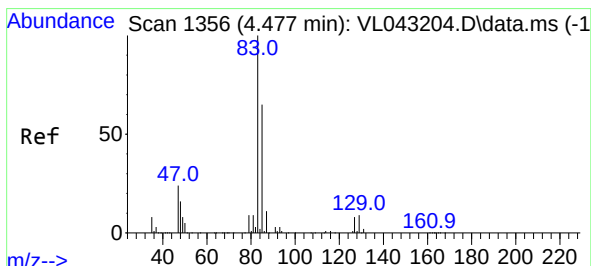
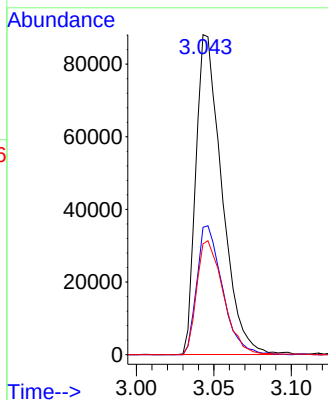
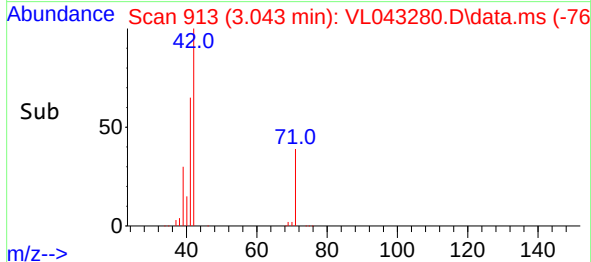
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



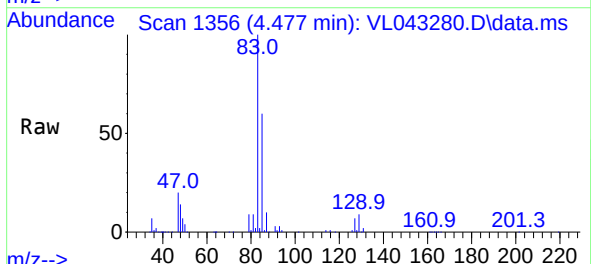
Tgt Ion: 42 Resp: 103010
Ion Ratio Lower Upper
42 100
72 39.7 30.6 46.0
71 36.6 30.5 45.7

Manual Integrations
APPROVED

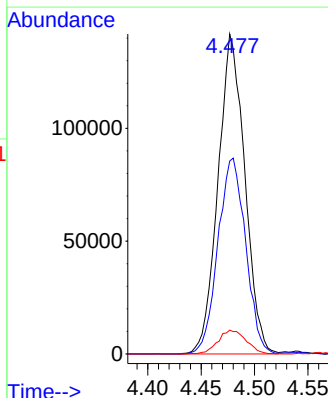
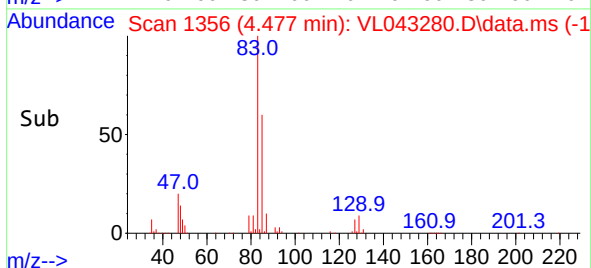
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

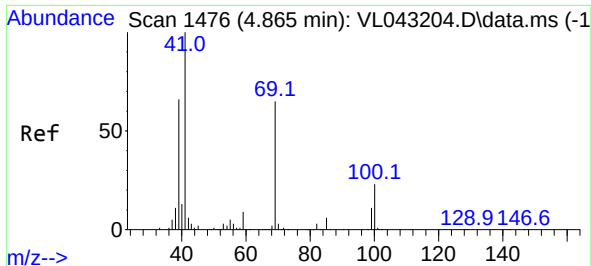


#42
Bromodichloromethane
Concen: 11.712 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion: 83 Resp: 246932
Ion Ratio Lower Upper
83 100
85 60.3 51.7 77.5
127 7.5 6.3 9.5





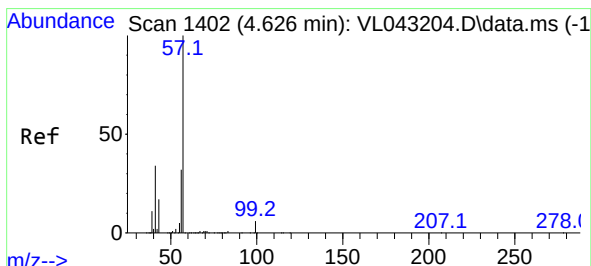
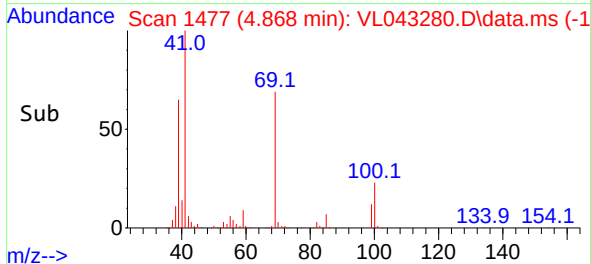
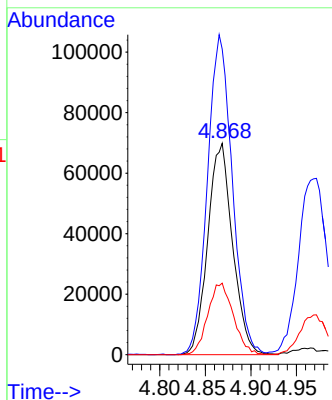
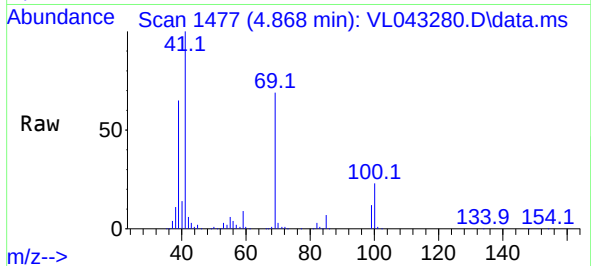
#43
Methyl Methacrylate
Concen: 9.558 ppbv
RT: 4.868 min Scan# 1476
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion: 69 Resp: 132570
Ion Ratio Lower Upper
69 100
41 151.7 126.7 190.1
100 34.8 28.6 43.0

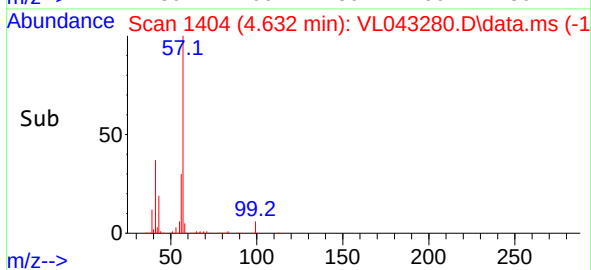
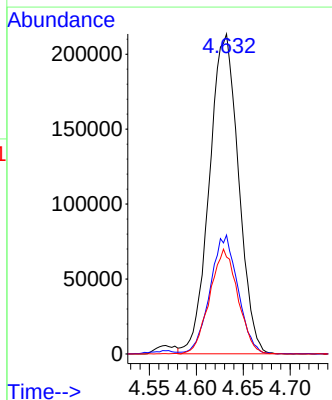
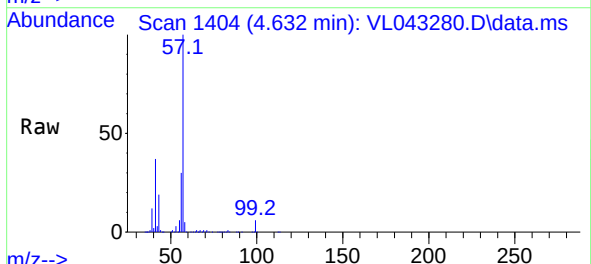
Manual Integrations
APPROVED

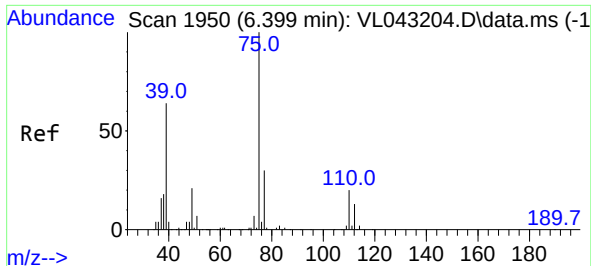
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#44
2,2,4-Trimethylpentane
Concen: 10.245 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

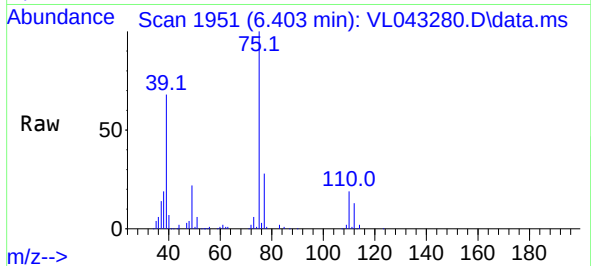
Tgt Ion: 57 Resp: 459765
Ion Ratio Lower Upper
57 100
41 35.6 28.0 42.0
56 31.8 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 8.017 ppbv
RT: 6.403 min Scan# 1951
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

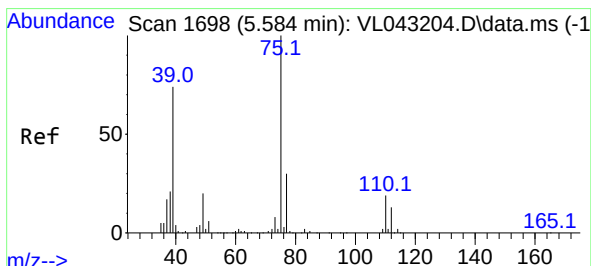
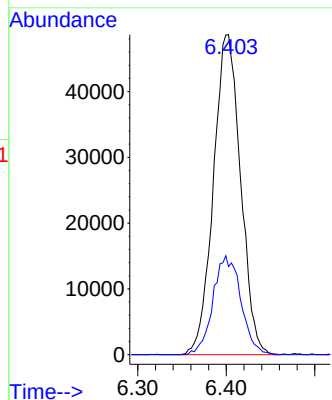
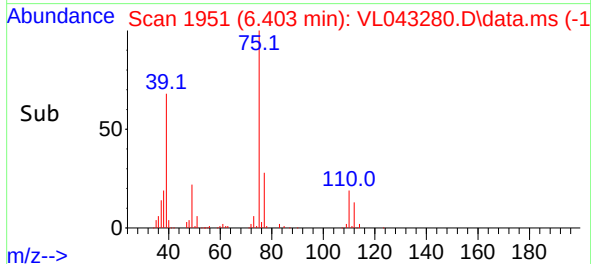
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



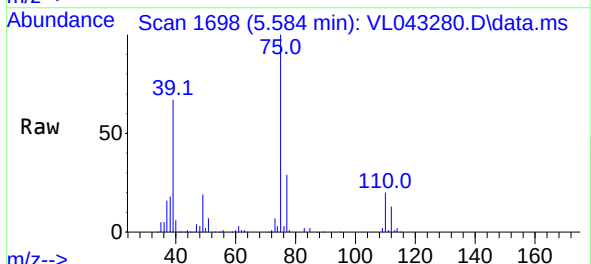
Tgt Ion: 75 Resp: 103648
Ion Ratio Lower Upper
75 100
77 27.6 24.3 36.5

Manual Integrations
APPROVED

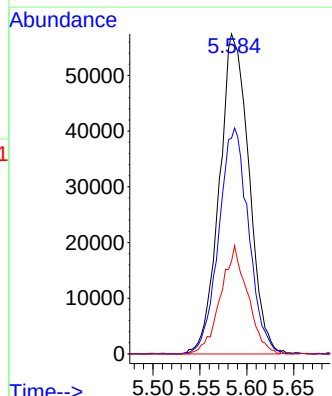
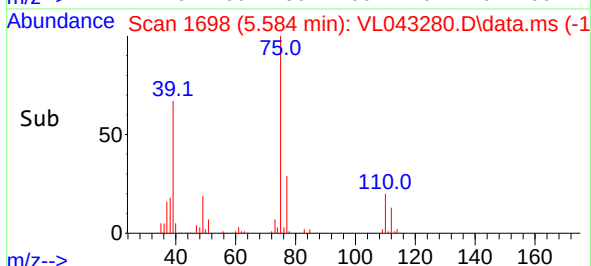
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

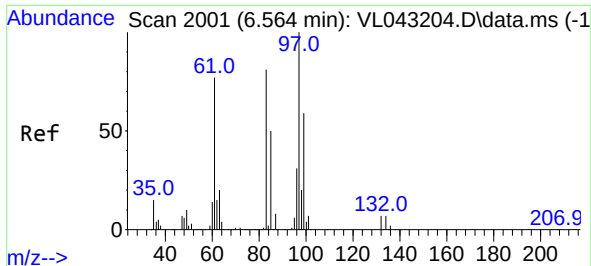


#46
cis-1,3-Dichloropropene
Concen: 8.277 ppbv
RT: 5.584 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion: 75 Resp: 125652
Ion Ratio Lower Upper
75 100
39 67.4 59.1 88.7
77 29.0 24.2 36.2





#47
1,1,2-Trichloroethane
Concen: 10.976 ppbv
RT: 6.568 min Scan# 2001
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

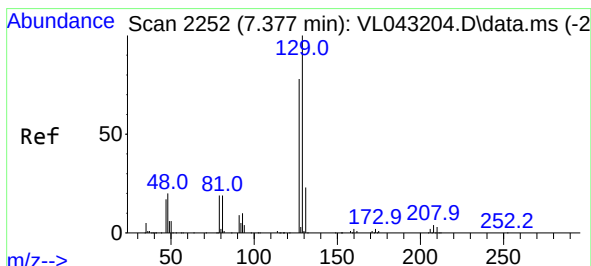
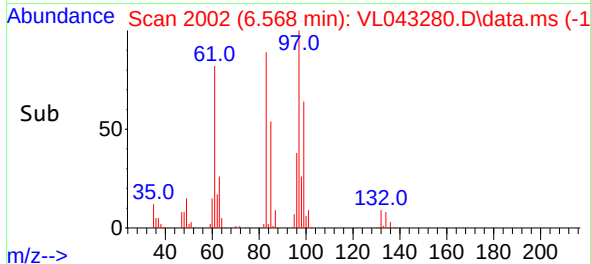
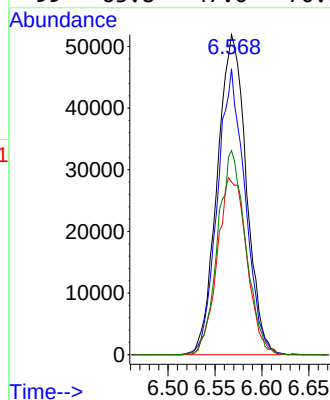
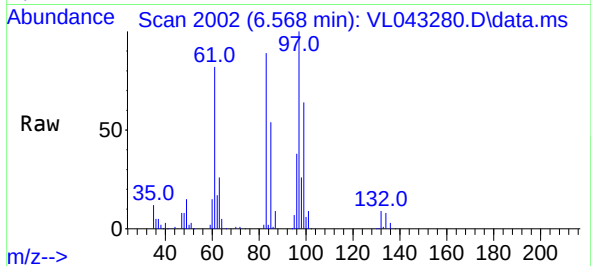
VL1124ABS01

Tgt Ion: 97 Resp: 11140
Ion Ratio Lower Upper
97 100
83 89.4 64.6 97.0
85 54.0 39.4 59.2
99 63.8 47.0 70.6

Manual Integrations

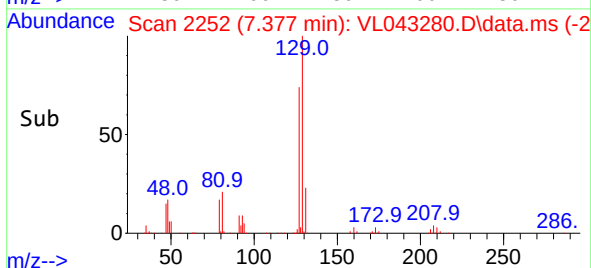
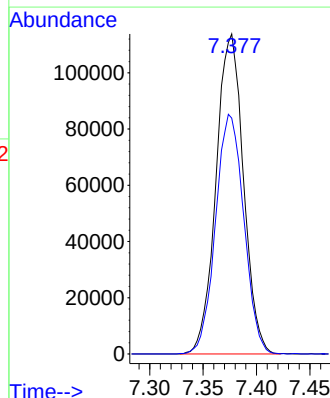
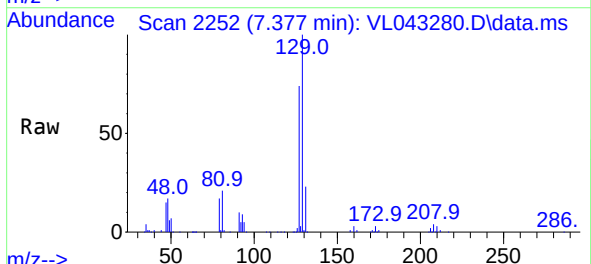
APPROVED

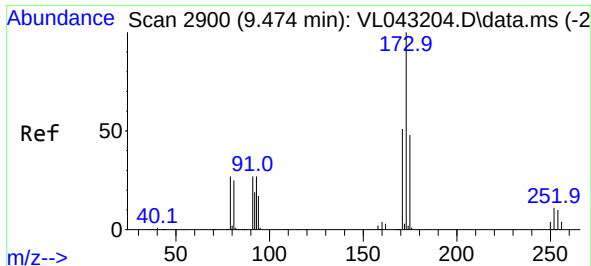
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#48
Dibromochloromethane
Concen: 11.640 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

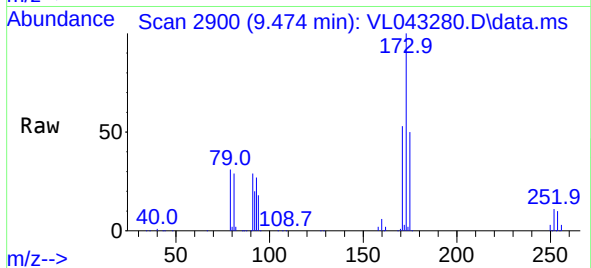
Tgt Ion:129 Resp: 203117
Ion Ratio Lower Upper
129 100
127 77.3 39.3 117.9





#49
Bromoform
Concen: 11.633 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

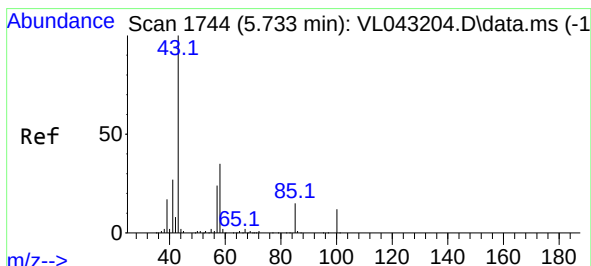
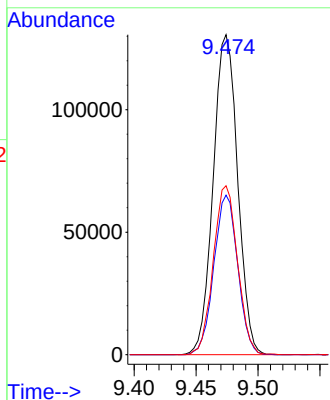
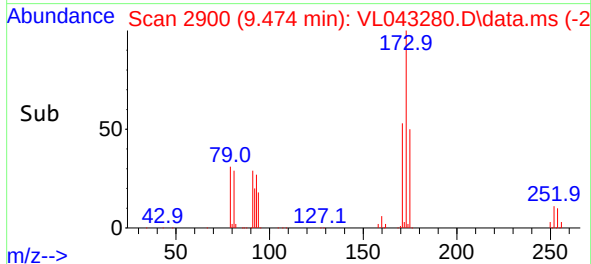
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



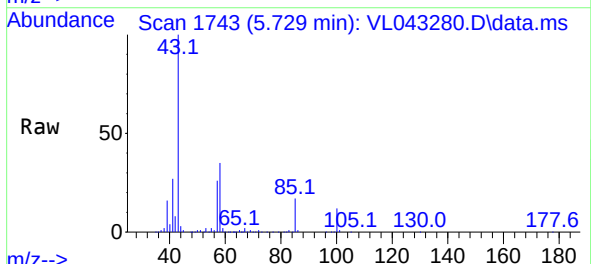
Tgt Ion: 173 Resp: 179808
Ion Ratio Lower Upper
173 100
175 48.7 38.6 58.0
171 52.3 40.6 61.0

Manual Integrations
APPROVED

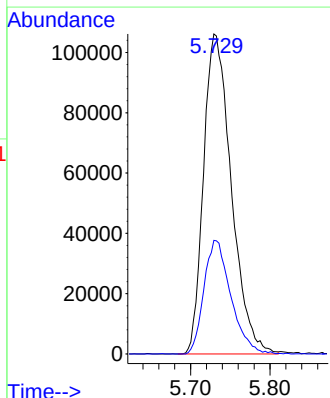
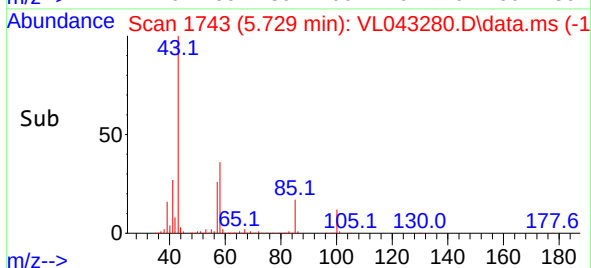
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

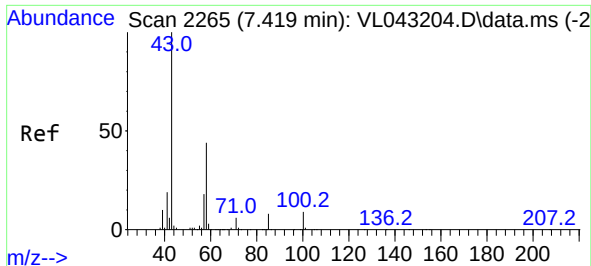


#50
4-Methyl-2-Pentanone
Concen: 9.505 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. -0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



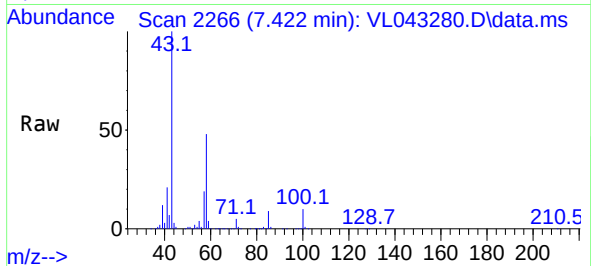
Tgt Ion: 43 Resp: 257888
Ion Ratio Lower Upper
43 100
58 34.4 28.4 42.6





#51
2-Hexanone
Concen: 8.777 ppbv
RT: 7.422 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

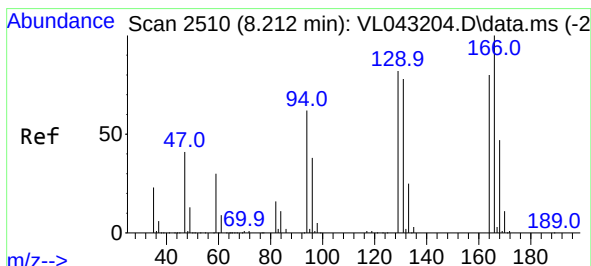
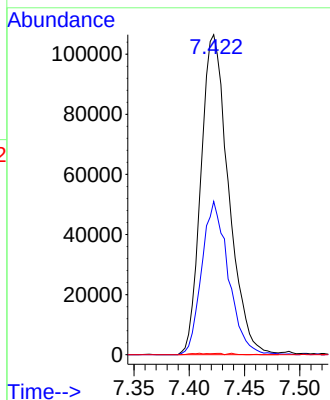
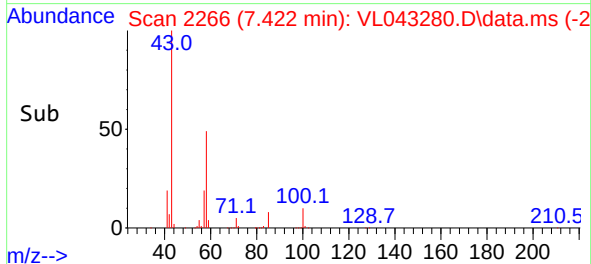
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



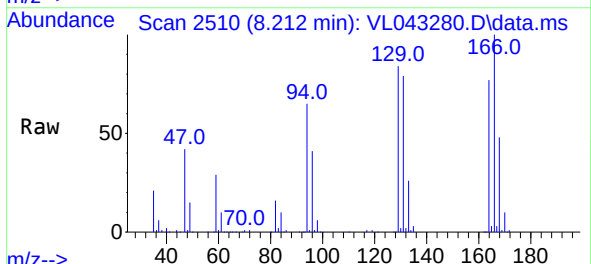
Tgt Ion: 43 Resp: 184928
Ion Ratio Lower Upper
43 100
58 46.5 38.4 57.6
98 0.5 0.0 0.0

Manual Integrations
APPROVED

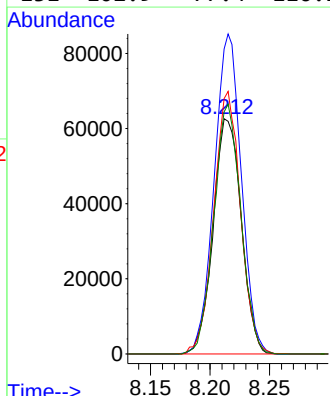
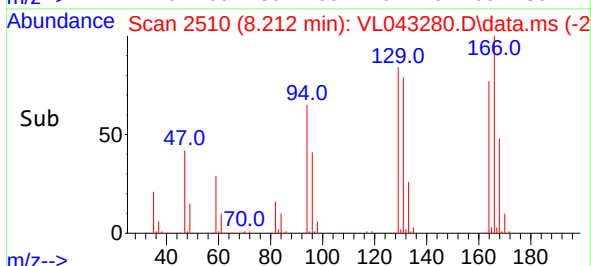
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

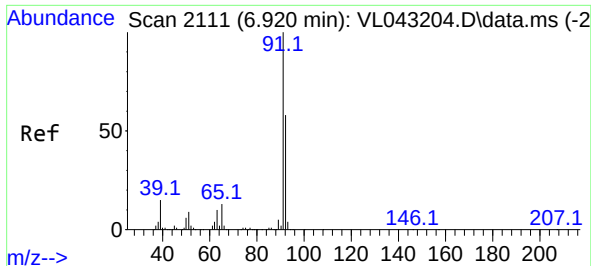


#52
Tetrachloroethene
Concen: 10.563 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



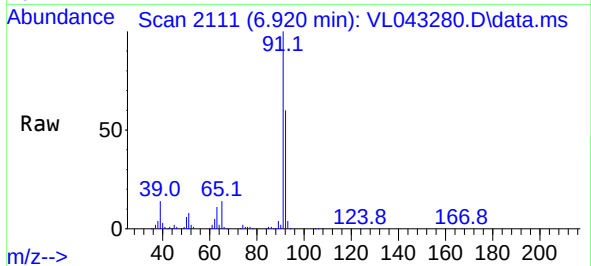
Tgt Ion:164 Resp: 102674
Ion Ratio Lower Upper
164 100
166 129.7 99.4 149.2
129 108.4 81.8 122.8
131 102.9 77.4 116.2





#53
Toluene
Concen: 10.193 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

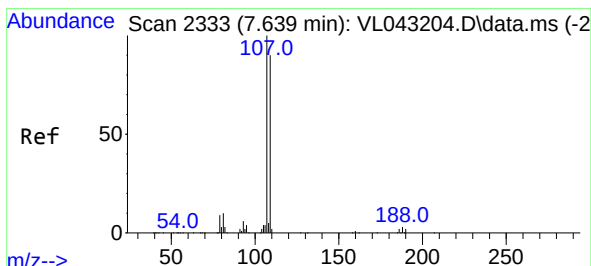
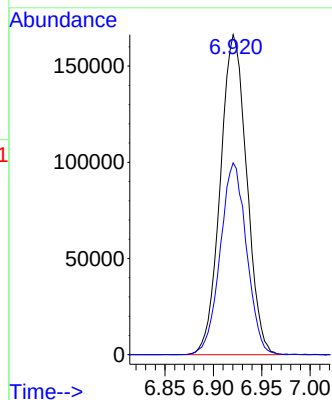
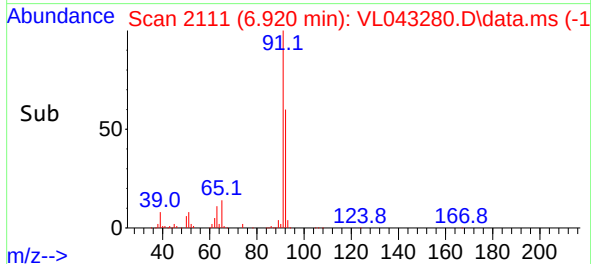
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



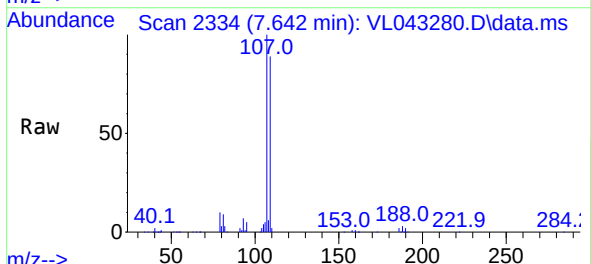
Tgt Ion: 91 Resp: 315380
Ion Ratio Lower Upper
91 100
92 59.9 47.4 71.0

Manual Integrations
APPROVED

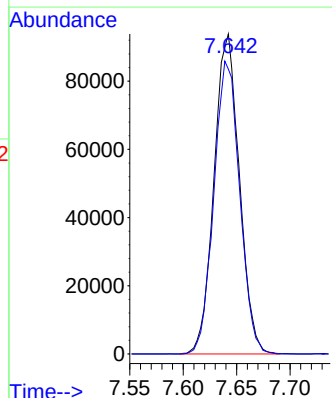
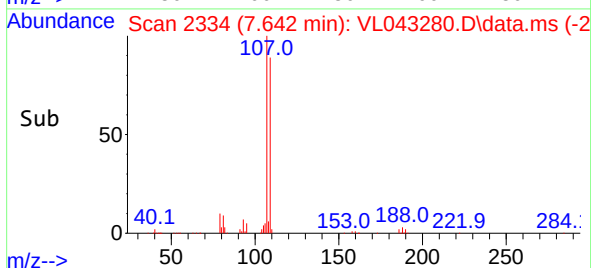
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

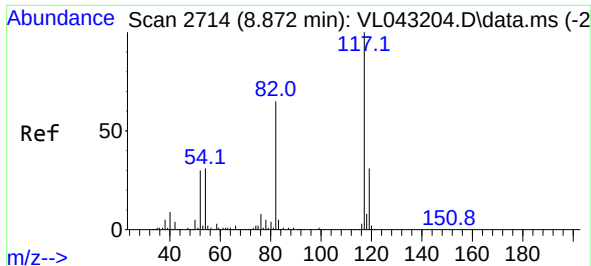


#54
1,2-Dibromoethane
Concen: 10.366 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



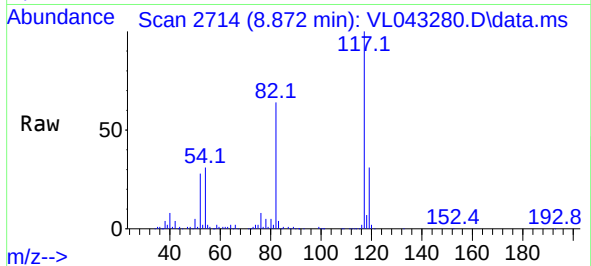
Tgt Ion:107 Resp: 154824
Ion Ratio Lower Upper
107 100
109 89.0 72.1 108.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

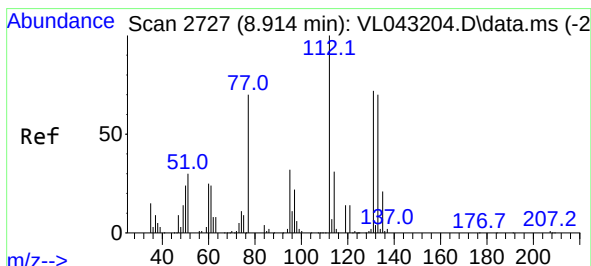
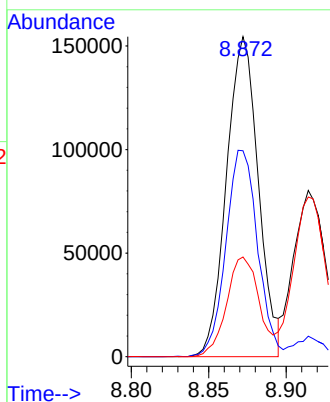
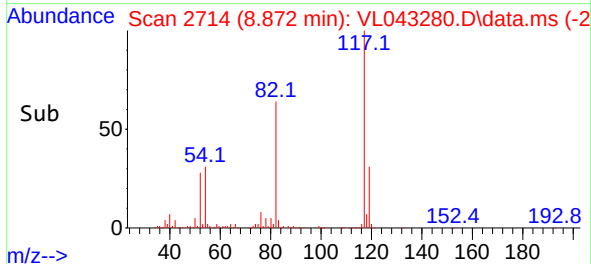
Instrument :
MSVOA_1
ClientSampleId :
VL1124ABS01



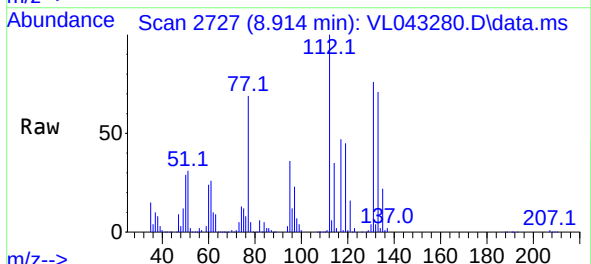
Tgt Ion:117 Resp: 221036
Ion Ratio Lower Upper
117 100
82 70.2 56.1 84.1
119 30.8 25.0 37.6

Manual Integrations
APPROVED

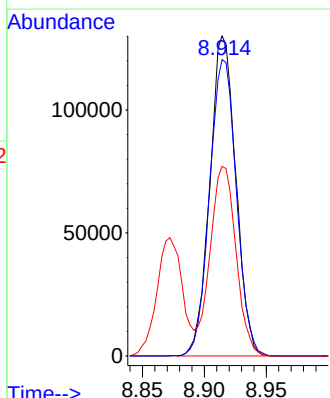
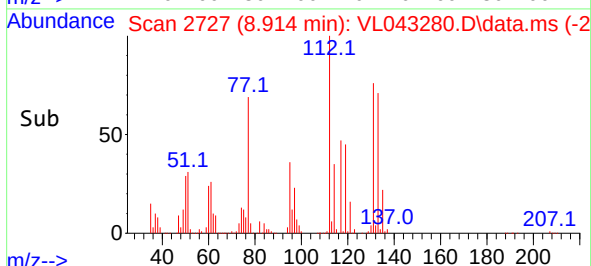
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

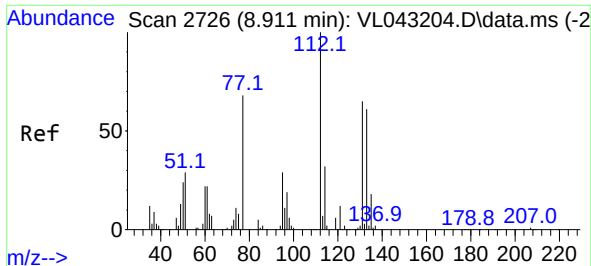


#56
1,1,1,2-Tetrachloroethane
Concen: 11.700 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion:131 Resp: 190059
Ion Ratio Lower Upper
131 100
133 95.5 77.4 116.2
119 59.3 49.1 73.7





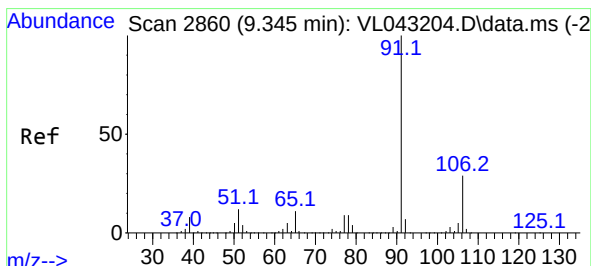
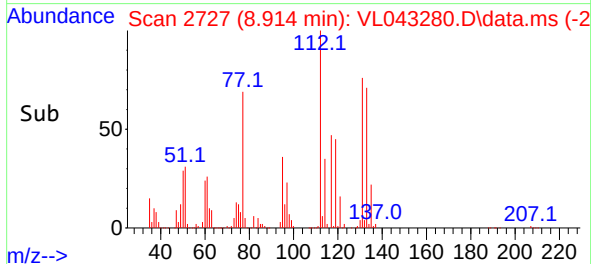
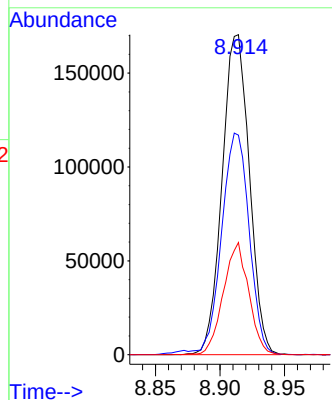
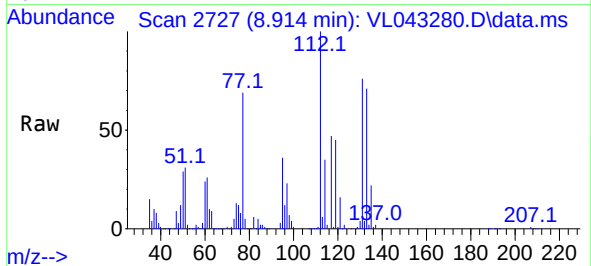
#57
Chlorobenzene
Concen: 11.045 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_1
ClientSampleId :
VL1124ABS01

Tgt Ion:112 Resp: 250652
Ion Ratio Lower Upper
112 100
77 68.5 55.5 83.3
114 35.0 29.1 35.5

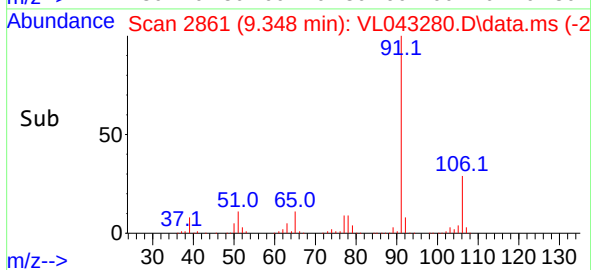
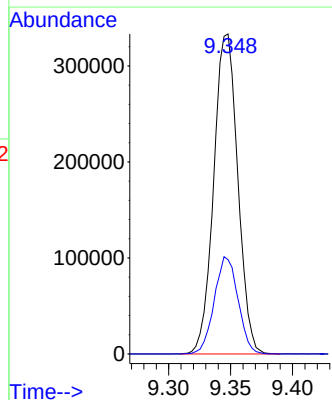
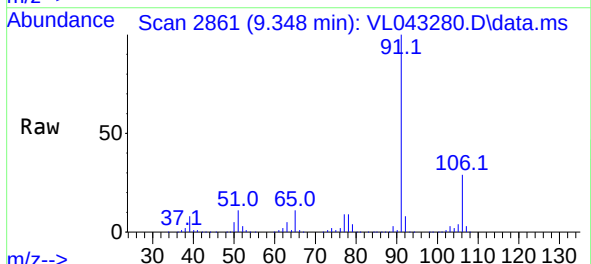
Manual Integrations
APPROVED

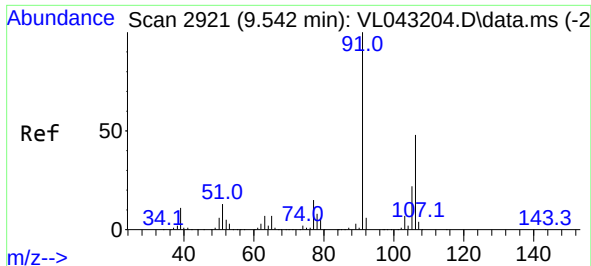
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#58
Ethyl Benzene
Concen: 10.609 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Tgt Ion: 91 Resp: 451322
Ion Ratio Lower Upper
91 100
106 29.5 22.8 34.2





#59

m/p-Xylene

Concen: 21.791 ppbv m

RT: 9.523 min Scan# 2921

Delta R.T. -0.019 min

Lab File: VL043280.D

Acq: 24 Nov 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

VL1124ABS01

Tgt Ion: 91 Resp: 74326

Ion Ratio Lower Upper

91 100

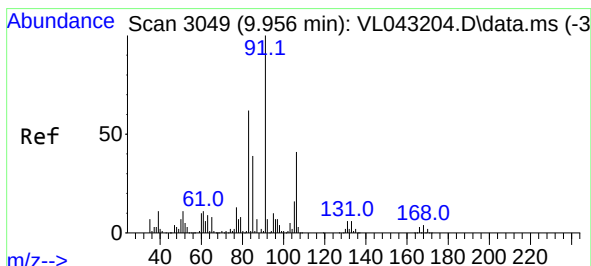
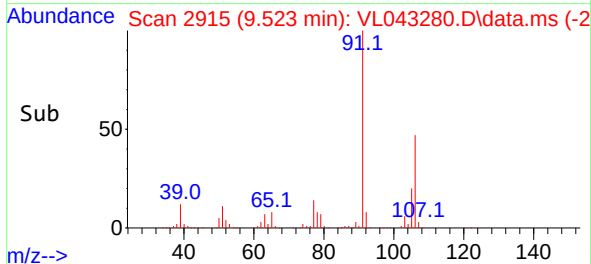
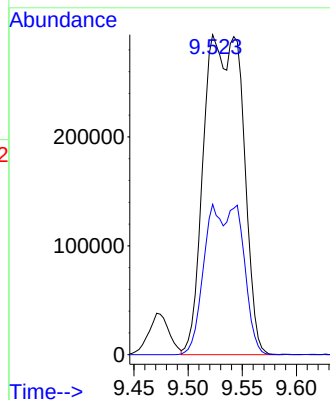
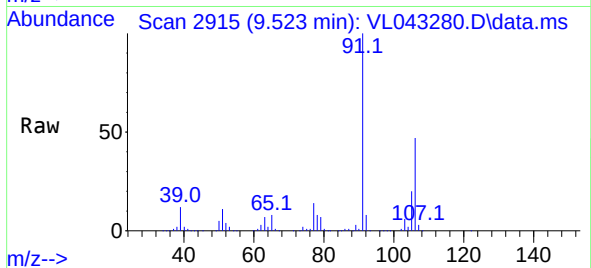
106 0.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#60

o-Xylene

Concen: 10.794 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. 0.000 min

Lab File: VL043280.D

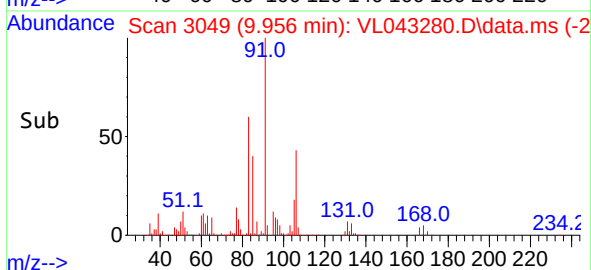
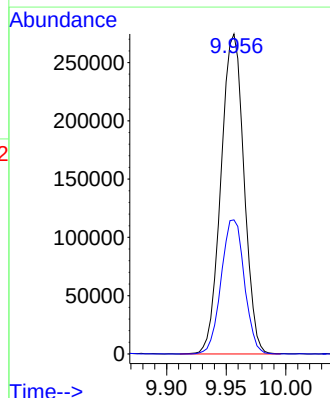
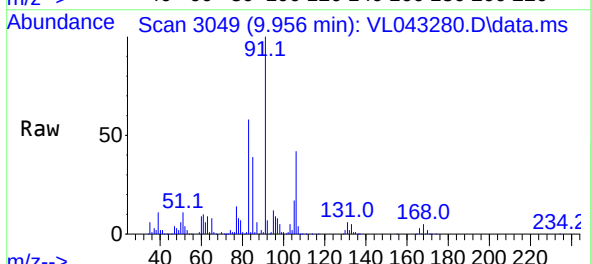
Acq: 24 Nov 2025 13:52

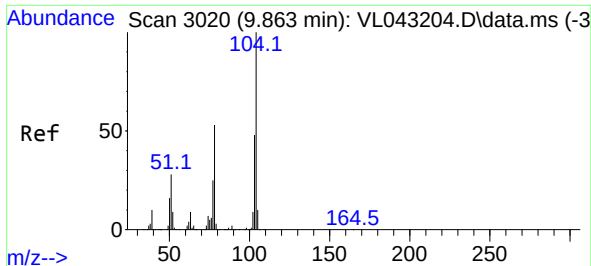
Tgt Ion: 91 Resp: 367807

Ion Ratio Lower Upper

91 100

106 42.3 20.9 62.8





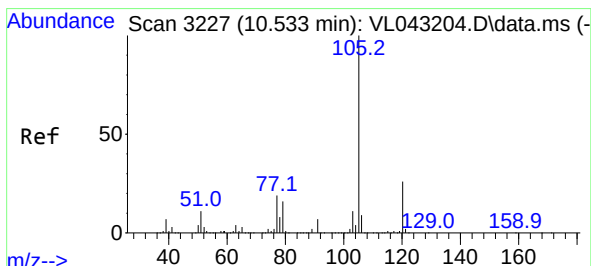
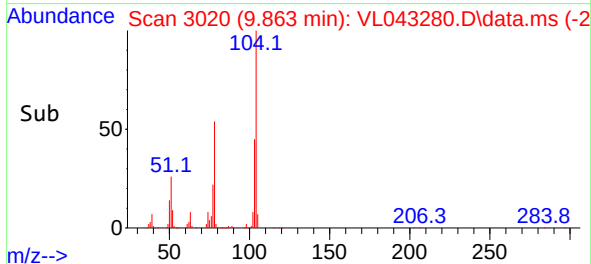
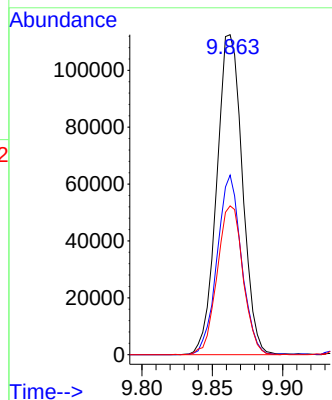
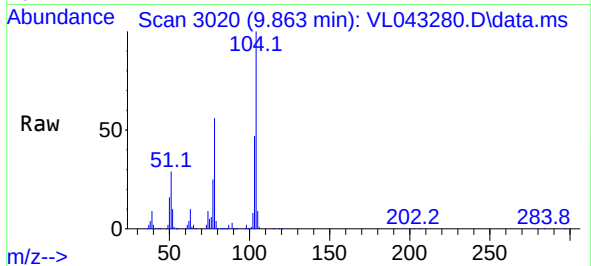
#61
Styrene
Concen: 9.583 ppbv
RT: 9.863 min Scan# 3020
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion:104 Resp: 142907
Ion Ratio Lower Upper
104 100
78 53.5 42.1 63.1
103 46.8 37.2 55.8

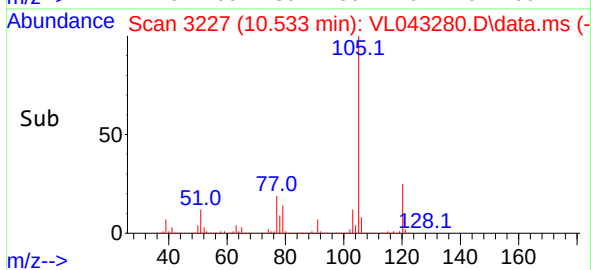
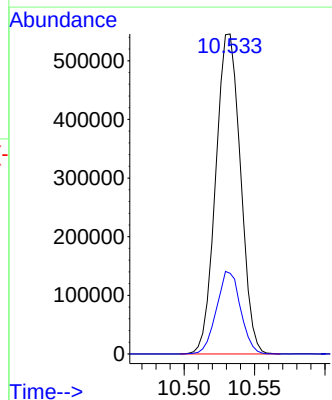
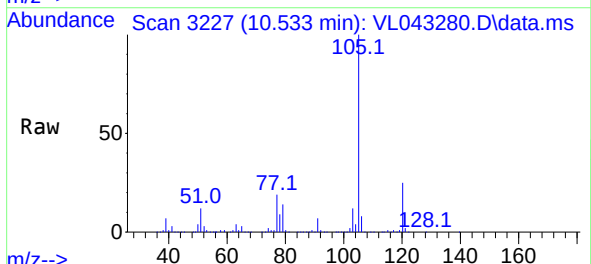
Manual Integrations
APPROVED

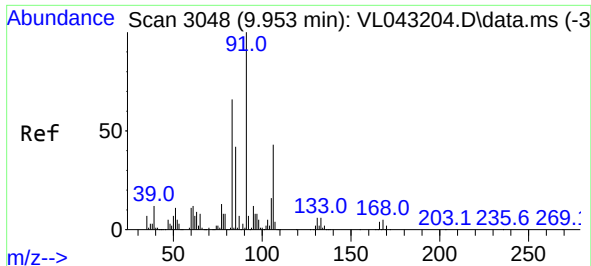
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#62
Isopropylbenzene
Concen: 10.984 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

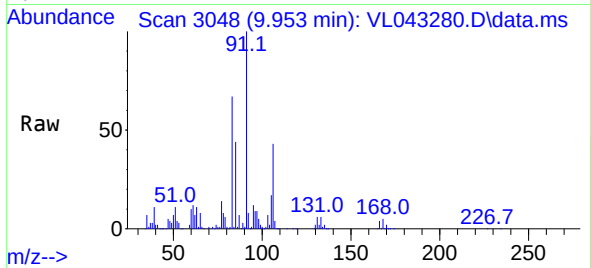
Tgt Ion:105 Resp: 669597
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 10.489 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

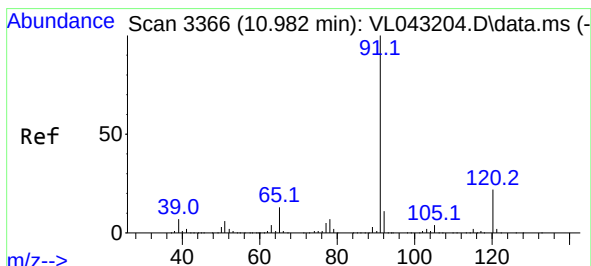
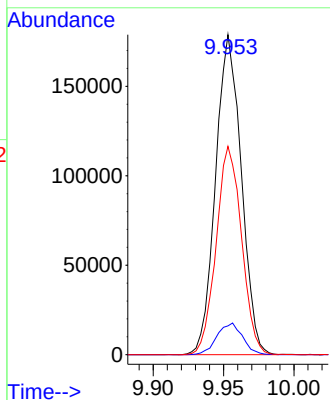
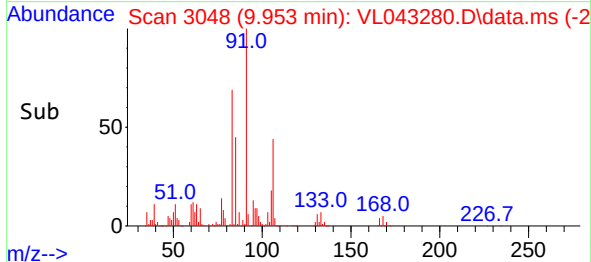
Instrument :
MSVOA_1
ClientSampleId :
VL1124ABS01



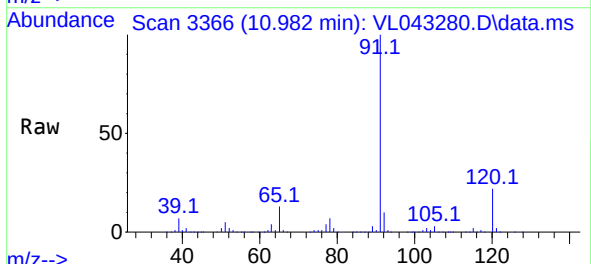
Tgt Ion: 83 Resp: 227409
Ion Ratio Lower Upper
83 100
131 9.9 4.8 14.3
85 64.4 31.9 95.9

Manual Integrations
APPROVED

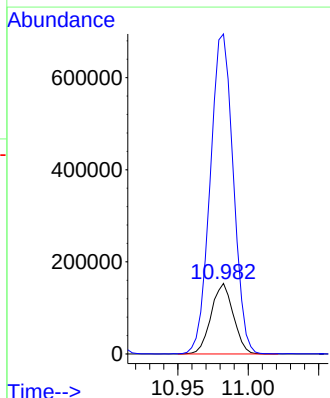
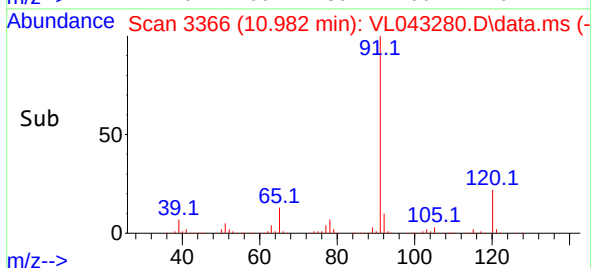
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

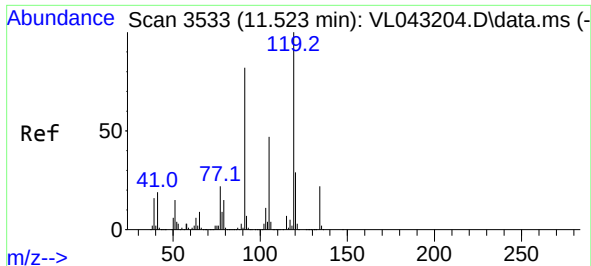


#64
n-propylbenzene
Concen: 10.701 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion:120 Resp: 167620
Ion Ratio Lower Upper
120 100
91 474.3 377.1 565.7





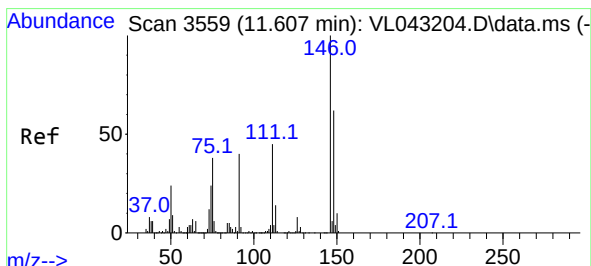
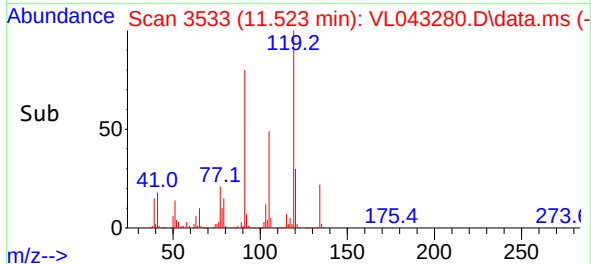
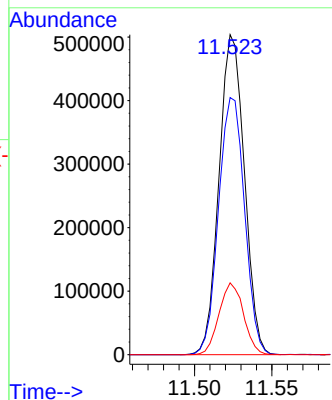
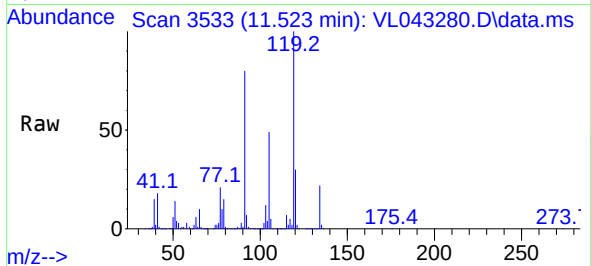
#65
tert-Butylbenzene
Concen: 10.526 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion: 119 Resp: 573049
Ion Ratio Lower Upper
119 100
91 82.6 65.3 97.9
134 21.7 17.0 25.4

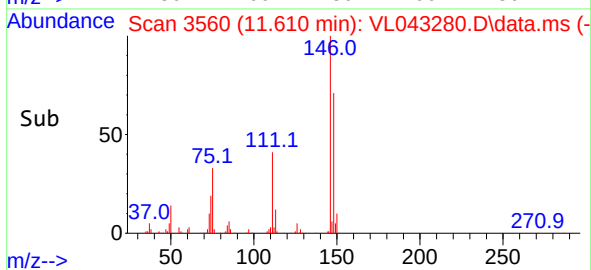
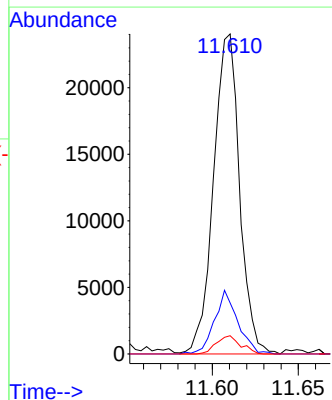
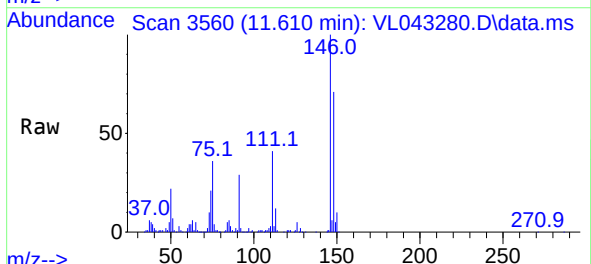
Manual Integrations
APPROVED

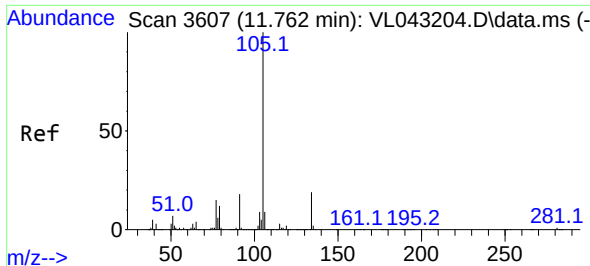
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#66
Benzyl Chloride
Concen: 4.585 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

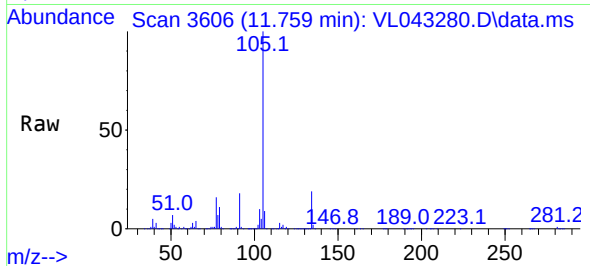
Tgt Ion: 91 Resp: 25332
Ion Ratio Lower Upper
91 100
126 17.8 14.4 21.6
128 5.3 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 10.559 ppbv
 RT: 11.759 min Scan# 3066
 Delta R.T. -0.003 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

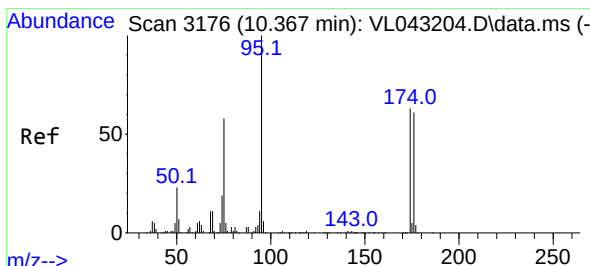
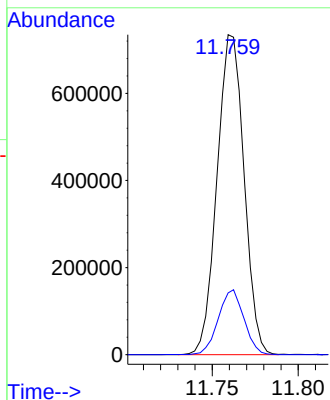
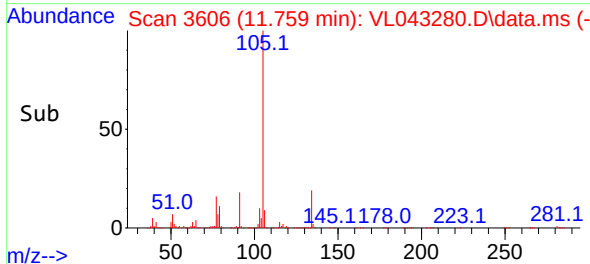
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABS01



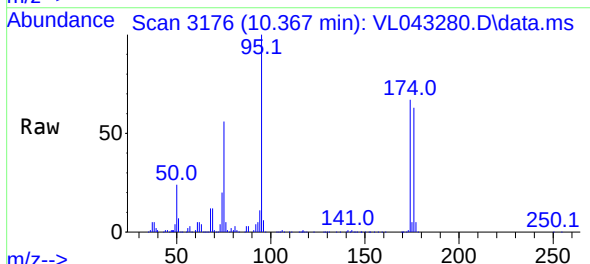
Tgt Ion:105 Resp: 802399
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.0 22.6

Manual Integrations
 APPROVED

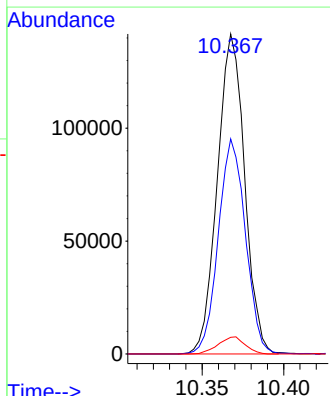
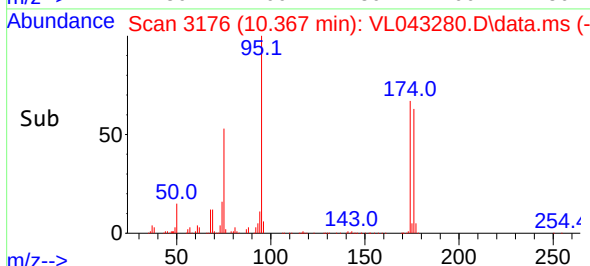
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

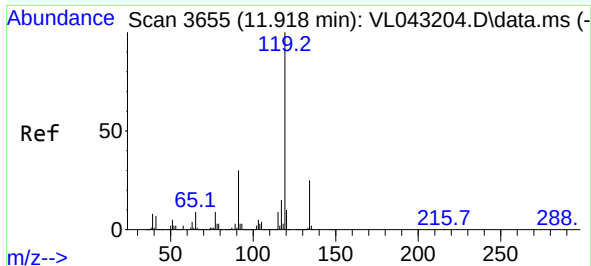


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.175 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.000 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52



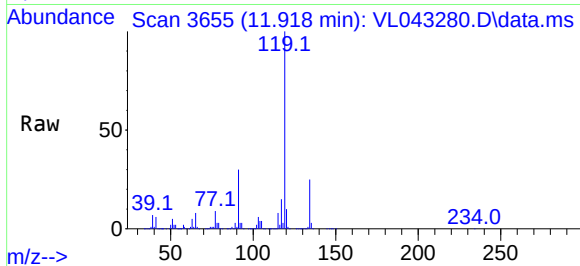
Tgt Ion: 95 Resp: 164851
 Ion Ratio Lower Upper
 95 100
 174 67.0 50.2 75.2
 175 5.3 4.1 6.1





#69
p-Isopropyltoluene
Concen: 10.349 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

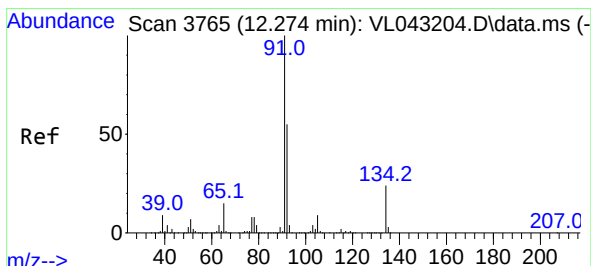
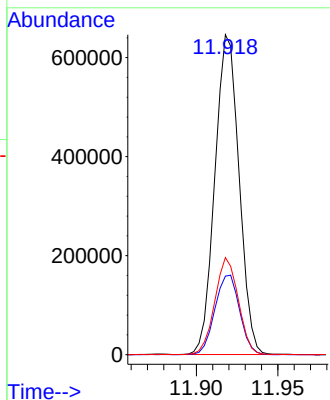
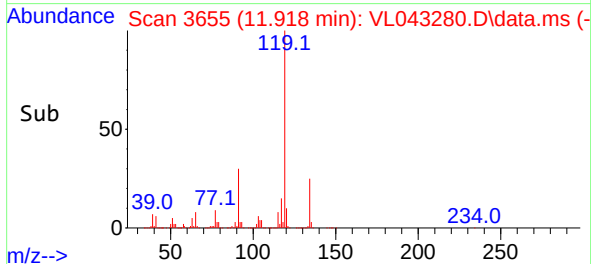
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



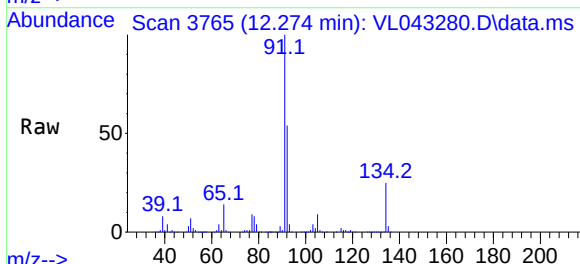
Tgt Ion:119 Resp: 666208
Ion Ratio Lower Upper
119 100
134 25.5 20.2 30.2
91 29.8 23.8 35.8

Manual Integrations
APPROVED

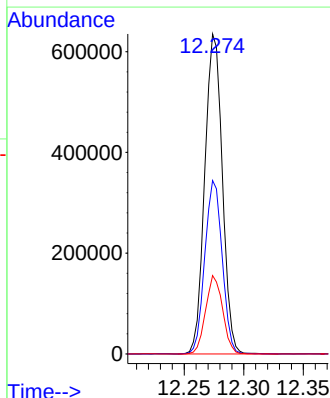
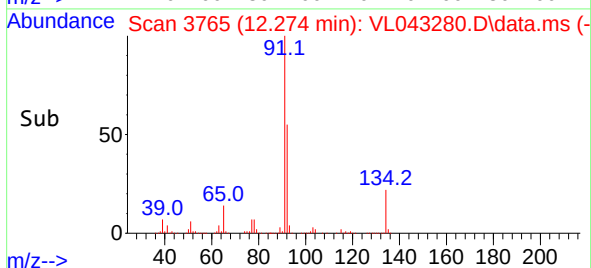
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

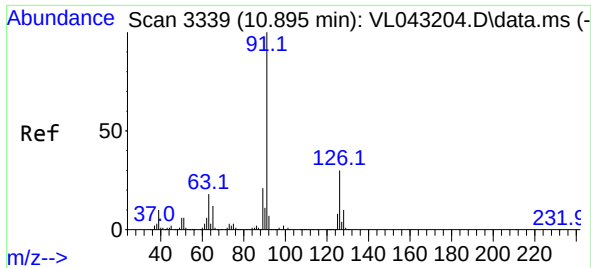


#70
n-Butylbenzene
Concen: 10.465 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion: 91 Resp: 653544
Ion Ratio Lower Upper
91 100
92 53.7 43.5 65.3
134 23.8 19.0 28.6





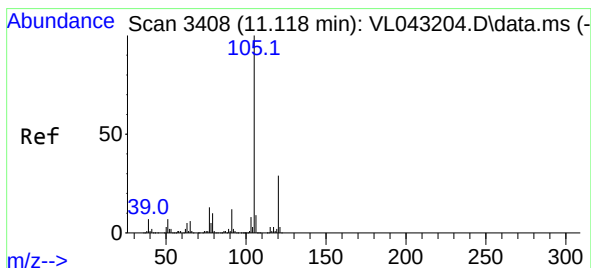
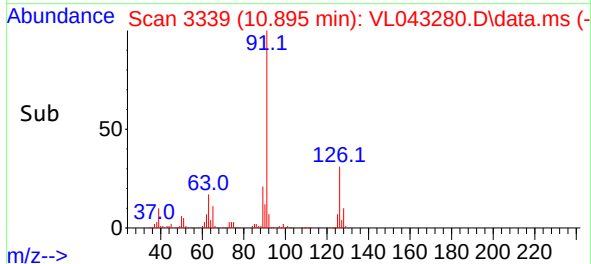
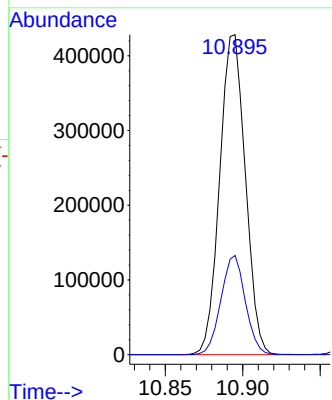
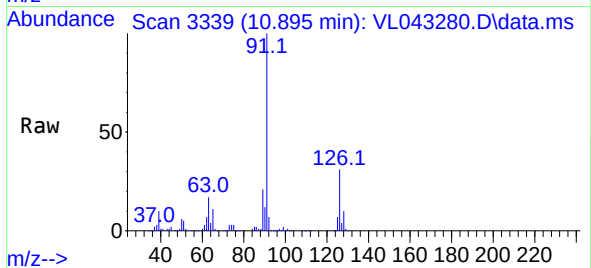
#71
2-Chlorotoluene
Concen: 10.511 ppbv
RT: 10.895 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion: 91 Resp: 49249
Ion Ratio Lower Upper
91 100
126 29.5 11.7 46.7

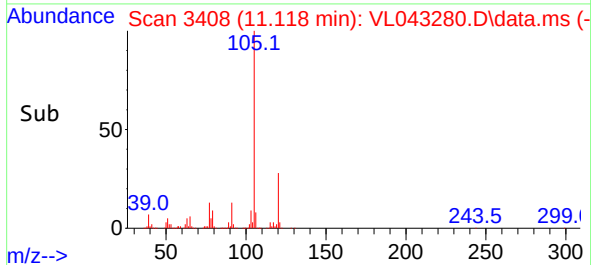
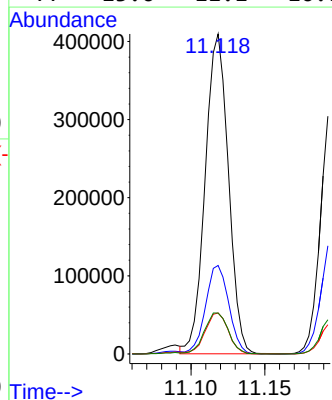
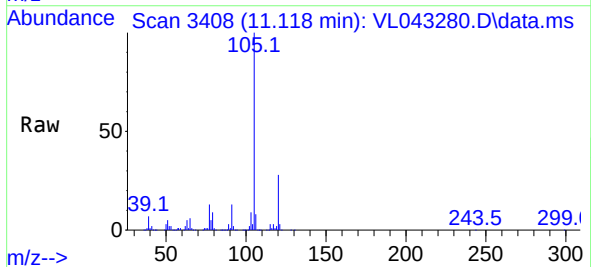
Manual Integrations
APPROVED

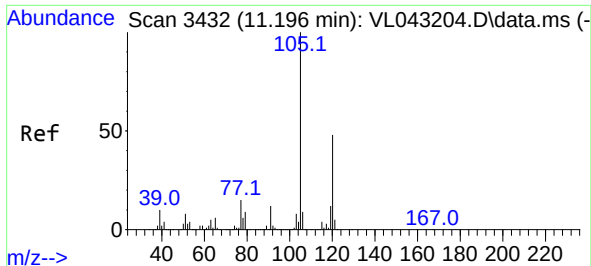
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#72
4-Ethyltoluene
Concen: 10.803 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Tgt Ion:105 Resp: 448275
Ion Ratio Lower Upper
105 100
120 28.5 23.8 35.8
91 13.3 10.3 15.5
77 13.6 11.1 16.7





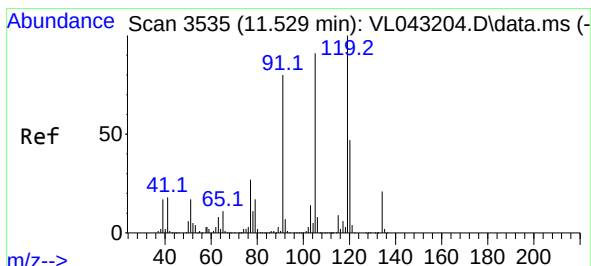
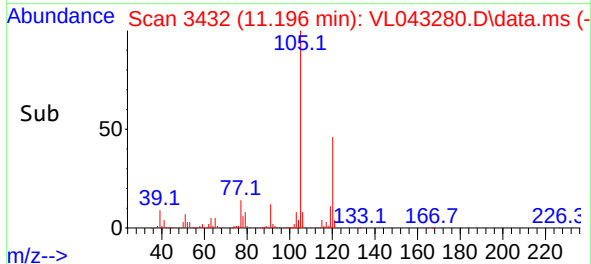
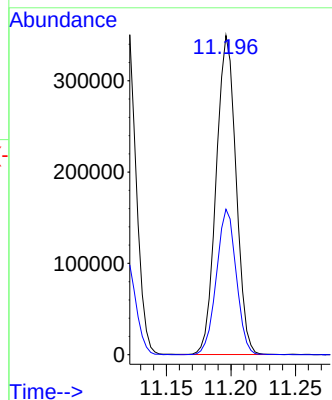
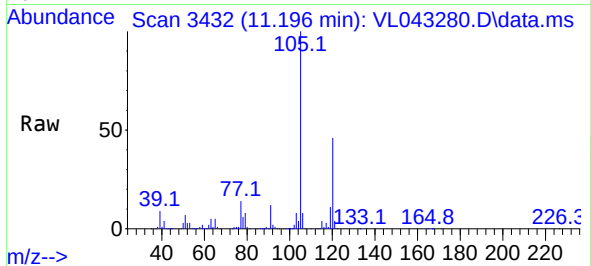
#73
1,3,5-Trimethylbenzene
Concen: 10.697 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion:105 Resp: 372510
Ion Ratio Lower Upper
105 100
120 45.6 38.6 57.8

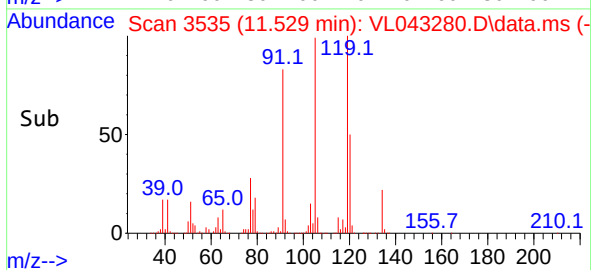
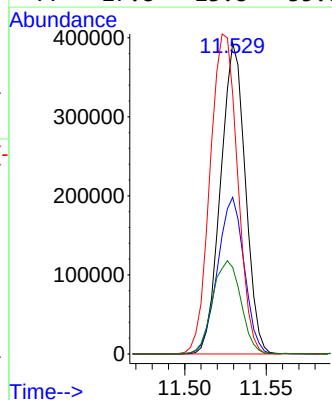
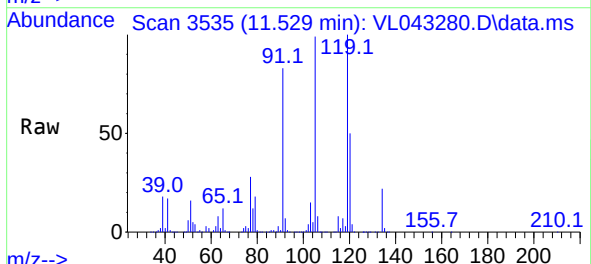
Manual Integrations
APPROVED

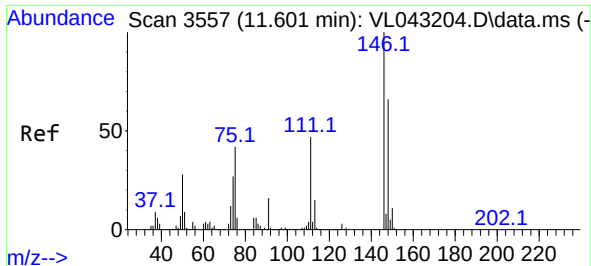
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 10.888 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Tgt Ion:105 Resp: 413769
Ion Ratio Lower Upper
105 100
120 50.4 41.7 62.5
91 83.7 70.0 105.0
77 27.8 23.8 35.8





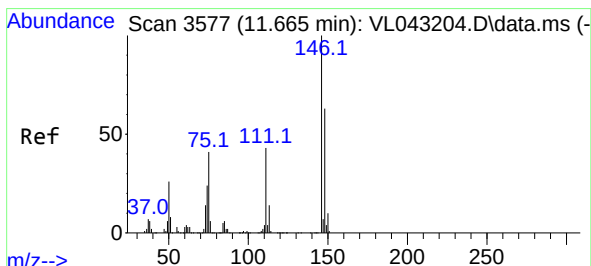
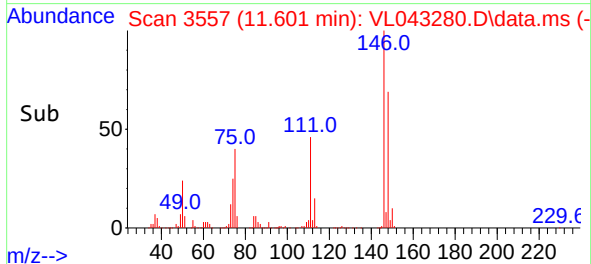
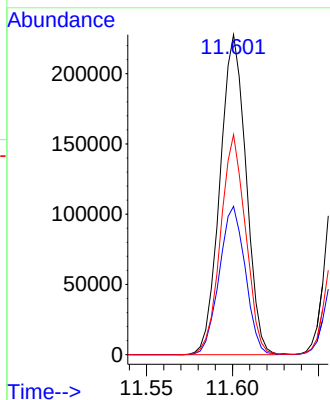
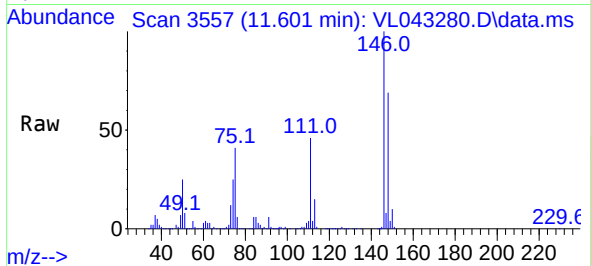
#75
1,3-Dichlorobenzene
Concen: 10.806 ppbv
RT: 11.601 min Scan# 3557
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion:146 Resp: 239632
Ion Ratio Lower Upper
146 100
111 46.2 23.4 70.3
148 66.2 31.6 95.0

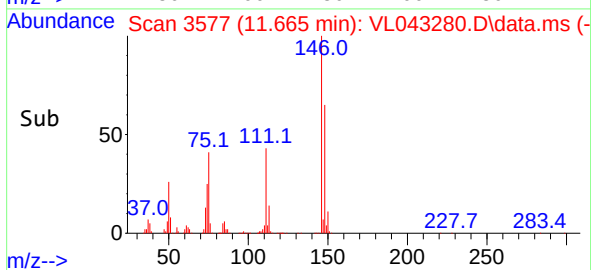
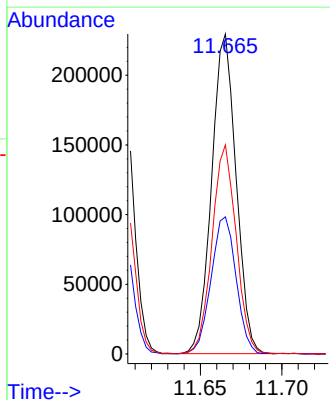
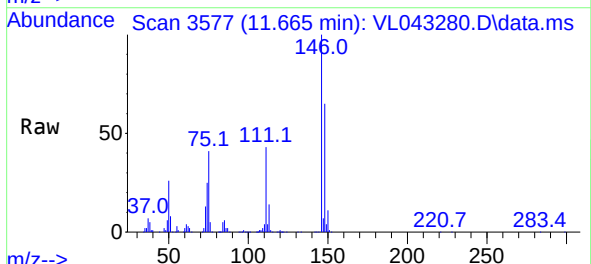
Manual Integrations
APPROVED

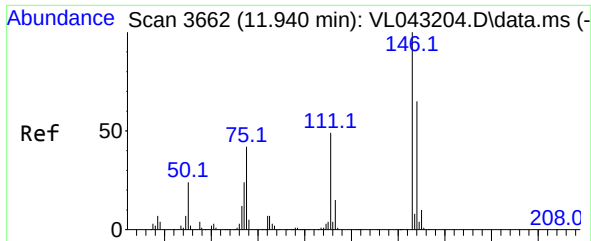
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#76
1,4-Dichlorobenzene
Concen: 10.779 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

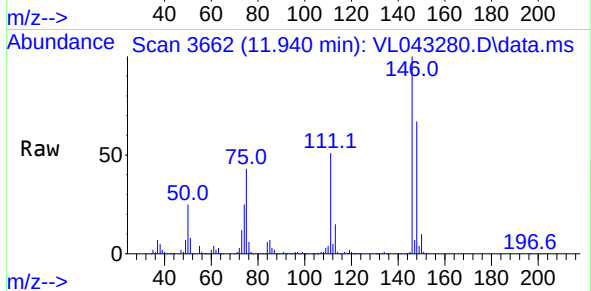
Tgt Ion:146 Resp: 239094
Ion Ratio Lower Upper
146 100
111 44.2 22.8 68.3
148 64.8 31.8 95.4





#77
1,2-Dichlorobenzene
Concen: 10.669 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

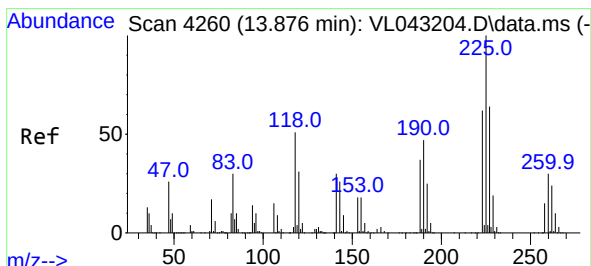
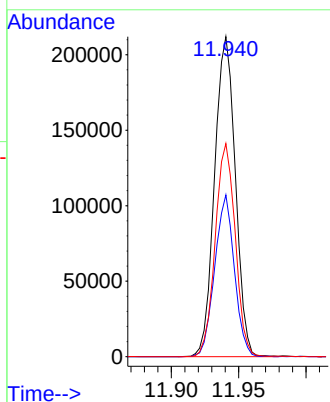
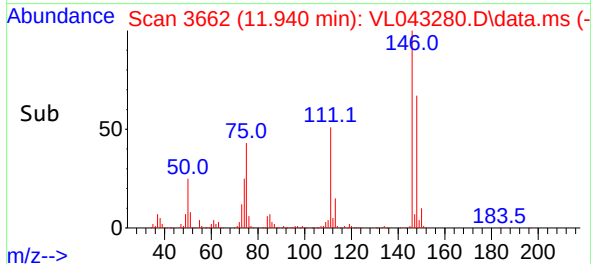
Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01



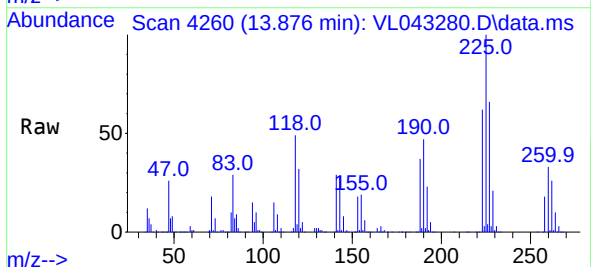
Tgt Ion:146 Resp: 227478
Ion Ratio Lower Upper
146 100
111 47.8 24.3 73.0
148 64.3 31.6 94.7

Manual Integrations
APPROVED

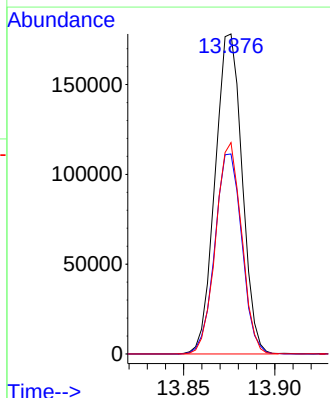
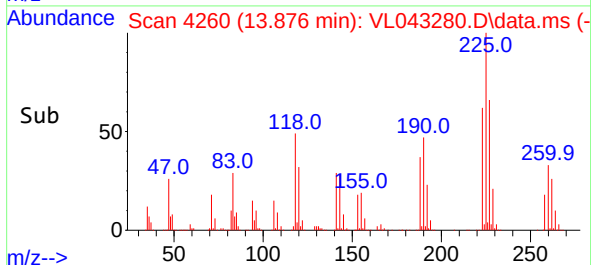
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

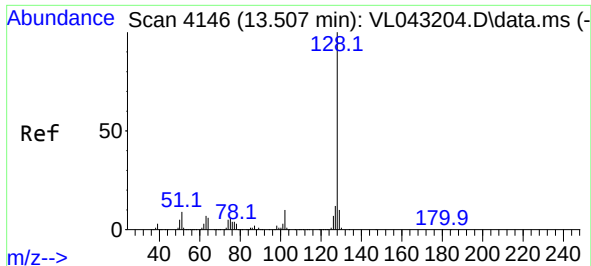


#78
Hexachloro-1,3-Butadiene
Concen: 10.321 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52



Tgt Ion:225 Resp: 183653
Ion Ratio Lower Upper
225 100
223 62.5 50.2 75.4
227 63.3 51.1 76.7





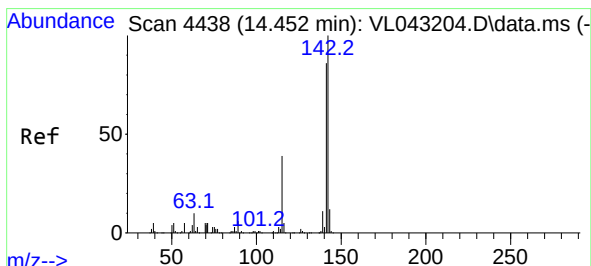
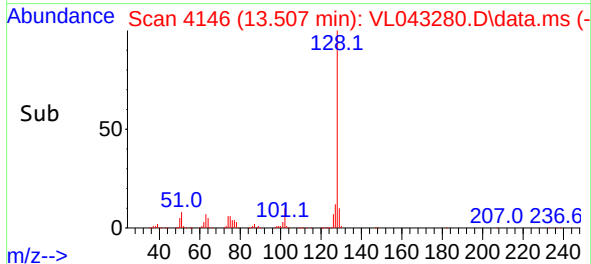
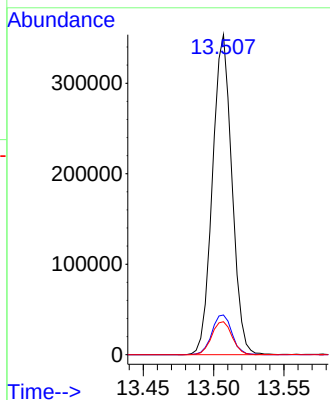
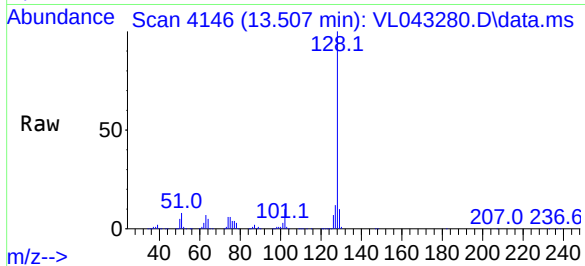
#79
Naphthalene
Concen: 10.074 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Tgt Ion:128 Resp: 340028
Ion Ratio Lower Upper
128 100
127 12.4 9.9 14.9
129 10.3 8.4 12.6

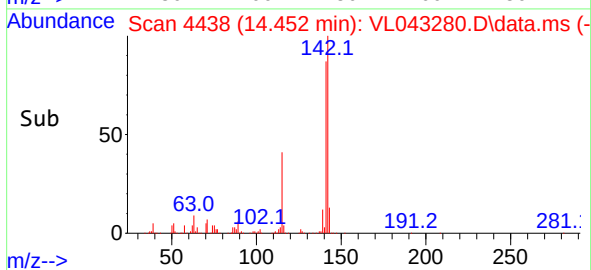
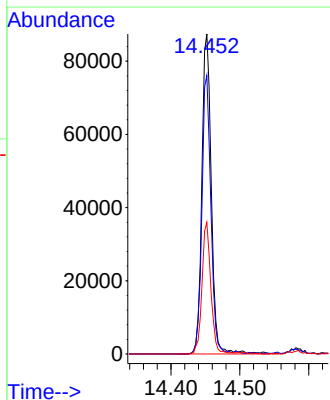
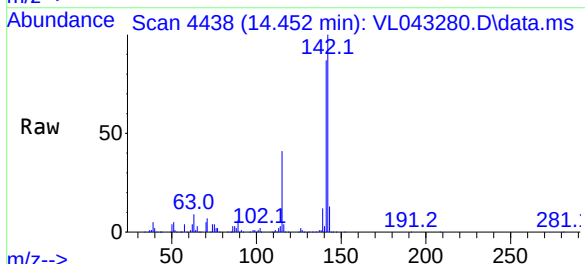
Manual Integrations
APPROVED

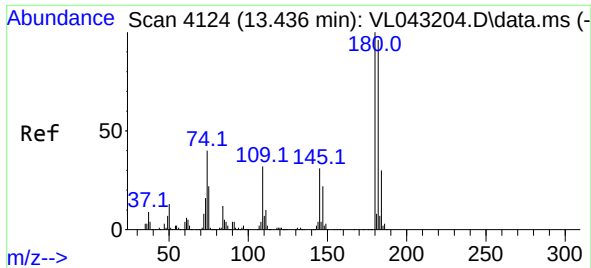
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#80
Naphthalene,2-methyl-
Concen: 9.433 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL043280.D
Acq: 24 Nov 2025 13:52

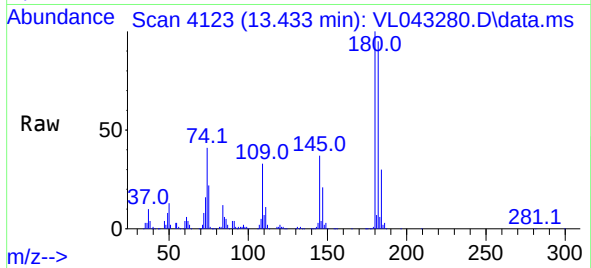
Tgt Ion:142 Resp: 83577
Ion Ratio Lower Upper
142 100
141 83.9 67.1 100.7
115 39.4 31.9 47.9





#81
 1,2,4-Trichlorobenzene
 Concen: 11.122 ppbv
 RT: 13.433 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL043280.D
 Acq: 24 Nov 2025 13:52

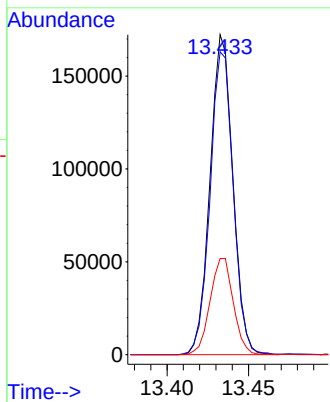
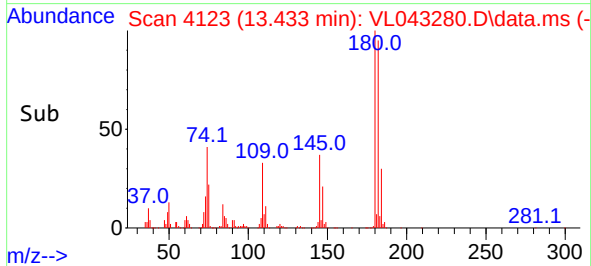
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1124ABS01



Tgt Ion:180 Resp: 167890
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.4 116.2
 184 30.7 24.2 36.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043203.D	1,1,1,2-Tetrachloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,1,2-Trichloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,4-Dioxane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	cis-1,3-Dichloropropene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Ethyl Acetate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Heptane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	m/p-Xylene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Methyl Methacrylate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Toluene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICCC010	VL043204.D	m/p-Xylene	sam	11/19/2025 8:29:20 AM	MMDadoda	11/19/2025 9:42:15 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,1,2-Trichloroethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,4-Dioxane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Benzene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC002	VL043205.D	Dibromochloromethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Heptane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	m/p-Xylene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	t-1,3-Dichloropropene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Trichloroethene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	1,4-Dioxane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	m/p-Xylene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	t-1,3-Dichloropropene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	Trichloroethene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,2-Dibromoethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL043208.D	Carbon Tetrachloride	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Naphthalene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Tetrachloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Trichloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Carbon Tetrachloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Tetrachloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Trichloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Vinyl Chloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	m/p-Xylene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	Propene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICV010	VL043211.D	m/p-Xylene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL111825

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VL043211.D	Propene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VI112425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043278.D	m/p-Xylene	sam	11/25/2025 7:21:56 AM	MMDadoda	11/25/2025 7:59:24 AM	Peak Integrated by Software
VSTDCCC010	VL043278.D	Propene	sam	11/25/2025 7:21:56 AM	MMDadoda	11/25/2025 7:59:24 AM	Peak Integrated by Software
VL1124ABS01	VL043280.D	m/p-Xylene	sam	11/25/2025 7:22:01 AM	MMDadoda	11/25/2025 7:59:28 AM	Peak Integrated by Software
VL1124ABS01	VL043280.D	Propene	sam	11/25/2025 7:22:01 AM	MMDadoda	11/25/2025 7:59:28 AM	Peak Integrated by Software
Q3696-02	VL043281.D	Carbon Tetrachloride	sam	11/25/2025 7:22:55 AM	MMDadoda	11/25/2025 7:59:31 AM	Peak Integrated by Software
Q3696-02	VL043281.D	Chlorodifluoromethane	sam	11/25/2025 7:22:55 AM	MMDadoda	11/25/2025 7:59:31 AM	Peak Integrated by Software
Q3696-02	VL043281.D	Cyclohexane	sam	11/25/2025 7:22:55 AM	MMDadoda	11/25/2025 7:59:31 AM	Peak Integrated by Software
Q3696-02	VL043281.D	Heptane	sam	11/25/2025 7:22:55 AM	MMDadoda	11/25/2025 7:59:31 AM	Peak Integrated by Software
Q3696-02	VL043281.D	Tetrachloroethene	sam	11/25/2025 7:22:55 AM	MMDadoda	11/25/2025 7:59:31 AM	Peak Integrated by Software
Q3696-02	VL043281.D	Toluene	sam	11/25/2025 7:22:55 AM	MMDadoda	11/25/2025 7:59:31 AM	Peak Integrated by Software
Q3696-02	VL043281.D	Trichlorofluoromethane	sam	11/25/2025 7:22:55 AM	MMDadoda	11/25/2025 7:59:31 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	2,2,4-Trimethylpentane	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	Carbon Tetrachloride	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VI112425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3696-02DUP	VL043282.D	Chlorodifluoromethane	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	Cyclohexane	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	Ethyl Benzene	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	Heptane	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	m/p-Xylene	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	Tetrachloroethene	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-02DUP	VL043282.D	Toluene	sam	11/25/2025 7:22:38 AM	MMDadoda	11/25/2025 7:59:35 AM	Peak Integrated by Software
Q3696-04	VL043283.D	2,2,4-Trimethylpentane	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software
Q3696-04	VL043283.D	Carbon Tetrachloride	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software
Q3696-04	VL043283.D	Chlorodifluoromethane	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software
Q3696-04	VL043283.D	Heptane	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software
Q3696-04	VL043283.D	m/p-Xylene	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software
Q3696-04	VL043283.D	Tetrachloroethene	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VI112425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3696-04	VL043283.D	Toluene	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software
Q3696-04	VL043283.D	Trichloroethene	sam	11/25/2025 7:22:06 AM	MMDadoda	11/25/2025 7:59:39 AM	Peak Integrated by Software
Q3696-06	VL043284.D	Carbon Tetrachloride	sam	11/25/2025 7:22:32 AM	MMDadoda	11/25/2025 7:59:42 AM	Peak Integrated by Software
Q3696-06	VL043284.D	Chlorodifluoromethane	sam	11/25/2025 7:22:32 AM	MMDadoda	11/25/2025 7:59:42 AM	Peak Integrated by Software
Q3696-06	VL043284.D	Tetrachloroethene	sam	11/25/2025 7:22:32 AM	MMDadoda	11/25/2025 7:59:42 AM	Peak Integrated by Software
Q3696-06	VL043284.D	Trichloroethene	sam	11/25/2025 7:22:32 AM	MMDadoda	11/25/2025 7:59:42 AM	Peak Integrated by Software
Q3696-07	VL043285.D	2,2,4-Trimethylpentane	sam	11/25/2025 7:23:08 AM	MMDadoda	11/25/2025 7:59:46 AM	Peak Integrated by Software
Q3696-07	VL043285.D	Chlorodifluoromethane	sam	11/25/2025 7:23:08 AM	MMDadoda	11/25/2025 7:59:46 AM	Peak Integrated by Software
Q3696-07	VL043285.D	m/p-Xylene	sam	11/25/2025 7:23:08 AM	MMDadoda	11/25/2025 7:59:46 AM	Peak Integrated by Software
Q3696-07	VL043285.D	Tetrachloroethene	sam	11/25/2025 7:23:08 AM	MMDadoda	11/25/2025 7:59:46 AM	Peak Integrated by Software
Q3696-07	VL043285.D	Toluene	sam	11/25/2025 7:23:08 AM	MMDadoda	11/25/2025 7:59:46 AM	Peak Integrated by Software
Q3696-01	VL043286.D	Cyclohexane	sam	11/25/2025 7:22:24 AM	MMDadoda	11/25/2025 7:59:51 AM	Peak Integrated by Software
Q3696-01	VL043286.D	Trichloroethene	sam	11/25/2025 7:22:24 AM	MMDadoda	11/25/2025 7:59:51 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VI112425

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3696-03	VL043287.D	1,1,1-Trichloroethane	sam	11/25/2025 7:23:02 AM	MMDadoda	11/25/2025 7:59:54 AM	Peak Integrated by Software
Q3696-03	VL043287.D	m/p-Xylene	sam	11/25/2025 7:23:02 AM	MMDadoda	11/25/2025 7:59:54 AM	Peak Integrated by Software
Q3696-03	VL043287.D	Toluene	sam	11/25/2025 7:23:02 AM	MMDadoda	11/25/2025 7:59:54 AM	Peak Integrated by Software
Q3696-03	VL043287.D	Trichloroethene	sam	11/25/2025 7:23:02 AM	MMDadoda	11/25/2025 7:59:54 AM	Peak Integrated by Software
Q3696-05	VL043288.D	m/p-Xylene	sam	11/25/2025 7:22:17 AM	MMDadoda	11/25/2025 7:59:58 AM	Peak Integrated by Software
Q3696-05	VL043288.D	Toluene	sam	11/25/2025 7:22:17 AM	MMDadoda	11/25/2025 7:59:58 AM	Peak Integrated by Software
Q3696-05	VL043288.D	Trichlorofluoromethane	sam	11/25/2025 7:22:17 AM	MMDadoda	11/25/2025 7:59:58 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 9:44:32 AM
SubDirectory	VL111825	HP Acquire Method	TO15AIR
		HP Processing Method	VL111825AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2691		
Initial Calibration Stds	AP2694,AP2695,AP2696		
CCC	AP2694		
Internal Standard/PEM	AP2691		
ICV/I.BLK	AP2697		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043202.D	18 Nov 2025 08:46	SY/MD	Ok
2	VSTDIC0.5	VL043203.D	18 Nov 2025 09:29	SY/MD	Ok,M
3	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	SY/MD	Ok,M
4	VSTDIC002	VL043205.D	18 Nov 2025 10:37	SY/MD	Ok,M
5	VSTDIC001	VL043206.D	18 Nov 2025 11:10	SY/MD	Ok,M
6	VSTDIC0.5	VL043207.D	18 Nov 2025 11:43	SY/MD	Not Ok
7	VSTDIC0.1	VL043208.D	18 Nov 2025 12:16	SY/MD	Ok,M
8	VSTDIC0.03	VL043209.D	18 Nov 2025 12:49	SY/MD	Ok,M
9	VSTDIC015	VL043210.D	18 Nov 2025 13:24	SY/MD	Ok,M
10	VSTDICV010	VL043211.D	18 Nov 2025 13:56	SY/MD	Ok,M
11	VL1118ABL01	VL043212.D	18 Nov 2025 14:41	SY/MD	Ok
12	VL1118ABS01	VL043213.D	18 Nov 2025 15:24	SY/MD	Ok,M
13	Q3651-03	VL043214.D	18 Nov 2025 15:57	SY/MD	Dilution
14	Q3651-03DUP	VL043215.D	18 Nov 2025 16:31	SY/MD	Ok,M
15	Q3651-04	VL043216.D	18 Nov 2025 17:06	SY/MD	Dilution
16	Q3651-06	VL043217.D	18 Nov 2025 17:40	SY/MD	Dilution
17	Q3650-03	VL043218.D	18 Nov 2025 18:15	SY/MD	Ok,M
18	Q3650-04	VL043219.D	18 Nov 2025 18:49	SY/MD	Ok,M
19	Q3650-05	VL043220.D	18 Nov 2025 19:23	SY/MD	Ok,M
20	Q3650-06	VL043221.D	18 Nov 2025 19:58	SY/MD	Ok,M
21	Q3651-01	VL043222.D	18 Nov 2025 20:29	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2691			
Initial Calibration Stds		AP2694,AP2695,AP2696			
CCC		AP2694			
Internal Standard/PEM		AP2691			
ICV/I.BLK		AP2697			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3651-02	VL043223.D	18 Nov 2025 21:01	SY/MD	Ok,M
23	Q3651-05	VL043224.D	18 Nov 2025 21:33	SY/MD	Ok,M
24	Q3650-01	VL043225.D	18 Nov 2025 22:05	SY/MD	Ok,M
25	Q3650-02	VL043226.D	18 Nov 2025 22:37	SY/MD	Ok,M
26	Q3651-03DL	VL043227.D	18 Nov 2025 23:09	SY/MD	Ok,M
27	Q3651-03DL	VL043228.D	18 Nov 2025 23:41	SY/MD	Not Ok
28	Q3651-04DL	VL043229.D	19 Nov 2025 00:13	SY/MD	Ok,M
29	Q3651-06DL	VL043230.D	19 Nov 2025 00:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL112425

Review By	Semsettin Yesilyurt	Review On	11/25/2025 7:23:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/25/2025 8:00:09 AM		
SubDirectory	VL112425	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2691				
Initial Calibration Stds	AP2694,AP2695,AP2696				
CCC	AP2694				
Internal Standard/PEM	AP2691				
ICV/I.BLK	AP2697				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043277.D	24 Nov 2025 08:53	SY/MD	Ok
2	VSTDCCC010	VL043278.D	24 Nov 2025 12:27	SY/MD	Ok,M
3	VL1124ABL01	VL043279.D	24 Nov 2025 13:11	SY/MD	Ok
4	VL1124ABS01	VL043280.D	24 Nov 2025 13:52	SY/MD	Ok,M
5	Q3696-02	VL043281.D	24 Nov 2025 14:26	SY/MD	Ok,M
6	Q3696-02DUP	VL043282.D	24 Nov 2025 15:00	SY/MD	Ok,M
7	Q3696-04	VL043283.D	24 Nov 2025 15:35	SY/MD	Ok,M
8	Q3696-06	VL043284.D	24 Nov 2025 16:09	SY/MD	Ok,M
9	Q3696-07	VL043285.D	24 Nov 2025 16:43	SY/MD	Ok,M
10	Q3696-01	VL043286.D	24 Nov 2025 17:15	SY/MD	Ok,M
11	Q3696-03	VL043287.D	24 Nov 2025 17:47	SY/MD	Ok,M
12	Q3696-05	VL043288.D	24 Nov 2025 18:20	SY/MD	Ok,M
13	Q3696-01DL	VL043289.D	24 Nov 2025 20:07	SY/MD	Not Ok
14	QC112425 CAN 10315	VL043290.D	25 Nov 2025 08:21	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043202.D	18 Nov 2025 08:46		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL043203.D	18 Nov 2025 09:29		SY/MD	Ok,M
3	VSTDICCC010	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	LR-20	SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL043205.D	18 Nov 2025 10:37		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL043206.D	18 Nov 2025 11:10		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL043207.D	18 Nov 2025 11:43	Not used	SY/MD	Not Ok
7	VSTDIC0.1	VSTDIC0.1	VL043208.D	18 Nov 2025 12:16		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL043209.D	18 Nov 2025 12:49		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL043210.D	18 Nov 2025 13:24		SY/MD	Ok,M
10	VSTDICV010	ICVVL111825	VL043211.D	18 Nov 2025 13:56	ICV failed for com.#66	SY/MD	Ok,M
11	VL1118ABL01	VL1118ABL01	VL043212.D	18 Nov 2025 14:41		SY/MD	Ok
12	VL1118ABS01	VL1118ABS01	VL043213.D	18 Nov 2025 15:24		SY/MD	Ok,M
13	Q3651-03	IA1	VL043214.D	18 Nov 2025 15:57	Need 20X	SY/MD	Dilution
14	Q3651-03DUP	IA1DUP	VL043215.D	18 Nov 2025 16:31		SY/MD	Ok,M
15	Q3651-04	IA2	VL043216.D	18 Nov 2025 17:06	Need 10X	SY/MD	Dilution
16	Q3651-06	IA3	VL043217.D	18 Nov 2025 17:40	Need 10X	SY/MD	Dilution
17	Q3650-03	IA1	VL043218.D	18 Nov 2025 18:15		SY/MD	Ok,M
18	Q3650-04	IA2	VL043219.D	18 Nov 2025 18:49		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2691				
Initial Calibration Stds	AP2694,AP2695,AP2696				
CCC	AP2694				
Internal Standard/PEM	AP2691				
ICV/I.BLK	AP2697				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q3650-05	IA3	VL043220.D	18 Nov 2025 19:23		SY/MD	Ok,M
20	Q3650-06	OA1	VL043221.D	18 Nov 2025 19:58		SY/MD	Ok,M
21	Q3651-01	SV1	VL043222.D	18 Nov 2025 20:29		SY/MD	Ok,M
22	Q3651-02	SV2	VL043223.D	18 Nov 2025 21:01		SY/MD	Ok,M
23	Q3651-05	SV3	VL043224.D	18 Nov 2025 21:33		SY/MD	Ok,M
24	Q3650-01	SV1	VL043225.D	18 Nov 2025 22:05		SY/MD	Ok,M
25	Q3650-02	SV2	VL043226.D	18 Nov 2025 22:37		SY/MD	Ok,M
26	Q3651-03DL	IA1DL	VL043227.D	18 Nov 2025 23:09		SY/MD	Ok,M
27	Q3651-03DL	IA1DL	VL043228.D	18 Nov 2025 23:41	Not Required	SY/MD	Not Ok
28	Q3651-04DL	IA2DL	VL043229.D	19 Nov 2025 00:13		SY/MD	Ok,M
29	Q3651-06DL	IA3DL	VL043230.D	19 Nov 2025 00:44		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL112425

Review By	Semsettin Yesilyurt	Review On	11/25/2025 7:23:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/25/2025 8:00:09 AM		
SubDirectory	VL112425	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2691			
Initial Calibration Stds		AP2694,AP2695,AP2696			
CCC		AP2694			
Internal Standard/PEM		AP2691			
ICV/I.BLK		AP2697			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043277.D	24 Nov 2025 08:53		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043278.D	24 Nov 2025 12:27		SY/MD	Ok,M
3	VL1124ABL01	VL1124ABL01	VL043279.D	24 Nov 2025 13:11		SY/MD	Ok
4	VL1124ABS01	VL1124ABS01	VL043280.D	24 Nov 2025 13:52		SY/MD	Ok,M
5	Q3696-02	IA1	VL043281.D	24 Nov 2025 14:26		SY/MD	Ok,M
6	Q3696-02DUP	IA1DUP	VL043282.D	24 Nov 2025 15:00		SY/MD	Ok,M
7	Q3696-04	IA2	VL043283.D	24 Nov 2025 15:35		SY/MD	Ok,M
8	Q3696-06	IA3	VL043284.D	24 Nov 2025 16:09		SY/MD	Ok,M
9	Q3696-07	OA1	VL043285.D	24 Nov 2025 16:43		SY/MD	Ok,M
10	Q3696-01	SV1	VL043286.D	24 Nov 2025 17:15		SY/MD	Ok,M
11	Q3696-03	SV2	VL043287.D	24 Nov 2025 17:47		SY/MD	Ok,M
12	Q3696-05	SV3	VL043288.D	24 Nov 2025 18:20		SY/MD	Ok,M
13	Q3696-01DL	SV1DL	VL043289.D	24 Nov 2025 20:07	Not Required	SY/MD	Not Ok
14	QC112425 CAN 10315	QC112425 CAN 10315	VL043290.D	25 Nov 2025 08:21		SY/MD	Ok

M : Manual Integration

Client Contact Information				Bottle Order ID : B2511028				Courier : F Galdun				1 of 7 COCs			
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
Site Details: 90-73 SURPHIN BLVD, JAMAICA, NY															
City : Lake Hiawatha				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10 business days OR				EDD Type : PDF							
Zip Code : 07034				Rush (Specify): 7 Days											
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SVI	11/19/25	10:19	12:19	21.5	3.5	55	55	-30	-4.7	10617	10329	6 L	50	VL043135.D	1		1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

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

REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings 0.0

Sampling site (State):

Quick Connector required : No

Canisters Shipped by:	Date/Time: 11/14/25	Canisters Received by: CR	Date/Time: 11/20/25 12:07
Samples Relinquished by:	Date/Time: 11/20/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2511028 - 4

Client Contact Information				Bottle Order ID : B2511028				Courier : <u>FGaldun</u>				<u>2</u> of <u>7</u> COCs			
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : <u>Frank Galdun</u>				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: <u>90-73 SURFING BLVD JAMAICA, NY</u>											
				Analysis Turnaround Time : <u>7</u>				Data Package Type : <u>RESULTS ONLY</u>							
				Standard : <u>10 business days</u> OR				EDD Type : <u>PDF</u>							
Rush (Specify): <u>7</u> Days															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
IA1	11/14/25	10:20	12:20	30	5.5	55	55	-29	-4.3	10479	10598	6 L	50	VL043135.D	1	1	

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) <u>Sid</u>
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.
	Ambient	Maximum	Minimum		
Start					
Stop					

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings 0.0

Sampling site (State):

Quick Connector required : <u>No</u>			
Canisters Shipped by: <u>SAM</u>	Date/Time: <u>11/14/25</u>	Canisters Received by: <u>cl</u>	Date/Time: <u>11/20/25 1207</u>
Samples Relinquished by: <u>FGaldun</u>	Date/Time: <u>11/20/25</u>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2511028 - 8

Client Contact Information				Bottle Order ID : B2511028				Courier : <u>FGALDUN</u>				<u>3</u> of <u>7</u> COCs																			
Client ID : GFEL01 Project ID : All Projects				Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis				Matrix																			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																							
				Phone Number : 646-542-3465																											
				Fax Number : 973-334-1692																											
City : Lake Hiawatha				Site Details: <u>90-73 SUTHERIN BLD.</u> <u>JAMAICA, NJ</u>																											
State : NJ				Analysis Turnaround Time <u>7</u>																											
Zip Code : 07034				Standard : ~~10 business days~~ OR				Data Package Type : <u>RESULTS ONLY</u>																							
Country :				Rush (Specify): <u>7</u> Days				EDD Type : <u>PDE</u>																							
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID																	
<u>SU2</u>	<u>11/18/25</u>	<u>10:44</u>	<u>12:44</u>	<u>OVER 30</u>	<u>9.9</u>	<u>55</u>	<u>55</u>	<u>-29</u>	<u>-5.5</u>	<u>10226</u>	<u>10439</u>	<u>6 L</u>	<u>50</u>	<u>VL043135.D</u>	<u>TO-15</u>				<u>Indoor/Ambient Air</u>												
Temperature (Fahrenheit) <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) <u>[Signature]</u>									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Pressure (Inches of Hg) <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY THOSE ANALYTICS ON THE ATTACHED LIST</u> Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																															
Sampling site (State):																															
Quick Connector required : <u>NO</u>																															
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>11/14/25</u>				Canisters Received by: <u>ch</u>				Date/Time: <u>11/20/25 12:07</u>																			
Samples Relinquished by: <u>FRANK</u>				Date/Time: <u>11/20/25</u>				Received by:				Date/Time:																			
Relinquished by:				Date/Time:				Received by:				Date/Time:																			

Client Contact Information				Bottle Order ID : B2511028				Courier : <u>FGALDUN</u>				<u>4</u> of <u>7</u> COCs				
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis		Matrix		
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified								
				Phone Number : 646-542-3465												
				Fax Number : 973-334-1692												
				Site Details: <u>90-73 SUTPHAIN BVD. JAMAICA, NY</u>												
City : Lake Hiawatha				Analysis Turnaround Time <u>7 DAY</u>				Data Package Type : <u>RESULTS ONLY</u>				<u>TO-15</u>		<u>Indoor Ambient Air</u> <u>Soil Gas</u>		
State : NJ				Standard : 10 business days OR				EDD Type : <u>PDF</u>								
Zip Code : 07034				Rush (Specify): <u>7</u> Days												
Sample Identification		Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID		
<u>IAZ</u>		<u>11/19/25</u>	<u>10:42</u>	<u>12:42</u>	<u>6</u>	<u>55</u>	<u>55</u>	<u>-30</u>	<u>-5.1</u>	<u>10218</u>	<u>10445</u>	<u>6 L</u>	<u>50</u>	<u>VL043135.D</u>		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <u>[Signature]</u>						
		Ambient		Maximum		Minimum										
Start																
Stop																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST</u> 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 : <u>No</u>																
Canisters Shipped by: <u>[Signature]</u>				Date/Time: <u>11/14/25</u>				Canisters Received by: <u>CR</u>				Date/Time: <u>11/20/25 12:07</u>				
Samples Relinquished by: <u>[Signature]</u>				Date/Time: <u>11/20/25</u>				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				

Client Contact Information				Bottle Order ID : B2511028				Courier : FGALDUN				5 of 7 COCs				
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix		
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified								
				Phone Number : 646-542-3465												
				Fax Number : 973-334-1692												
				Site Details: 90-73 SUTPHIN BLVD JAMAICA NY												
City : Lake Hiawatha				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY								
State : NJ				Standard : ~~10 Business days~~ OR												
Zip Code : 07034				Rush (Specify): 7 Days				EDD Type : PDF								
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air Soil Gas
SV3	11/18/25	10:57	12:57	30	5.5	5.5	5.5	-29.5	-5.5	10585	10334	6 L	50	VL043135.D		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) SG						
		Ambient	Maximum	Minimum												
Start																
Stop																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.						
		Ambient	Maximum	Minimum												
Start																
Stop																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings:																
Sampling site (State):																
Quick Connector required : No																
Canisters Shipped by: FRANK				Date/Time: 11/14/25				Canisters Received by: CP				Date/Time: 11/20/25 1207				B2511028 - 5
Samples Relinquished by: FRANK				Date/Time: 11/20/25				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				

Client Contact Information				Bottle Order ID : B2511028				Courier : F Galdun				6 of 7 COCs																	
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 90-73 SUTRAIN BLVD Jamaica, NY																									
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY																					
				Standard : 10 business days OR				EDD Type : PDE																					
Rush (Specify): 7 Days																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas												
IA3	11/19/25							-30	-2.2	10547	10053	6 L	50	VL043135.D	1	1													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. 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: 11/14/24				Canisters Received by:				Date/Time: 11/20/25 1207				B2511028 - 1													
Samples Relinquished by:				Date/Time:				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2511028				Courier : F Galdun				<u>2</u> of <u>7</u> COCs				
Client ID : GFEL01				Project ID : All Projects				Sampler Name(s) : FRANK Galdun				Analysis		Matrix		
Customer GFE LLC Name : Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified								
				Phone Number : 646-542-3465												
				Fax Number : 973-334-1692												
				Site Details: 90-73 Sutphin Blvd. Jamaica, NY												
Analysis Turnaround Time 7 DAY				Standard : 10-business days OR				Data Package Type : RESULTS ONLY								
Rush (Specify): 7 Days				EDD Type : RDE												
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
OA1	11/19/25	10:25	12:25	30	0	55	55	-30	-2.2	10625	10602	6 L	50	VL043135.D	1	1
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. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.						
		Ambient	Maximum	Minimum												
Start																
Stop																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings:																
Sampling site (State):																
Quick Connector required : No																
Canisters Shipped by: [Signature]				Date/Time: 11/19/25				Canisters Received by: [Signature]				Date/Time: 11/20/25 1207				
Samples Relinquished by: [Signature]				Date/Time: 11/20/25				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				

REQUESTED ANALYTE LIST:

PCE

TCE

cis-1,2-DCE

1,1,1-TCA

1,1-DCE

Vinyl chloride

Benzene

Toluene

Ethylbenzene

Naphthalene

Cyclohexane

2,2,4-Trimethylpentane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

o-xylene

m,p-xylene

Heptane

Hexane

New Jersey Department of Environmental Protection

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
~~QA/QC~~ Title: Sample Custodian
Field Sample Seal No. Q3696 Date Broken 11/13/2025 Military Time Seal Broken: 12:07:00
Case No.: 90-73 Sutphin Blvd Jamaica Analytical Parameter/Fraction MOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3696-01	SV1		
Q3696-02	IA1		
Q3696-03	SV2		
Q3696-04	IA2		
Q3696-05	SV3		
Q3696-06	IA3		
Q3696-07	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/20	1410	Signature  Printed Name <u>PAIGE W.</u>	Signature  Printed Name <u>Seamus M. Gustafson</u>	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy

AIR SAMPLE PRESSURE & DILUTION LOGBOOKAnalyst Signature: Supervisor Signature: 

METHOD: TO-15

Pressure Gauge ID: A7 55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
11/11/05	Q3650-04	10275	13.0	-3.5				sq
11/14/05	Q3650-05	10198	12.2	-5.1				
	Q3650-06	10197	12.8	-3.9				
	Q3651-01	10281	12.0	-5.5				
	Q3651-02	10606	12.8	-3.9				
	Q3651-03	10331	12.6	-4.3				
	Q3651-04	10320	12.4	-4.7				
	Q3651-05	10315	12.8	-3.9				
	Q3651-06	10280	12.8	-3.9				
11/11/05	Q3655-01	10669	9.8	-10.0				sq
	Q3655-02	10795	9.2	-11.2				
	Q3655-03	10800	10.0	-9.6				
	Q3655-04	10656	9.4	-10.8				
	Q3655-05	10120	9.6	-10.4				
	Q3655-06	10679	9.8	-10.0				
11/20/05	Q3626-12	10473	1.0		30.0		30x	sq
11/20/05	Q3696-01	10329	12.4	-4.7				sq
	Q3696-02	10598	12.6	-4.3				
	Q3696-03	10439	12.0	-5.5				
	Q3696-04	10445	12.2	-5.1				
	Q3696-05	10334	12.0	-5.5				↑

Analyst Signature:

Supervisor Signature: [Signature]

Pressure Gauge ID: A255971

[illegible]

Order ID : Q3696

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/21/2025	B2511028	Q3696-01	-4.7	10329	6 L	10617		C2510004	VL043135.D Seq :VL101725 TUNE : VL043130.D ICAL : VL043110.D CCAL : VL043131.D MB : VL043132.D
11/21/2025	B2511028	Q3696-05	-5.5	10334	6 L	10585		C2510004	VL043135.D Seq :VL101725 TUNE : VL043130.D ICAL : VL043110.D CCAL : VL043131.D MB : VL043132.D
11/21/2025	B2511028	Q3696-04	-5.1	10445	6 L	10218		C2510004	VL043135.D Seq :VL101725 TUNE : VL043130.D ICAL : VL043110.D CCAL : VL043131.D MB : VL043132.D
11/21/2025	B2511028	Q3696-07	-2.2	10602	6 L	10625		C2510004	VL043135.D Seq :VL101725 TUNE : VL043130.D ICAL : VL043110.D CCAL : VL043131.D MB : VL043132.D
11/21/2025	B2511028	Q3696-02	-4.3	10598	6 L	10479		C2510004	VL043135.D Seq :VL101725 TUNE : VL043130.D ICAL : VL043110.D CCAL : VL043131.D MB : VL043132.D
11/21/2025	B2511028	Q3696-03	-5.5	10439	6 L	10226		C2510004	VL043135.D Seq :VL101725 TUNE : VL043130.D ICAL : VL043110.D CCAL : VL043131.D MB : VL043132.D

Order ID : Q3696

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/21/2025	B2511028	Q3696-06	-2.2	10053	6 L	10547		C2510004	VL043135.D Seq : VL101725 TUNE : VL043130.D ICAL : VL043110.D CCAL : VL043131.D MB : VL043132.D

10334

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

CHEMTECH

Client Sample ID #: SV3

Client Name: GFE

Project Name: SUTPHIN

Date: 11/19

Analysis: TO-15

Comments: _____

CHEMTECH'S SAMPLE ID: _____

Date Received: _____

Expiration Date: _____

Time: _____

22811025

Storage Location: VOA Lab
Sample: Q3696-05
Cust #: SV3

0445

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

CHEMTECH

Client Sample ID #: IA2

Client Name: GFE

Project Name: SUTPHIN

Date: 11/19

Analysis: TO-15

Comments: _____

CHEMTECH'S SAMPLE ID: _____

Date Received: _____

Expiration Date: _____

Time: _____

22811028

Storage Location: VOA Lab
Sample: Q3696-04
Cust #: IA2

22

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

CHEMTECH

Client Sample ID #: IA3

Client Name: GFE

Project Name: SUTPHIN

Date: 11/19

Analysis: TO-15

Comments: _____

CHEMTECH'S SAMPLE ID: _____

Date Received: _____

Expiration Date: _____

Time: _____

22811028

Storage Location: VOA Lab
Sample: Q3696-06
Cust #: IA3

25001

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P. (908) 789-81

Client Sample ID #:

OA1

Client Name:

CPE

Project Name:

SUTRAIN

Date:

11/19

Time:

Analysis:

10-15

Comments:

CHEMTECH'S SAMPLE ID:

Date Received:

Expiration Date:

Date

Storage Location: VOA Lab

Sample: Q3696-07

Cust #: OA1

B2511028

922